

Matrix Switcher Operating Instructions WJ-SX150A



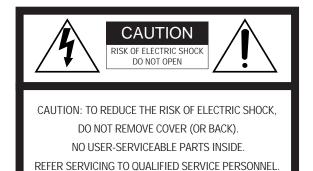
Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use.

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ENGLISH VERSION

Caution:

Before attempting to connect or operate this product, please read the label on the bottom.





The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

1966



Power disconnection. Unit with or without ON-OFF switches has power supplied to the unit whenever the power cord is inserted into the power source; however, the unit is operational only when the ON-OFF switch is in the ON position. Unplug the power cord to disconnect the main power for all unit.

For USA-

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Caution: To assure continued compliance, (example use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

The serial number of this product may be found on the bottom of the unit.

You should note the serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid identification in the event of theft.

> WJ-SX150A Model No.

Serial No.

WARNING: To prevent fire or electric shock hazard, do not expose this appliance to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

IMPORTANT SAFETY INSTRUCTIONS

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not use near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the points where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-overs.



- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

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PREFACE

Matrix Switcher WJ-SX150A is designed for a surveillance control system, which is composed of cameras, monitors and system controllers.

System controllers are used to operate the surveillance control system.

In combination with Digital Disk Recorder or a time-lapse VCR, a surveillance system can be established in a local area.

* To use WJ-HD100 Series or a time-lapse VCR, you need to install Multiplexer Board WJ-SXB151 inside the matrix switcher.

FEATURES

- 16 cameras, 4 monitors and 4 system controllers connectable
- Master-slave connection supported: Up to 64 cameras connectable using 5 matrix switchers
- Multiple sequence modes: 32 tour sequences and 4 group sequences
- Control data and timing pulse (VD2) multiplexed over a coaxial cable
- Cable compensation selectable depending on the cable length
- Cameras (or images on the monitors) selectable with alarm (sensor)
- RS-485 cameras connectable
- Multiscreen display, electronic zooming, still picture, multiscreen sequence, and motion detector available with Multiplexer Board WJ-SXB151 MUX
- Disk Recorder controllable
- Connectable to external devices supporting PS·Data

PRECAUTIONS

- Refer all work related to the installation of this product to qualified service personnel or system installers.
- Do not block the ventilation opening or slots on the cover.

To prevent the appliance from overheating, place it at least 5 cm (2 inches) away from the wall.

- **Do not drop metallic parts through slots.** This could permanently damage the appliance. Turn the power off immediately and contact qualified service personnel for service.
- Do not attempt to disassemble the appliance.

To prevent electric shock, do not remove screws or covers.

There are no user-serviceable parts inside. Contact qualified service personnel for maintenance.

• Handle the appliance with care.

Do not strike or shake, as this may damage the appliance.

• Do not expose the appliance to water or moisture. Do not try to operate it in wet areas.

Take immediate action if the appliance gets wet. Turn the power off and refer servicing to qualified service personnel. Moisture can damage the appliance and also cause electric shocks.

• Do not use strong or abrasive detergents when cleaning the appliance body.

Use a dry cloth to clean the appliance when it is dirty. When the dirt is hard to remove, use a mild detergent and wipe gently.

- Do not operate the appliance beyond its specified temperature, humidity, or power source ratings. Use the appliance at temperatures within -10°C - +50°C (14°F - 122°F) and humidity below 90 %. The input power source for this appliance is 120 V AC, 60 Hz.
- We recommend that you note down your settings and save them. Power or battery failure may erase the settings you enter.

DOCUMENT CONVENTION

This operating instructions use the following convention when describing the use and operation of this unit.

Unit: Panasonic Matrix Switcher WJ-SX150A

Multiplexer board : Panasonic Multiplexer Board WJ-SXB151 MUX

System controller: Panasonic System Controller WV-CU360C or WV-CU360CJ

Recorder: Panasonic Digital Disk Recorder or a time-lapse VCR* (*Available only when the Multiplexer board is installed)

Receiver: Panasonic Indoor Receiver WV-RC100 or Outdoor Receiver WV-RC150

System: Surveillance control system

Master recorder: Recorder connected to the Master unit in a master-slave connection

Slave n* recorder: Recorder connected to Slave n unit in a master-slave connection

* n is a unit number.

Notes:

- Text with this appearance is a special instruction, rule, or side comment related to the topic.
- In these operating instructions, WV-CU360C is used for the illustrations and descriptions of the system controller.

Symbol Used in The Operating Instructions

These operating instructions use the icon shown below to describe the functions available when the Multiplexer board is installed in the unit.

MUX : Functions available with the Multiplexer board

FEATURES OF THE MATRIX SWITCHER SYSTEM

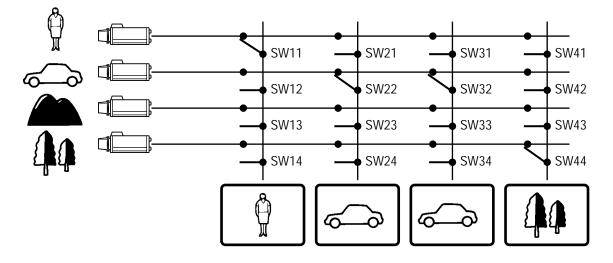
MATRIX SWITCHER SYSTEM DESCRIPTIONS

Matrix Switcher System WJ-SX150A is a surveillance control system, which is composed of cameras, recorders, and this unit (the matrix switcher).

This system has various functions for surveillance control.

The following are the descriptions about the functions.

Crosspoint Switches



All matrix switchers, no matter how complicated and sophisticated they may be, depend on crosspoint switches to perform the basic operations of the switcher. The crosspoint switches from a rectangular array of rows and columns in which any row may be connected to any column.

In the figure shown above, the rows are connected to video cameras and the columns are connected to video monitors.

By closing a certain crosspoint switch we may connect any camera to any monitor.

In the example above, by closing switch SW12 the camera 2 is displayed on the monitor 1. Likewise, by closing SW24 camera 4 is displayed on the monitor 2.

Monitoring Mode

In the normal connection, this system can control up to 16 cameras, 4 monitors, and 4 system controllers. In the master-slave connection, the system can control up to 64 cameras.

There are two surveillance ways:

One is the spot mode that associates one camera with one monitor. The other is the sequence mode that sequentially displays the images through more than one camera.

Spot Mode

The specified camera images are continuously displayed on a given monitor. When another camera input is accepted, the images are replaced by new ones.

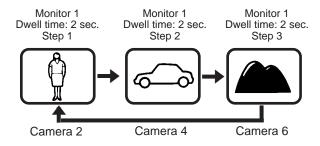
Sequence Mode

More than one camera's images are sequentially displayed for a fixed time.

The illustration shows an example of the sequential display of images through Camera 2, 4, and 6 on Monitor 1.

Before use, the parameters* of the sequence need to be configured and uploaded to the unit.

* Example: Camera selection, monitor selection, and dwell time (the time to display each image).



System Control

System controllers are used to control the equipment connected to this system.

About System Controller

This matrix switcher system has four data ports: DATA 1 to 4. The ports DATA 1 to 3 supports the terminal mode, and the DATA 4 port supports both the terminal mode and Panasonic Security Data (PS·Data) Systems. These are the operation mode of the matrix switcher. When using the DATA 4 port, you can employ either of them. Refer to p. 14 for details of the terminal mode. Refer to p. 22 for notification about PS·Data System.

Camera control

As the illustration, this unit sends the control data and VD2 timing pulse to the cameras.

On the contrary, the cameras send the video signal and state signal to the unit.

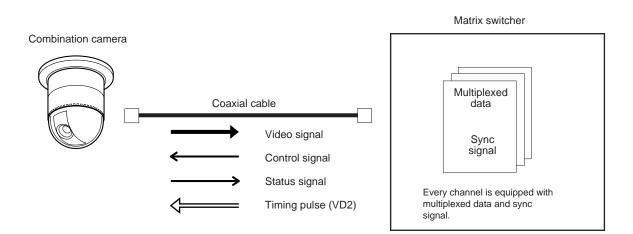
Control data is supplied via the coaxial cable from the unit, multiplexed with the camera image.

The unit is equipped with the circuit to multiplex or separate the video signal and control data with each channel.

These connections enable the control of the equipment from the system controller.

When using Panasonic RS-485 cameras, the unit can send the separated control data to them.

RS-485 cameras can be installed at longer distance from the matrix switcher than cameras that multiplex the control data.



Each signal functions as the illustrations in the next page.

VD2 provides the timing pulse of the same phase to prevent the unconformity during the switching of the image in a sequence mode.

Signal type	Function		
Control signal	Controls camera functions (pan/tilt, zooming, focusing, lens iris, preset position) and camera		
	site accessories.		
Status signal	Shows camera status.		
Timing pulse (VD2)	This signal is supplied to the unit to each camera.		
	Each figure shows the picture status with or without the timing pulse.		
	VD2 OFF $\begin{array}{c} & & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ &$		

Example of a SYSTEM with Basic Functions

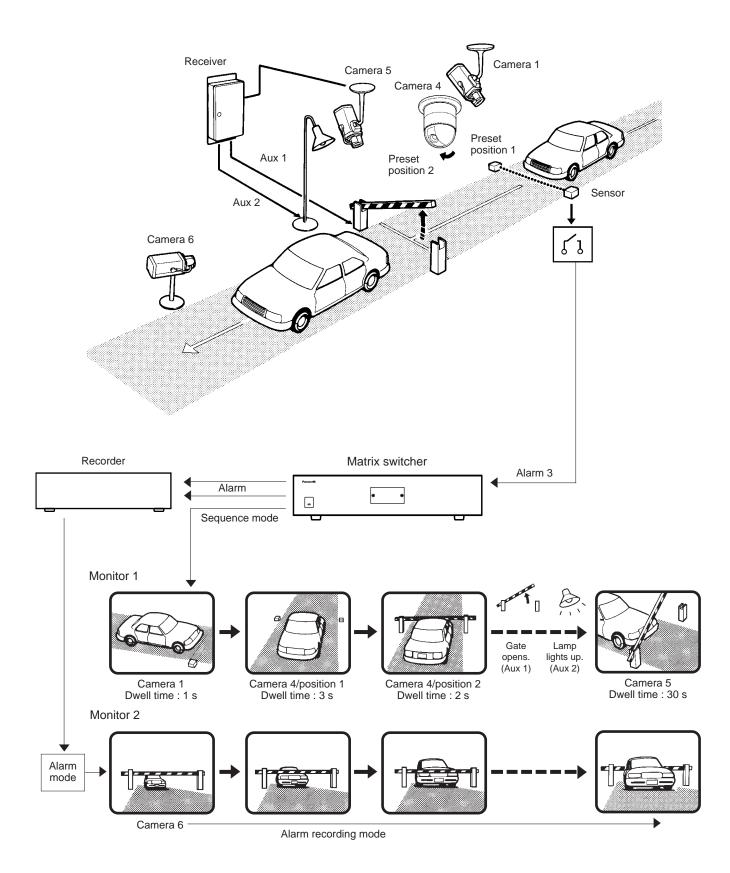
The illustration in the next page shows the surveillance system in a parking lot as an example. Before the connections, the matrix switcher's system configuration* and the recorder's alarm recording setting are necessary. Example: Operations of cameras and other connected equipment during an alarm input

- 1. The infrared sensor sends an alarm signal to the unit when detecting a car comes in.
- The unit enters the sequence mode associated with Monitor 1.
 At the same time, the unit controls the digital disk recorder to change its recording mode into the alarm-recording mode.

Monitor 1 is associated with the following sequence.

Displaying Camera 1's image ↓ Displaying Camera 4's image (Preset Position 1) ↓ Camera 4 moves from preset position 1 to 2 according to the sequence setting. Displaying Camera 4's image (Preset Position 2) ↓ Controlling AUX 1 and 2 (The gate will open and the lamp will light up.) ↓ Displaying Camera 5's image Monitor 2 displays Camera 6's image consistently in the spot mode.

Operators will observe the parking lot by looking at these images on a monitor in a management office.



TERMINAL MODE DESCRIPTIONS

In the terminal mode, each external device (such as a camera, monitor, system controller, or a recorder, etc.) has the name and number (Camera 1, etc.). When you control a device, you are to select the device number and execute the selection. For example, before controlling Camera 1, you will press the numeric button 1, and then press the CAM (SET) button. Each operator has a level and priority. When you try to control a device beyond the level and priority, the PRO-HIBITED or BUSY indicator will light up to inform you that you cannot control it.

Log-in/Log-out

Before starting the system operation, it is necessary to input an operator ID and a password from a system controller.

The system identifies the operator ID and password by comparing the registered data. If the ID and password are correct, the system will enter the operation mode.

This identification is called log-in. On the contrary, the termination of the system operation is called log-out.

Log-in/log-out has two ways: One is the manual log-in/log-out and the other is auto log-in/out.

Through the auto log-in, an operator can login the system without entering a password, after turning the power on.

Through the auto log-out, an operator can logout of the system when not operating the system for a fixed time.

The way of log-in/log-out and the time for auto log-out is configurable when setting up the system.

When configuring the auto log-in, it is necessary to assign an operator ID to each data port.

Operator Registration

When operating the system, the operator registration is necessary.

Up to 16 operators can be registered and filed by their operator IDs.

They are registered in SETUP MENU and WJ-SX150A Administrator Console.

Description of Operator Registration

The following are the properties, which can prevent the operation conflict.

Level Setting

16 operators are classified in the level from 1 (the highest) to 3 (the lowest).

A higher-level operator can control more functions.

Password Setting

Up to 5 digit numbers can be registered as a password. When an operator logs in, the system identifies the operator ID and password by comparing the registered data. If they are correct, the operator can control the system.

Priority Setting

The system classifies the operators in priority from 1 to 16. This setting includes the control coverage that is configured by level, and the priority in case of the conflict with the samelevel operator.

Operable Cameras and Sequences

This setting assigns each operator the cameras and sequences operable by the level.

Notes:

- Each operator's ID, password, level and priority need to be configured in SETUP MENU and WJ-SX150A Administrator Console.
- Auto log-in/log-out is configurable in WJ-SX150A Administrator Console.
- The level and priority are assigned to each operator. Operators cannot control the system beyond the assignment.

Even within the level and priority, a device controlled by a higher-level operator is not operable.

• Manual log-in/log-out or auto log-in/log-out is assignable to the system controllers Terminal – K1 to K4.

	Operator 1	Operator 2	Operator 3	Operator 4	Operator 5	Operator 6	Operator n* (Max 16)	Level SX150 Came Progra Came Came
ID	150	1	100	101	102	103	_	Record Record
Password	150	12345	100	101	102	103	-	
Level	1	1	1	1	2	3	-	
Priority	1	2	3	4	5	6	-	
Camera Operation	n 1	1	1	1	1	1	-	Came 1: This 2: This

*n is a number.

Level Table SX150A Setup Camera Setup Program Preset Position Camera Control Camera Selection Recorder Setup Recorder Control

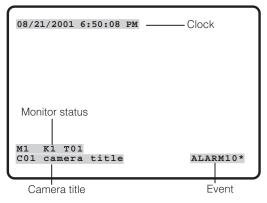
Items operable by the level are set to ON.

Camera Operation Level

- 1: This level can select and control the camera
- 2: This level can only select the camera.
- 3: This level can neither select nor control the camera.

Monitor-related Functions

The following functions related to monitors are configurable.



Monitor Selection

It is necessary to select a monitor when controlling the monitor-related functions, such as camera images or SETUP MENU.

Information Displayed on the Monitors

The following information is displayed on monitors.

Time and Date

Time and date are displayed.

The date display is selectable from five patterns, and the time display is selectable from 24- or 12- hour system.

The date display pattern (Example: August 21, 2001)

21/08/2001 08/21/2001 21/Aug/2001 2001/08/21 Aug/21/2001

Camera Title

The camera number (C01 to C99) and characters (up to 20) can be configured as a camera title. The title is displayed in one line.

Monitor Status

The following status is displayed in one line.

Mn (Monitor number)*

Kn (Controller number)*

Tnn (Monitor mode: the example shows the tour sequence)*

Rn (Recorder number)*

* "n" is a number.

Event

The information related to system operation is displayed. An alarm control, alarm suspension, and timer event are the example.

ALARMnn (The alarm is operating.) ALARMnn ACK (The alarm has been acknowledged.) Tnn (Timer event: tour sequence number) LOSS CHnn (the video loss channel number) ALM SUSPENDED (The alarm is suspended.) CAM SW LOSS Rn* (Displayed when no camera switching pulse is supplied from Rn) SLAVE DOWN (Displayed when communication is not established between the Master and Slave units: for example, power/cable disconnection) * "n" is a number.

Notes:

- When pressing the associated numeric button (1 to 5) while holding down the OSD button, information is turned on or off.
- When you select the LCN (logical camera number) not assigned in the system, "NOT ASSIGN" will appear beside the camera number.

The Display Position

The display position of the information is adjustable with the joystick on the system controller.

Priority Lock

Priority lock is the function to prevent other operators' control of a monitor even after the system log-out.

While the priority lock is active, the monitor is operable by the locking operator and higher-priority operators.

Sequence Mode

Camera images are displayed for a fixed time, and they are sequentially switched.

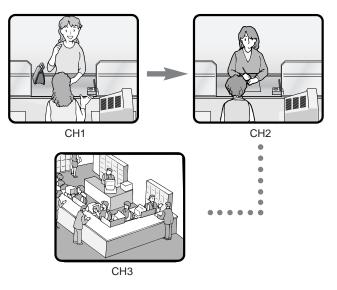
The change from a tour sequence into the spot mode is also possible.

Before use, the parameters of the sequence, such as a camera or monitor selection and dwell time need to be configured.

There are two sequences:

- Tour sequence
- Group sequence

Tour Sequence



The images through Camera 1 to 99 are displayed on a given monitor in the desired sequence.

A tour sequence is consisted of 64 steps and up to 32 sequences are configurable.

Up to 30 seconds are selectable as each step's dwell time. Each step can call the desired preset position of a camera to be displayed. In each step, the desired preset position of a camera can be called and displayed.

Tour sequences are configurable in SETUP MENU and WJ-SX150A Administrator Console.

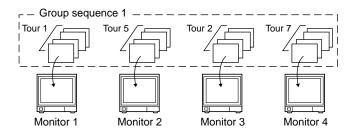
Group Sequence

Group sequence is a function to display up to 4 tour sequences in a group on up to 4 monitors. More than one sequences can be activated at one time by registering each tour sequence in a group.

Up to 4 tour sequences can be registered in a group.

Notes:

- Up to 4 group sequences are configurable in WJ-SX150A Administrator Console. The configuration in the matrix switcher's SETUP MENU is unavailable.
- The black picture is displayed when the following are included in a tour or group sequence: a camera channel without image or the image restricted to the operator.



• Multiscreen Display (4, 9, and 16 Screens)

With a recorder, more than one camera images can be displayed in 4, 9, and 16 multiscreen segments. Refer to p. 129 EXPANDED FUNCTION for details.

Camera-related Functions

This system can operate the following camera-related functions.

Notes:

- When operating the motorized zoom lens, a combination camera is necessary.
- A motorized zoom lens needs to be installed on a camera. Confirm the system components.

Camera Selection

The camera needs to be selected when controlling the camera-related functions such as a lens zoom, pan/tilt head, or spot image of a camera.

Operating Zoom Lens

Note: Make sure that the lens selection switch (DC/VIDEO) is set to DC.

Focus

This setting adjusts the lens focus. An auto-focus camera can automatically adjust the focus.

Zoom

This setting adjusts the lens zoom rate.

Iris

This setting adjusts the lens iris .

Pan/Tilt Head Control

Pan/Tilt

Camera rotates on the pan/tilt heads. There are two ways of control:

- Manual control by the joystick
- The joystick on the system controller can control a camera's pan/tilt head.
- Preset position control

Entering preset position number can automatically rotate the camera to the desired position.

It is necessary to register a camera's preset position numbers.

The specified cameras support the registration during the pan/tilt head control.

Notes:

- Depending on the system components, the specified combination cameras are not operable.
- The speed varies depending on cameras.
- Some cameras' pan/tilt speeds cannot be controlled by the joystick.

(Refer to the camera's operating instructions for details.)

Auto Pan

The camera automatically turns within the preset panning range.

Sequence Mode

The camera turns in the sequence of preset positions in numerical order.

Sort Mode

The camera turns in the sequence of preset positions counterclockwise from pan/tilt starting point.

Patrol Learn

The combination camera can learn and reproduce a routine of manual operation.

There are two ways of patrol learn:

- Learning during the operation
- Configuration in the camera's SETUP MENU

Housing Control

The wiper or defroster of the camera housing can be controlled.

• External Equipment Control

When the camera is connected via a receiver, the external equipment connected to the receiver can be controlled.

Controllable Camera-related Functions

The control is conducted while watching the camera images on the monitor.

- Changing to black and white pictures
- Camera function (Shortcut function)

Note: The specified cameras can control each function.

Confirm the functions of the connected cameras and external devices.

Changing to Black and White Pictures

Color images are changeable to black and white images. This function is intended for surveillance in a dark place such as an underground parking lot.

Camera Function (Shortcut Function)

The frequently-used functions are registered with the camera function button.

Pressing the button can activate the registered functions. Refer to the camera's operating instructions for details on the registered functions.

Camera Title

The titles for camera identification, which are displayed on the monitor, can be registered.

For example, if a camera setting place is registered as a camera title, operators can be informed where the image is recorded.

The title is displayed in one line.

The available character numbers:

20 (camera number and the characters)

The available characters:

ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijkl mnopqrstuvwxyz0123456789!"#\$%&'()=+*_:;,. */?

Notes:

- Camera title is configurable in SETUP MENU and WJ-SX150A Administrator Console.
- User font characters can be made through WJ-SX150A Administrator Console.

Camera Cleaning

When using a combination camera, noise can occur on the monitor after the long-term use.

In this case, the camera needs to be cleaned.

Camera cleaning is configurable to be conducted at the designated day and time.

The cleaning time is approximately 30 seconds per camera.

Notes:

- The images cannot be displayed while cleaning the camera. Use this function when continuous surveillance is not necessary, such as after-hours time.
- Cameras which are operating or being in the sequence mode are not cleaned.
- Camera selection will immediately stop the camera cleaning.
- If noise remains in the monitor even after the camera cleaning, there can be a malfunction. Stop using the camera and consult qualified service personnel.

Alarm-related Functions

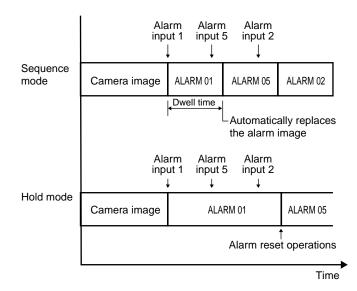
This unit is equipped with 16 alarm input connectors. When an alarm input signal is accepted via one of them, the alarm-associated spot image or tour sequence image is displayed on the monitor. With the alarm image on the monitor, the unit notifies you of the alarm information with "ALARM nn (nn is the alarm number)."

There are two ways to display the alarm-associated image:

- Sequence mode
- Hold mode

Notes:

- The camera (or tour sequence) and monitor need to be associated with the alarm number through the configuration in SETUP MENU (OSD) or WJ-SX150A Administrator Console.
- The mode is selectable and configurable in SETUP MENU (OSD) or WJ-SX150A Administrator Console.
- Even in the alarm mode, pressing the ACK button can control the camera's pan/tilt, zoom, focus and lens iris.
- When a recorder is connected to the matrix switcher, the alarm-related recording of the camera images is possible.
- · Description about sequence mode and hold mode



Sequence Mode

In the sequence mode, the unit displays the initial alarm image on the monitor until the dwell time ends, even when another alarm input is accepted. When the dwell time ends, the unit automatically replaces the alarm image with the next one.

Hold Mode

In the hold mode, the unit continues to display the initial alarm image until the alarm reset. With the alarm image on the monitor, the unit notifies you that more than one alarm input is accepted with "*" next to "ALARM nn (nn is the alarm number)."

Alarm Reset

The built-in timer automatically resets the alarm operation after the time specified in WJ-SX150A Administrator Console.

After the reset, the monitor displays and the sequence will return to the state before the alarm input.

Alarm Suspension

Even when an alarm signal is input, the system will deactivate the alarm input and the alarm mode.

When the alarm suspension is active, "ALM SUSPENDED" will appear on the monitor.

Alarm History Table

This table displays the alarms that have occurred in the past.

The alarm order, date, time, alarm number and event can be identified.

Up to 100 item can be reserved, and they are overwritten from the oldest, after more than 100 item have occurred.

	AI	LARM HISTO	RY	1 of 2
NO	YYYY/MM/DD	HH:MM:SS	ALARM	EVENT
016	2002/08/21	18:59:08	80	ALARM
015	2002/08/21	18:58:08	80	ACK
014	2002/08/21	18:57:08	80	RESET
013	2002/08/21	18:55:08	07	ALARM
012	2002/08/21	18:54:08	07	ACK
011	2002/08/21	18:53:08	07	RESET
010	2002/08/21	18:53:00	09	ALARM
009	2002/08/21	18:52:08	09	RESET
008	2002/08/21	18:51:08	06	ALARM
007	2002/08/21	18:50:08	06	ACK

Notes:

- When turning off the unit, all the history will be deleted.
- Alarm history can also be identified on the PC.

• Video Loss History Table

While the unit's power is ON, the video signal loss from a camera or a recorder can occur by cable disconnection, etc.

In this case, video loss history will be reserved in the system, and this table will display the history.

The loss order, date, time, camera number/recorder number and event can be identified.

Up to 100 item can be reserved, and they are overwritten from the oldest, after more than 100 item have occurred.

	VIDE	O LOSS HIS	STORY	1	of	2
NO	YYYY/MM/DD	HH:MM:SS	CH EVE	NT		
012	2002/08/21	18:59:08	99 VID	EO	REC	OVER
011	2002/08/21	18:58:08	14 VID	EO	REC	OVER
010	2002/08/21	18:57:08	99 VID	EO	LOS	S
009	2002/08/21	18:55:08	07 VID	EO	LOS	S
008	2002/08/21	18:54:08	R0 SW	REC	OVE	R
007	2002/08/21	18:53:08	16 VID	EO	LOS	S
006	2002/08/21	18:53:00	09 VID	EO	LOS	S
005	2002/08/21	18:52:08	R0 SW	LOS	S	
004	2002/08/21	18:51:08	S1 SLA	VE	DOW	IN
003	2002/08/21	18:50:08	S1 SLA	VE	REC	OVER

As well as the video loss history, the date of the loss and recovery, the camera number and the loss status are displayed on the table.

Notes:

- When turning off the unit, all the history will be deleted.
- Alarm history can also be identified on the PC.

Timer Event

The built-in timer can automatically start the sequence or spot mode on the specified days, which is configurable in WJ-SX150A Administrator Console.

The available operations:

Tour sequence and spot mode

The available timer events:

Up to 50

Note: When displaying SETUP MENU while timer event is operating, the operation will stop.

Note: When more than one alarm input has been accepted, only the newest can be reset.

System Status Table

The current system status can be identified.

The continuous display becomes possible by the OSD setting.

	SYSTEM SI	TATUS		
MON CAM	MODE	KB	OPE	PRI
1 01	T01	K1	12345	30
2 99	SPOT	K2	2	2
3 04	ALARM	K4	4	1
4 R1	RECORDER	PC	30	1

MON: Monitor number CAM: Camera number / Recorder number MODE: Operation mode KB: Controller name OPE: Operator number PRI: Priority

Setup Procedures

To use the unit, it is necessary to configure the system through the following setup procedures:

- OSD setup with an active monitor and system controller The basic parameters are configurable to operate the unit.
- WJ-SX150A Administrator Console with the PC The setup utility can configure all the functions of the unit.

Refer to p. 63 WJ-SX150A SETUP MENU (OSD) and p. 79 WJ-SX150A ADMINISTRATOR CONSOLE for details.

Extended Functions

If a recorder is connected to the matrix switcher, the following will be available.

Recorder Connection

The operations are conducted with the buttons on the recorder, system controller or PC.

- The setup of the recording device
- The playback of the recorded images (the multiscreen display, still picture, etc.)



- The search for the recorded image
- Forward or backward search
- Forward of backward field advance
- Fast-forward
- Rewind
- Index

Refer to each device's operating instructions for details.

Multiplexer Board Function MUX

To use WJ-HD 100 Series or a time-lapse VCR as a recorder, you need to install a Multiplexer board inside the matrix switcher. With the Multiplexer board installation, the following will be available.

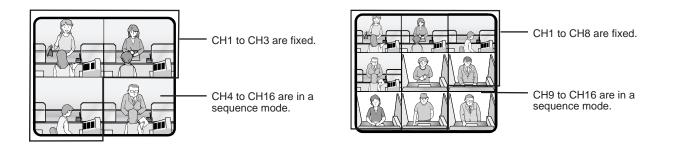
• Multiscreen display

More than one camera images can be displayed in 4, 9, and 16 multiscreens.

The sequence output is also available.

As the sequence output, the following are configurable in WJ-SX150A Administrator Console.

- The images are switched within 4 multiscreens. (QUAD)
- The images are displayed in 4 multiscreens, and the images of Camera 4 to 16 are displayed in the sequence mode. The images of Camera 1 to 3 are fixed. (3+1→2S)
- The images are displayed in 9 multiscreens, and the images of Camera 9 to 16 are displayed in the sequence mode. The images of Camera 1 to 8 are fixed. (8+1→2S)



Notes:

- The black image will be displayed for a camera channel which is not connected to the camera.
- Even during the multiscreen display, pressing the camera number can display the camera's image in the spot mode.

Still display

The desired image can be displayed in a still picture. Live images can be displayed in multiscreen display. Playback images can be displayed in spot/multiscreen display. "STILL" will appear on the active monitor.

• Zoom

The desired image on the monitor can be zoomed up to two fold.

Note: This function is available only when a playback image is displayed in a spot picture.

• Alarm priority mode

When an alarm is activated and the alarm signal is input to the unit, the camera channel with the alarm input will be recordable according to the configuration in SETUP MENU and WJ-SX150A Administrator Console.

The following are configurable as the recording mode when the alarm is activated:

- The camera channel with the alarm input is given recording priority. (ALM-PRI)
- Only the camera channel with the alarm input is recorded. (ALM-ONLY)
- Up to 4 camera channels are assigned to an alarm input to record the images by priority. (GROUP)

Notes:

- The recording mode needs to be configured in SETUP MENU and WJ-SX150A Administrator Console in advance.
- Detailed settings of GROUP is configurable only in WJ-SX150A Administrator Console.

Motion detector

When the multiplexer board detects motions in the image, the Multiplexer board sends an alarm signal to the unit. Then, the unit will send the alarm signal to the connected devices.

The areas can be divided in four segments, and the detection is conducted in each segment.

For example, this function can be applied to a time-lapse recording, which responds to the break-in at night.

Notes:

- The motion-detection area needs to be configured in SETUP MENU in advance.
- The range of the motion detector is also configurable in the WJ-SX150A Administrator Console.

• When connected with Digital Disk Recorder WJ-HD100 Series/time-lapse VCR

The multiplexed recording and playback of all the camera images connected to the unit are possible. Each camera's image and camera ID are recorded.

The camera ID can search and play back the desired camera's image.

The digital disk recorder (WJ-HD100 Series) connected to the unit and time-lapse VCR have the following functions. The operations are conducted with their buttons or the system controller or the PC.

- The setup of the recording device (HD100 only)
- The start of the playback
- The stop of the playback
- The playback of the recorded images (the multiscreen display, still picture, zoom spot picture)
- The search of the recorded image (the search by the recorded time and date) (HD100 only)
- Forward or backward search
- Forward or backward field advance
- Fast-forward
- Rewind
- Index (HD100 only)

Refer to each device's operating instructions for details.

Notes:

- When recording on the WJ-HD100 Series or time-lapse VCR, an optional Multiplexer board needs to be installed in this unit.
- Only Panasonic time-lapse VCRs supporting RS232C are operable.

Master-slave Connection

When applying this connection, up to 5 matrix switchers (units) and 64 cameras can be connected in a surveillance control system. One of the units is designated as Master and others as Slave 1 to 4. Each unit has camera channels (CAM 1 to 16). Cameras have logical camera numbers (LCN 1 to 99), which are uniquely assigned for camera control and monitor display. (Refer to pp. 49 to 52 for illustrations.)

NOTIFICATION ABOUT PS-DATA CONTROLLER OPERATION

In the factory default setting, you can control the unit, if you connect a PS·Data system controller to the DATA 4 port. For example, if you connect a PS·Data unit supporting network connections (refer to p. 42), remote-control of the unit and the PS·Data units will be available with a system controller or PC.

When you use a PS·Data system controller, take notice the following:

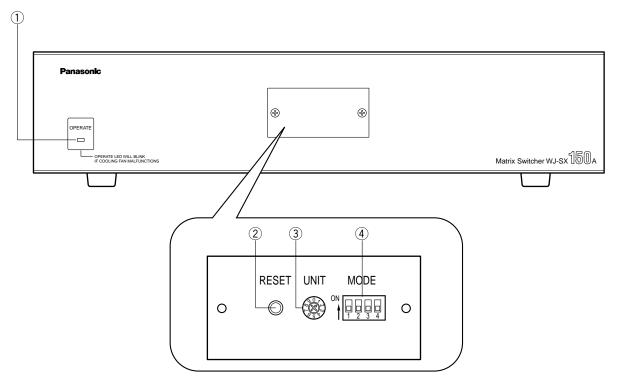
- The administer authorization and log-in/log-out procedure differs from the unit. They are conformed to the system controller. Refer to the system controller's operating instructions.
- Use the PS·Data template supplied with the system controller, as the operating procedures differ from those of the terminal mode. (Refer to pp. 123 to 128.)
- When connecting a recorder to the unit, you may have to configure the settings of the unit and recorder, depending on the recorder's available functions and connections. (Refer to pp. 40 to 55.)

DETAILED PRODUCT DESCRIPTION

MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS

WJ-SX150A Matrix Switcher

• Front View



① Operation indicator (OPERATE)

Lights up when the power of the unit is turned on.

Note: The indicator will blink to indicate rising temperature in the matrix switcher.

When the indicator blinks, turn the power off and refer servicing to qualified service personnel.

2 Reset button (RESET)

Resets and restarts the unit.

Note: The system configuration is not reset.

③ Unit number selector (UNIT)

Normally, set this selector to "0".

When applying the master-slave connection, set this selector to one of the following unit numbers. (Refer to pp. 49 to 55 for details on the master-slave connection.)

Master/Slave	Unit number
Master	0
Slave 1	1
Slave 2	2
Slave 3	3
Slave 4	4

④ Mode selector (MODE)

Selects the unit's operation mode. Normally, set all switches to OFF (NORMAL mode) as shown in the figure.

MODE	SW SETUP
ON	NORMAL
ON	SX150
1 2 3 4	SOFTWARE UPLOAD
ON	MULTIPLEXER
1 2 3 4	SOFTWARE UPLOAD

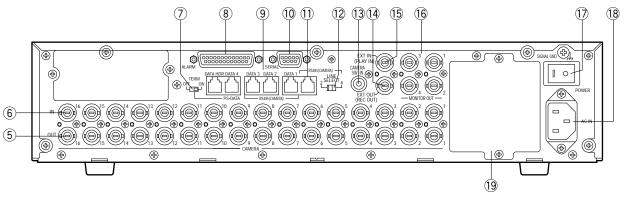
SX150A SOFTWARE UPLOAD:

Set the switches to this position when you update the firmware of the unit. (Refer to the operating instructions of the Multiplexer board.)

MULTIPLEXER SOFTWARE UPLOAD:

This mode is reserved for future use.

Rear View



5 Camera Output connectors (CAMERA OUT 1–16)

The video signal connected to the CAMERA IN connector is supplied at these connectors.

When the power of the matrix switcher is turned off, no signal is supplied at these connectors.

6 Camera Input connectors (CAMERA IN 1-16)

 Connect to cameras or camera site accessories. These connectors accept either a composite color or B/W video signal from a camera. In addition, the VD2 signal to synchronize the vertical

timing of the cameras, and data to control camera site devices are multiplexed at these connectors.

• When applying the master-slave connection, the functions of connectors will differ. (Refer to p. 53 for details.)

7 Termination selector (TERM ON/OFF)

When you connect a PS Data system controller to the DATA 4 port, this selector turns the unit's termination switch to ON/OFF.

The factory default setting is ON.

Note: When you connect a terminal-mode system controller to the DATA 4 port, set this selector to ON.

8 Alarm port (ALARM)

Connects to alarm sensors.

Accepts the alarm input from the associated alarm sensors.

9 Data ports (DATA 1/2/3/4/DATA HDR)

- DATA 1 to 4 connect to the system controller.
 DATA 1 to 3 can connect to RS-485 cameras with the configuration in WJ-SX150A Administrator Console. (Refer to p. 96.) DATA 4 can connect to the system controller via the PS·Data protocol.
- DATA HDR connects to a recorder.
- When applying the master-slave connection, the functions of ports will differ. (Refer to p. 53 for details.)

10 Serial port (SERIAL)

Connects to a PC for the system configuration through WJ-SX150A Administrator Console.

1) RS-485 Camera port

- Connects to an RS-485 camera.
 Daisy chain connection is also available.
- When the unit is used as Master in the master-slave connection, terminal-mode system controllers can be connected.

Note: To connect terminal-mode controllers, the setting in SETUP MENU and WJ-SX150A Administrator Console is required. (Refer to pp. 61 to 102 for details.)

12 Line selector (LINE SELECT 2/4)

Lets you select either full duplex (4 lines) or half duplex (2 lines) for RS-485 cameras.

13 Camera Switching Input connector (CAMERA SW IN) <u>MUX</u>

The camera switching pulse from the time lapse VCR is supplied to this connector.

The camera switching interval (Sequential Dwell Time) can be synchronized with the time lapse mode set in the associated time lapse VCR.

External Output connector (EXT OUT/REC OUT) [MUX]

The recording signal for the recorder is provided via this connector.

(5) External Input connector (EXT IN/PLAY IN)

A playback or live images from the recorder are supplied to this connector.

(6 Monitor Output connectors (MONITOR OUT 1/2/3/4)

- Connect to monitors. The video output signals are supplied to the monitors at these connectors.
- When applying the master-slave connection, the functions of connectors will differ. (Refer to p. 53 for details.)

17 Power switch (POWER)

Turns the power of the matrix switcher on and off.

18 AC Inlet socket (AC IN)

To use the unit, plug the power cord (supplied as a standard accessory) into this socket and connect it to an AC outlet.

19 Blank panel

When the Multiplexer board installed in the unit, remove this panel and then attach the cooling fan inside the unit. (Refer to the Multiplexer board's operating instructions.)

Note: Fan unit needs replacement after around 30 000 hours of operation.

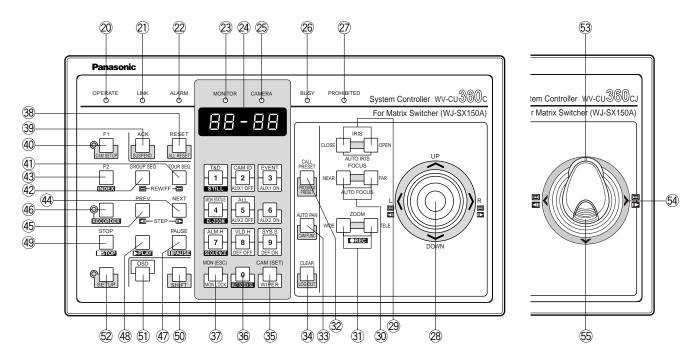
■ WV-CU360C/CU360CJ System Controller (TERMINAL MODE)

A template, on which "For Matrix Switcher (WJ-SX150A)" is written, is provided with a system controller. When using the template, place it on the surface of the controller.

In these operating instructions, this template's illustrations are used for descriptions.

• Front View (WV-CU360C)

• Front View (WV-CU360CJ)



20 Operation indicator (OPERATE)

Lights up when the controller's power is turned on.

2) Link indicator (LINK)

Lights up when communication is established with the matrix switcher.

22 Alarm indicator (ALARM)

Lights up when an alarm condition exists.

23 Monitor indicator (MONITOR)

Lights up when the monitor number appears on the LED display.

24 LED Display

Displays the monitor number, camera number, numeric entry and error status, etc.

25 Camera indicator (CAMERA)

Lights up when the camera number appears on the LED display.

26 Busy indicator (BUSY)

Lights up when the higher-priority operator selects the camera or monitor you are currently operating. Operations from the system controller are disabled until this indicator goes off.

2 Prohibited indicator (PROHIBITED)

Blinks when an operator attempts to control a monitor (or camera) that is already used by a higher-priority operator or the operator has done the prohibited operation.

28 Joystick

L:

R:

Use this joystick to manually operate cameras, camera site accessories and a recorder, or to move the cursor in SETUP MENU on the active monitor screen.

UP: Up

DOWN: Down

Left, rewind*, backward field advance*

Right, fast-forward*, forward field advance*

*Available after pressing the RECORDER button while connecting to a recorder.

29 Iris buttons (IRIS CLOSE/OPEN)

Close or open the lens iris of cameras equipped with the specified lens.

Press the CLOSE and OPEN buttons simultaneously. The lens iris is reset to the factory default setting.

30 Focus buttons (FOCUS NEAR/FAR)

Adjust the lens focus of cameras equipped with the specified lens.

Press the NEAR and FAR buttons simultaneously. The lens focus is adjusted automatically, if the specified auto focus camera is equipped.

3 Zoom buttons (ZOOM WIDE/TELE)

Press these buttons to zoom the lenses equipped with the specified cameras.

Press the WIDE and TELE buttons simultaneously during the recorder mode. The recording is started.

② Call Preset button (CALL PRESET/PROGRAM PRESET)

To call the selected camera's preset position, press this button in combination with the numeric buttons. (The specified cameras support this function.)

To program a preset position, press the corresponding numeric button(s), and then press this button while holding down the SHIFT button.

33 Auto Pan button (AUTO PAN/CAM FUNC)

Activates the auto panning function of cameras equipped with this feature.

To execute camera functions, press this button in combination with the numeric buttons.(The specified cameras support this function.)

3 Clear button (CLEAR/LOG OUT)

Use this button to clear numeric input on the LED display, or exit from the ALARM HISTORY table (p. 117), the VIDEO LOSS HISTORY table (p. 117), or the SYSTEM STATUS table (p. 116).

To logout of the system, press this button while holding down the SHIFT button.

35 Camera (Set) button [CAM (SET)/WIPER]

- **CAM:** To select a camera, press the corresponding numeric button, followed by this button.
- **SET:** To enter numeric input, such as operator ID and password, press this button in combination with the numeric buttons.

Also use this button to execute the currently highlighted selection and go into a submenu of SETUP MENU.

WIPER: To turn on the housing wiper of the camera, press this button while holding down the SHIFT button.

36 Numeric buttons

Press these buttons to enter numbers into the system such as the camera and monitor number, sequence number, preset position, etc.

- In combination with the OSD button, parameter selection in OSD (On-screen Display) operation of the monitor status or research in a history table become available.
- In combination with the SHIFT button, AUX and Defroster are available.

• In the recorder mode, electronic zooming and multiscreen sequence, etc. are available when pressed in combination with the SHIFT button.

③ Monitor (Escape) button [MON (ESC)/MON LOCK]

MON: Press this button to select a monitor. To select a monitor, press the corresponding numeric buttons, followed by the MON (ESC) button.

- **ESC:** Press this button to escape from the currently highlighted selection and return to the previous page of SETUP MENU.
- **MON LOCK:** To prevent other operators from controlling the monitor, press this button while holding down the SHIFT button. To release the lock, press this button while holding down the SHIFT button again. (Refer to p. 106.)

38 Alarm Reset button (RESET/ALL RESET)

RESET: To reset an alarm activated in the currently active monitor, press this RESET button.

ALL RESET: To cancel all activated alarms at a time, press this button while holding down the SHIFT button.

39 Alarm Acknowledge button (ACK/SUSPEND)

ACK: Acknowledges an activated alarm.

To select the alarm monitor, press the ALARM button.

To select the desired alarm action number, press the numeric buttons, then press this ACK button. "ACK" will appear on the monitor.

To reset the alarm, press the RESET button after acknowledging the alarm. "ACK" will go out.

SUSPEND: To suspend an activated alarm, press this button while holding down the SHIFT button. "ALM SUSPENDED" will appear on the monitor. To cancel the suspension, press this button while holding down the SHIFT button again.

40 Function 1 button (F1/CAM SETUP)

Press this button while holding down the SHIFT button to open the camera's SETUP MENU on the active monitor.

The function as the F1 button is reserved for future use.

(1) Tour Sequence button (TOUR SEQ)

Press this button, in combination with the numeric buttons, to run a tour sequence on the active monitor.

42 Group Sequence button (GROUP SEQ)

Press this button to select a group sequence. To select a group, press the corresponding numeric buttons, followed by the GROUP SEQ button.

43 Function 2 button (F2/INDEX)

Displays date and time entry form during the recorder mode.

4 Next button (NEXT)

Moves a tour sequence one step forward from the step previously paused on the active monitor.

Also selects a camera. If the active monitor is in the spot mode, press NEXT while holding down the CAM (SET) button, to replace the currently selected camera with the next higher-numbered camera.

During the recorder mode, this button moves the playback image one step forward.

45 Previous button (PREV)

Moves a tour sequence one step backward from the step previously paused on the active monitor.

Also selects a camera. If the active monitor is in spot mode, press PREV while holding down the CAM (SET) button, to replace the currently selected camera with the next lower-numbered camera.

During the recorder mode, this button moves the playback image one step forward.

46 Recorder button (RECORDER)

To enter the recorder mode, press this button. (Refer to p. 131.)

Note: Only one operator can enter the recorder mode at one time.

47 Pause button (PAUSE)

Pauses a tour sequence, and the playback of the recorded images* that is being run on the active monitor.

Also restarts the sequence from the next step forward, or the playback of the recorded images*.

48 Play button (PLAY)

Starts the playback of the recorded images*.

49 Stop button (STOP)

Ends a tour sequence, or stops the playback of the recorded images* that is being run on the active monitor.

50 Shift button (SHIFT)

To activate the alternate function of each button, press this button, in combination with buttons associated with special functions.

51 On-screen Display button (OSD)

In combination with the numeric buttons, this button toggles the currently selected display items on the active monitor.

- 1: Clock display (T&D)
- 2: Camera title display (CAM ID)
- 3: Event display (EVENT)
- 4: Monitor status display (MON STATUS)
- 5: All displays (ALL)
- 7: ALARM HISTORY table (ALM H)
- 8: VIDEO LOSS STATUS table (VLD H)
- **9:** SYSTEM STATUS table (SYS S)

52 Setup button (SETUP)

To display the unit's SETUP MENU, press this button while holding down the SHIFT button.

* The playback of the recorded images is possible when a recorder is connected.

53 Zoom wheel controller

This control is used for zooming cameras equipped with the specific lens. Moving the control to the right will zoom in the image. Moving the control to the left will zoom out the image.

54 Joystick

Use this joystick to manually operate cameras, camera site accessories and a recorder, or to move the cursor in SETUP MENU on the active monitor screen.

∧: Up

V: Down

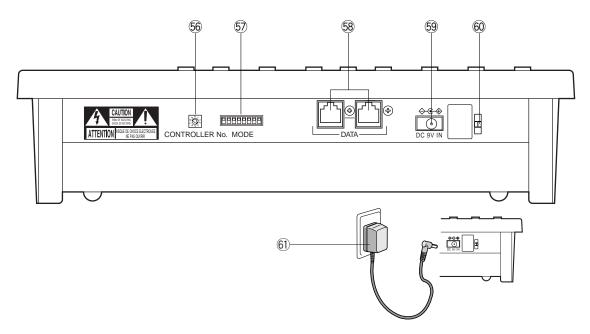
>: Left, rewind*, backward field advance*

C: Right, fast-forward*, forward field advance*

*Available after pressing the RECORDER button while connecting to a recorder.

55 Top button

Pressing this button will automatically set the lens focus of a specified camera.



56 Controller Number switch (CONTROLLER No.)

Selects a number for the system controller for identification in a system. Normally, set the switch to number 1.

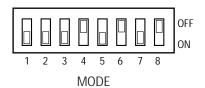


CONTROLLER No.

57 Mode Selection switches (MODE)

The operation mode of the system controller is selected with these switches.

When you use a terminal-mode system controller, set the switches to the positions shown in the figure.



Note: When you use a PS·Data system controller, refer to the system controller's operating instructions.

58 Data ports (DATA)

Exchange the control data with the matrix switcher via RS-485 cable (supplied with the system controller).

59 DC 9V Input jack (DC 9V IN)

Use this jack to plug the AC adapter supplied with the system controller.

60 Clamp

Fastens the supplied AC adapter's power cord.

61 AC adapter

Caution: Use only the supplied AC adapter to feed 9 V DC to the system controller.

Note: Disconnect the plug from the controller before setting the controller number switch or mode selection switch, and reconnect it when finished. The new settings will take effect when the power is turned on.

INSTALLATIONS AND SYSTEM CONNECTIONS

INSTALLATIONS

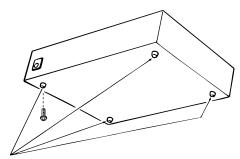
WARNING

The installations described in the figures should be made by qualified service personnel or system installers.

Mounting into the Rack

The matrix switcher can be mounted into the rack as described.

1. Remove the four rubber feet by unwinding the four screws on the bottom of the matrix switcher.



Notes:

 An optional cooling fan attached inside the unit is subject to wear. It needs to be replaced periodically.

Keep the temperature in the rack below $45 \,^{\circ}\text{C}$ (113 $^{\circ}\text{F}$) at any time.

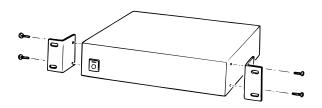
• If the rack is subject to vibration, secure the rear of the appliance to the rack by using additional mounting brackets (procured locally).

■ Installing the Multiplexer Board

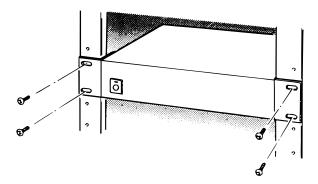
To use WJ-HD100 Series or a time-lapse VCR as a recorder, you need to install a Multiplexer board inside the matrix switcher. Refer to the Multiplexer board's operating instructions for how to install.

Remove 4 rubber feet

 Place the rack mounting brackets on both sides of the matrix switcher and tighten with the four supplied screws (M4 X10).



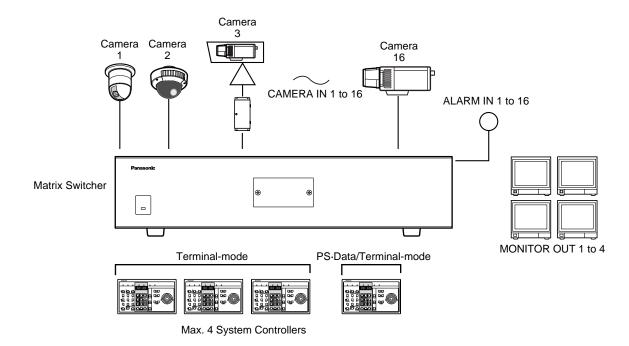
3. Install the matrix switcher in the rack with the rack mounting brackets secured with four screws (procured locally).



SYSTEM CONNECTION EXAMPLES

Basic System Connection

This is an example of basic system connection.

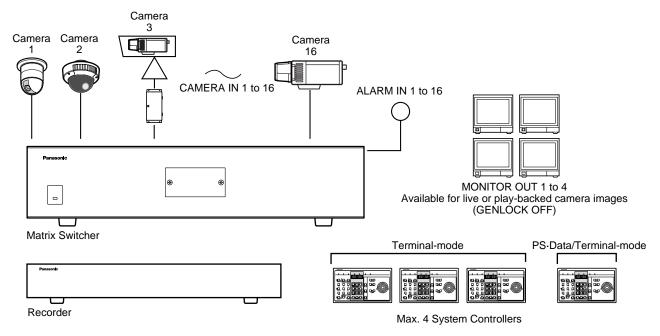


Note: Before connecting a terminal-mode system controller to the DATA 4 port, configure the system through SETUP MENU or WJ-SX150A Administrator Console.

System Expansion Connection

• Connection with Digital Disk Recorder WJ-HD500 Series or WJ-HD200 Series

When connecting the camera output connectors to Digital Disk Recorder WJ-HD500 or WJ-HD200 Series, the digital disk recorder can record all the camera channels. More than one camera images can be displayed in multiscreen segments on the desired monitor.

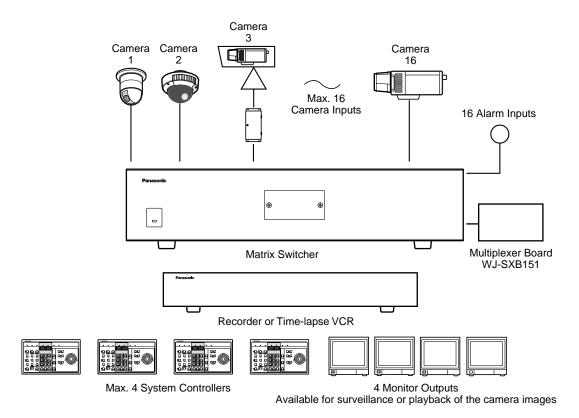


Notes:

- Before connecting a terminal-mode system controller to the DATA 4 port, configure the system through SETUP MENU or WJ-SX150A Administrator Console.
- If an optional network board is installed inside the recorder and you are to control it from LAN (local area network) or the Internet, refer to a service manual procurable in your area.

• Connection with Digital Disk Recorder WJ-HD100 Series or Time-lapse VCR MUX

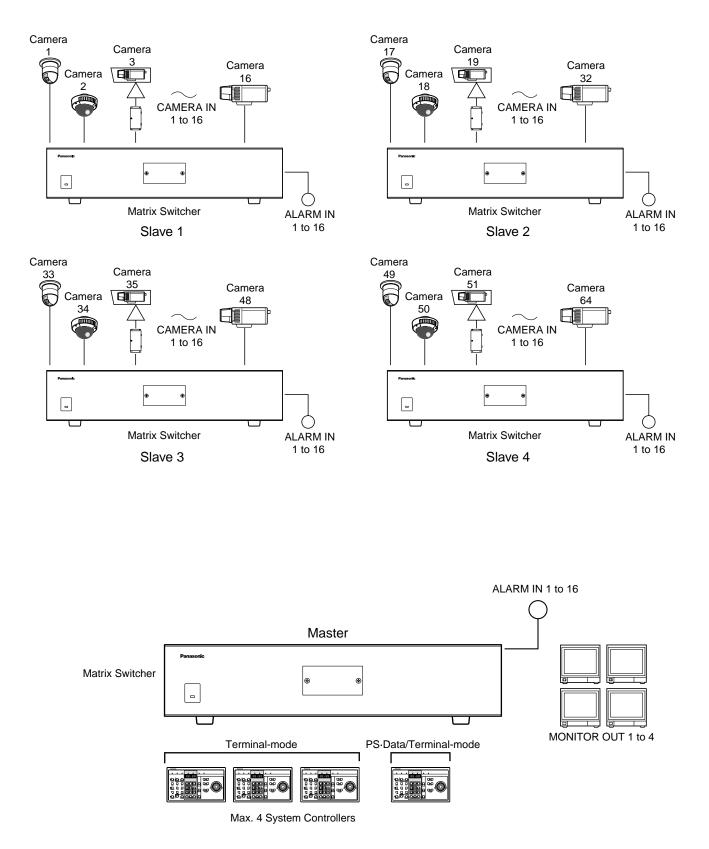
• With the Multiplexer board, the recorded images of Camera 1 to 16 can be multiplexed to Digital Disk Recorder, WJ-HD100 Series or a time-lapse VCR.



To use WJ-HD100 Series or a time-lapse VCR as a recorder, you need to install a Multiplexer board inside the matrix switcher.

Master-slave Connection

When applying this connection, up to 5 matrix switchers and 64 cameras can be connected in a surveillance control system. One of the matrix switchers is designated as Master and the others are designated as Slave.



Connection with the Camera Sites

Connect the data-multiplex type cameras (or camera site equipment) to the CAMERA IN connectors 1 to 16 on the matrix switcher's rear panel.

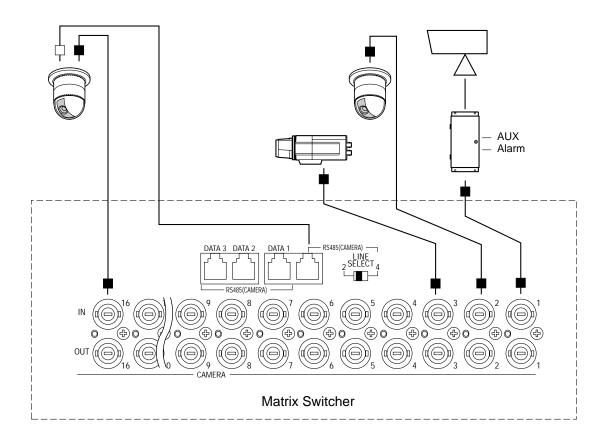
Notes:

- Make sure that the cable length is less than 900 m (3 000 ft) between the camera site and the unit when using RG-59/U, BELDEN 9259 or equivalent cables.
- If you use locally procured cables, it is important to use only a data-grade cable, which is suitable for RS-485 communication (shielded 2-wire twisted cable).
- When the cable length is extended, cable compensation is available. (Refer to pp. 74 and 94.)

Connect non-multiplex type cameras to the CAMERA IN connectors 1 to 16. For cameras equipped with RS-485 communication facilities, connect the RS-485 cable as follows.

Check the camera addresses when using RS-485 cameras. Operations from the system controller will be invalid if the camera addresses are set improperly.

- Use addresses from 1 to 16 for individual cameras.
- Do not set the same address for more than one camera in an RS-485 chain.
- Before connecting the RS-485 camera(s) to DATA 1, 2 and/or 3, configure the system through WJ-SX150A Administrator Console.



■ Connection for RS-485 Type Camera

There are two options to connect the camera with the matrix switcher, depending on the distance between them.

One is "Home Run" wiring and the other is daisy chain wiring. "Home Run" wiring has the transmission stability with less transmission loss, and daisy chain wiring has connection flexibility with less data ports occupied. For data-multiplex type cameras, 900 meters (3 000 ft) is the limit to use coaxial cable such as RG-59/U, BELDEN 9259 or equivalent.

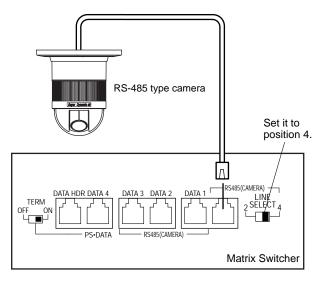
Note: If more distance is required, use cameras and matrix switcher with RS-485 communication feature. Remote control becomes possible.

• "Home Run" Wiring

- 1. Connect with a RS-485 camera in "Home Run" wiring as shown in the figure.
- 2. Set the LINE SELECT switch to 2 or 4.

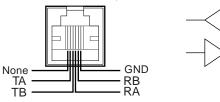
Notes:

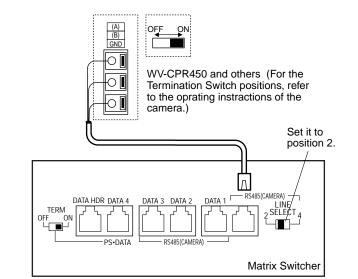
- Before connecting RS-485 cameras to DATA1 to 3, data port setting through WJ-SX150A Administrator Console is necessary. (Refer to p. 96 Data Port.)
- Recommended for RS-485 communication is AWG#22 or thicker one. The cable should be shielded, two-wire, twisted pair, and with low impedance.
- Set the LINE SELECT switch to 4 when programming preset position of WV-CSR600/650 Series camera is connected to the unit.



RS485 Port







Daisy Chain Wiring

- 1. Draw up a plan for connection between the cameras and the input channels of the matrix switcher, and the assignment of unit addresses to cameras.
- Set the LINE SELECT switch to 2. Also, set the connected device's switch if required.
- 3. Connect one end of the cable to RS-485 (CAMERA), and the other end to the first camera in the chain, as shown in the figure. Repeat this procedure for all cameras.
- 4. Set the termination switches of the cameras at the chain ends to ON. Camera's termination switches must be set to OFF except the ones at the chain ends.

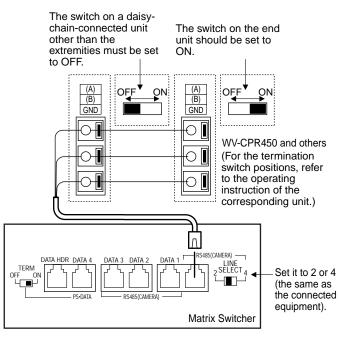
Notes:

- Set the same number for the camera's unit address as and CAMERA IN.
- Check the settings of the camera addresses when using RS-485 cameras. Operations from the system controller will be invalid if the camera addresses are set improperly.
- Do not use addresses other than 1 to 16 for individual cameras (More than 17 cameras are not allowed).
- Do not set the same address for more than one camera in an RS-485 chain.
- Termination is the key to data transmission and reception in the chain. While the other switches are set to OFF, only the switches at the chain ends must be set to ON.
- The termination of this unit's RS-485 camera port is always set to ON. Connect the unit at the end of the daisy chain.
- The more equipment there is in the chain, the slower the response may be.

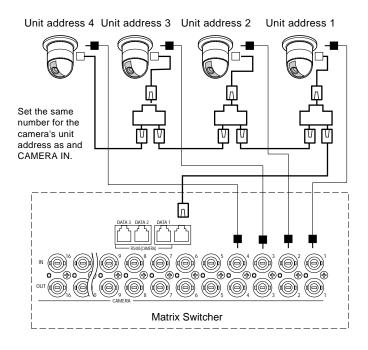
RB

RA

TB TA



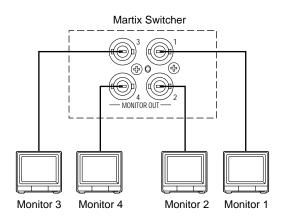
Auto termination works inside the matrix switcher.



Connection with the Monitors

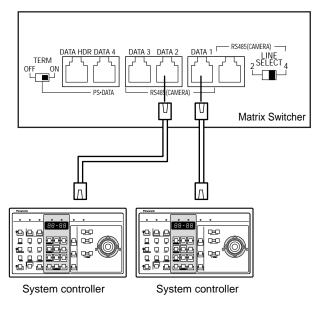
Connect the monitors to the MONITOR OUT connectors at the unit's rear panel with the coaxial cable.

The connectors MONITOR OUT 1 to 4 are associated to Monitor 1 to 4. When you control the monitors from a PS-Data controller, the connectors MONITOR OUT are associated to Unit 1 to 4.

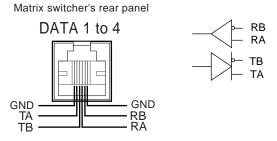


Connection with the System Controllers

Connect the system controller to the DATA 1 to 4 port at the unit's rear panel with the modular cable.



DATA1 to DATA4 Port

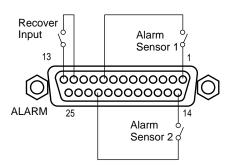


Notes:

- Up to four system controllers are connectable.
- Connect them in home run.
- In the factory default setting, the DATA 4 port is a PS·Data terminal. To connect a terminal-mode system controller to this port, you need to change the data port setting through SETUP MENU or WJ-SX150A Administrator Console. (Refer to pp. 74 or 96.)

Connection with the Alarm Sensors

Connect the sensor switches to the unit's alarm port, as shown in the example.



Pin No.	Designation	Pin No.	Designation
1	Alarm Input 1	14	Alarm Input 2
2	Alarm Input 3	15	Alarm Input 4
3	Alarm Input 5	16	Alarm Input 6
4	Alarm Input 7	17	Alarm Input 8
5	Alarm Input 9	18	Alarm Input 10
6	Alarm Input 11	19	Alarm Input 12
7	Alarm Input 13	20	Alarm Input 14
8	Alarm Input 15	21	Alarm Input 16
9	GND	22	GND
10	Alarm Output 1	23	Alarm Output 2
11	Alarm Output 3	24	Alarm Output 4
12	GND	25	GND
13	Recover Input		

Notes:

• Alarm inputs that are simultaneous or with very short intervals will be ignored.

Allow for at least 100 ms interval from one alarm input to the next.

 Confirm the alarm sensor type (N.O. or N.C.) and configure the system through SETUP MENU (OSD) or WJ-SX150A Administrator Console. The factory setting is N.O.

The factory setting is N.O.

N.O.: Normally Open alarm contact

- N.C.: Normally Closed alarm contact
- Alarm pins assigned as the time adjusting (TIME) terminals cannot be used as alarm input terminals.
- The specification of Recover Input: 5 V DC / 0 V (low-active)

Recover Input, which resets alarm signals, is Pin No. 13 of the ALARM port. To reset alarm signals, contact GND and Recover Input.

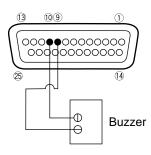
When you connect Digital Disk Recorder WJ-HD100 Series to the matrix switcher, set the recorder's alarm polarity to Open-collector low by setting the MODE switch #6 to off.

Connection with the Alarm Output

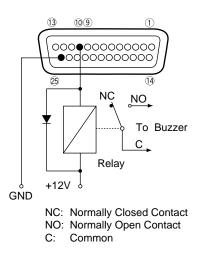
Pins #10, 11, 23 and 24 (open collector) turns to 0 V while the alarm is activated. These terminals can drive external warning devices such as a buzzer or lamp of up to 100 mA, 16 V DC. If the rating exceeds 100 mA, 16 V DC use a relay as shown in Example 2.

Alarm signals are output from the terminals until the reset.

Example 1: Direct drive connection



Example 2: Connection of devices exceeding drive



Note: An alarm signal is output from the Master unit and a unit activated by the alarm. Be careful of connections as the Master unit outputs alarm signals to directly-connected devices any time when an alarm is activated.

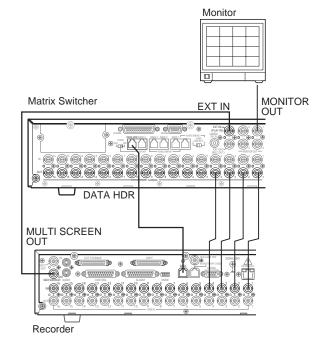
Connection with Digital Disk Recorder WJ-HD500 Series

Note: Refer to a service manual procurable in your area, for details on the connection with a recorder (after the network board installation) to operate via LAN or the Internet.

• To Confirm the Images from a Recorder Connected to the Unit

The following is the description of the connection between a recorder and this unit to confirm the images from the recorder.

- Set the unit address of the recorder to 1. Then, confirm that the recorder's CAMERA GENLOCK is set to OFF in its SETUP MENU. (Refer to the recorder's operating instructions.)
- 2. Connect the unit's CAM OUT 1 to 16 connectors to the recorder's VIDEO IN 1 to 16 connectors with a coaxial cable.
- Connect the unit's EXT IN connector to the recorder's MULTI SCREEN OUT connector with a coaxial cable.
- 4. Connect the unit's DATA HDR connector to the recorder's DATA port with a modular cable. (The control data and alarm signal will be output from the unit to the recorder.)



Notes:

• You cannot record the camera images in maximum recording rate through this connection. Refer to the next connection example in this page.

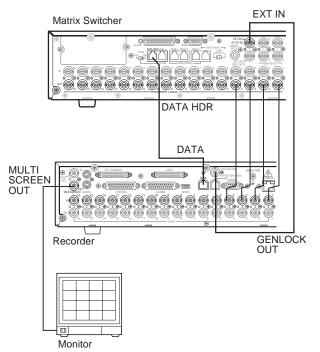
• Make sure the recorder's unit address is set to 1 through SETUP MENU or WJ-SX150A Administrator Console. (Refer to pp. 71 or 97.) If another number is selected, you cannot control the recorder.

To Record the Camera Images in Maximum Recording Rate

The following is the description of the connection between a recorder and this unit for the maximum-rate recording.

- Set the unit address of the recorder to 1. Then, set the recorder's CAMERA GENLOCK to ON in its SETUP MENU. (Refer to the recorder's operating instructions.)
- 2. Connect the unit's CAM OUT 1 to 16 connectors to the recorder's VIDEO IN 1 to 16 connectors with a coaxial cable.
- 3. Connect the unit's EXT IN connector to the recorder's GENLOCK OUT connector with a coaxial cable.
- 4. Connect the unit's DATA HDR connector to the recorder's DATA port with a modular cable. (The control data and alarm signal will be output from the unit to the recorder.)
- After the connection, set the unit's EXT IN to GENLOCK ON through SETUP MENU or WJ-SX150A Administrator Console (Refer to pp. 71 or 97).

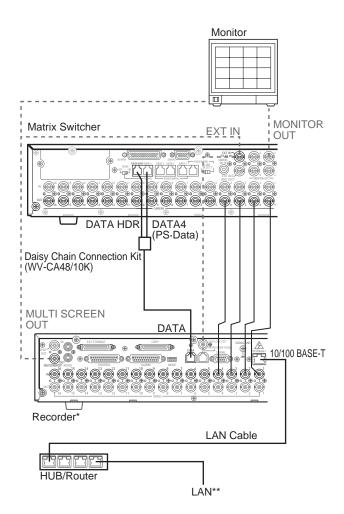
- You need WJ-HD500A or a newer model for the maximum-rate recording.
- The playback, multiscreen output or live images from the recorder are not displayed on Monitor 1 to 4. To confirm the images, you need to connect another monitor with the recorder.
- The recorder will not operate if its unit address is set to other than 1.
- Make sure the recorder's unit address is set to 1 through SETUP MENU or WJ-SX150A Administrator Console. (Refer to pp. 71 or 97.) If another number is selected, you cannot control the recorder.



To Control a Recorder via the Network

The following is the description of the connection between a recorder and this unit to control the recorder via the network.

- 1. Set the recorder's unit address to a number 5 or larger . (Refer to the recorder's operating instructions.)
- 2. Connect the unit's CAM OUT 1 to 16 connectors to the recorder's VIDEO IN 1 to 16 connectors with a coaxial cable.
- Connect the unit's DATA HDR and DATA4 connectors to the recorder's DATA port with a daisy chain connection cable kit (WV-CA48/10K). (The control data and alarm signal will be output from the unit to the recorder.)
- Select the recorder's new unit address, which is set in Step 1, in 600 RECORDER (refer to p. 71) of SETUP MENU or the Recorder (refer to p. 97) window of WJ-SX150A Administrator Console.
- Through a browser, set the unit address of an optional network board (WJ-HDB502) to a number other than 1. (Refer to WJ-HDB502 Operating Instructions.)
- 6. Refer to p. 38, p. 40 and p. 41 for MONITOR OUT connection, MULTI SCREEN OUT connection, and EXT IN connection.



* WJ-HD500A or Newer Models with Network Board (WJ-HDB502) ** LAN : Local Area Network

- You will need WJ-HD500A or a newer model, in which an optional network board (WJ-HDB502) is installed.
- Select the PS·Data protocol for the DATA 4 setting. (Refer to p. 74 CAMERA/DATA1 - 4 PORT or p. 96 Data Port.) If the terminal mode is selected, you cannot control the recorder.
- The recorder will not be operable if its unit address is set to 1/2/3/4.
- If the recorder's unit address in Step 1 and the recorder setting in Step 4 are different, the recorder will not be operable.
- In these connections, you cannot use a PS·Data system controller.

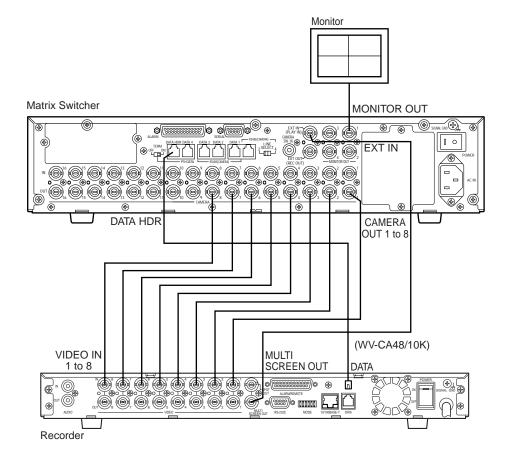
Connection with Digital Disk Recorder WJ-HD200 Series

Note: Refer to a service manual procurable in your area, for details on the connection with a recorder to operate via LAN or the Internet.

• To Confirm the Images from a Recorder Connected to the Unit

The following is the description of the connection between a recorder and this unit to confirm the images from the recorder.

- 1. Set the unit address of the recorder to 1. (Refer to the recorder's operating instructions.)
- 2. Connect the unit's CAM OUT 1 to 8 connectors to the recorder's VIDEO IN 1 to 8 connectors with a coaxial cable.
- 3. Connect the unit's EXT IN connector to the recorder's MULTI SCREEN OUT connector with a coaxial cable.
- 4. Connect the unit's DATA HDR connector to the recorder's DATA port with a modular cable. (The control data and alarm signal will be output from the unit to the recorder.)

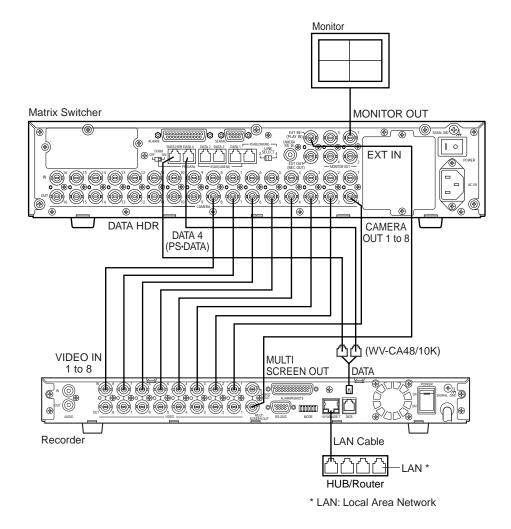


- If you use two WJ-HD200 Series recorders, you cannot control the recorders with the system controller connected to the Master unit. When recording the images from CAM IN 1 to 16, it is recommended to use WJ-HD500 Series recorders.
- Make sure the recorder's unit address is set to 1 through SETUP MENU or WJ-SX150A Administrator Console. (Refer to pp. 71 or 97.) If another number is selected, you cannot control the recorder.

• To Control a Recorder via the Network

The following is the description of the connection between a recorder and this unit to control the recorder via the network.

- 1. Set the recorder's unit address to a number 5 or larger . (Refer to the recorder's operating instructions.)
- 2. Connect the unit's CAM OUT 1 to 8 connectors to the recorder's VIDEO IN 1 to 8 connectors with a coaxial cable.
- 3. Connect the unit's EXT IN connector to the recorder's MULTI SCREEN OUT connector with a coaxial cable.
- 4. Connect the unit's DATA HDR and DATA4 connectors to the recorder's DATA port with a daisy chain connection cable kit (WV-CA48/10K).
- 5. Select the recorder's new unit address, which is set in Step 1, in 600 RECORDER (refer to p. 71) of SETUP MENU or the Recorder (refer to p. 97) window of WJ-SX150A Administrator Console.
- 6. Through a browser or the recorder's SETUP MENU, set the CTL-UNIT ADDR to a number other than 1. (Refer to the recorder's operating instructions.)



- Select the PS·Data protocol for the DATA 4 setting. (Refer to p. 74 CAMERA/DATA1 4 PORT or p. 96 Data Port.) If the terminal mode is selected, you cannot control the recorder.
- The recorder will not be operable if its unit address is set to 1/2/3/4.
- If the recorder's unit address in Step 1 and the recorder setting in Step 5 are different, the recorder will not be operable.
- In these connections, you cannot use a PS·Data system controller.
- If you use two WJ-HD200 Series recorders, you cannot control the recorders with the system controller connected to the Master unit. When recording the images from CAM IN 1 to 16, it is recommended to use WJ-HD500 Series recorders.

■ Connection with Digital Disk Recorder WJ-HD100 Series INTX

- 1. To record the camera images with Digital Disk Recorder WJ-HD100 Series, install an optional Multiplexer board in the matrix switcher.
- 2. Connect the matrix switcher's EXT OUT (REC OUT) to the digital disk recorder's VIDEO IN with a coaxial cable.
- 3. Connect the matrix switcher's EXT IN (PLAY IN) to the digital disk recorder's MONITOR OUT (PLAY) with a coaxial cable.
- 4. Connect the matrix switcher's DATA HDR to the digital disk recorder's DATA with a modular cable.
- 5. Connect the matrix switcher's CAMERA SW IN to the digital disk recorder's CAMERA SW OUT with an RCA-pin cable.
- 6. Select "HD100" for 600 RECORDER in SETUP MENU. (Refer to p. 71.)
- 7. Conform the parameter of 740 CAMERA/DATA 1 4 PORT to the setting of the recorder. The following parameters are fixed.

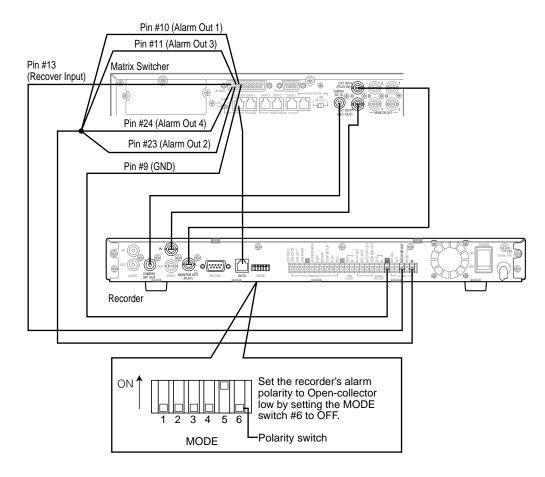
Data bit: 8 bits

Parity check: None

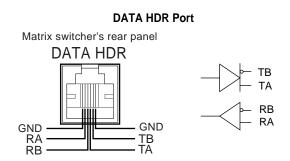
Stop bit: 1 bit

8 Conform the parameter of 620 RECORDER UNIT ADDRESS in SETUP MENU to the setting of the recorder. (Refer to the recorder's operating instructions for the unit address.)

Note: After the connection, configure the system through SETUP MENU and WJ-SX150A Administrator Console.



DATA HDR Port



■ Connection with the Time-lapse VCR (Panasonic Models) MUX

1. Configure the parameters of the Multiplexer functions in the Multiplexer Mode (refer to p. 98) window of WJ-SX150A Administrator Console.

Note: To put a file from PC to the unit, select PC in 600 RECORDER in SETUP MENU. (Refer to p. 71.) When VCR is selected, parameter configuration in the Multiplexer Mode window is unavailable.

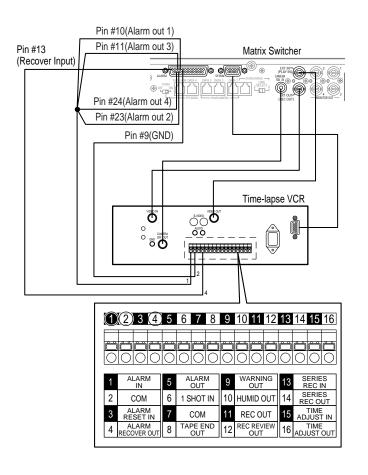
- 2. After Step 1, select VCR for 600 RECORDER in SETUP MENU. (Refer to p. 71.)
- 3. Conform the communication speed (SPEED) for 740 CAMERA/DATA 1- 4 PORT in SETUP MENU to that of the time-lapse VCR. (Refer to pp. 74 and 75.)

The following parameters are fixed.

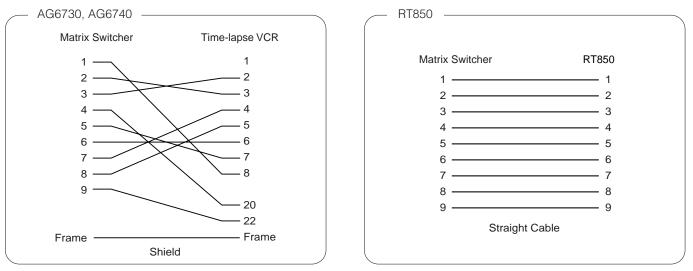
Data bit: 7 bits Parity check: ODD Stop bit: 1 bit

- 4. Connect the matrix switcher's EXT OUT (REC OUT) to the time-lapse VCR's VIDEO IN with the coaxial cable.
- 5. Connect the matrix switcher's EXT IN (PLAY IN) to the time-lapse VCR's VIDEO OUT with the coaxial cable.
- 6. Connect the matrix switcher's SERIAL to that of the time-lapse VCR with a 9-pin D-sub cable.
- 7. Connect the matrix switcher's CAMERA SW IN to the time-lapse VCR's CAMERA SW OUT with an RCA-pin cable.

- Only Panasonic time-lapse VCRs which support RS-232C are usable. (Refer to Cable Specifications on the next page for details of cables.)
- Both of the time-lapse VCR and PC cannot be connected to the matrix switcher.
- When configuring the system through WJ-SX150A Administrator Console, pull out the time-lapse VCR's cable and connect the PC's cable to the serial port.
- To use the alarm recording function, connect the matrix switcher's all alarm output terminals (Alarm Output 1 to 4) to the time-lapse VCR's ALARM IN.
- Be sure to activate auto-recovery for the VCR's alarm reset function.



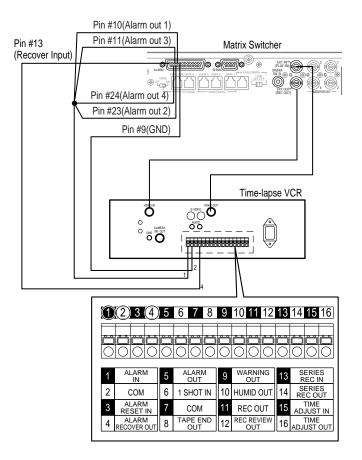
Cable Specifications



■ Connection with the Time-lapse VCR (Non-Panasonic Models) MUX

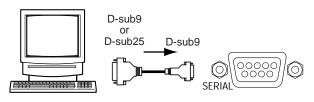
- 1. To record the camera images through a time-lapse VCR, install an optional Multiplexer board in the matrix switcher.
- 2. Select OFF for 600 RECORDER in SETUP MENU. (Refer to p. 71.)
- 3. Connect the matrix switcher's EXT OUT (REC OUT) to the time-lapse VCR's video input connector with the coaxial cable.
- 4. Connect the matrix switcher's EXT IN (PLAY IN) to the time-lapse VCR's video output connector with the coaxial cable.

- To use the alarm recording function, connect the matrix switcher's all alarm output terminals (Alarm Output 1 to 4) to the time-lapse VCR's ALARM IN.
- Be sure to set the VCR to automatically recover from alarm reset.



Connection with the PC

- 1. Conform the communication speed (SERIAL PORT SPEED) parameter in SETUP MENU to that of the PC.
- 2. Connect the matrix switcher's serial port to that of the PC with the 9-pin D-sub cable.



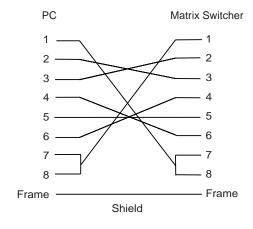
Personal Computer

Matrix Switcher

Notes:

- The following parameters are fixed.
 Data bit: 8 bits
 Parity check: none
 Stop bit: 1 bit
- Refer to Cable Specifications in this page for details on cables.

Cable Specifications



Time Adjustment with an External Equipment

The specified external devices can output the time adjusting signal to the matrix switcher.

This signal can adjust the time by up to \pm 30 seconds every hour.

To use this function, it is necessary to assign the alarm input terminal(s) (pin # 1 to 16) to the time adjusting terminal(s).

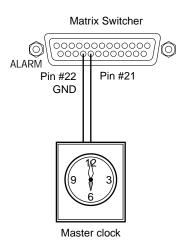
SETUP MENU or WJ-SX150A Administrator Console can assign the signal.

Note: In the master-slave connection, time setting of every unit can be synchronized when the time adjusting signal is input to any unit.

Master Clock Connection Example for Time Adjustment

Connect the matrix switcher's time adjusting terminal to those of the master clock with the twisted pair cable. The figure below shows the case in which Alarm Input 16 is assigned as the time adjusting terminal.

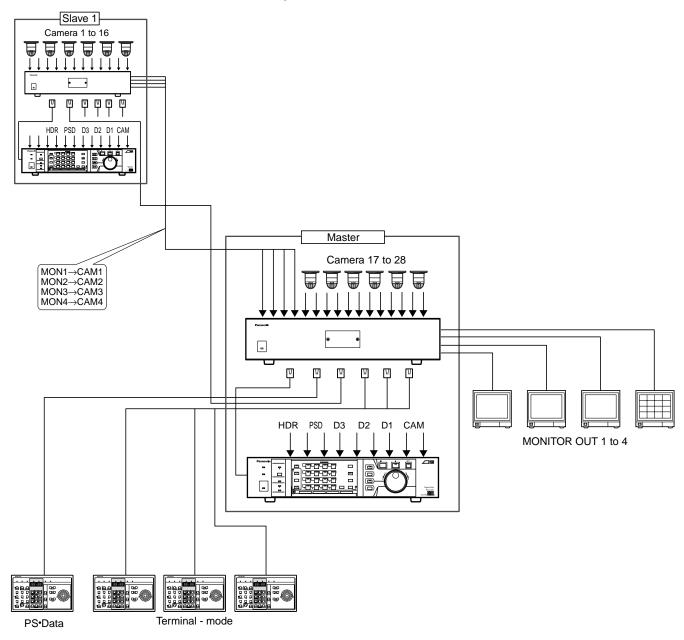
Note: A master clock with N.O. (Normally Open alarm contact)-type output is connectable.



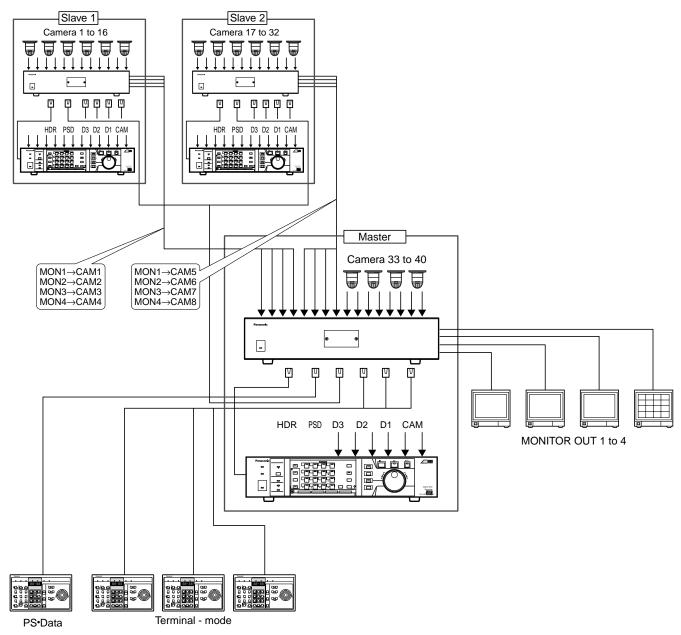
Master-slave Connection

The following are master-slave connection patterns.

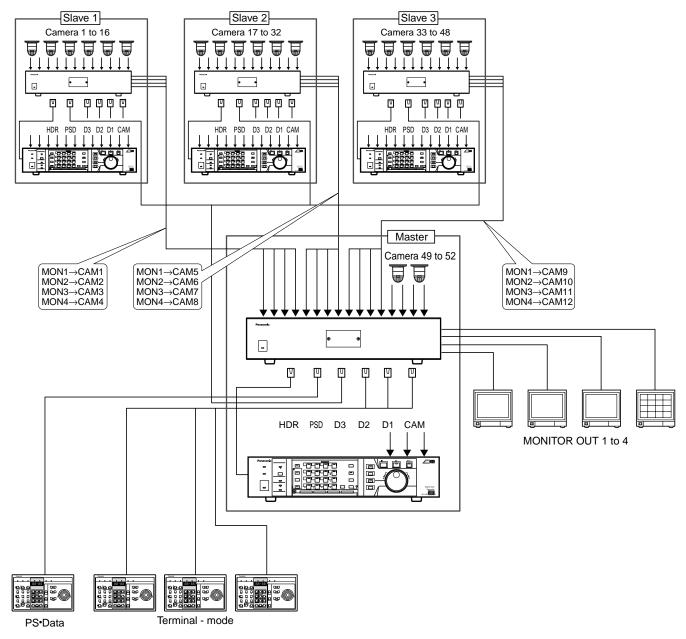
Pattern 1: Master and Slave 1 are connected in the system.



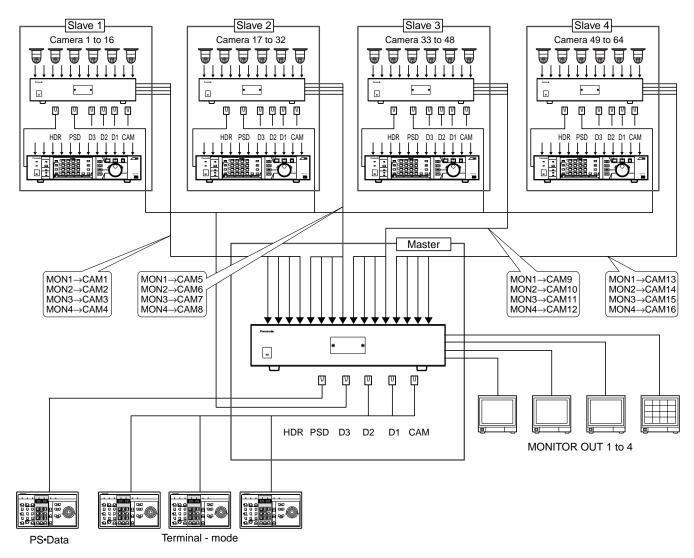
Pattern 2: Master, Slave 1 and 2 are connected in the system.



Pattern 3: Master, Slave 1 to 3 are connected in the system.



Pattern 4: Master, Slave 1 to 4 are connected in the system.



Note: Before connections, make sure all the units have the same firmware version. You can see the firmware version of each unit in SETUP MENU. (Refer to pp. 72 and 73 710 MASTER-SLAVE.) In case there is a version difference, update the firmware of each unit to the newest using a CD-ROM. (Refer to pp.58 to 60 FIRMWARE UPDATE.)

Preparation

Prepare the following items besides standard accessories.

- Personal computer x 1 (Refer to p. 79 Platform for details on system requirements.)
- 9-pin D-sub crossing cable x 1 (Used for connection between the PC and the Master unit)
- Phillips screwdriver x 1 (Used for opening the front panel and setting unit numbers)
- Coaxial cable* (Used for connection of the Master and Slave units)
- Cable Kit WV-CA48/10K* (Used for connection of more than one Slave unit)
- * Necessary number will differ depending on the connection pattern.

Unit Number Selection

Set the unit number selector of each unit to determine Master and slave n*. (Refer to the illustration and diagram in p. 24.) *n is a unit number.

Video Cable Connection

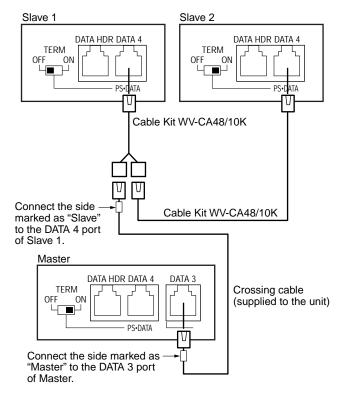
Connect the camera input connectors of Master and the monitor output connectors of Slave with coaxial cables as described in the diagram.

Connection	Master	Slave
	Camera Input 1	Monitor Output 1
Master and Slave 1	Camera Input 2	Monitor Output 2
	Camera Input 3	Monitor Output 3
	Camera Input 4	Monitor Output 4
	Camera Input 5	Monitor Output 1
Master and Slave 2	Camera Input 6	Monitor Output 2
Waster and Slave 2	Camera Input 7	Monitor Output 3
	Camera Input 8	Monitor Output 4
	Camera Input 9	Monitor Output 1
Master and Slave 3	Camera Input 10	Monitor Output 2
Waster and Slave S	Camera Input 11	Monitor Output 3
	Camera Input 12	Monitor Output 4
	Camera Input 13	Monitor Output 1
Master and Slave 4	Camera Input 14	Monitor Output 2
iviaster and slave 4	Camera Input 15	Monitor Output 3
	Camera Input 16	Monitor Output 4

• DATA Port Connection

- Connect the DATA 3 port of the Master unit and the DATA 4 port of the Slave units.
- Connect the Master and Slave units with the supplied crossing cable.
- Connect Slave and Slave with Cable Kit WV-CA48/10K.
- Set the termination selectors of the Master and terminal Slave unit to ON.
- Set the termination selectors of other Slave units to OFF.
- Connect system controllers to the Master unit. (Refer to p. 39.)

Example: Master, Slave 1 and 2 are connected in the system.



Note: System controllers cannot be connected to Slave units.

• Connection between the Units and Cameras

Connect each camera to CAMERA IN 1 to 16 of each unit. (Refer to p. 36 Connection with the Camera Sites.) Each camera has its own logical camera number.

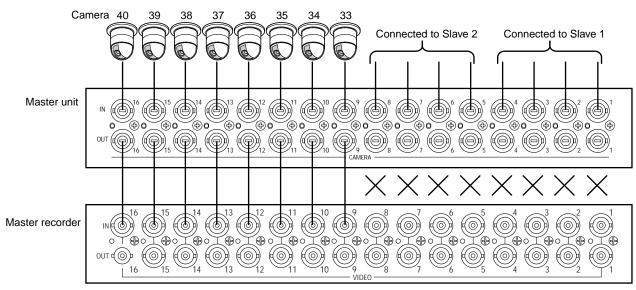
The default setting of the logical camera numbers is as follows. (The logical camera numbers can be configured in SETUP MENU and WJ-SX150A Administrator Console.)

Camera total number	Cameras connected to Master	Cameras connected to Slave 1	Cameras connected to Slave 2	Cameras connected to Slave 3	Cameras connected to Slave 4
1 to 16	1 to 16	-	-	-	-
17 to 28	17 to 28	1 to 16	_	_	_
29 to 40	33 to 40	1 to 16	17 to 32	_	_
41 to 52	49 to 52	1 to 16	17 to 32	33 to 48	_
53 to 64	-	1 to 16	17 to 32	33 to 48	49 to 64

Connect the cameras and the Master/Slave 1 to 4 with the coaxial cables according to the diagram.

Recorder Connection

Connect recorders to each Master/Slave units. Refer to pp. 40 to 47 for connection procedures.



Example: Master, Slave 1 and 2 are connected in the system.

- Recorders and/or the Multiplexer board cannot be connected to the Master unit when Slave 1 to 4 are connected in the system.
- The Master unit's camera channels which loop thru Slave units cannot be connected to the recorder. (In the illustration, the Master unit's CAM OUT 1 to 8 and the recorder's VIDEO IN 1 to 8 cannot be connected.) The Master recorder can record only images from directly-connected cameras when the Master and Slave 1/2/3 are connected together. (For example in the illustration, the Master recorder can record images from Cam 33 to 40.) Camera input signals from Slave units to the Master unit are not for recording but for cross point switching.

Connection with the PC

Connect the PC and the Master unit. (Refer to p. 48 for the connection procedure.)

Software Setup

After connecting the PC to the Master unit, do the setup procedure with SETUP MENU or WJ-SX150A Administrator Console.

• With SETUP MENU

- 1. Turn the power of each unit to ON.
- 2. Log-in the system with a system controller. (Refer to p. 104.)
- 3. Open SETUP MENU. (Refer to p. 63.)
- 4. Open "700 SYSTEM" "710 MASTER-SLAVE". (Refer to pp. 72 and 73.)
- 5. Set the connected Slave units to ON. "Is the MASTER-SLAVE changed? NO" will appear.
- 6. Change NO to YES by pressing the NEXT or PREV button on the system controller.
- 7. Press the SET button. The setting will be saved and you will log-out from SETUP menu.

With WJ-SX150A Administrator Console

- 1. Turn the power of each unit to ON.
- 2. Open WJ-SX150A Administrator Console. (Refer to p. 80.)
- 3. Open the Master-Slave window. (Refer to p. 81.)
- 4. Configure and save the settings by clicking on the Save Exit button. (Refer to p. 82.)
- 5. Open the "Put a file to SX150A" window. (Refer to p. 83.)
- 6. Click on the "OK" button. The setting data will be transferred to the Master unit.
- 7. Close the main window (refer to p. 80) to quit WJ-SX150A Administrator Console.

Recorder Setup

When connecting a recorder with more than one video input (WJ-HD500 or WJ-HD200 Series), conform the LCN (logical camera number) settings of the unit to the camera number setting of a recorder. (Refer to pp. 73/82 and the recorder's operating instructions.)

WJ-SX150A SETUP PROCEDURES

FIRMWARE UPDATE

This setting is required when there is a firmware version difference among each unit in the master-slave connection. Before the procedure, confirm the versions written on the label on each CD-ROM.

Installation of SX150A Program Writer

- **Note:** Refer to p. 79 for the platform necessary for installation.
- 1. Insert the supplied CD-ROM into the PC.
- 2. Open the CD-ROM drive window.The file is located in the following directory.E: \PWriter\SetupPWriter.exe (E is the CD-ROM drive.)
- 3. Double-click the "SetupPWriter.exe" icon to begin the installation. The Welcome window will appear on the PC screen.



- 4. Press the NEXT button to continue the installation.
- 5. Respond to the dialog boxes by following the directions given.

Firmware Update of SX150A Program Writer

- 1. Connect the matrix switcher's serial port to that of the PC with the 9-pin D-sub cable. (Refer to p. 48.)
- Launch SX150A Program Writer by selecting "Start" "Programs" – "Panasonic" – "SX150A Program Writer". The RS232C Setting window will appear on the PC screen.

RS232C Setting Baud Rate ○ [38400] ○ 8 ○ 7	Parity NONE C EVEN	Stop Bit	Com Port- © 1 © 2	
C 9600 C 4800	OODD	C 2	C 3 C 4	SET

- 3. Confirm whether the following are selected. Then, click on "SET".
 Baud Rate: 38400
 Data Bit: 8
 Parity: NONE
 Stop Bit: 1
 Com Port: 1 (Select the usable communication-port number of the PC.)
 - **Note:** Conform the baud rate to the SERIAL port setting in 740 CAMERA/DATA 1 - 4 PORT. (Refer to pp. 74 and 75.) The factory default setting is 38400 bps.
- 4. Set the mode selector at the front panel as shown in the Version confirmation mode window. Besides, make sure the unit number selector is set to "0".

Version cofirmation mode	_ 🗆 🗙
Set the MODE selector as follows	
ОК	

In case you have changed the selector settings, do the following after Step 4.

(1) Turn off the unit.

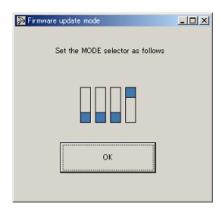
(2) Turn on the unit again.

- 5.Click on the OK button in Version confirmation mode window.
 - **Note:** If the selector settings are wrong when you do Step 5, the following message will appear to notify that version confirmation was failed.



In this case, confirm the connections and do Step 1 to 5 again.

- 6. Turn off the Master unit.
- 7. Set the mode selector as shown in the Firmware update mode window.



- 8. Turn on the unit again.
- 9. Click on the OK button. The unit will be set to the firmware update mode.
- 10. The Program Writer for SX150A window will be displayed.

➢ Program Writer for SX150A -RS232C Status • RS ● CS ● DR ● DS ● CD			
Transfer File	Browse	File Size Send	0 KB 0 KB
		Transfer	
[Panasonic		

When you power on the matrix switcher and the system becomes ready for update, the following message will appear on the PC screen.

"*FIRMWARE UPLOAD START! WAIT ... "

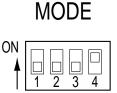
- Wait until the following message appears.
 "**SDRAM INITIALIZE COMPLETED.START LOAD-ING..."
- 12. Insert the supplied CD-ROM into the PC.
- 13. Click on the "Browse..." button to select a .mot file. The file is located in the following directory.
 E: \PWriter\sx150A_v****.mot
 (E is the CD-ROM drive and * is the software version. For example, V111** means Version 1.11.)
- 14. Make sure that the new software version is displayed in the Transfer File box.
- 15. Press the Transfer button.
- 16. A message window will appear to ask you if it is OK to overwrite the software. After confirmation, click on "OK". The .mot file will be copied from the CD-ROM to the matrix switcher.
 - You can confirm the status by viewing messages.
 - (1) "***LOAD OK...": The copy is finished.

(2) "********NOW ERASING...": Data is being erased from the flash memory.

(3) "********NOW WRITING...": New data is being written in the flash memory.

(4) "*********COMPLETED!!": The flash-memory writing is finished.

- Copying takes approx. 7 minutes.
- Avoid disconnecting or powering off the PC and the matrix switcher. It may cause trouble.
- 17. After "********COMPLETED!!" is displayed, power off the matrix switcher.
- 18. Set the mode selector of the matrix switcher as follows.



- 19. Display the matrix switcher's SETUP MENU. (Refer to the matrix switcher's operating instructions.)
- 20. Make sure that the version of the matrix switcher is displayed in SETUP MENU. That shows the software update has been successfully executed.

Error List

The following error messages are displayed through SX150 Program Writer.

• File Error



This error message is displayed during the following occasions.

- You have selected a wrong file (whose file extension is not ". mot") in Step 13 of p. 59.
- The ".mot" file is broken.

To solve this problem, select the correct file. (Refer to p. 59.)

Not Ready



This error message is displayed when the matrix switcher's mode is not "SX150 SOFTWARE UPLOAD".

- To solve this problem, do the following.
- 1. Power off the matrix switcher.
- 2. Set the mode selector of the matrix switcher to "SX150 SOFTWARE UPLOAD". (Refer to p. 24.)
- 3. Power on the matrix switcher again.

Timeout Error



This error message is displayed when a specified time has passed since you started installing SX150A Program Writer/updating the firmware. The following are the timeout error statuses.

- **Status 0:** 30 seconds has passed since the PC became idle.
- **Status 1:** 30 seconds has passed since the SD-RAM started to be cleared.
- **Status 3:** 20 minutes has passed since the file transfer was started.
- **Status 4:** 30 seconds has passed since the file transfer was completed.
- **Status 5:** 30 seconds has passed since the file loading became OK.
- **Status 6:** 5 seconds has passed since the file erasing is started.
- **Status 7:** 5 seconds has passed since the file writing is started.

SETUP PROCEDURES

Setup Procedures

This unit has two setting procedures.

The one is SETUP MENU, which is the unit's on-screen display (OSD).

The other is WJ-SX150A Administrator Console, which operates on the PC.

WJ-SX150A Administrator Console (PC)	Master-slave connection settings Master-slave Logical camera number Sequence settings Tour sequence Group sequence Schedule settings Timer event Camera cleaning Daylight saving time Alarm settings Alarm mode Alarm event Alarm input/Alarm port Operator settings Operator registration Level table Monitor select (Monitor selection) Auto login/logout (Auto log-in/log-out) System settings Clock (Time and date) *1 Cable compensation Camera title Data port *2 Recorder Multiplexer Mux camera (Multiplexer) title Setup file operation Put a file to SX150A Get a configuration data from SX150A SX150A Admin Console configuration File open Account manager Communication (Serial) port	SETUP MENU (OSD)
	 Camera manual cleaning ON/OFF 	

*1 WJ-SX150A Administrator Console can configure the display pattern.

*2 WJ-SX150A Administrator Console can configure the communication speed (baud rate) of the ports Data 1 to 4.

• SETUP MENU (OSD)

The basic functions, which are essential for the operation, are configurable. However, some items are not configurable. The settings about group sequences, operators and schedules, etc.

• WJ-SX150A Administrator Console (PC)

All the functions of this unit (except camera manual cleaning) are configurable. You need a PC to use WJ-SX150A Administrator Console.

Refer to p. 79 WJ-SX150A ADMINISTRATOR CONSOLE for details on the platform and installation.

Notes:

- The Master unit administrates all the system settings. Do the setup procedure with the Master unit only.
- To use WJ-SX150A Administrator Console, you need to prepare a PC and a 9-pin D-sub cable.(Refer to p. 48.)
- When changing the configuration of WJ-SX150A Administrator Console, configuration data getting and putting are necessary between the unit and PC to activate your configuration.

Description of Setup Procedures

This chapter describes about configurable items.

Master-Slave Connection Settings

Both SETUP MENU and WJ-SX150 Administrator console can configure the parameters of master-slave connection and logical camera number.

- Master-slave: The composition of the master-slave connection is configurable.
- Logical camera number: Logical camera number, which is used for camera control and monitor display, can be assigned to each camera.

Sequence Settings

SETUP MENU can configure tour sequences. WJ-SX150A Administrator Console can configure both of tour sequences and group sequences.

- Tour sequence: Up to 32 tour sequences are configurable (64 steps per tour).
- Group sequence: Tour sequences can be activated on up to 4 monitors simultaneously (1 tour sequence per monitor).

Schedule Settings

SETUP MENU can configure daylight saving time. WJ-SX150A Administrator Console can configure timer event, camera cleaning, and daylight saving time.

- Timer event: A sequence or spot mode can be activated on the regular time of every month, week or day. Up to 50 timer events can be registered.
- Camera cleaning: Camera cleaning can be executed on the regular time of every month, week or day.
- Daylight saving time: Daylight saving time schedule for 20 years are configurable.

Alarm Settings

The operation parameters when an alarm is input to the unit are configurable.

- Alarm mode: The operation mode activated along with an alarm input is configurable. Sequence mode or hold mode is selectable. Alarm mode can be set to OFF when not using it.
- Alarm event: The sequence number or spot camera is selectable for the alarm event.
- Alarm input (Alarm port): The alarm polarity (N. O. or N. C.) is assignable to each alarm input terminal.
- It is also selectable whether to activate the recording and sequence/spot image monitoring when an alarm signal is input to the unit. Alarm recording without the sequence/spot image monitoring is also available.

Operator Settings

If you control this unit with a terminal-mode system controller, your operator information, controllable monitors and auto log-in/log-out will be registrable and configurable.

- Operator registration: Up to 16 operators are available. ID and password for operator identification are configurable. Level and priority can be assigned to each operator. Each camera's control coverage is also configurable.
- Level table: Restriction level for each password is customizable.
- Monitor select (Monitor selection): Controllable monitor can be assigned to each controller.
- Auto login/logout (Auto log-in/log-out): Auto log-in/logout is configurable for each controller.

Notes:

- These settings (except Operator registration) are configurable only through WJ-SX150A Administrator Console. Operator registration is configurable through SETUP MENU and WJ-SX150A Administrator Console.
- When you control the unit with a PS·Data system controller, the above settings will be invalid. Refer to the system controller's operating instructions.

System Settings

SETUP MENU can configure the clock (time and date), cable compensation and camera title.

Besides these settings, WJ-SX150A Administrator Console can select the data ports' baud rates.

- Clock (Time and date): The unit's time and date are configurable.
- Cable compensation: Cable compensation type is selectable depending on the distance between a camera and the unit. It is also possible to determine whether to send the VD2 timing pulse or control data with the camera output signals.

- Camera title: Camera title is configurable to identify the camera images on the monitor. WJ-SX150A Administrator Console can configure the camera title including original characters.
- Data port: Usually, the ports DATA 1 to 3 connect to the terminal-mode system controllers. RS-485 cameras will be connectable with the data port configurations through WJ-SX150A Administrator Console and SETUP MENU.

When you use the system controllers via the PS·Data protocol, you need to configure the DATA 4 port setting through SX150A Admin Console or SETUP MENU.

- Recorder: The type and unit address of the recorder are configurable.
- Multiplxer: The parameters of the recorder mode are configurable. You can set the alarm and normal recording rate. You can also activate/deactivate dynamic recording, dummy black, and "CAMSW LOSS Rn" indication. (Rn is a recorder number.) **MUX**
- Mux camera (Multiplexer) title: Camera titles which are displayed with multiscreen segments are configurable.

Setup File Operation

WJ-SX150A Administrator Console can send a configuration file from the PC to this unit. The utility can also send the file from the unit to the PC for configuration.

- Put a file to SX150A: A configuration data is sent from the PC to the unit.
- Get a configuration data from SX150A: A configuration data is sent from the unit to the PC.
- Select setup data file: A configuration data is selected when sending it from the PC to the unit (or from the unit to the PC.)
- **Note:** These settings are configurable only through WJ-SX150A Administrator Console.

WJ-SX150A Administrator Console Configuration

The PC-related settings are configurable.

- Account Manager: WJ-SX150A Administrator Console operators are registrable and changeable.
- Communication (Serial) port: PC's usable communication port number and its baud rate (communication speed) are configurable.

WJ-SX150A SETUP MENU (OSD)

The WJ-SX150A SETUP MENU (SETUP MENU) enables function controls that are not available by direct operation. Note: Only one operator can enter SETUP MENU.

Displaying SETUP MENU

To display SETUP MENU, follow the procedure below.

- 1. Confirm that the camera and peripherals are correctly and securely connected and that all components are turned on.
- 2. To execute the selection, select one of the monitors (1 to 4) by pressing the numeric button, then press the MON (ESC) button.

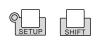
The MONITOR indicator will light up.

3. Press the SETUP button while holding down the SHIFT button on the system controller.

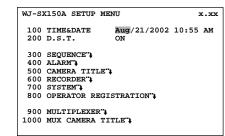
WJ-SX150A SETUP MENU will appear on the active monitor as shown below, and the system controller's SETUP indicator will light up.

The tree of SETUP MENU is shown in the next page.

Note: "x.xx" in SETUP MENU shows the firmware version.



* This is the factory default setting.



The following functions and buttons are valid in SETUP MENU:

- Joystick to UP(▲): Moves the cursor up or returns to the previous page.
- Joystick to DOWN(♥): Moves the cursor down or displays the next page.
- Joystick to L(<): Moves the cursor to the left.
- Joystick to R (►): Moves the cursor to the right.

PREV button: Selects the previous mode or parameter.

NEXT button: Selects the next mode or parameter.

Numeric buttons: Enters numerals.

- CLEAR button: Deletes a character when editing a camera title.
- CAM (SET) button: Executes the selections and displays a submenu for items with the (") mark.
- MON (ESC) button: Returns to SETUP MENU or the previous menu.

This operating instructions uses the symbols to describe the buttons.

4. To end the setting and return to the normal view, press the SETUP button while holding down the SHIFT button when SETUP MENU is displayed.

The system controller's SETUP indicator will go off.

Programming SETUP MENU

As shown in the tree, SETUP MENU has 10 submenus: TIME & DATE, D. S. T., SEQUENCE, ALARM, CAMERA TITLE, RECORDER, SYSTEM, OPERATOR REGISTRATION, MULTIPLEXER, and MUX CAMERA TITLE. The submenus except TIME & DATE and D. S. T. are divided into additional submenus.

The (") mark indicates that the item has a submenu for more detailed setups.

Refer to the figure in p. 65 for the composition of SETUP MENU.

■ TIME & DATE

WJ-S2	X150A SETUP MENU x.xx
100	TIME&DATE Aug/21/2002 10:55 AM
200	D.S.T. ON
300	SEQUENCE"
400	ALARM"
500	CAMERA TITLE"
600	RECORDER"
700	SYSTEM"
800	OPERATOR REGISTRATION"
900	MULTIPLEXER"
1000	MUX CAMERA TITLE"

• How to Display

To display this menu on the monitor, move the cursor to 100 TIME & DATE in SETUP MENU by moving the joystick to \blacktriangle or \blacktriangledown .

Parameters

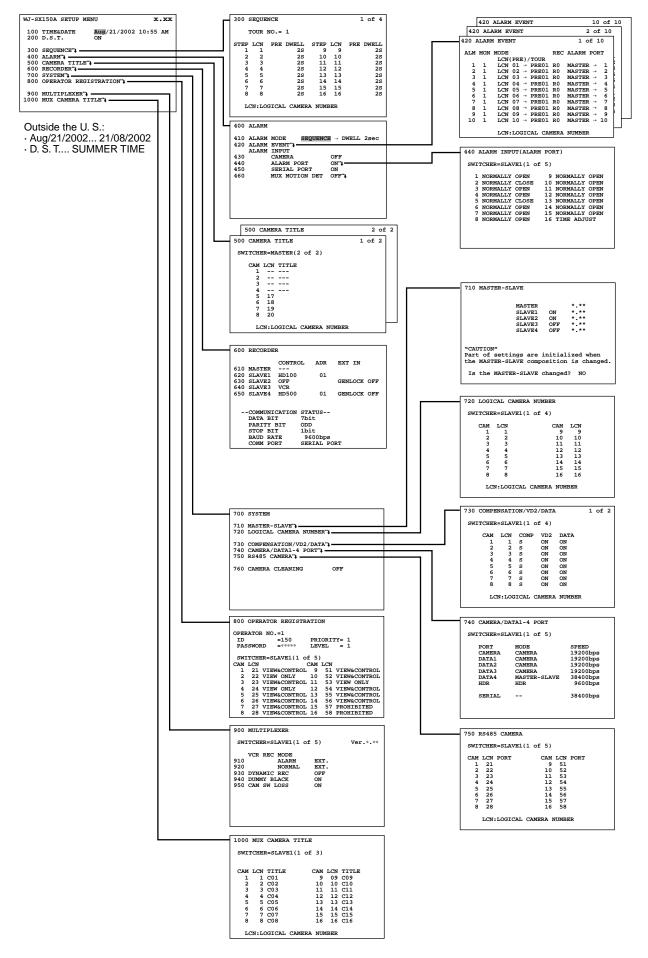
You can move the cursor to each parameter by moving the joystick to \blacktriangleleft or \blacktriangleright .

• Month

Press the NEXT or PREV button to select the correct month.

• Day

Press the numeric buttons to enter it directly.



Depending on the composition of master-slave connection, parameters will differ from the illustration.

Year

Press the numeric button to enter the correct year.

• TIME

Press the numeric button to enter the correct time.

• MINUTE

Press the numeric button to enter the correct minute.

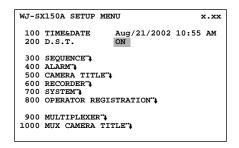
• AM/PM

Press the NEXT or PREV button to select the correct time. After the configuration, press the SETUP button while holding down the SHIFT button. The configuration will be updated when closing SETUP MENU.

Notes:

- Adjust the time and date when the clock display is different from the current one.
- The clock display pattern is changeable with the setting in WJ-SX150A Administrator Console. (Refer to p. 93.) The factory default setting is Month/Day/Year.
- The clock is automatically adjusted to 0 second of the setting time and date when closing SETUP MENU.
- Hour system (12- hours or 24- hours) is changeable through WJ-SX150A Administrator Console.

D. S. T. (Daylight Saving Time)



How to Display

To display this menu on the monitor, move the cursor to 200 D. S. T. in SETUP MENU by moving the joystick to \triangledown or \blacktriangle .

Parameters

Select ON or OFF by pressing the NEXT or PREV buttons.

ON: Daylight saving time is activated. **OFF:** Daylight saving time is deactivated.

The factory default setting is ON.

After the configuration, press the SETUP button while holding down the SHIFT button. The configuration will be updated when closing SETUP MENU.

Notes:

- The start/end date are configurable through WJ-SX150A Administrator Console. (Refer to p. 87.)
- When ON is selected for D. S. T., * is added beside the time display.

Example: *10: 55 AM

SEQUENCE SETUP

300 \$	SEQUI	ENCE				1 of 4
:	rour	NO.=	1			
STEP	LCN	PRE	DWELL	STEP	LCN	PRE DWELL
1	1		2S	9	9	25
2	2		25	10	10	25
3	3		2S	11	11	25
4	4		2S	12	12	25
5	5		25	13	13	25
6	6		25	14	14	25
7	7		2S	15	15	25
8	8		2S	16	16	25
LO	CN:LO	OGICAI	L CAMER	A NUMI	BER	

300 SEQUENCE	2 0	£4
TOUR NO.= 1		
STEP LCN PRE DWELL 17 18 19 20 21 22 23 24	STEP LCN PRE DW 25 26 27 28 29 30 31 32	ELL
LCN:LOGICAL CAMERA	NUMBER	

300 SEQUENCE	3 of 4
TOUR NO.= 1	
STEP LCN PRE DWELL 33 34 35 36 37 38 39 40	STEP LCN PRE DWELL 41 42 43 44 45 46 47 48
LCN:LOGICAL CAMERA	NUMBER

TOUR NO =	1	
STEP LCN PRE	DWELL STEP LCN	PRE DWELI
49	57	
50	58	
51	59	
52	60	
53	61	
54	62	
55	63	
56	64	

How to Display

To display this menu on the monitor, move the cursor to 300 SEQUENCE in SETUP MENU by moving the joystick to \checkmark or \blacktriangle .

Then, press the CAM (SET) button. The submenu appears on the monitor.

Parameters

Move the joystick to move the cursor.

Press the NEXT or PREV button to select the desired parameters.

Press the numeric button(s) to enter a number.

- **TOUR NO:** Press the NEXT or PREV button to select the tour number. Or press the numeric button(s) to enter a number.
- **STEP:** This stands for a tour sequence step.
- **LCN:** This stands for a logical camera number. 01 to 99 or "- -" is selectable. * To deactivate a sequence step, select "- -". You can set "- -" by pressing the button 0.

The factory default setting is assigned to each step in numerical order (STEP 1 = LCN 1, STEP 2 = LCN 2, STEP 3 = LCN 3, STEP 4 = LCN 4, STEP 5 = LCN 5...)

PRE: This stands for a camera's preset position number. 1 to 64 or "- -" is selectable. When the camera has no preset position, select "- -". You can set "- -" by pressing the button 0.

The factory default setting is "- -".

DWELL: This stands for the dwell time. 1 second to 30 seconds is selectable. To delete the sequence step, select "- -". You can set "- -" by pressing the button 0.

The factory default setting is 2S for each step.

After the configuration, press the MON (ESC) button. The monitor display will return to the previous menu.

After all the configurations, press the SETUP button while holding down the SHIFT button. The configuration will be updated when closing SETUP MENU.

Notes:

- A preset position number is available only when a combination camera is selected for CAM.
- The available preset position numbers differ among cameras. Refer to each camera's operating instructions.

ALARM SETUP

400	ALARM		
410	ALARM	MODE SEQUENC	E → DWELL 2sec
420	ALARM	EVENT	
-	ALARM	INPUT	
430		CAMERA	OFF
440		ALARM PORT	ON")
450		SERIAL PORT	ON
460		MUX MOTION DET	OFF"
1			

How to Display

To display this menu on the monitor, move the cursor to 400 ALARM in SETUP MENU by moving the joystick to \checkmark or \blacktriangle . Then, press the CAM (SET) button. The submenu appears on the monitor.

Parameters

Move the joystick to move the cursor.

Press the NEXT or PREV button to select the desired parameters.

Press the numeric button(s) to enter a number.

• ALARM MODE

You can select an operation mode when alarm input signals are accepted by the unit.

Notes:

- The alarm mode is activated when alarm input signals are assigned to the same monitor through 420 ALARM EVENT or the Alarm Event (refer to pp. 67 and 68/ pp. 89 and 90) window.
- While alarm is activated, you cannot operate the functions related to the Multiplexer board.

SEQUENCE: An alarm operation is replaced by another one after the dwell time (DWELL) ends.

HOLD: An initial alarm operation is continued even after another alarm input is accepted.

OFF: Select this when not using the alarm mode.

The factory default setting is SEQUENCE.

• DWELL

This stands for the dwell time of a sequence during an alarm mode.

1 to 30 seconds are selectable.

The factory default setting is 2 seconds.

• ALARM EVENT

This item is configurable in 420 ALARM EVENT. Move the cursor and press the CAM (SET) button. 420 ALARM EVENT will appear on the monitor.

			1T				Τ¢	of 10
ALM	MON	MODE				REC	ALARM PO	ORT
		LCN (PRI	Ξ),	TOUR			
1	1	LCN	01	\rightarrow	PRE01	R0	MASTER -	→ 1
2	1	LCN	02	\rightarrow	PRE01	R0	MASTER -	→ 2
3	1	LCN	03	\rightarrow	PRE01	R0	MASTER -	→ 3
4	1	LCN	04	\rightarrow	PRE01	R0	MASTER -	→ 4
5	1	LCN	05	\rightarrow	PRE01	R0	MASTER -	→ 5
6	1	LCN	06	\rightarrow	PRE01	R0	MASTER -	→ б
7	1	LCN	07	\rightarrow	PRE01	R0	MASTER -	→ 7
8	1	LCN	08	\rightarrow	PRE01	R0	MASTER -	→ 8
9	1	LCN	09	\rightarrow	PRE01	R0	MASTER -	÷ 9
10	1	LCN	10	\rightarrow	PRE01	R0	MASTER -	→ 10

420	ALARM	EVENT		2 of 10
ALM	MON 1	MODE	REC	ALARM PORT
		LCN(PRE)/TOUR		
11	1	LCN 11 \rightarrow PRE01	R0	MASTER \rightarrow 11
12	1	LCN 12 \rightarrow PRE01	R0	MASTER \rightarrow 12
	1	LCN 13 \rightarrow PRE01	R0	MASTER \rightarrow 13
14	1	LCN 14 \rightarrow PRE01	R0	MASTER \rightarrow 14
	1	LCN 15 \rightarrow PRE01	R0	MASTER \rightarrow 15
16	1	LCN 16 \rightarrow PRE01	R0	MASTER \rightarrow 16
17	1	LCN 17 \rightarrow PRE01		
18		LCN 18 \rightarrow PRE01		
19	_	LCN 19 \rightarrow PRE01		
20	1	LCN 20 \rightarrow PRE01	R2	SLAVE1 \rightarrow 4
		LCN:LOGICAL CA	MERA	NUMBER
420	ALARM	EVENT		10 of 10
ат.м	MON	MODE	REC	ALARM DORT
	11011	LCN(PRE)/TOUR	ще	hibridi FORT
91	1	LCN 91 \rightarrow PRE01		
92		LCN 92 \rightarrow PRE01		
93		LCN 93 \rightarrow PRE01		
93 94	1			
	1 1	LCN 93 → PRE01		
94	1 1 1	LCN 93 \rightarrow PRE01 LCN 94 \rightarrow PRE01		
94 95	1 1 1 1	LCN 93 \rightarrow PRE01 LCN 94 \rightarrow PRE01 LCN 95 \rightarrow PRE01		
94 95 96	1 1 1 1	LCN 93 \rightarrow PRE01 LCN 94 \rightarrow PRE01 LCN 95 \rightarrow PRE01 LCN 96 \rightarrow PRE01		
94 95 96 97	1 1 1 1 1	LCN 93 \rightarrow PRE01 LCN 94 \rightarrow PRE01 LCN 95 \rightarrow PRE01 LCN 95 \rightarrow PRE01 LCN 96 \rightarrow PRE01 LCN 97 \rightarrow PRE01		
94 95 96 97 98	1 1 1 1 1	LCN 93 \rightarrow PRE01 LCN 94 \rightarrow PRE01 LCN 95 \rightarrow PRE01 LCN 96 \rightarrow PRE01 LCN 97 \rightarrow PRE01 LCN 98 \rightarrow PRE01		

ALM: This stands for the alarm event number. **MON:** This stands for the monitor number.

- **MODE:** This stands for the preset position of a camera or tour sequence number activated with an alarm input signal.
 - LCN(PRE)/TOUR: Activates a spot camera or tour sequence with an alarm input. To activate a spot camera, select LCN nn (nn is a logical camera number: 01 to 99). To activate a tour sequence, select TUR nn (nn is a tour number: 01 to 32).

When you selected a combination camera for LCN nn, enter the desired preset position number. PRE 01 to 64 is available. When you selected another type of camera, select "-".

REC: This stands for a recorder activated with an alarm input signal. If no recorder is activated, the parameter will be a space. The REC area displays the number of recorder which receives images from a camera whose logical camera number is correspondent with the alarm event number.

R0 to R4 shows the following.

Recorder number	Recorder
R0	Master recorder
R1	Slave 1 recorder
R2	Slave 2 recorder
R3	Slave 3 recorder
R4	Slave 4 recorder

- **Note:** If a WJ-HD200 Series recorder is connected to CAM 1 to 8, recorder number will be displayed even camera channels (CAM 9 to 16) not connected to the recorder.
- **ALARM PORT:** When an alarm port pin set here receives an input signal, the designated event is activated. MASTER, SLAVE 1 to 4 is available for the matrix switcher. 1 to 16 is available for the alarm port number. To deactivate the alarm number, press the button 0. ALARM PORT will be a space.

Notes:

- MODE and LCN(PRE/TOUR) cannot be selected by pressing the numeric buttons. Press the NEXT or PREV button for selection.
- PRE doesn't appear when TOUR 1 to 16 is selected for MODE.
- When selecting a camera without the preset position function, select "- -" for PRE.
- When moving the joystick to ▼ at the bottom of ALARM EVENT 1 of 10, the monitor will display 2 of 10 (the next page).
- When moving the joystick to ▲ at the top of ALARM EVENT 2 of 10, the monitor will display 1 of 10 (the previous page).
- Each ALARM PORT can be assigned to only one alarm number. If you enter the same ALARM PORT more than one time, the newer will be activated and the older will be changed to a space.
- An alarm event will be activated even if the selected logical camera number is not assigned to any camera channel.

In this case, black image and "NOT ASSIGN" will be displayed on the monitor.

- Set the parameter of a port number area by pressing the numeric button(s).
- If you press the NEXT or PREV button at a port pin number area, the parameter will be switched among a space and ALARM PORT not assigned to other alarm events.

After the configuration, press the MON (ESC) button. The monitor display returns to ALARM SETUP.

• ALARM INPUT

430 CAMERA

This stands for that an alarm input is accepted via the CAMERA IN connectors or the RS-485 ports.

- **ON:** The alarm-associated sequence/spot image is displayed on a monitor, and alarm recording will start (if a recorder is connected to the unit).
- **REC ONLY:** Only alarm recording will start and monitors will keep displaying the current sequence/spot images.
 - **Note:** You cannot recover alarm-related operations from system controllers when REC ONLY is selected.
- **OFF:** An alarm input is accepted neither via the CAM-ERA IN connectors nor the RS-485 ports.

The factory default setting is OFF.

440 ALARM PORT

This stands for that an alarm input is accepted via the ALARM port (25-pin D-sub connector at the rear panel).

ON: The alarm-associated sequence/spot image is displayed on a monitor, and alarm recording will start (if a recorder is connected to the unit.)

The factory default setting is same as the illustrations.

- **REC ONLY:** Only alarm recording will start and monitors will keep displaying the current sequence/spot images.
 - **Note:** You cannot recover alarm-related operations from system controllers when REC ONLY is selected.
- **OFF:** An alarm input is not accepted via the ALARM port.

The factory default setting is ON.

Each alarm input's polarity is configurable in the submenu. Set ALARM PORT to ON or REC ONLY, and press the CAM (SET) button.

440 ALARM INPUT (ALARM PORT) will appear on the monitor.

440	ALARM INPU	JT (ALARM	POI	RT)	
SWI	TCHER=SLAV	/E1(1 of	5)		
1	NORMALLY	OPEN	9	NORMALLY	OPEN
2	NORMALLY	CLOSE	10	NORMALLY	OPEN
3	NORMALLY	OPEN	11	NORMALLY	OPEN
4	NORMALLY	OPEN	12	NORMALLY	OPEN
5	NORMALLY	CLOSE	13	NORMALLY	OPEN
6	NORMALLY	OPEN	14	NORMALLY	OPEN
7	NORMALLY	OPEN	15	NORMALLY	OPEN
8	NORMALLY	OPEN	16	TIME ADJU	JST

Move the cursor and press the CAM (SET) button to go into the menu.

- **SWITCHER:** Select a unit (SLAVE1 to 4 and MASTER*) to configure the parameters.
 - * In normal connection, only MASTER is displayed.

After designating the unit, select the desired polarity for ALARM 1 to 16.

- **NORMALLY OPEN:** Normally Open contact is activated for the alarm input signal.
- **NORMALLY CLOSE:** Normally Close contact is activated for the alarm input signal.
- **TIME ADJUST:** This polarity enables the input of the time adjusting signal.

The factory default setting is N. O.

Note: In the master-slave connection, time setting of every unit can be synchronized when the time adjusting signal is input to any unit.

450 SERIAL PORT

This stands for that an alarm input is accepted via the SERI-AL port.

- **ON:** The alarm-associated sequence/spot image is displayed on a monitor, and alarm recording will start (if a recorder is connected to the unit.)
- **REC ONLY:** Only alarm recording will start and monitors will keep displaying the current sequence/spot images.

- **Note:** You cannot recover alarm-related operations from system controllers when REC ONLY is selected.
- **OFF:** An alarm input is not accepted via the SERIAL port.

The factory default setting is ON.

460 MUX MOTION DET MUX

This stands for that the unit's motion detector is activated when a camera detects the brightness-level change and transmit an alarm signal.

- **ON:** The alarm-associated sequence/spot image is displayed on a monitor, and alarm recording will start (if a recorder is connected to the unit.)
- **REC ONLY:** Only alarm recording will start and monitors will keep displaying the current sequence/spot images.

Notes:

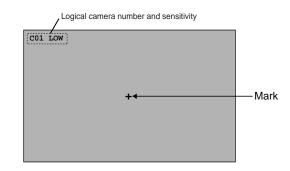
- If the Multiplexer board is not installed in the unit, you cannot enter the submenu of 460 MUX MOTION DET.
- You cannot recover alarm-related operations from system controllers when REC ONLY is selected.
- **OFF:** An alarm input is not accepted by the motion detector.

To configure where to activate the motion detector, set MUX MOTION DET to ON or REC ONLY, and press the CAM (SET) button. The live image will be displayed.

Up to 4 motion-detection areas are configured for each camera channel.

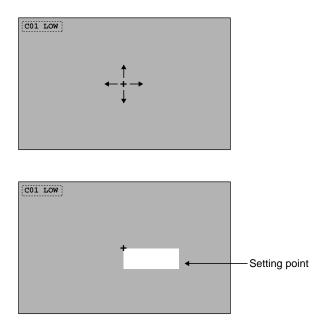
Note: Black image will be displayed on the monitor if the currently selected channel has no camera connection.

A "+" mark appears at the center of the monitor.



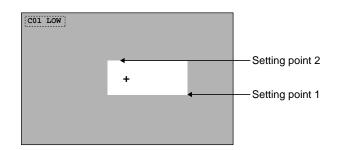
The following is the setting procedure.

- 1. Move the cursor with the joystick to the desired area, and then press the CAM (SET) key. Setting point 1 is determined.
 - **Note:** If you control the joystick while holding down the SHIFT button, the cursor will move by 10 steps.



Logical camera number and sensitivity level will move when a cursor points here. (The default position is here.)

- 2. Move the "+" mark to the desired area, and then press the CAM (SET) key. Setting point 2 is determined and the "+" mark will disappear. Then, the mark will appear again at the center of the monitor. The square, covered with Setting point 1 and 2, is showing the motion-detection area.
- **Note:** White images will be displayed in the square if the currently selected channel has no camera connection.



- To configure more motion-detection area, repeat Step 1 and 2.
- 4. To set the motion-detection area of another camera, press the NEXT or PREV button. Then, select the desired logical camera number. The live image of the selected camera will be displayed.

Notes:

- If you repeat Step 1 after setting 4 motion-detection areas, "NG" will blink at the center of the monitor for two seconds.
- To reset a motion-detection area, move the "+" mark on the desired area. Then, press the CLEAR button. The area will be reset.
- If an area overlaps another one, the newer area will be reset.
- 5. To configure the motion-detection areas of another camera channel, press the NEXT or PREV button.
- 6. Repeat Step 1 to 4.

Notes:

- If you press the CLEAR button while holding down the SHIFT button, all the motion-detection areas of the camera channel will be cleared.
- Depending on the sensitivity level, a motion-detection area needs the following area sizes.

Sensitivity	Area size
LOW	17 x 17 steps or more
MID	12 x 12 steps or more
HIGH	5 x 5 steps or more

You can change the sensitivity level in WJ-SX150A Administrator Console (Refer to p. 89.) The factory default setting is LOW.

After the configuration, press the MON (ESC) button. The motion-detection setting will be memorized and the monitor display will return to the previous menu.

After all the configurations, press the SETUP button while holding down the SHIFT button. The configuration will be updated when closing SETUP MENU.

CAMERA TITLE

500 CAM	ERA TITLE	1	of	2			
SWITCH	SWITCHER=MASTER(2 of 2)						
CAM	CAM LCN TITLE						
2							
3							
4							
	17						
	18						
	19						
8	20						
LO	CN:LOGICAL CAMERA NUMBER						
500 CAM	ERA TITLE	2	of	2			
	ERA TITLE ER=MASTER(2 of 2)	2	of	2			
SWITCH		2	of	2			
SWITCHI CAM 9	ER=MASTER(2 of 2) LCN TITLE 21	2	of	2			
SWITCHI CAM 9 10	ER=MASTER(2 of 2) LCN TITLE 21 22	2	of	2			
SWITCHI CAM 9 10 11	ER=MASTER(2 of 2) LCN TITLE 21 22 23	2	of	2			
SWITCH CAM 9 10 11 12	ER=MASTER(2 of 2) LCN TITLE 21 22 23 24	2	of	2			
SWITCH CAM 9 10 11 12 13	ER=MASTER(2 of 2) LCN TITLE 21 22 23 24 25	2	of	2			
SWITCH CAM 9 10 11 12 13	ER=MASTER(2 of 2) LCN TITLE 21 22 23 24	2	of	2			
SWITCH CAM 9 10 11 12 13 14 15	ER=MASTER(2 of 2) LCN TITLE 21 22 23 24 25 26 27	2	of	2			
SWITCH CAM 9 10 11 12 13 14 15	ER=MASTER(2 of 2) LCN TITLE 21 22 23 24 25 26	2	of	2			

How to Display

To display this menu on the monitor, move the cursor to 500 CAMERA TITLE in SETUP MENU by moving the joystick to \checkmark or \blacktriangle . Then, press the CAM (SET) button. The submenu appears on the monitor.

How to edit

Move the joystick to move the cursor.

- To select parameters, press the PREV or NEXT button.
 - **SWITCHER:** Select a unit (SLAVE1 to 4 and MASTER*) to configure the parameters.
 - * In normal connection, only MASTER is displayed.
 - **CAM:** This stands for a camera channel of the unit.
 - **LCN:** This stands for a logical camera number. 1 to 99 is selectable.
 - **TITLE:** A camera title is composed of up to 20 characters. Each camera number is fixed and the subsequent 20 characters are editable.

The characters available here are the following:

ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrs tuvwxyz0123456789!"#\$%&'()*+,-./:;=?•_(space)

The factory default settings are same as the illustrations.

1. Edit the camera titles by pressing the NEXT or PREV buttons.

The NEXT button toggles these characters in this order. The PREV button toggles these characters in a reverse order.

Joystick and the CLEAR button are also usable for the edit. (Refer to p. 63 Displaying SETUP MENU for each use.)

2. After the configuration, press the MON (ESC) button. The monitor display will return to the previous menu.

After all the configurations, press the SETUP button while holding down the SHIFT button. The configuration will be updated when closing SETUP MENU.

Notes:

- When moving the joystick to ▼ at the bottom of CAM-ERA TITLE 1 of 2, the monitor will display 2 of 2 (the next page).
- When moving the joystick to ▲ at the top of CAMERA TITLE 2 of 2, the monitor will display 1 of 2 (the previous page).
- Original characters are configurable through WJ-SX150A Administrator Console, but they are not displayed correctly in SETUP MENU. They are displayed as ■. (Refer to p. 95 Edit Font window.)
- The titles of the camera channels deactivated by the master-slave connection are displayed as "- -".

RECORDER

600	RECORDE	R					
610	MASTER	CONTRO	L AD	R E	хт	IN	
	SLAVE1	HD100	0	1			
630	SLAVE2	OFF		GI	ENL	OCK	OFF
640	SLAVE3	VCR					
650	SLAVE4	HD500	0:	1 GI	ENL	OCK	OFF
-	-COMMUNI DATA BI PARITY STOP BI BAUD RA COMM PO	T BIT T TE	STATUS 7bit ODD 1bit 9600bj SERIAL	ps			

How to Display

To display this menu on the monitor, move the cursor to 600 RECORDER in SETUP MENU by moving the joystick to \blacktriangle or \blacktriangledown . Then, press the CAM (SET) button. The submenu will appear on the monitor.

Parameters

Move the joystick to move the cursor.

Press the NEXT or PREV button to select the desired parameters.

Press the numeric button(s) to enter a number.

• 610 MASTER/620 SLAVE1/630 SLAVE 2/640 SLAVE 3/650 SLAVE 4

This stands for the type of units connected in the system.

CONTROL: This stands for the recorder connected to each unit. The selectable parameters will differ depending on whether a Multiplexer board is installed in the unit.

Without the Multiplexer board

- **HD500:** Select this when a WJ-HD500 Series recorder is connected to the unit.
- **HD200:** Select this when a WJ-HD200 Series recorder is connected to the unit.
- **OFF:** Select this when no recorder is connected to the unit.

The factory default setting is HD500.

With the Multiplexer board

- **VCR:** Select this when a time-lapse VCR (Panasonic model) is connected to the unit.
- **HD100:** Select this when a WJ-HD100 Series recorder is connected to the unit.
- **OFF:** Select this when a time-lapse VCR (non-Panasonic model) or no recorder is connected.

The factory default setting is OFF.

Notes:

- If HD500 or HD200 is selected for the unit with the Multiplexer board, the parameter will be set to OFF.
- If VCR or HD100 is selected for the unit without the Multiplexer board, the parameter will be set to HD500.
 - **ADR:** This stands for the recorder's unit address. When a digital disk recorder is connected to the unit, 1 to 99 is available. When a time-lapse VCR is connected, this parameter is not displayed.

EXT IN:

This stands for the setting of the EXT IN connector at the unit's rear panel. When the Multiplexer board is installed in the Master unit, this parameter for MASTER does not appear.

GENLOCK ON: Select this mode if you gen-lock the unit with an external device.

GENLOCK OFF: Select this mode if you connect the video output connector of the recorder to the EXT IN connector of the unit.

The factory default setting is OFF.

The factory default setting is same as the illustration.

COMMUNICATION STATUS

The following are communication parameters of a digital disk recorder/time-lapse VCR. The parameters will differ depending on connected devices.

When a digital disk recorder is connected

DATA BIT: 8 bit PARITY BIT: NONE STOP BIT: 1 bit BAUD RATE: 9600 bps COMM PORT: DATA HDR PORT

When a time-lapse VCR is connected

DATA BIT: 7 bit PARITY BIT: ODD STOP BIT: 1 bit BAUD RATE: 9600 bps COMM PORT: SERIAL PORT

Notes:

- 620 SLAVE1, 630 SLAVE 2, 640 SLAVE 3, and 650 SLAVE 4 appear only when they are connected.
- When Slave 1 to 4 are connected in the system, "---" is displayed for CONTROL of 610 MASTER.
- If GENLOCK ON is selected, the playback images or multiscreen display cannot be displayed on Monitor 1 to 4. Confirm the images on the monitor which are connected to the recorder.
- If GENLOCK OFF is selected, the maximum rate recording becomes unavailable (when a WJ-HD500 Series recorder is connected to the unit).
- Gen-lock is not activated for the Slave 1 to 4 units when the Multiplexer board is installed in them.

SYSTEM SETUP

700	SYSTEM
	MASTER-SLAVE") LOGICAL CAMERA NUMBER")
740	COMPENSATION/VD2/DATA" CAMERA/DATA1-4 PORT" RS485 CAMERA"
760	CAMERA CLEANING OFF

How to Display

To display this menu on the monitor, move the cursor to 700 SYSTEM in SETUP MENU by moving the joystick to \checkmark or \blacktriangle . Then, press the CAM (SET) button. The submenu appears on the monitor.

Parameters

Move the joystick to move the cursor.

Press the NEXT or PREV button to select the desired parameters.

MASTER-SLAVE

This menu links to the submenu. Move the cursor and press the CAM (SET) button to go into the menu.

710 MASTER-SLAVE will appear on the monitor.

710 MASTER-SLAVE		
MASTER		*.**
SLAVE1	ON	*.**
SLAVE2	ON	*.**
SLAVE3	OFF	*.**
SLAVE4	OFF	*.**
"CAUTION" Part of settings are : the MASTER-SLAVE compo Is the MASTER-SLAVE of	ositio	n is changed.

SLAVE 1 to 4

ON: Select this for units connected in the system. **OFF:** Select this for units not connected in the system.

The factory default setting is OFF.

Notes:

- For Slave units, you can set ON only when the unit with the previous number is set to ON.
- When you change ON/OFF, part of the setting data will be initialized according to the master-slave composition
- *. ** is the firmware version of a unit. (For Slave units, the version is displayed only when ON is selected.)

Is the MASTER-SLAVE changed?

- **YES:** Select this if you agree that the master-slave composition will be changed.
- **NO:** Select this if you do not agree that the master-slave composition will be changed.

This message appears only when you try to change ON/OFF of SLAVE1 to 4.

- To change the setting, select "YES" and press the SET button. SETUP MENU will be closed, but the setting will be activated.
- To cancel the setting, select "NO". The message will disappear and the cursor moves to the former position.

After the configuration, press the MON (ESC) button. The monitor display returns to the previous menu.

• LOGICAL CAMERA NUMBER

This menu links to the submenu.

Move the cursor and press the CAM (SET) button to go into the menu. 720 LOGICAL CAMERA NUMBER will appear on the monitor.

720 LOGI	CAL CAMER	A NUMBER	
SWITCHE	R=SLAVE1(1 of 4)	
CAM	LCN	CAM	LCN
1	1	9	9
2	2	10	10
3	3	11	11
4	4	12	12
5	5	13	13
6	6	14	14
7	7	15	15
8	8	16	16
LC	N:LOGICAL	CAMERA NUM	BER

720 LOGI	CAL CAME	RA NUMBER					
SWITCHE	R=SLAVE2	(2 of 4)					
CAM	LCN	CAM	LCN				
1	17	9	25				
2	18	10	26				
3	19	11	27				
4	20	12	28				
5	21	13	29				
6	22	14	30				
7	23	15	31				
8	24	16	32				
LC	8 24 16 32 LCN:LOGICAL CAMERA NUMBER						

720 LOGT	CAL CAMER			
720 1031	CAL CALL	A NOMBER		
SWITCHE	R=SLAVE3(3 of 4)		
CAM	LCN	CAM	LCN	
1	33	9	41	
2	34	10	42	
3	35	11	43	
4	36	12	44	
5	37	13	45	
6	38	14	46	
7	39	15	47	
8	40	16	48	
LC	N:LOGICAL	CAMERA NUM	BER	

720 LOGI	CAL CAMERA	NUMBER		
SWITCHE	R=MASTER(4	of 4)		
CAM	LCN	CAM	LCN	
1		9		
2		10		
3		11		
4		12		
5		13	49	
6		14	50	
7		15	51	
8		16	52	
LC	N:LOGICAL	CAMERA NUM	BER	

Move the joystick to move the cursor.

To select parameters, press the PREV or NEXT button.

- **SWITCHER:** Select a unit (SLAVE1 to 4 and MASTER*) to configure the parameters
- * In normal connection, only MASTER is displayed.
- CAM: This stands for a camera channel of the unit.
- LCN: This stands for a logical camera number. 1 to 99 is selectable.

The factory default settings are shown in the diagrams.

When only Master is connected

CAM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Master	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

When Master and Slave 1 are connected

CAM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Slave 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Master					17	18	19	20	21	22	23	24	25	26	27	28

When Master, Slave 1 and 2 are connected

CAM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Slave 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Slave 1	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Master									33	34	35	36	37	38	39	40

When Master, Slave 1 to 3 are connected

CAM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Slave 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Slave 2	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Slave 3	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
Master													49	50	51	52

When Master, Slave 1 to 4 are connected

CAM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Slave 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Slave 2	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Slave 3	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
Slave 4	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Master																

Notes:

- When you select logical camera numbers, the setting will be automatically activated in other menus.
- Camera channels of the Master unit which connect Slave units are displayed as a space. You cannot configure the parameters.
- You can select a logical camera number for only one channel. When you enter the same number second time, the newer is activated, but the older will be changed to a space.

COMPENSATION/VD2/DATA

This menu links to the submenu.

Move the cursor and press the CAM (SET) button to go into the menu.

730 COMPENSATION/VD2/DATA will appear on the monitor.

730 COMPE	NSATI	ON/VD2	/DATA		1 of 2
SWITCHER	=SLAV	E1(1 c	of 4)		
CAM	LCN	COMP	VD2	DATA	
1	1	S	ON	ON	
2	2	S	ON	ON	
3	3	S	ON	ON	
4	4	S	ON	ON	
5	5	S	ON	ON	
6	6	S	ON	ON	
7	7	S	ON	ON	
8	8	S	ON	ON	
L	CN:LO	GICAL	CAMER	A NUMBE	R

730 COMPE	NSATT				2	of	2
/			., 2	•	-	-	-
SWITCHER	=SLAV	E1(1 c	of 4)				
CAM	LCN	COMP	VD2	DATA			
9	9	S	ON	ON			
10	10	S	ON	ON			
11	11	S	ON	ON			
12	12	S	ON	ON			
13	13	S	ON	ON			
14	14	S	ON	ON			
15	15	S	ON	ON			
16	16	S	ON	ON			
L	CN:LO	GICAL	CAMER	A NUMBE	R		

- **SWITCHER:** Select a unit (SLAVE1 to 4 and MASTER*) to configure the parameters.
- * In normal connection, only MASTER is displayed.
- **CAM:** This stands for a camera channel of the unit.
- LCN: This stands for a logical camera number. 1 to 99 is selectable.
- **COMP:** This stands for cable compensation. Select the desired setting according to the cable length.

S: Less than 400 m (1 300 ft) **M:** 400 m (1 300 ft) to 700 m (2 300 ft) **L:** 700 m (2 300 ft) to 900 m (3 000 ft)

Refer to p. 36 for available cables. The factory default setting is S.

- **VD2:** To send the VD2 timing pulse with the camera output signal, select ON. Not to send the VD2 timing pulse with the camera output signal, select OFF. The factory default setting is ON.
- **DATA:** To send the control data with the camera output signal, select ON. Not to send the control data with the camera output signal, select OFF. The factory default setting is ON.
 - * The available camera numbers will differ depending on the total number of matrix switchers.

Notes:

- When moving the joystick to ▼ at the bottom of COM-PENSATION/VD2/DATA, the monitor will display 2 of 2.
- When moving the joystick to ▲ at the bottom of COM-PENSATION/VD2/DATA, the monitor will display 1 of 2.
- Camera channels of the Master unit which connect Slave units are displayed as a space. You cannot configure the parameters.

• CAMERA/DATA1 – 4 PORT

This menu links to the submenu.

Move the cursor and press the CAM (SET) button to go into the menu.

740 CAMERA/DATA1-4 PORT will appear on the monitor.

740 CAMERA/D	ATA1-4 PORT	
SWITCHER=MA	STER(1 of 1)	
PORT	MODE	SPEED
CAMERA	CAMERA	19200bps
DATA1	TERMINAL-K1	9600bps
DATA2	TERMINAL-K2	9600bps
DATA3	TERMINAL-K3	9600bps
DATA4	PS-DATA	9600bps
HDR	HDR	9600bps
SERIAL	PC	38400bps

Setting for normal connection

740 CAMERA/D	DATA1-4 PORT	
SWITCHER=MA	STER(5 of 5)	
PORT	MODE	SPEED
CAMERA	TERMINAL-K1	9600bps
DATA1	TERMINAL-K2	9600bps
DATA2	TERMINAL-K3	9600bps
DATA3	MASTER-SLAVE	38400bps
DATA4	PS-DATA	9600bps
HDR	HDR	9600bps
SERIAL	PC	38400bps

Master unit setting for Master-Slave connection

740 CAMERA/D	ATA1-4 PORT	
SWITCHER=SI	AVE1(1 of 5)	
PORT	MODE	SPEED
CAMERA	CAMERA	19200bps
DATA1	CAMERA	19200bps
DATA2	CAMERA	19200bps
DATA3	CAMERA	19200bps
DATA4	MASTER-SLAVE	38400bps
HDR	HDR	9600bps
SERIAL		38400bps

Slave unit setting for Master-Slave connection

- **SWITCHER:** Select a unit (SLAVE1 to 4 and MASTER*) to configure the parameters.
- * In normal connection, only MASTER is displayed.

The factory default setting is same as the illustration.

- PORT: This stands for the type of a port.
 CAMERA: RS-485 Camera port
 DATA 1/2/3/4: DATA 1/2/3/4 ports
 HDR: DATA HDR port
 SERIAL: SERIAL port
- **MODE:** This stands for the operation mode of a port. **CAMERA:** Select this if a camera is connected.
 - **TERMINAL-K1/K2/K3/K4:** Select this if a terminal-mode system controller is connected.
 - **PS-DATA:** Select this if a PS·DATA system controller is connected.
 - **MASTER-SLAVE:** The port used for the master-slave connection is fixed to this parameter.

HDR: The HDR port is fixed to this parameter.

- **PC:** WJ-SX150A Administrator Console configuration and firmware update becomes available with a PC connection.
- **VCR:** Select this if a time-lapse VCR (Panasonic model) is connected.
- ---: This port is unusable.

The following are MODE parameters assigned to each port.

Port	Master		Slave 1
	Normal connection	Master-slave connection	to 4
CAMERA	CAMERA	TERMINAL-K1/K2/ K3/K4 CAMERA	CAMERA
DATA 1	TERMINAL-K1/K2/ K3/K4 CAMERA	TERMINAL-K1/K2/ K3/K4 CAMERA	CAMERA
DATA 2	TERMINAL-K1/K2/ K3/K4 CAMERA	TERMINAL-K1/K2/ K3/K4 CAMERA	CAMERA
DATA 3	TERMINAL-K1/K2/ K3/K4 CAMERA	MASTER-SLAVE	CAMERA
DATA 4	TERMINAL-K1/K2/ K3/K4 PS·DATA	TERMINAL-K1/K2/ K3/K4 PS:DATA	MASTER- SLAVE
HDR	HDR	HDR	HDR
SERIAL	PC	PC	
	VCR	VCR	VCR

The factory default setting is same as the illustration.

SPEED: This stands for the communication speed of a port.
38400 bps*: Select this to set the speed to 38400 bps.
19200 bps: Select this to set the speed to 19200 bps.
9600 bps: Select this to set the speed to 9600 bps.
4800 bps: Select this to set the speed to 4800 bps.
* This parameter is available only for SERIAL.

The factory default setting is same as the illustration.

Notes:

- If the DATA 4 is set to PS·DATA, SPEED of PS·DATA will be changed in conjunction with that of HDR.
- When you change MODE, the default communication speed is automatically set. The SERIAL port is set to the default speed when CONTROL is changed in 600 RECORDER. (Refer to p. 71.)

The default communication speeds are shown in the diagram.

MODE	Factory default setting	
CAMERA	19200 bps	
TERMINAL	9600 bps	
PS·DATA	9600 bps	
HDR	9600 bps	
PC	38400 bps	
VCR (VTR)	9600 bps	

• RS485 CAMERA

This menu links to the submenu.

Move the cursor and press the CAM (SET) button to go into the menu. 750 RS485 CAMERA will appear on the monitor.

750 1	RS48	5 CAME	RA				
SWI	CHE	R=SLAV	E1(1 of	5)			
CAM	LCN	PORT		CAM	LCN	PORT	
1	21			9	51		
2	22			10	52		
3	23			11	53		
4	24			12	54		
5	25			13	55		
6	26			14	56		
7	27			15	57		
8	28			16	58		
	LCN	LOGIC	AL CAME	ERA 1	NUMBI	SR	

SWITCHER: Select a unit (SLAVE1 to 4 and MASTER*) to configure the parameters.

* In normal connection, only MASTER is displayed.

CAM: This stands for a camera channel of the unit. **LCN:** This stands for a logical camera number.

PORT: This stands for a port which connects the camera.

RS485: Select this when the camera is connected to the RS-485 camera port.

DATA1/2/3: Select this when the camera is connected to the DATA 1/2/3 port.

You can select the parameters only for the ports whose mode is set to "CAMERA" in 740 CAMERA/DATA1-4 PORT. (Refer to pp.74 and 75.) If the mode is set to others, a space will be displayed for PORT.

Notes:

- If five (Master and Slave 1 to 4) units are connected in the system, you can configure no parameters for MAS-TER.
- If the mode is changed to "TERMINAL-K1/2/3/4" in 740 CAMERA/DATA1-4 PORT, the PORT parameters will be deactivated even after set to RS485 or DATA1/2/3.

CAMERA CLEANING

ON: Activates the manual cleaning for the cameras. **OFF:** Deactivates the manual cleaning.

When you set CAMERA CLEANING to ON and exit from the SETUP MENU, camera cleaning will start. The factory default setting is OFF.

Notes:

- When the camera cleaning is active, cleaning will begin from CAM 1 in numerical order.
- Surveillance is impossible during the cleaning.
- The cleaning cannot be stopped after it is started.
- Refer to pp. 37 and 38 for details on RS-485 connections.
- The camera address needs to be corresponding with the camera number.

■ OPERATOR REGISTRATION

800 OPERATOR REGISTRATION										
OPERATOR NO.=1										
ID	=150 PRIORITY= 1									
PASSWO	RD =**** LEVEL = 1									
SWITCH	ER=SLAVE(1 of 5)									
CAM LCN	CAM LCN									
1 21	VIEW&CONTROL 9 51 VIEW&CONTROL									
2 22	VIEW ONLY 10 52 VIEW&CONTROL									
3 23	VIEW&CONTROL 11 53 VIEW ONLY									
4 24	VIEW ONLY 12 54 VIEW&CONTROL									
5 25	VIEW&CONTROL 13 55 VIEW&CONTROL									
6 26	VIEW&CONTROL 14 56 VIEW&CONTROL									
7 27	VIEW&CONTROL 15 57 PROHIBITED									
8 28	VIEW&CONTROL 16 58 PROHIBITED									

How to Display

To display this menu on the monitor, move the cursor to 800 OPERATOR REGISTRATION in SETUP MENU by moving the joystick to $\mathbf{\nabla}$. Then, press the CAM (SET) button. The submenu appears on the monitor.

Parameters

Move the joystick to move the cursor.

Press the NEXT or PREV button to select the desired parameters.

Press the numeric button(s) to enter a number.

• OPERATOR NO.

This stands for an operator number. When you enter the number by pressing the NEXT, PREV or numeric button(s), this menu will display the associated operator's information. 1 to 16 is available.

• ID

This stands for an operator ID. 1 to 99999 is available.

PASSWORD

This stands for an operator's password. 1 to 99999 is available. The password will be displayed as "*****" on the monitor.

PRIORITY

This stands for an operator's priority. 1 to 16 is available. (Refer to p. 15 for details on Priority Lock.)

• LEVEL

This stands for an operator's restrict level. It is configurable through Level Table (refer to p. 91) of WJ-SX150A Administrator Console what kind of restriction is given to the operator. 1 to 3 is available.

SWITCHER: Select a unit (SLAVE1 to 4 and MASTER*) to configure the parameters.

- * In normal connection, only MASTER is displayed.
- **CAM:** This stands for a camera channel of the unit.
- **LCN:** This stands for a logical camera number. 1 to 99 is selectable.

• CAM 01 to 16:

These stand for an operator's camera operation coverage. The following are the parameters.

- VIEW & CONTROL: The operator can display the camera image on the monitor and control panning/tilting.
- **VIEW ONLY:** The operator can display the camera image on the monitor, but cannot control the panning/tilting.
- **PROHIBITED:** The operator can neither display the camera image on the monitor nor control the panning/tilting.

The following is the factory default setting of this menu.

OPERATOR NO.	ID	PASSWORD	LEVEL	PRIORITY
1	150	150	1	1
2	1	12345	1	2
3	100	100	1	3
4	101	101	1	4
5	102	102	2	5
6	103	103	3	6

CAM 1 to 16 = VIEW & CONTROL (for OPERATOR NO. 1 to 6)

Note: When you enter an invalid number, the parameter will return to the state before your numerical entry.

900 MULTIPLEXER										
SWITCHER=SLAVE	SWITCHER=SLAVE1(1 of 5) Ver.*.**									
VCR REC MOD 910 ALA 920 NOR 930 DYNAMIC REC 940 DUMMY BLACK 950 CAM SW LOSS	RM EXT. MAL EXT. OFF ON									

MULTIPLE	EXER		
TCHER=M2	ASTER(5	of 5)	Ver.*.**
	ALARM		
CAM SW I	OSS		
	VCR REC DYNAMIC DUMMY BI	MULTIPLEXER TCHER=MASTER(5 VCR REC MODE ALARM NORMAL DYNAMIC REC DUMMY BLACK CAM SW LOSS	TCHER=MASTER(5 of 5) VCR REC MODE ALARM NORMAL DYNAMIC REC DUMMY BLACK

How to Display

To display this menu on the monitor, move the cursor to 900 MULTIPLEXER in SETUP MENU by moving the joystick to \blacktriangle or \blacktriangledown . Then, press the CAM (SET) button. The submenu appears on the monitor.

Parameters

Move the joystick to move the cursor.

Press the NEXT or PREV button to select the desired parameters.

SWITCHER: Select a unit (SLAVE1 to 4 and MASTER*) to configure the parameters.

* In normal connection, only MASTER is displayed.

Ver. *. **: Firmware version of a Multiplexer board

• ALARM

- **EXT.:** Select this to gen-lock the unit with the recorder when an alarm is input to the unit.
- **002,004 to 128 (field):** Select one of these alarm recording rates if the asynchronous unit is connected to the unit.

The factory default setting is EXT.

NORMAL

EXT.: Select this to gen-lock the unit during the normal operation.

002,004 to 255 (field): Select one of these normal recording rates if the asynchronous unit is connected to the unit.

The factory default setting is EXT.

DYNAMIC REC

- **PRI.:** Select this to give recording priority to the camera channel with the alarm input.
- **ONLY:** Select this to record the images from the alarmassociated camera channel.
- **GROUP:** Select this to give recording priority to a group of up to 4 camera channels associated to the alarm input.

OFF: Select this to deactivate the alarm priority mode.

The factory default setting is OFF.

DUMMY BLACK

- **ON:** Select this to display the black picture for a camera channel that is not connected to the camera.
- **OFF:** Select this to skip the camera channels that are not connected to the camera in the sequence/spot mode.

The factory default setting is ON.

• CAM SW LOSS

- **ON:** Select this to make "CAMSW LOSS R*" light up on the associated monitor when loss of the camera switching pulse is detected.
- **OFF:** Select this not to make "CAMSW LOSS R*" appear on the associated monitor when loss of the camera switching pulse is detected.

The factory default setting is ON.

Note: If EXT. is selected for 910 ALARM/920 NORMAL, the playback images cannot be displayed on the monitors which are not connected to the EXT IN connector. Confirm the images on those which are connected to the recorder.

How to Display

To display this menu on the monitor, move the cursor to 1000 MUX CAMERA TITLE in SETUP MENU by moving the joystick to \blacktriangle or \blacktriangledown . Then, press the CAM (SET) button. The submenu appears on the monitor.

How to edit

The factory default settings are same as the illustration. The editing procedure is the same as 500 CAMERA TITLE. (Refer to p. 71.)

Notes:

- Up to 8 alphanumeric characters are available for each Multiplexer board camera title.
- When moving the joystick to ▲ at the last text box of CAM 8 TITLE, the cursor will move to the first text box of CAM 9 TITLE.
- When moving the joystick to ▼ at the first text box of CAM 9 TITLE, the cursor will move to the last text box of CAM 8 TITLE.
- If five units are connected in the system, you can configure no parameters for MASTER.

WJ-SX150A ADMINISTRATOR CONSOLE

Description of WJ-SX150A Administrator Console

WJ-SX150A Administrator Console is a utility software which can configure the system settings and control data of this surveillance system.

WJ-SX150A Administrator Console can configure the following settings.

MASTER-SLAVE

- Master-Slave (p. 81)
- Logical Camera Number (p. 82)

MANAGEMENT

- Put a file to SX150A (p. 83)
- Get a Configuration Data from SX150A (p. 83)

SETUP

Sequence Settings

- Tour Sequence (p. 84)
- Group Sequence (p. 85)

Schedule Settings

- Timer Event (p. 85)
- Camera Cleaning (p. 86)
- Daylight Saving Time/Summer Time (p. 87)

Alarm Settings

- Alarm Mode (p. 88)
- Alarm Event (p. 89)
- Alarm Port (p. 90)

Operator Settings

- Operator Registration (p. 90)
- Level Table (p. 91)
- Monitor Selection (p. 92)
- Auto Login/Logout (Auto Log-in/Log-out) (p. 92)

System Settings

- Time & Date (p. 93)
- Cable Compensation/VD2/DATA (p. 94)
- Camera Title (p. 94)
- Data Port (p. 96)
- Recorder (p. 97)
- Multiplexer Mode (p. 98) MUX
- Multiplexer Title (p. 100) MUX

WJ-SX150A Administrator Console

- New (p. 101)
- Select Setup Data File (p. 101)
- Account Manager (p. 101)
- Communication Port (p. 102)

Trademarks

- IBM is a trademark of International Business Machines Corporation.
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- VD2 is the original synchronization system of Matsushita Electric Industrial Co., Ltd.
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Platform

To install WJ-SX150A Administrator Console, the PC should meet the following requirements.

• Hardware requirements

IBM PC or 100 % compatible, Pentium III - equivalent or higher, 128 MB RAM, 5 MB hard drive space with additional space for configuration database (.sdt) and log.

In addition, the PC must be equipped with a serial port.

- Operating system requirements
- Microsoft® Windows® 98, 98 SE, 2000, XP Professional
- Video display setting requirements
 - * High color (16 bit) or higher
 - * 800 x 600 resolution

When installing in the default system setting, the software is installed in the following directory:

C: \Program Files\Panasonic\SX150A

Installation/Uninstallation

Installation

Insert the CD-ROM program disk into the CD-ROM drive on the PC. The file is located in the following directory.

E: \Admin\Setup.exe

Double-click "Setup.exe" to begin the installation. Respond to the dialog boxes by following the directions given.

Uninstallation

- 1. Select "Start" "Settings" "Control Panel".
- 2. Click on the "Add/Remove Hardware" button.
- 3. Select WJ-SX150A Administrator Console and click on "Add/Remove".
- 4. Operate according to the direction in the window.

Before Using WJ-SX150A Administrator Console

- Select "Start" "Program" "Panasonic" "WJ-SX150A Administrator Console x.xx*" or double-click the "WJ-SX150A Administrator Console x.x" icon on the desktop.
 *x.xx is a version number.
- 2. When you launch WJ-SX150A Administrator Console for the first time, the following window will appear on the PC screen.

Select "Yes".

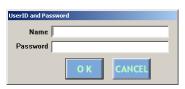
Startup Menu	
Is this system	n used in United States?
	C Yes C No
	C No
OK	CANCEL
	CANCEL

 $\rightarrow \! \text{The}$ selection will be memorized to WJ-SX150A Administrator Console while launching it.

Note: To change the selection you have done in the "Startup Menu" window, restart the WJ-SX150A Administrator Console while holding down the SHIFT key on the PC keyboard.

• Startup/Termination

- Select "Start" "Program" "Panasonic" "WJ-SX150A Administrator Console x.xx*" or double-click the "WJ-SX150A Administrator Console x.x" icon on the desktop.
- * x.x: Software version



 \rightarrow The User ID and Password Required window will appear on the PC screen.

2. Enter "admin" and "sx150" in the boxes "Name" and "Password" respectively.

Then, click on the OK button.

UserID and Pas	sword	
Name	admin	
Password	****	
	ОК	CANCEL

 ${\rightarrow}\text{WJ-SX150A}$ Administrator Console starts up and the main window will appear on the PC screen.

EXIT button Minimizing button										
W WJ-SXT SUA Administrator Console [C:\Program Tiles\Panasonic\SXT SUA(SetUp01suk] WJ-SXT50A Administrator Console MASTER-SLAVE SETUP										
	SEQUENCE	four	Group							
	SCHEDULE		৻ঢ়	0 ?,						
	ALARM	Mode	Event	Port						
SX150A	OPERATOR		Level							
	C) (CTT)	\odot	SX150A	Title						
SX150A 🔶 🛄	SYSTEM	HD	Mode	MUX Title						
	Panas	onic								

- 3. When terminating the software, click on the EXIT button or press the ESC button on the PC keyboard. The main window will close and WJ-SX150A Administrator Console will be terminated.
- **Note:** The operator name and password are changeable. Operator addition is also available. The configuration of each operator name, password and level are necessary. (Refer to p. 101 Account Manager.)

The Main Window

This window appears when starting up WJ-SX150A Administrator Console.

Clicking on each button in the window will display the associated configuration window.

Refer to the description of each window for details.



MASTER-SLAVE

(Master-Slave):

Master-Slave window (p. 81)

(Logical Camera Number)

Logical Camera Number window (p. 82)

MANAGEMENT

sx150A 4 🔜 (Put to SX150A):

Put a file to SX150A window (p. 83)

(Get from SX150A):

Get a Configuration Data from SX150A window (p. 83)

SEQUENCE

 (Tour Sequence): Tour Sequence window (p. 84)
 (Group Sequence): Group Sequence window (p. 85)

SCHEDULE

(Timer Event): Timer Event window (p. 85)

(Camera Cleaning):

Camera Cleaning window (p. 86)

(Daylight Saving Time/Summer Time):

Daylight Saving Time/Summer Time window (p. 87)

ALARM

(Alarm Mode):

Alarm Mode window (p. 88) (Alarm Event):

Alarm Event window (p. 89)

(Alarm Port):

Alarm Port window (p. 90)

OPERATOR

B

 (Operator Registration): Operator Registration window (p. 90)
 (Level Table): Level Table window (p. 91)
 (Monitor Selection):

Monitor Selection window (p. 92) (Auto Login/Logout):

Auto Login/Logout window (p. 92)

SYSTEM



(Multiplexer Mode): <u>MUX</u> Multiplexer Mode window (p. 98) (Multiplexer Title): <u>MUX</u>

Multiplexer Title window (p. 100)

In addition, the main window has the following buttons.



(Communication Port):

Communication Port window (p. 102)

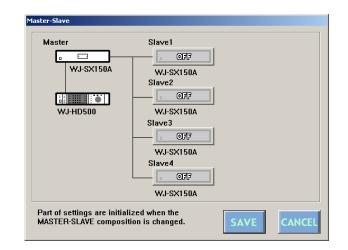
Panasonic (Panasonic):

Opens the version information window of WJ-SX150A Administrator Console. Clicking on "OK" button will close the window.

Note: To reflect each configuration to the system, save the file by pressing the SAVE button before closing the window. After that, be sure to put the file from the PC to the unit.

Master-Slave

This window configures the composition of master-slave connection. Recorders selected in the Recorder window (p. 97) are activated/deactivated in the Master-Slave window.



How to Display

To display this window, click on the **rational (Master-Slave)** button in the main window (p. 80).

How to Display

Master

The Master unit and the connected recorder are displayed.

Slave

Slave units and connected recorders are displayed. To activate/deactivate Slave units, click the ON/OFF button of a desired Slave unit. When Slave units are set to ON, their unit names become selectable in SETUP MENU to configure the parameters.

SAVE (Save Exit) button

Saves the configuration and closes the Master-Slave window.

CANCEL (Cancel Exit) button

Cancels the configuration and closes the Master-Slave window.

Notes:

- If you configure the master-slave composition, settings concerning LCN (logical camera number) and Multiplexer Title (refer to p. 100) will be changed. When you click on the Save Exit button, a message window will appear to confirm you the change.
- In WJ-SX150A Administrator Console, camera channels of the Master unit which are connected to MONITOR OUT 1/2/3/4 of Slave units are displayed in gray. You cannot configure the parameters.

Logical Camera Number

This window configures logical camera numbers assigned to camera channels of each unit. During operation, logical camera numbers are used for camera control and monitor display.

Logical Camer	a Number				
Master					
L	ogical Camer	a Number	Lo	gical Camera	Number
CAM1	1	-	CAM9	9	•
CAM2	2	•	CAM10	10	•
САМЗ	3	•	CAM11	11	•
CAM4	4	•	CAM12	12	•
CAM5	5	•	CAM13	13	•
САМБ	6	•	CAM14	14	•
CAM7	7	•	CAM15	15	•
CAM8	8	•	CAM16	16	•
				SAVE	CANCEL

To display this window, click on the 🖳 (Logical Camera Number) button in the main window (p. 80).

• How to Display

• CAM 1 to 16

This stands for a camera channel of the unit.

Logical Camera Number

Click on each drop-down menu to select a desired logical camera number. 1 to 99 is selectable. For camera channels without camera connections, select "- -".

SAVE (Save Exit) button

Saves the configuration and closes the Logical Camera Number window.

CANCEL (Cancel Exit) button

Cancels the configuration and closes the Logical Camera Number window.

Notes:

- If logical camera numbers are not selected, the cameras' LCNs are not displayed in each window of SETUP MENU and WJ-SX150A Administrator Console.
- You can select a logical camera number for only one channel. When you select the same number more than one time, a message will appear. The message will notify you that the number has been already used. If you click on "Yes", the newer will be activated and the older will be changed to "- -". If you click on "No", the changed parameters will return to the former state.
- If five units (Master and Slave 1 to 5) are connected in the system, you cannot select logical camera numbers for Master.

Put a file to SX150A

Pressing this button will start the putting of the configuration file from the PC to the unit.



How to Display

To display this window, click on the SX150A (Put to SX150A) button in the main window (p. 80).

Parameters

The file name of the configuration data appears.

ok (OK) button

To put the configuration file from the PC to the unit, click on this button.

CANCEL (Cancel Exit) button

To cancel the putting of the configuration file from the PC to the unit, click on this button.

Notes:

- The setup file has been configured at the factory, and the file names appear on the main window's title bar.
- Put the file from the PC to the unit when the time with no necessary to the continuous system operation, such as after-hours. After the file putting, the system will automatically restart. Then, the system controllers will temporarily log out.
- To change a file, select a file again. (Refer to p. 101 Select Setup Data File.)
- The configuration file cannot be put to the unit while opening SETUP MENU.
- It takes a few seconds to put a file to SX150A, and you might assume the PC has been freezing.
 Wait until the message "Completed!" appears on the

PC is incorrectly connected to the unit. Confirm the settings of WJ-SX150A Administrator Console and retry the file putting.

(Refer to p. 74 CAMERA/DATA 1-4 PORT and p. 102 Communication Port.)

Get a Configuration Data from SX150A

Pressing this button will start the getting of the configuration data from the unit to the PC.

Ge	Get a Configuration Data from SX150A								
	SX150A	->	\SX150A\SetUp01.sdt						
O K CANCEL									

How to Display

To display this window, click on the SX150A) button in the main window (p. 80).

Parameters

The file name of the configuration data appears.

ok (OK) button

To get the configuration data from the unit to the PC, click on this button.

CANCEL (Cancel Exit) button

To cancel the getting of the configuration data from the unit to the PC, click on this button.

Notes:

- The configuration data getting is also possible during the surveillance, for it will not interfere with the system operation.
- The past data will be overwritten when getting a new configuration data.
- To change the getting directory, select it. (Refer to p. 101 Select Setup Data File.)
- When the file getting has been successfully executed, "Completed!" will appear. If "Connection Error" appears, confirm the connection and the serial port setting of the PC and the unit. (Refer to p. 74 CAMERA/DATA 1-4 PORT and p. 102 Communication Port.) If "Failed!" appear, retry the file getting.

Tour Sequence

This window configures the parameters of tour sequences: the operating camera, dwell time*, preset position** in each step.

Each sequence has up to 64 steps, and up to 32 sequences are configurable.

The configuration of a tour sequence can be copied to another one.

- * the display time of a camera image
- ** the panning/tilting position which has been preset in advance

Notes:

- Enter the parameters from Step 1 in a sequential order. If you skip a step, it will result in an error.
- After selecting a camera number, be sure to select the dwell time, too. If you skip either of them, the message requesting the parameter entry will appear.

Tour Sequenc	e											
Tour01	Tour01 💌											
Step1-16	Step	17-3	32 Step:	33-48	Ste	ep49-64						
	LCN		Preset	Dwell	[S]			LCN		Preset	Dwell	[S]
Step 1	1	•	- 🔻	2	•	Ste	:p 9	9	-		2	.
Step 2	2	•	- 🔹	2	•	Ste	p10	10	•		2	-
Step 3	3	•	- 🔹	2	•	Ste	p11	11	-	- •	2	-
Step 4	4	•	- 🔻	2	•	Ste	p12	12	•	- 💌	2	J
Step 5	5	-	- 🔹	2	•	Ste	p13	13	-	- 🔻	2	•
Step 6	6	•	- •	2	•	Ste	p14	14	-		2	•
Step 7	7	•	- 💌	2	•	Ste	p15	15	-		2	-
Step 8	8	•	- 🔻	2	•	Ste	p16	16	-	- 💌	2	•
LCN:Logical Camera Number												
LUNLU	igical		nera Nul	IDCI						_	_	
Î			G					SA	v	E	CAN	CEL

How to Display

- To display this window, click on the (Tour Sequence) button in the main window (p. 80). Or click on the (Tour Sequence) button in the Group Sequence window.
- 2. To select Tour 1 to 32, click on a desired drop-down menu in the Tour Sequence window.
- 3. After configuring 16 steps, click on a tab followed by next 16 steps.

Parameters

LCN

Selects the operating camera in each step.

The camera is selectable from LCN 1 to 99. After selecting LCN, select the time for Dwell.

Note: Configure Step 1 to the last step in a sequential order. If there is a skipped step whose LCN and/or Dwell is "- -", that may cause an error. Then, the message will appear to ask you to select both LCN and Dwell.

Preset

Selects the preset position of the operating camera. The preset position is selectable from Preset 1 to 64.

Note: Refer to p. 109 Program Preset Position for details of how to program preset positions.

Dwell

Selects the dwell time of the operating camera.

The dwell time is selectable from 1 to 30 seconds (by a second). Set "--" for Dwell when you have selected "--" for Cam.

(DELETE) button

Deletes the configuration of all the steps of the selected tour sequence.

[] (COPY) button

Copies the configuration of all the steps of the selected tour sequence to the another tour.

(PASTE) button

Pastes the cut or copied configuration to another tour sequence.

SAVE (Save Exit) button

Saves the configuration and closes the Tour Sequence window.

CANCEL (Cancel Exit) button

Cancels the configuration and closes the Tour Sequence window.

Group Sequence

This window configures the parameters of group sequences.

Each group sequence has up to 4 tour sequences which are assigned to the monitors.

Gr	oup Sequ	ence							
	Group	Four —							
		Mon 1		Mon 2		Mon 3		Mon 4	
	Grp 1	Tour 1	•	Tour 2	•	<u> </u>	-	<u> </u>	-
	Grp 2	<u> </u>	•						
	Grp 3	<u> </u>	•						
	Grp 4		•	<u> </u>	•	<u> </u>	•	<u> </u>	•
	SAVE CANCEL								

Timer Event

This window configures the parameters of timer events: the schedule (daily, weekly or monthly) and action.

Up to 50 events are configurable.

tour sequence or spot mode is selectable.

mer Event							
Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8 🔳
🗆 Enab	le						
Sched	ule Mode						
<u>v</u>	Daily	Hour	0 🔺	Minute	0 🚣		
	Weekly		_		_		
Г	Monthly						
Action	Tour Sequ	ience	Mo	in 1 💌	Tour 1	Y	
	Spot Cam	era					
LCN:Lo	gical Cam	era Numbo	er			SAVE	CANCEL

How to Display

To display this window, click on the 🤯 (Group Sequence) button in the main window (p. 80).

Parameters

Mon 1 - Mon 4

Selects the tour sequence displayed on each monitor.

(Tour Sequence) button

Displays the Tour Sequence window for the tour sequence configuration.

SAVE (Save Exit) button

Saves the configuration and closes the Group Sequence window.

CANCEL (Cancel Exit) button

Cancels the configuration and closes the Group Sequence window.

How to Display

To display this window, click on the (Timer Event) button in the main window (p. 80).

Parameters

• Enable

Checking on the box will enable the configuration.

Schedule Mode Group

Check on the desired box for the timer event configuration.

Daily: To execute the event at a desired time every day, check on this boxes.

To determine the time, click on the Hour and Minute boxes.

Weekly: To execute the event at a desired time and day(s) of the week, check on this box.

To determine the time, click on the Hour and Minute boxes.

Multiple selection is available for days of the week.

Monthly: To execute the event at a desired time and day(s) of the month, check on this box.

To determine the time, click on the Hour and Minute boxes.

Action Group

Check on the desired action to execute.

Tour Sequence: Configures and executes the tour sequence according to the schedule in the Scheduled Mode group. When you have selected Tour Sequence, select the number of monitor (Mon 1 to 4) and tour (Tour 1 to 32).

Spot Camera: Executes the spot mode according to the schedule in the Scheduled Mode group. When you have selected Spot Camera, select the number of monitor (Mon 1 to 4), camera (LCN 1 to 99) and preset position (Pre 1 to 64).

SAVE (Save Exit) button

Saves the configuration and closes the Timer Event window.

CANCEL (Cancel Exit) button

Cancels the configuration and closes the Timer Event window.

Notes:

- In order to stop a scheduled event on a monitor, you need to program another event or manually select another activity. (For example, you need to select a camera or run a tour.)
- If you set more than one event with the same schedule, the event with the smallest number will be activated.

Camera Cleaning

This window configures the parameters of camera cleaning function: the schedule (daily, weekly or monthly) and cameras to be cleaned.

Schedule Mode	Hour Minute
Monthly	
Master	Cam 9 LCN 9
Cam 2 LCN 2	Cam 9 LON 9
	Cam11 LCN11
Cam 4 LCN 4	Cam12 LCN12
Cam 5 LCN 5	Cam13 LCN13
Cam 6 LCN 6	Cam14 LCN14
L Calli C LON C	
Cam 7 LCN 7	🗖 Cam15 LCN15

How to Display

To display this window, click on the General Cleaning) button in the main window (p. 80).

(Camera

Parameters

Camera Auto Cleaning

Checking on the box will enable the configuration.

Schedule Mode Group

Check on the desired box for the auto cleaning configuration.

Daily: To execute the cleaning at a desired time every day, check on this box.

To determine the time, click on the Hour and Minute boxes.

Weekly: To execute the cleaning at a desired time and day(s) of the week, check on this box.

To determine the time, click on the Hour and Minute boxes.

Monthly: To execute the cleaning at a desired time and day of the month, check on this box.

To determine the time, click on the Hour and Minute boxes.

Auto Cleaning Camera

Check on the desired camera to execute the cleaning.

SAVE (Save Exit) button

Saves the configuration and closes the Camera Cleaning window.

CANCEL (Cancel Exit) button

Cancels the configuration and closes the Camera Cleaning window.

Notes:

- When the camera cleaning is active, cleaning will begin from LCN 1 in numerical order.
- Surveillance is impossible during the cleaning.
- The cleaning cannot be stopped after it is started.

Daylight Saving Time/Summer Time

This window configures the parameters of daylight saving time.

-	April, 2012 🗾					
Sun	Mon	Tue	Wed	Thu	Fri	Sat
25	26	27	28	29	30	31
•	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	1	2	3	4	5
$\overline{\mathbf{C}}$	Today: 1/30/2002					

SAVE (Save Exit) button:

Saves the configuration and closes the Daylight Saving Time/Summer Time window.

CANCEL (Cancel Exit) button:

Cancels the configuration and closes the Daylight Saving Time/Summer Time window.

Enable			Start at 2003 -
Date Start	End	Start	End
2003/04/06	- 2003/10/26 -	2013/04/07	· 2013/10/27 ·
2004/04/04	• 2004/10/31 •	2014/04/06	· 2014/10/26 ·
2005/04/03	• 2005/10/30 •	2015/04/05	• 2015/10/25 •
2006/04/02	- 2006/10/29 -	2016/04/03	▼ 2016/10/30 ▼
2007/04/01	• 2007/10/28 •	2017/04/02	• 2017/10/29 •
2008/04/06	• 2008/10/26 •	2018/04/01	• 2018/10/28 •
2009/04/05	• 2009/10/25 •	2019/04/07	• 2019/10/27 •
2010/04/04	• 2010/10/31 •	2020/04/05	• 2020/10/25 •
2011/04/03	• 2011/10/30 •	2021/04/04	• 2021/10/31 •
2012/04/01	• 2012/10/28 •	2022/04/03	• 2022/10/30 •
			SAVE CAN

How to Display

To display this window, click on the (Daylight Saving Time/Summer Time) button in the main window (p. 80).

Parameters

• Enable

Checking on the box will enable the configuration.

Date Group

- 1. Select the start date of the daylight saving time in the Start drop-down menu.
- 2. Select the end date of the daylight saving time in the End drop-down menu. Select a later date than the Start date. When selecting an earlier date, a message will appear.
- Note: When clicking on the ▼ button beside a drop-down menu, a calendar will pop up. To determine the start and end dates, click on the desired date on the calendar. To go to the next or previous month, click on the [◄] or [►] button and select the dates when the day-light saving time starts and ends.

Alarm Mode

This window configures the operation parameters when an alarm signal is input: an alarm mode, auto reset time and alarm input.

Al	arm Mode				
	Alarm Mode				
	O OFF		Dwell		
	Sequence Mode ->		2 sec		•
	C Hold Mode				
	Alarm Input				
	Camera	OFF		•	
	Alarm Port	ON		•	
	Serial Port	ON		•	
	Mux Motion Det	OFF		•	Sensitivity
	Auto Reset Time 30 sec			SA	VE CANCEL

How to Display

Parameters

Alarm Mode

Checking on the box of the desired alarm mode.

- **OFF:** The system operation does not change into any other mode.
- Sequence Mode: Camera images are displayed on the monitor in either the spot mode or tour sequence. When more than one alarm are input, the image associated to each alarm is displayed in the sequence mode.
 - **Note:** Click on the Dwell drop-down menu to select the dwell time.
- **Hold Mode:** Camera images are displayed on the monitor in either the spot mode or tour sequence. Even more than one alarm are input, the image associated to the initial alarm is continuously displayed.

Notes:

- The alarm mode is activated when alarm input signals are assigned to the same monitor through 420 ALARM EVENT or the Alarm Event (refer to pp. 67 and 68/ p. 89) window.
- While alarm is activated, you cannot operate the functions related to the Multiplexer board.

Alarm Input Group

Select the alarm input to be accepted. Multiple Selection is available.

Camera

This stands for that an alarm input is accepted via the CAMERA IN connectors or the RS-485 ports.

- **ON:** The alarm-associated sequence/spot image is displayed on a monitor, and alarm recording will start (if a recorder is connected to the unit).
- **REC ONLY:** Only an alarm recording will start and monitors will keep displaying the current sequence/ spot images.
 - **Note:** You cannot recover alarm-related operations from system controllers when REC ONLY is selected.
- **OFF:** An alarm input is accepted neither via the CAM-ERA IN connectors nor the RS-485 ports.

The factory default setting is OFF.

Alarm Port

This stands for that an alarm input is accepted via the ALARM port (25-pin D-sub connector) at the rear panel.

- **ON:** The alarm-associated sequence/spot image is displayed on a monitor, and alarm recording will start (if a recorder is connected to the unit).
- **REC ONLY:** Only an alarm recording will start and monitors will keep displaying the current sequence/ spot images.
 - **Note:** You cannot recover alarm-related operations from system controllers when REC ONLY is selected.
- **OFF:** An alarm input is not accepted via the ALARM port.

The factory default setting is ON.

Serial Port

This stands for that an alarm input is accepted via the SERIAL port.

- **ON:** The alarm-associated sequence/spot image is displayed on a monitor, and alarm recording will start (if a recorder is connected to the unit).
- **REC ONLY:** Only an alarm recording will start and monitors will keep displaying the current sequence/ spot images.
 - **Note:** You cannot recover alarm-related operations from system controllers when REC ONLY is selected.
- **OFF:** An alarm input is not accepted via the SERIAL port.

The factory default setting is ON.

- **MUX MOTION DET MUX**: This stands for that the unit's motion detector is activated. When a camera detects the brightness-level change and transmit an alarm signal, the alarm-associated sequence/spot image is displayed on a monitor, and alarm recording will start (if a recorder is connected to the unit).
- **ON:** The alarm-associated sequence/spot image is displayed on a monitor, and alarm recording will start (if a recorder is connected to the unit.)
- **REC ONLY:** Only an alarm recording will start and monitors will keep displaying the current sequence/spot images.
 - **Note:** You cannot recover alarm-related operations from system controllers when REC ONLY is selected.
- **OFF:** An alarm input is not accepted by the motion detector.

The factory default setting is OFF.

Sensitivity: When you click this button, the Sensitivity window will appear.

• Sensitivity MUX

When you press this button, the Sensitivity window will appear. In this window, you can configure the sensitivity level of the Multiplexer motion detector on each camera channel.

Master			
Carn 1 LCN 1	LOW 💌	Cam 9 LCN 9	LOW 💌
Cam 2 LCN 2	LOW 💌	Cam10 LCN10	LOW 💌
Cam 3 LCN 3	LOW 💌	Cam11 LCN11	LOW 🔻
Cam 4 LCN 4	LOW 💌	Cam12 LCN12	LOW 💌
Cam 5 LCN 5	LOW 💌	Cam13 LCN13	LOW 🔹
Cam 6 LCN 6	LOW 💌	Cam14 LCN14	LOW 💌
Cam 7 LCN 7	LOW 💌	Cam15 LCN15	LOW 💌
Carn 8 LCN 8	LOW 💌	Cam16 LCN16	LOW -
LCN:Logical Car	noro Numbor		

OFF: The motion detector is not activated on the camera channel.

LOW: The sensitivity level is low.

MID: The sensitivity level is medium.

HIGH: The sensitivity level is high.

The factory default setting of all the channels is LOW.

Auto Reset Time

Select the time to reset the alarm input. The selectable time: OFF (not resetting the alarm), 10, 20, 30, 40, 50, 60, 120 or 180 (seconds) The factory default setting is 30 sec.

SAVE (Save Exit) button

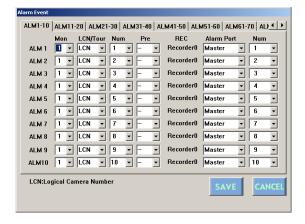
Saves the configuration and closes the Alarm Mode window.

CANCEL (Cancel Exit) button

Cancels the configuration and closes the Alarm Mode window.

Alarm Event

This window configures the details of operation parameters when an alarm signal is input: the monitor and mode to display the alarm image, and the preset position of the camera. Up to 99 alarm inputs are configurable.



How to Display

Parameters

Mon (Monitor)

Select the monitor to display the alarm image.

LCN/Tour

Select the spot camera number or the tour sequence number.

LCN: Select this to display a spot picture.

Tour: Select this to execute a tour sequence.

Num: Select a LCN or Tour number. For LCN, 1 to 99 is selectable. For Tour, 1 to 32 is selectable.

Pre (Preset Position Number)

Select the preset position of the camera when selecting the spot camera number in Spot/Tour. Position 1 to 64 is selectable for Pre. When the camera is not equipped with the preset position function, select "--".

REC

This stands for a recorder activated with an alarm signal. (Refer to the diagram in p. 68.)

Alarm Port

Select the unit whose alarm port is activated with an alarm signal. Master or Slave 1/2/3/4 is selectable.

Num

Select the alarm port number. 1 to 16 is selectable. To deactivate the alarm event, select "--".

Notes:

- If having selected a tour sequence for a monitor, another tour number or spot camera will not be available when selecting the monitor for another alarm event. That will result in an error.
- Each Alarm Port and Num can be assigned to only one ALM. When you enter the same Alarm Port and Num more than one time, a message will appear. If you click on "Yes", the newer will be activated and the older will be changed to "- -". If you click on "No", the changed parameters will return to the former state.

SAVE (Save Exit) button

Saves the configuration and closes the Alarm Event window.

CANCEL (Cancel Exit) button

Cancels the configuration and closes the Alarm Event window.

Alarm Port

This window configures the parameters of alarm inputs.

Alarm Po	ort	
Mast	er	
1	Normally Open 🔻	9 Normally Open 🔻
2	Normally Open 💌	10 Normally Open 💌
3	Normally Open 💌	11 Normally Open 💌
4	Normally Open 🔻	12 Normally Open 💌
5	Normally Open 💌	13 Normally Open 💌
6	Normally Open 💌	14 Normally Open 💌
7	Normally Open 💌	15 Normally Open 🔻
8	Normally Open 💌	16 Normally Open 💌
		SAVE CANCEL
		SAVE CANCEL

• How to Display

To display this window, click on the 🛄 (Alarm Port) button in the main window (p. 80). Parameters

Select the desired alarm input parameter to assign in each alarm port's drop-down menu.

Normally Open: Normally Open contact. Normally Close: Normally Close contact Time Adjust: Time adjustment signal

SAVE (Save Exit) button

Saves the configuration and closes the Alarm Input window.

CANCEL (Cancel Exit) button

Cancels the configuration and closes the Alarm Input window.

Operator Registration

This window configures the parameters of each operator: the ID, password, level, priority and camera access.

Note: Before configuring this window, check on the restrict level of each operation in the Level Table window.

1 3 4 5 6 Timer	Derator D Password Eevel 1 Priority 1 Y	Master Camera Access Cam 1 LCN 1 Cam 2 LCN 2 Cam 3 LCN 3 Cam 4 LCN 4 Cam 5 LCN 5 Cam 6 LCN 7 Cam 8 LCN 8 Cam 9 LCN 8 Cam 9 LCN 10 Cam 1 LCN 10	1 2 3 2 L L L L L L L L L L L L L L L L L L L
	1 : View & Control 2 : View Only 3 : Prohibited	Cam12 LCN12 Cam13 LCN13 Cam14 LCN14 Cam15 LCN15 Cam16 LCN16	

How to Display

To display this window, click on the **1** (Operator Registration) button in the main window (p. 80).

Parameters

Operator Number

This box displays a list of registered operators.

- **1-6:** These are operator numbers who are registered as the factory default setting. Operator Number 1 cannot be deleted.
- **Timer:** This operator is used for the priority change of a timer event. When the timer event's priority is higher than that of an operator, the event is valid. When an operator's priority is higher than that of a timer event, the event is invalid. This operator cannot be deleted.

Add Operator Number

This drop-down menu is used for the new operator number selection. 7 to 16 can be added.

• Operator Group

This group configures each operator's password, level and priority.

- ID: Enter an operator's ID. From 1 to 99999 are available.
- **Password:** Enter a password. From 1 to 99999 are available.
- **Level:** Select 1, 2 or 3. Refer to Level Table for details on level setting.
- **Priority:** Select the operator's priority from 1 (highest) to 16 (lowest).

Camera Access Group

This group configures the camera operation coverage of each operator.

Click on each camera's checkboxes and determine the available operation.

- 1 (View & Control): The operator can display the camera image on the monitor and control panning/tilting.
- 2 (View Only): The operator can display the camera image on the monitor, but cannot control the panning/tilting.
- **3 (Prohibited):** The operator can neither display the camera image on the monitor nor control the panning/tilting.

[] (Add) button

Adds a new operator to WJ-SX150A.

🛃 (Edit) button

The registered parameters become editable by clicking on this button after selecting the operator number.

(Delete) button

Deletes an operator from WJ-SX150A after you select the operator.

ok (OK) button

Saves the configuration and closes the Operator Registration window.

Level Table

This window configures the restrict level of each operation. The restrict level is classified in Level 1, 2, and 3.

Permission	123
SX150A Setup	ΓŪΝ
Camera Setup	
Program Preset Position	
Camera Control	
Camera Selection	~ ~ ~
Recorder Setup	
Recorder Control	
All Alarm Reset	
Single Alarm Reset	
Alarm Suspend	
Call Sequence	
Alarm History Display	
Video Loss History Display	
System Status Display	
OSD Control	
SAVE	CANCE

How to Display

To display this window, click on the **the closed** (Level Table) button in the main window (p. 80).

Parameters

Permission

Click on each checkbox to classify the following operations by three levels.

SX150A Setup: Setting up this matrix switcher system **Camera Setup:** Setting up the cameras

Program Preset Position: Registering a camera's preset position

Camera Control: Controlling a camera Camera Selection: Selecting a camera Recorder Setup: Displaying the recorder's setup menu Recorder Control: Controlling the recorder All Alarm Reset: Resetting all the alarms Single Alarm Reset: Resetting an alarm Alarm Suspend: Suspending an alarm Call Sequence: Activating a tour or group sequence Alarm History Display: Displaying the alarm history Video Loss History Display: Displaying the video loss history

System Status Display: Displaying the system status OSD Control: Controlling on-screen display (Time and date, monitor status, camera title, and event)

SAVE (Save Exit) button:

Saves the configuration and closes the Level Table window.

CANCEL (EXIT) button

Cancels the configuration and closes the Level Table window.

Monitor Selection

This window determines whether a system controller or PC can select a monitor.

1onitor Selection				
	Mon1	Mon2	Mon3	Mon4
Terminal_K1	OK 👻	0К 💌	0К 💌	0К 🝷
Terminal_K2	0К 💌	ОК 🔻	0К 💌	0К 🝷
Terminal_K3	0К 💌	ОК 🔻	0К 🝷	0К 🔻
Terminal_K4	0К 💌	0К 🔻	0К 🔻	0К 🔻
PC	0К 💌	0К 🔻	0К 🔻	0К 🔻
		_		
			SAVE	CANCEL
		_		

How to Display

To display this window, click on the (Monitor Selection) button in the main window (p. 80).

Parameters

Select OK to permit each controller and the PC to control Monitor 1 to 4.

Select NG to restrict each controller and the PC to control Monitor 1 to 4.

SAVE (Save Exit) button

Saves the configuration and closes the Monitor Select window.

CANCEL (Cancel Exit) button

Cancels the configuration and closes the Monitor Select window.

Auto Login/Logout (Auto Login/Log-out)

This window configures the auto log-in/log-out parameter of each data port.

An operator is selectable for auto log-in function.

Auto Login/Logout	
Auto Login Operator ID	Auto Logout
Terminal_K1 🗌 150 💌	Terminal_K1 🔲 5 🔄 minute
Terminal_K2 🗖 150 👻	Terminal_K2 🔲 5 🔄 minute
Terminal_K3 🗹 🚺 🔽	Terminal_K3 🔲 5 🔄 minute
Terminal_K4 🗖 150 💌	Terminal_K4 🗖 5 🕝 minute
	SAVE

The log-out time is selectable for auto log-out function.

How to Display

To display this window, click on the file (Auto Login/ Logout) button in the main window (p. 80).

Parameters

Auto Login Box

Click on the checkboxes Terminal_K1 to K4 to select an operator for auto log-in. Then, select an operator ID. It will be the log-in ID of the system controller connected to the data port.

Auto Logout Box

Click on the checkbox of the data port connecting the system controller for auto log-out. Then, select the elapsed time for auto log-out.

SAVE (Save Exit) button

Saves the configuration and closes the Auto Login/Logout window.

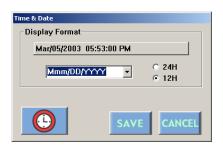
CANCEL (Cancel Exit) button

Cancels the configuration and closes the Auto Login/ Logout window.

Note: Both of auto log-in and auto log-out cannot be assigned to the same data port. Either of them is selectable.

Time & Date

This window configures the unit's clock display pattern. The unit's clock time is also adjustable.



This picture is the example for U. S. model. Out of the U. S., the display pattern is Date/Month/Year.

How to Display

To display this window, click on the (Clock) button in the main window (p. 80).

Parameters

Display Format

The current date & time is displayed.

Click on the drop-down menu and select the display pattern format.

The date display is selectable from 5 patterns.

The time display is selectable from 2 patterns (12H or 24H). The following are the display patterns:

DD/MM/YYYY...21/08/2001 MM/DD/YYYY...08/21/2001 DD/Mmm/YYYY...21/Aug/2001 YYYY/MM/DD...2001/08/21 Mmm/DD/YYYY...Aug/21/2001 The factory default setting is Mmm/DD/YYYY pattern. (Out of the U. S., the factory default setting is DD/MM/YYY.)

(Clock) button

Displays the Clock window.

SAVE (Save Exit) button

Saves the configuration and closes the Time & Date, win-

CANCEL (Cancel Exit) button

Cancels the configuration and closes the Clock Disp window.

Note: The display pattern will be updated when the setting file has been put from the PC to the unit.



This window configures the unit's clock.

The pattern of the Time & Date box depends on the setting through the Time & Date window.

Time & Date	
Time & Date	
Month Day Year Hour Minute	
3 + 5 + 2003 + 17 + 53 +	
Mar/05/2003 05:53:00 PM	

This picture is the example for U.S. model.

• How to display

To display this window, click on the _____ (Clock) button in the Time & Date window.

• Parameters

- Time & Date Box: To adjust the clock, click on the ▼ or ▲ buttons of Year, Month, Day, Hour and/or Minute
- **SX150A** (Put to SX150A) button: Changes the unit's clock time into the one which has been configured in this window.
- and closes the Clock window.
- **Note:** The clock display pattern is not updated by clicking the (Put to SX150A) button in this window. The setup file update will be necessary. (Refer to p. 83 Put a File to SX150A.)

■ Cable Compensation/VD2/DATA

This window configures the following parameters of each camera: the cable length for transmission loss compensation and whether to send the VD2 timing pulse or control data with the camera output signals.

vlaster							
	CableComp	VD2	DATA	(CableComp	VD2	DATA
Cam 1 LCN 1	S -	ON 🔻	ON 👻	Cam 9 LCN 9	S 🔻	ON 🔻	ON 🔻
Cam 2 LCN 2	S 🔻	ON 💌	ON 🔻	Cam10 LCN10	S 🔻	ON 🔻	ON 🔻
Cam 3 LCN 3	S 💌	ON 💌	ON 💌	Cam11 LCN11	S 💌	ON 💌	ON 💌
Cam 4 LCN 4	S 🔻	ON 💌	ON 💌	Cam12 LCN12	S 🔻	ON 💌	ON 🔻
Cam 5 LCN 5	S 💌	ON 🔻	ON 💌	Cam13 LCN13	S 🔻	ON 🔻	ON 💌
Cam 6 LCN 6	S 💌	ON 💌	ON 💌	Cam14 LCN14	S 🔻	ON 🔻	ON 🔻
Cam 7 LCN 7	S 💌	ON 💌	ON 💌	Cam15 LCN15	S 🔹	ON 💌	ON 💌
Cam 8 LCN 8	S 💌	ON 👻	ON 💌	Cam16 LCN16	S 🔻	ON 👻	ON 💌

How to Display

To display this window, click on the (Cable Compensation/VD2) button in the main window (p. 80).

Parameters

Cable Comp: Select the cable length for each camera.

S: Less than 400 m (1 300 ft)

M: 400 m (1 300 ft) to 700 m (2 300 ft)

L: 700 m (2 300 ft) to 900 m (3 000 ft)

VD2: To send the VD2 timing pulse with the camera output signal, select ON.

Not send the VD2 timing pulse with the camera output signal, select OFF.

DATA: To send the control data with the camera output signal, select ON.

Not send the control data with the camera output signal, select OFF.

SAVE (Save Exit) button

Saves the configuration and closes the Cable Compensation/VD2/DATA window.

CANCEL (Cancel Exit) button

Cancels the configuration and closes the Cable Compensation/VD2/DATA window.

Camera Title

This window configures the title for each camera.

Up to 20 characters (camera title + alphanumeric characters) are available for the title.

WJ-SX150A Administrator Console has the following built-in characters:

ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrs t u v w x y z 0 1 2 3 4 5 6 7 8 9 ! " # \$ % & ' () * + , - . / : ; ←=→?•_ÄÜÖÆÑÂØäüöæñâøÁÇÉÌÒÙßàáâçèéêëìííĩòóôùúû

In addition, symbols, special characters and original characters are editable in the bitmap font.

Camera Title Master Cam 1 LCN 1	- Camera
LCN:Logical Camera NumberFixed Font $A \ B \ C \ D \ E \ F \ G \ H \ A \ B \ C \ D \ E \ F \ G \ H \ A \ B \ C \ D \ E \ F \ G \ H \ A \ B \ C \ D \ E \ F \ G \ H \ A \ B \ C \ D \ E \ F \ G \ H \ A \ B \ C \ D \ E \ F \ G \ H \ A \ B \ C \ D \ E \ F \ G \ H \ A \ B \ C \ D \ E \ F \ G \ H \ A \ B \ C \ D \ E \ F \ G \ H \ A \ B \ C \ D \ E \ F \ G \ H \ A \ B \ C \ D \ E \ F \ G \ H \ A \ B \ C \ D \ E \ F \ G \ H \ A \ B \ C \ D \ E \ F \ G \ H \ A \ B \ C \ D \ E \ F \ G \ H \ A \ B \ C \ D \ E \ F \ G \ H \ A \ B \ C \ D \ E \ F \ G \ H \ A \ B \ C \ D \ E \ F \ G \ H \ A \ B \ C \ D \ E \ C \ A \ C \ C \ C \ C \ C \ C \ C \ C$	title inpu area

How to Display

To display this window, click on the . (Camera Title) button in the main window (p. 80).

Parameters

• Drop-down menu

Camera channel and logical camera number are displayed here. Select a desired camera.

Fixed Font Box

The fixed-font characters are displayed here.

SPACE: To make a space in the text-box area, click on this button.

User Font Box

The character displayed here is editable by users.

Edit Font: To display the Edit Font window, click on this button.

Insert / Revise Radio button

To insert a character in the text-box area, click on the Insert button. To revise the character there, click on the Revise button.

SAVE (Save Exit) button

Saves the configuration and closes the Camera Title window.

Note: Be sure to click on this button after editing user font characters. Otherwise, the edited characters will be canceled.

CANCEL (Cancel Exit) button

Cancels the configuration and closes the Camera Title window.

• Edit Camera Title

- 1. Select the desired camera in the drop-down menu to edit its camera title. The cursor blinks at the first block in the text box.
- 2. Click on the <- or -> button to move the cursor to the desired position.
- Click on the desired character button in the Fixed Font or User Font box. The character will be entered in the text box.
- 4. Repeat Step 2 and 3 to enter the camera title.
- 5. After the entry, click on the save (Save Exit) button. The camera title will be saved.

To Enter a Space in the Text Box

- Click on the <- or -> button to move the cursor to the desired position.
- 2. Click on the SPACE button.

To Delete a Character in the Text Box

- 1. Click on the Revise button.
- 2. Click on the <- or -> button and move the cursor to the character for deletion.
- Click on the DEL button.
 The character will be deleted from the text box.

To Revise a Character in the Text Box

- 1. Click on the Revise button.
- 2. Click on the <- or -> button and move the cursor to the character for revision.
- Click on the desired character. The character will be entered in the text box.

To Insert a Character in the Text Box

- 1. Click on the Insert button.
- Click on the <- or -> button and move the cursor to the block to enter a character.
- 3. Click on the SPACE button to enter a space.
- 4. Click on the Revise button.
- 5. Click on the desired character in the text box. The character will be inserted in the text box.

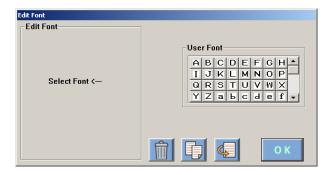
To Cancel the Entry

Click on the CANCEL (Cancel Exit) button.

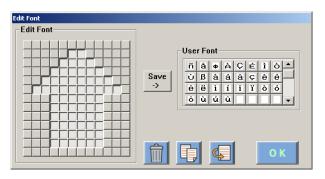
The entry will be canceled and the Camera Title window will close.

Edit Font Window

The Window Soon after Opening



The Window during the Edit



• How to Display

To display this window, click on the Edit Font button in the Camera title window.

Parameters

- **User Font Box:** The registered user font characters are displayed here. Up to 1600 characters (20 for each camera x 80) are registerable.
- Edit Font Box: The selected user font characters are displayed here in 12 x 13 dots.
- (Delete) button: Deletes an user font character.
 - 1. Click on the desired character in the User Font box.
 - 2. Click on the Delete button.
- (Copy) button / (Past) button: A user font character can be copied by clicking these buttons.
- Save -> button: The edited or deleted character is registered in the User Font box.
- **OK (OK) button:** Closes the Edit Font window.

• To Edit a User Font Character

- Click on the desired characters in the User Font box. When making a new character, click on a blank. The selected user font character are displayed here in 12 x 13 dots.
- 2. Click on or for to make a character.
 - and will appear alternately by clicking.

will change into black after the character is registered in the User Font box.

 When finishing the edit, click on the Save -> button. The edited character will be registered in the User Font box. Note: The new character has not been saved in the configuration data at this point. After closing the Edit Font window, be sure to return to the Camera Title window and click on the SAVE (Save Exit) button.

• To Copy a Character

- 1. Click on the desired character in the User Font box.
- 2. Click on the Copy button.
- 3. Click on the blank in the User Font box to copy the character.
- 4. Click the Paste button.

To Delete a Character

- 1. Click on the desired character in the User Font box.
- 2. Click on the Delete button.
- 3. Click on the Save -> button.

Data Port

This window configures the parameters of each data port (RS485, DATA 1 to 4 and DATA HDR port): the protocol, the baud rate (communication speed), and the connected cameras.

Data Port Master							
RS485	Protocol Camera	Baud R			10111213141516		
DATA1	Terminal_K1	• 9600	•				
DATA2	Terminal_K2	• 9600	•				
DATA3	Terminal_K3	• 9600	-				
DATA4	PS Data	• 9600	•	PS Data Mode	30sec 🔻		
DATA	HDR	9600	•	Logout Time Alarm Data	1sec •		
	Fixed Common Parameter Wait Time OFF Data : 8bit Parity : None Stop : 1bit Group Address						
LCN:Logica	I Camera Numbe	:r			SAVE CANCEL		

How to Display

To display this window, click on the Data Port) button in the main window (p. 80).

Parameters (Normal Connection)

Protocol

Select "Camera" when an RS-485 camera is connected to the data port. Select "Terminal_K1 to 4" when the system controller is connected to the data port.

Select PS·Data when the system controller is connected to the DATA 4 port via the PS·Data protocol. PS·Data mode will appear in the window.

Notes:

- The baud rate of DATA HDR is the same as that of PSD. When you select PSD for DATA 4, DATA HDR and its baud rate are displayed in gray and not configurable. When you select CU360C for DATA 4, DATA HDR and its baud rate are configurable.
- Terminal_K1 to 4 can be assigned to only one port.

Baud Rate

Select the desired baud rate (communication speed). 4800, 9600 or 19200 bps is selectable.

• Cam 1 to 16

Select the camera(s) connected to the RS-485 daisy chain. Data 1 to 3 are connectable to either of cameras and system controllers.

When connecting cameras to these ports, select the connected camera number(s).

PS-Data mode

This stands for the PS·Data parameters of the DATA 4 port.

- Logout Time: Select the desired operable time before logout. OFF, 30, 60, 90 or 120 sec is available.
 - The factory default setting is 30 sec.

Note: Select OFF when only PS·Data system controllers are connected.

- Alarm Data: Select the desired time to accept an alarm input signal. OFF, 0, 1 or 5 sec is available. The factory default setting is 1 sec.
- Wait Time: Select the desired wait time to transmit an alarm output signal. OFF, 100msec, 200m sec, 400m sec or 1 sec is available.
- The factory default setting is OFF. **Group Address:** This parameter is only for confirma-
- tion. Leave as it is.

• Fixed Common Parameter Group

The data bit (8 bit), parity (none), and stop bit (1 bit) are displayed. These parameters are fixed.

Parameters (Master)

RS485	Protocol Terminal_K1	۲	Baud R 9600	ate •	Cam 1 LCN	2			1121314	
DATA1	Terminal_K2	٠	9600	٠						
DATA2	Terminal_K3	٠	9600	٠						
DATA3	Master-Slave	٠	38400	٠						
DATA4	PS Data	•	9600	•				ta Mode	20	_
DATA	HDR		9600	٠			-	out Time n Data	30sec 1sec	-
	ommon Paramet bit Parity : Non		top : 1bit					Time p Address	0FF A	•

DATA 3 is used for master-slave connection. Protocol is fixed to Master-Slave and Baud Rate is fixed to 38400.

Note: Other parameters are same as normal connection.

Parameters (Slave 1 to 4)

RS485	Protocol Camera	Baud R		am 1 2 3 CN 1 2 3	4567 4567	891	0111213 0111213 	141516
DATA1	Camera	• 19200	•					
DATA2	Camera	• 19200	•					
DATA3	Camera	• 19200	•					
DATA4	Master-Slave	• 38400	•	Fixed Con				
DATA	HDR	9600	•	Data : 8bit	Parity :	None	Stop : 1bit	
SERIAL	-	38400	•					

The following are different from normal connection and Master.

- RS485, DATA1 to 3 is fixed to Camera.
- DATA 4 is used for master-slave connection. Protocol is fixed to Master-Slave and Baud Rate is fixed to 38400.
- When VCR is selected for 600 RECORDER in SETUP MENU (refer to p. 71), the Protocol of SERIAL is fixed to VCR. This parameter is activated when using a Pananonic time-lapse VCR.
- When Protocol of SERIAL is displayed as "- -", Baud Rate is set to the baud rate for firmware update. Refer to p. 58 for details.

SAVE (Save Exit) button

Saves the configuration and closes the Data Port window.

CANCEL (Cancel Exit) button

Cancels the configuration and closes the Data Port window.

Recorder

This window configures the recorder setting parameters: whether the multiplexer board is installed in the unit, what is the type of the recorder, what is the recorder unit address, and whether the gen-lock is activated.

Recorder			
Master			
	' der Control - FF ⊙ HD	500 C HD100	© HD200
Select	ion of VCR/V	TR control is in the	e OSD menu.
Unit Ad EXT IN	dress	001 GENLOCK OFF	
		,	
			SAVE CANCEL

How to Display

To display this window, click on the *(Recorder Mode)* button in the main window (p. 80).

Parameters

Recorder Control

Click on the desired radio button to determine the recorder type.

- **OFF:** Select this when no recorder is connected to the unit.
- **HD500:** Select this when a WJ-HD500 Series recorder is connected to the unit.
- **HD100:** Select this when a WJ-HD100 Series recorder is connected to the unit. **MUX**
- **HD200:** Select this when a WJ-HD200 Series recorder is connected to the unit.
- VCR/VTR: Select this when a time-lapse VCR is connected to the unit. MUX

Note: VCR/VTR is selectable only in the Slave tabs.

The factory default setting is HD500.

Unit Address

This parameter is configurable only when HD100, HD200 or HD500 is selected in the Recorder window. When OFF is selected there, this parameter is displayed in gray and not configurable. 1 to 99 is selectable. The factory default setting is 1.

Note: If you connect a time-lapse VCR to the Master unit, do the recorder setting in SETUP MENU. (Refer to RECORDER in p. 71.) If you connect a time-lapse VCR to Slave units, recorder setting is available in WJ-SX150A Administrator Console.

• EXT IN

This stands for the setting of the EXT IN connector at the unit's rear panel.

- **GEN LOCK ON:** Select this mode to gen-lock the unit with the recorder.
- **GEN LOCK OFF:** Select this mode if the asynchronous unit is connected to the recorder.

Notes:

- If GENLOCK ON is selected, the playback images cannot be displayed on the monitors which are connected to the connectors MONITOR OUT 1 to 4. Confirm the images on those which are connected to the recorder.
- If GENLOCK OFF is selected, the maximum rate recording becomes unavailable for WJ-HD500 Series.
- To use WJ-HD100 Series or a time-lapse VCR, the Multiplexer board should be installed inside the unit.
- When the master-slave connection is applied, the Slave tab will appear in the Recorder window. VCR/VTR will be selectable besides other parameters.

Multiplexer Mode MUX

Still Display DN - Border Color WHITE - Quad Shift OFF - Secret View OFF - MON 1 - Sequence Mode C 3+1 Dwell	Title Display Clock Display Normal REC Mode Alarm REC Mode	0N ¥ 0N ¥ ° EXT ° INT 002 ¥
Camera SW Loss ON Y	Dynamic REC	OFF

How to Display

To display this window, click on the . (Multiplexer Mode) button in the main window (p. 80.)

Parameters

Multi Monitor Out Group

Still Display: Select the desired setting by clicking on the drop-down menu.

- **ON:** Still picture is available during the multiscreen display.
- **OFF:** Still picture is not available during the multiscreen display.

The factory default setting is ON.

Border Color: Select the desired setting by clicking on the drop-down menu. This setting will determine the color of the border which separates each multi-screen segment.

WHITE: The border will be displayed in white. GRAY: The border will be displayed in gray. BLACK: The border will be displayed in black. OFF: No border will be displayed.

The factory default setting is WHITE.

Quad Shift: Select the desired setting by clicking on the drop-down menu.

ON: Camera images are displayed in 4 multiscreen segments (quad) and switched as follows:

- 4A = Page 1 of the quad (Camera 1, 2, 3 and 4)
- 4B = Page 2 of the quad (Camera 5, 6, 7 and 8)

4C = Page 3 of the quad (Camera 9, 10, 11 and 12)

4D = Page 4 of the quad (Camera 13, 14, 15 and 16)

OFF: Quad is unavailable.

The factory default setting is OFF.

- Secret View: Select the desired setting by clicking on the drop-down menu.
 - **ON:** The adjoining drop-down menu becomes also active so that you can designate the desired monitor (MON 1 to 4) for the secret view function. If you designate MON 1 in the drop-down menu, black image will be displayed in a segment of multiscreen monitor, instead of the spot image of camera channel activated in MON 1.
 - **OFF:** Secret view function is unavailable.

The factory default setting is OFF.

- **Sequence Mode:** Select the sequence type by clicking on the radio button.
 - **Quad:** Multiplexer sequence is activated. The monitor display will be changed as $4A \rightarrow 4B \rightarrow 4C \rightarrow 4D$.
 - **3+1:** Images are displayed in 4 multiscreens, and the images of Camera 4 to 16 are displayed in the sequence mode, at the right bottom of the monitor. The images of Camera 1 to 3 are fixed. (Refer to the left-side illustration in p. 20.)
 - **8+1:** Images are displayed in 9 multiscreens, and the images of Camera 9 to 16 are displayed in the sequence mode, at the right bottom of the monitor. The images of Camera 1 to 8 are fixed. (Refer to the right-side illustration in p. 20.)

The factory default setting is Quad.

Dwell: The dwell time of the selected sequence mode is selectable. 2S to 30S is available.

The factory default setting is 2S.

REC OUT Group

Title Display: Select the desired setting by clicking on the drop-down menu.

- **ON:** The camera title is displayed on the recorded image.
- **OFF:** The camera title is not displayed on the recorded image.

The factory default setting is ON.

- **Clock Display**: Select the desired setting by clicking on the drop-down menu.
 - **ON:** The date and time are displayed on the recorded image.
 - **OFF:** The date and time are not displayed on the recorded image.

The factory default setting is ON.

Normal Group

- **REC Mode:** Select the desired setting by clicking on the radio button.
 - **EXT:** Select this to gen-lock the unit during the normal recording.

INT: Select this if the asynchronous unit is connected to the unit. When it is activated, the dropdown menu becomes also active so that you can select the desired normal recording rate. 002, 004 to 255 (field) are selectable.

The factory default setting is EXT.

Alarm Group

- **REC Mode:** Select the desired setting by clicking on the radio button.
 - **EXT:** Select this to gen-lock the unit during the alarm recording.
 - **INT:** Select this if the asynchronous unit is connected to the unit. When it is activated, the dropdown menu becomes also active so that you can select the desired normal recording rate. 002, 004 to 128 (field) are selectable.

The factory default setting is EXT.

- **DYNAMIC REC:** Select the desired setting by clicking on the drop-down menu.
 - **ALM-PRI:** Select this to give recording priority to the camera channel with the alarm input.
 - **ALM-ONLY:** Select this to record the images from the alarm-associated camera channel.
 - **GROUP:** Select this to give recording priority to a group of up to 4 camera channels associated to the alarm input. When you select this, the Group Setting button becomes active. By pressing the button, the Mux Alarm Group window will be displayed so that you can configure the Group 1 to 16 parameters. (Refer to p. 100 Mux Alarm Group.)
 - **OFF:** Select this to deactivate the alarm priority mode.

The factory default setting is OFF.

System Group

Camera SW Loss: Select the desired setting by clicking on the drop-down menu.

- **ON:** "CAM SW LOSS" will blink on the associated monitor when loss of the camera switching pulse is detected.
- **OFF:** "CAM SW LOSS will not appear on the monitor.

The factory default setting is ON.

- **Dummy Black:** Select the desired setting by clicking on the drop-down menu.
 - **ON:** The black image will be displayed for a camera channel that is not connected to the camera.
 - **OFF:** The camera channel will be skipped in the sequence/spot mode.

The factory default setting is ON.

SAVE (Save Exit) button

Saves the configuration and closes the Multiplexer Mode window.

CANCEL (Cancel Exit) button

Cancels the configuration and closes the Multiplexer Mode window.

Mux Alarm Group

Mux Alarm Gr	1ux Alarm Group						
Group1 -	Group1 - Group8 Group9 - Group16						
Group1	Cam 1 LCN 1	• –	• –	• –	•		
Group2	Cam 2 LCN 2	• –	• —	-	-		
Group3	Cam 3 LCN 3	-	-	-	•		
Group4	Cam 4 LCN 4	-	- I	- 1	•		
Group5	Cam 5 LCN 5	-	- I	- 1	•		
Group6	Cam 6 LCN 6	-	- I	- 1	•		
Group7	Cam 7 LCN 7	-	- I	- 1	•		
Group8	Cam 8 LCN 8	-	- I	-	•		
LCN:Logic	al Camera Numbe:	r		SAVE	CANCEL		

This is a submenu of the Multiplexer window. In this window, up to 4 cameras are given recording priority for each alarm input.

- Click a drop-down menu to assign the camera numbers (1 to 16) to each alarm group (Group1 to 16). The factory default setting is same as the illustration.
- To configure Group 9 to 16, click on the Group 9 Group 16 tab.

SAVE (Save Exit) button

Saves the configuration and closes the Mux Alarm Group window.

CANCEL (Cancel Exit) button

Cancels the configuration and closes the Mux Alarm Group window.

■ Multiplexer Title MUX

am 1 LCN 1	CØ1	Cam 9 LCN 9	C@9
Cam 2 LCN 2	C02	Cam10 LCN10	C 1 Ø
Cam 3 LCN 3	C03	Cam11 LCN11	C 1 1
Cam 4 LCN 4	C @ 4	Cam12 LCN12	C 1 2
Cam 5 LCN 5	C Ø 5	Cam13 LCN13	C 1 3
Cam 6 LCN 6	C@6	Cam14 LCN14	C 1 4
Cam 7 LCN 7	C Ø 7	Cam15 LCN15	C 1 5
Cam 8 LCN 8	C Ø 8	Cam16 LCN16	C16
		LCN:Logi	cal Camera Number
Font			
		K L M N O P	
		ef 9hij z0123	k I M n 4 5 6 7
891			/ : : + -

How to Display

To display this window, click on the (Multiplexer Title) button in the main window (p. 80.)



The factory default settings are same as the illustration. To edit the desired camera's title, click on the associated button (Cam 1 to Cam 16).

The subsequent editing procedure is the same as Camera Title. (Refer to p.94.)

Notes:

The characters available here are the following: ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrs

```
t u v w x y z 0 1 2 3 4 5 6 7 8 9 ! " # $ % & ' ( ) * + , -
./:;"=Æ?oÄÜÖÆÑÃØäüöæñãø
```

- Up to 8 alphanumeric characters are available for the Multiplexer board camera title.
- You cannot edit a user font character.

SAVE (Save Exit) button

Saves the configuration and closes the Multiplexer Title window.

CANCEL (Cancel Exit) button

Cancels the configuration and closes the Multiplexer Title window.



Ne	y	
	Input file name	
	File Name Files of type *.sdt	
	O K CANCEL	

How to Display

To display this window, click on the (New) button in the main window (p. 80).

Parameters

This window is used for new file creation. **File Name:** Enter a desired name for a new file. **Files of type:** The file extension is displayed here.

ok (OK) button

Saves the configuration and closes the New window.

CANCEL (Cancel Exit) button

Saves the configuration and closes the New window.

Select Setup Data File

The setup file is selectable by pressing this button. Refer to the operating instructions of Windows[®] for details on how to copy a data.

How to Display

To display this window, click on the (File Open) button in the main window (p. 80).

Parameters

The location, name and type of the setup file appear in this window.

File Name Input Area: Displays the selected file's name.

Open button: Opens the selected file.

Cancel button: Cancels the operation and closes the Select Setup Data File dialog box.

ok (OK) button

Saves the configuration and closes the New window.

Saves the configuration and closes the New window.

Account Manager

This window configures the parameters of the operators who can control WJ-SX150A Administrator Console: the registration, edit and deletion of an operator.

The window soon after opening

Account Manager	
Accounts	Account Record
admin	Name admin
	admin Password tevel No Restriction
	ОК

The window during the edit

Account Manager	
Accounts	Account Record
admin	Name
	Password
	Level
	No Restriction
	SAVE

How to Display

To display this window, click on the 🖾 (Account Manager) button in the main window (p. 80).

Note: Register at least one operator with level 1. If there is no level 1 operator, the configuration of WJ-SX150A Administrator Console will become impossible.

Parameters

Accounts Group

The registered operator names appears. To display the operator information in the Account Record group, click on the name.

You can configure up to 16 account records.

Account Record Group

Name: The operator name is displayed.

Password: The password is displayed as "*****". The entered password is displayed here during the edit. **Level:** Select the operator level.

oк (OK) button

Closes the Account Manager window.



(Add Account) button

To register a new operator, click on this button. The Registration window will appear.

(EDIT) button: To configure the operator information, click on this button.

(DELETE) button

To delete the operator selected in the Accounts group, click on this button.

SAVE (Save Exit) button

Saves the configuration and closes the Account Manager window.

CANCEL (Cancel Exit) button

Cancels the configuration and closes the Account Manager window.

Edit Account Manager

- Add a Registration Operator
- 1. Click on the 🗾 button.
- 2. Enter the name in the Name box and the password in the Password box.

Name: Up to 20 alphanumeric characters

- Password: Up to 20 alphanumeric characters
- 3. Click on the ▼ button to select the level.
- 4. Click on the SAVE (Save exit) button.

The configuration will be saved and the Registration window will close.

To cancel the configuration, click on the CANCEL (Cancel exit) button.

Note: You can register up to 16 accounts (operators).

Edit a Registration Operator

- 1. Click on the registration operator's name in the Accounts group.
- 2. Click on the 🔊 (EDIT) button.
- 3. Edit the desired parameters.
- 4. Click on the SAVE (Save exit) button. The configuration will be saved and the Registration window will close. To cancel the configuration, click on the CANCEL (Cancel

exit) button.

Delete a Registration Operator

- 1. Click on the registration operator's name in the Accounts group.
- 2. Click on the 🔟 (Delete) button.
- 3. Click on the SAVE (Save exit) button.
- Note: If deleting all level 1 operators, the configuration of WJ-SX150A Administrator Console will become impossible.

Communication Port

This window configures the PC's usable communication port number and its baud rate (communication speed).

Communication Port	
Parameter	
Com : 1 💌 Baudrate : 38400 💌	
Fixed Parameter	
Data:8bit Parity:None Stop:1bit	
SAVE	

How to Display

To display this window, click on the will (Communication port) button in the main window (p. 80).

Parameters

Parameter Group

- Com: Select the PC's communication port for the connection to the unit.
- Baud Rate: Select the desired baud rate (communication speed). 4800, 9600, 19200 or 38400 bps is selectable.

The factory default setting is 38400 bps.

Fixed Parameter Group

The data bit (8 bit), parity (none), and stop bit (1 bit) are displayed.

Note: These parameters are fixed.

SAVE (Save Exit) button

Saves the configuration and closes the Communication Port window.

CANCEL (Cancel Exit) button

Cancels the configuration and closes the Communication Port window.

OPERATING PROCEDURES (TERMINAL MODE)

LOG-IN AND LOG-OUT

Before starting the following procedures, all system components must be turned on.

The following procedures are applicable when the system controller is connected to the unit.

Log-in

This operation is skipped when the auto log-in is set to ON. (Refer to p. 92.)

- 1. Turn on the power switches of all system components. The OPERATE indicator will light up.
- 2. To turn on the power of the system controller, connect the AC adapter to the AC outlet.

The LINK indicator lights up and "NO USER" appears on the LED display of the system controller.

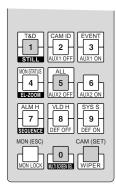


3. To select your registered operator ID number (1 to 16, up to 2 digits), press the numeric buttons, then press the CAM (SET) button.

The underline appears on the LED display of the controller.

The factory default setting is 150.





4. To select your registered password (up to 5 digits), press the numeric buttons, then press the CAM (SET) button.

The factory default setting is 150.

If the operator ID and password are correct, "READY" will appear on the LED display.



Note: If an operator ID or password error occurs, the PROHIBITED indicator on the controller will blink and "NO ACC" will blink on the LED display for about 3 seconds. Then "NO USER" appears on the LED display. Return to Step 3 and select your operator ID.



Note: If the auto log-in is set to ON, any operator can login automatically. After the controller is turned on, "AUTO" appears on the LED display for approximately 2 seconds, then "READY" automatically appears.

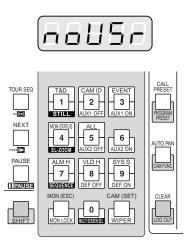
Log-out

This operation is skipped when the auto log-out is set to ON.

This function is used when an operator leaves the controller or no longer requires access to the system.

1. To logout from the system press the CLEAR button while holding down the SHIFT button.

"NO USER" appears on the LED display of the controller.



Notes:

- If you want to save the power consumption, disconnect the PC plug from the controller, and remove the AC adapter from the AC outlet.
- If the auto log-out is set to ON, any operator can logout automatically if no operation takes place for a specific time. "NO USER" automatically appears on the LED display.
- The time to logout is configurable through WJ-SX150A Administrator Console. [Refer to p. 92 Auto Login/Logout (Auto Log-in/Log-out).]

Auto Log-in

If the auto log-in is set to ON, any operator can login automatically. After the controller is turned on, "AUTO" appears on the LED display for approximately 2 seconds, then "READY" automatically appears.

Auto log-in is configurable through WJ-SX150A Administrator Console. [Refer to p. 92 Auto Login/Logout (Auto Log-in/Log-out).]



Auto Log-out

If the auto log-out is set to ON and no operation takes place for a specific time, any operator can logout automatically. "NO USER" automatically appears on the LED display.



Auto log-out and the time to logout are configurable through WJ-SX150A Administrator Console. [Refer to p. 92 Auto Login/Logout (Auto Log-in/Log-out).]

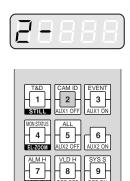
MONITOR SELECTION AND CAMERA SELECTION

After the log-in procedure, the following operations are available to control the system.

The operation begins with selecting a monitor, then the selected camera appears the active monitor.

Monitor Selection

- 1. To select the desired monitor number (1 to 4), press the numeric button.
- Press the MON (ESC) button to execute the selection. The MONITOR indicator on the controller will light up and the selected monitor number will appear on the LED display of the controller.



 If the selected monitor number is not valid, the PROHIB-ITED indicator lights up and the number on the LED display will blink for approximately 3 seconds. Return to Step 1 and select a new monitor number.

0

Note: The PROHIBITED indicator will blink if an operator with higher priority is controlling the monitor.Control of the same monitor is denied to an operator with lower priority.

Priority Lock

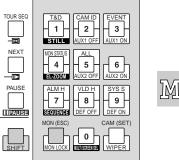
Applying Priority Lock

- 1. Select the desired monitor. (Refer to Monitor Selection).
- Press the MON (ESC) button while holding down the SHIFT button to toggle the priority lock mode on and off on the active monitor.

If the priority lock mode is selected, the monitor number will inversely appear on the active monitor as shown in the figure.

Note: This function will prevent operators with lower priority from gaining control of a monitor.

However, higher or equal priority operators may still gain control of the monitor.



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Releasing Priority Lock

- 1. Select the desired monitor. (Refer to Monitor Selection.)
- Press the MON (ESC) button while holding down the SHIFT button to release the priority lock mode. The monitor number returns to the normal display on the active monitor.

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Camera Selection

- 1. Select the desired monitor. (Refer to p. 106 Monitor Selection.)
- 2. Press the numeric buttons to select the desired camera number (1 to 99).
- 3. Press the CAM (SET) button.

The selected camera's image will appear on the active monitor. The CAMERA indicator will light up and the selected camera number will appear on the LED display on the controller.

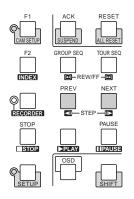


- **Note:** If you select a wrong number, press the CLEAR button to clear the input.
- 4. If the selected camera number is not valid, the PRO-HIBITED indicator and the number on the LED display will blink for about 3 seconds.

Return to Step 2 and select a new camera number.

- 5. To replace the currently selected camera with the next higher-numbered camera , press the NEXT button.
- 6. To replace the currently selected camera with the next lower-numbered camera, press the PREV button.





Note: The PROHIBITED indicator will light up, if the camera is selected by an operator with higher priority. Control of the same camera is denied to an operator with lower priority.

CAMERA CONTROL

Buttons and control for cameras or camera site accessories are located on the right side of the front panel of the system controller.

Included are zoom control, focus control, iris control, preset and pan/tilt controls.

Normally, combination cameras equipped with the specific feature or a WV-RC100 or WV-RC150 Receiver are required to utilize these functions.

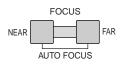
Note: Refer to the cameras' operating instructions whether to confirm that each function is available.

Lens Control

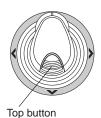
This function is available when specified lens, with motorized zoom/ focus functions, is mounted on the camera, and the lens selection (DC/VIDEO) on the camera is set to DC.

- 1. Select the desired monitor and camera. (Refer to p. 106 Monitor Selection and p. 107 Camera Selection.)
- 2. Press the FOCUS NEAR/FAR buttons while watching the monitor. The lens focus is adjusted to obtain a sharply focused image.

To set the lens focus automatically, press these buttons simultaneously.

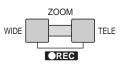


Pressing the top button of WV-CU360CJ can also set the lens focus automatically.

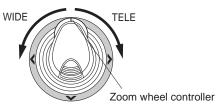


 Press the ZOOM WIDE/TELE buttons while watching the monitor. The lens iris is adjusted to obtain the desired image.

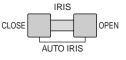
Press the TELE button to bring an object optically closer. Press the WIDE button to widen the scene optically.



Moving the zoom wheel controller of WV-CU360CJ can also adjust the lens zoom.



4. Press the IRIS CLOSE/OPEN buttons to close/open the lens iris. The lens iris is adjusted by these buttons to obtain the proper image exposure.

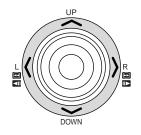


To reset to the factory default setting, press these buttons simultaneously.

Pan/Tilt Control

Manual Operation

- 1. Select the desired monitor and camera. (Refer to p. 106 Monitor Selection and p. 107 Camera Selection.)
- 2. Move the joystick to move the pan/tilt head towards the desired direction.



Auto Panning

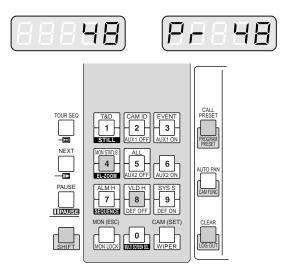
- 1. Select the desired monitor and camera. (Refer to p. 106 Monitor Selection and p. 107 Camera Selection.)
- 2. To activate the auto panning function of the selected camera, press the AUTO PAN button.



3. To cancel the auto panning function, move the joystick.

Program Preset Position

- 1. Select the desired monitor and camera. (Refer to p. 106 Monitor Selection and p. 107 Camera Selection.)
- 2. To move the camera to the position to be preset, move the joystick and press the lens control buttons.
- 3. To select the desired preset position number, press the numeric buttons. (1 to 64)
- 4. When you have selected a wrong number, press the CLEAR button to clear the numeric input.
- 5. Press the CALL PRESET button while holding down the SHIFT button to save a preset position of the selected camera.



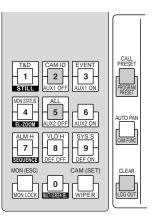
Notes:

- If the entered position number has stored the previous preset position, it will be overwritten by the new one.
- SETUP MENU and WJ-SX150A Administrator Console can configure each operator's pan/tilt control. (Refer to p. 76 OPERATOR REGISTRATION or p. 90 Operator Registration.)

Call Preset Position

- 1. Select the desired monitor and camera. (Refer to p. 106 Monitor Selection and p. 107 Camera Selection.)
- 2. To select the desired preset position number, press the numeric buttons. (1 to 64)
- 3. When you have selected a wrong number, press the CLEAR button to clear the numeric input.
- 4. Press the CALL PRESET button to move to the preset position of the selected camera on the active monitor.





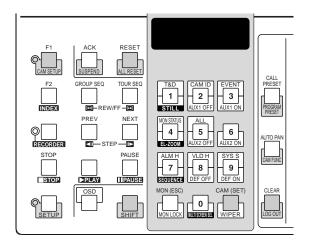
Notes:

- To use the above function, you must set the preset position number for the camera.
- If you press no numeric buttons or the button 0 in Step 2, the camera will move to the home position.

Camera Setup

- 1. Select the desired monitor and camera. (Refer to p. 106 Monitor Selection and p. 107 Camera Selection.)
- 2. Press the F1 button while holding down the SHIFT button.

The CAM SETUP indicator on the controller will light up and the camera's SETUP MENU will appear on the active monitor.



- To select the desired item in the menu, move the joystick to ▼ or ▲. To select the desired parameter (or mode) in the menu, move the joystick to ◀ or ▶.
- 4. To execute the currently highlighted selection and to enter a submenu of SETUP MENU, press the CAM (SET) button.
- 5. To leave from the currently selected menu and to return to the previous page of the menu, press the MON (ESC) button.
- Move the cursor to SPECIAL on the camera's setup menu, and press numeric buttons 4 and 6 simultaneously for 2 seconds or more to display the special menu.
- Move the cursor to CAMERA RESET on the camera's setup menu, and press buttons 4, 5 and 6 simultaneously to reset all the functions to the defaults.

Notes:

- Refer to the operating instructions of the selected camera for details.
- Move the joystick while holding down the SHIFT button to move the camera smoothly for presetting the positions in the camera's SETUP MENU.
- To close the camera's SETUP MENU, press the F1 button while holding down the SHIFT button. The CAM SETUP indicator goes off.

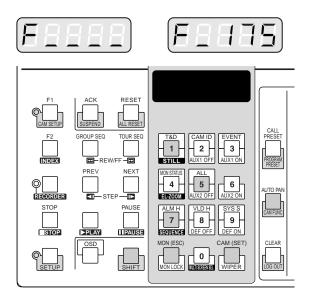
Camera Function (Shortcut Function)

The following function is available only when specified cameras with the camera function feature are used.

This function enables executing camera functions via a shortcut.

- 1. Select the desired monitor and camera. (Refer to p. 106 Monitor Selection and p. 107 Camera Selection.)
- 2. Press the AUTO PAN button while holding down the SHIFT button.

"F_ _ _ " will appear on the LED display of the controller as shown in the figure.



 Press the numeric buttons to select an assigned function number, then press the CAM (SET) button.
 For example, enter 175 for AGC ON.
 The selected function will be executed on the active monitor

Notes:

- When you select a wrong number, press the CLEAR button to clear the numeric input.
- Refer to the cameras' operating instructions for details on available shortcuts.
- 4. To exit from the mode, press the MON (ESC) button then press the AUTO PAN button while pressing the SHIFT button.

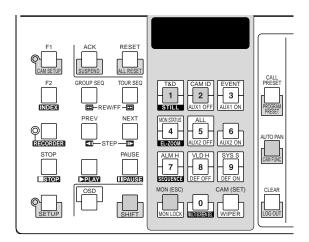
Changing to Black and White Images

This function gets the clear camera images on the monitor while shooting the objects under low light conditions.

- 1. Select the desired monitor and camera. (Refer to p. 106 Monitor Selection and p. 107 Camera Selection.)
- 2. Press the AUTO PAN button two times while holding down the SHIFT button.

"BLACK (black)" will appear on the LED display of the controller as shown in the figure.





 Press the button 1 to change the image from the color mode to the black and white mode on the active monitor.

"BL ON (BLACK ON)" appears on the LED display to indicate the selected mode.

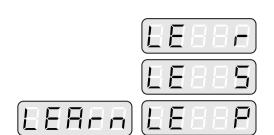
- 4. Press the button 2 to change the black and white image to the color image on the active monitor.
 "BL OF (BLACK OFF)" appears on the LED display to indicate the selected mode.
- 5. Press the MON (ESC) button to exit from the mode.
 - **Note:** When the black and white parameter is set to AUTO in the camera's SETUP MENU, this function is disabled.

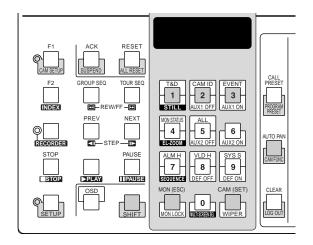
Patrol Learn and Play

as shown in the figure.

A routine of manual operations can be stored for a specific time and later reproduced repetitively.

- 1. Select the desired monitor and camera. (Refer to p. 106 Monitor Selection and p. 107 Camera Selection.)
- Press the AUTO PAN button three times while holding down the SHIFT button.
 "LEARN" will appear on the LED display of the controller





- 3. To save the patrol sequence, follow the procedure below.
 - Press the button 2, then press the CAM (SET) button.
 - "LE r" appears on the LED display.
 - ② Operate the camera manually.
 - ③ Press the button 3.

The operation data is saved and "LE S" appears on the LED display.

- 4. To reproduce the operation data, follow the procedure below.
 - 1 Press the button 1.

"LE P" appears on the LED display.

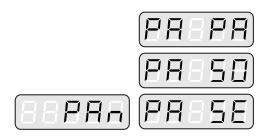
- Press the button 3.The reproduction is ended.
- 5. To exit from the mode, press the MON (ESC) button.

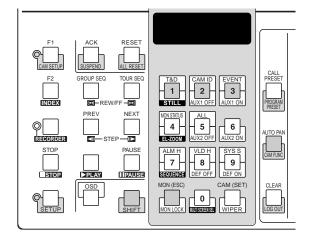
Camera Panning Function

There are three panning modes available as follows: auto pan, sort mode and sequence mode. Refer to p. 16 Camera-related Functions for details on each mode.

- 1. Select the desired monitor and camera. (Refer to p. 106 Monitor Selection and p. 107 Camera Selection.)
- 2. Press the AUTO PAN button four times while holding down the SHIFT button.

"PAN" will appear on the LED display of the controller as shown in the figure.





- Press the assigned numeric button shown below to activate the panning function of the selected camera. The LED display indicates the selected mode as follows.
 - 1: Activates AUTO PAN "PA PA".
 - 2: Activates SORT PAN "PA SO".
 - 3: Activates SEQUENCE PAN "PA SE".
 - **Note:** The AUTO MODE parameter previously set in the camera's SETUP MENU will be automatically replaced to the activated function parameter.

4. To exit from the mode, press the MON (ESC) button, then press the AUTO PAN button while holding down the SHIFT button.

CAMERA SITE ACCESSORIES CONTROL

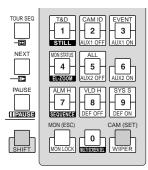
Receiver Control

The following functions are available only when the receivers are included in the system and the specified camera housing is installed.

Camera Housing Control

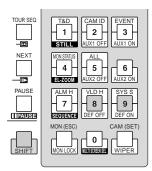
Wiper Control

- 1. Select the desired monitor and camera. (Refer to p. 106 Monitor Selection and p. 107 Camera Selection.)
- 2. Press the CAM (SET) button while holding down the SHIFT button to turn on the housing wiper of the camera until buttons are released.



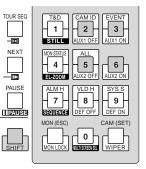
Defroster Control

- 1. Select the desired monitor and camera. (Refer to p. 106 Monitor Selection and p. 107 Camera Selection.)
- 2. Press the button 9 while holding down the SHIFT button to turn on the housing defroster of the camera.
- 3. To turn off the defroster, press the button 8 while holding down the SHIFT button.



Auxiliary Control

- 1. Select the desired monitor and camera. (Refer to p. 106 Monitor Selection and p. 107 Camera Selection.)
- Press the button 3 while holding down the SHIFT button to turn on the user's auxiliary switch 1 of the receiver. Press the button 2 while holding down the SHIFT button to turn off the user's auxiliary switch 1 of the receiver.
- Press the button 6 while holding down the SHIFT button to turn on the user's auxiliary switch 2 of the receiver. Press the button 5 while holding down the SHIFT button to turn off the user's auxiliary switch 2 of the receiver.

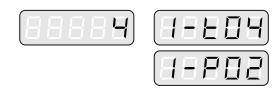


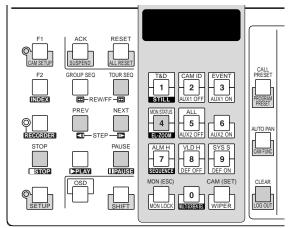
RUNNING SEQUENCE

Tour Sequence

The following functions are available if a tour sequence has been previously configured through SETUP MENU or WJ-SX150A Administrator Console. Any tour sequence can be assigned to any monitors.

- 1. Select the desired monitor and camera. (Refer to p. 106 Monitor Selection and p. 107 Camera Selection.)
- 2. To select the desired tour sequence number, press the numeric buttons.
- 3. When you have selected a wrong number, press the CLEAR button to clear the numeric input.
- 4. Press the TOUR SEQ button to run the tour sequence in the forward direction on the active monitor.





5. Press the PAUSE button to pause a tour sequence on the active monitor.

The "P" sign (indicating the pause status) is displayed at the tour sequence number on the active monitor, and a camera number currently selected appears on the LED display.

- 6. Press the PAUSE button to restart a tour sequence forward from the next step that was previously paused by pressing the PAUSE button.
- 7. Press the NEXT button to move the sequence one frame to the next step from the step that was previously paused by pressing the PAUSE button.

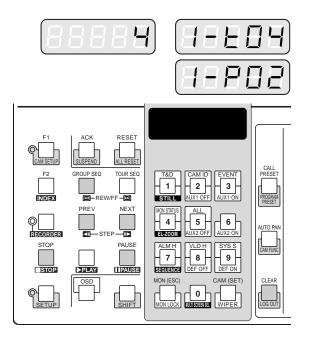
- 8. Press the PREV button to move the sequence one frame to the previous step from the step that was previously paused by pressing the PAUSE button.
- 9. Press the STOP button to stop a tour sequence on the active monitor and return to spot monitoring.

Group Sequence

The following function is available only if a group sequence has been previously established in WJ-SX150A Administrator Console.

As described earlier, a group sequence determines the assignment of monitors and cameras. Therefore, monitor selection is not required.

- 1. Press the numeric buttons to select a desired group sequence number.
- 2. When you have selected a wrong number, press the CLEAR button to clear the numeric input.
- 3. Press the GROUP SEQ button to run a group sequence forward on the assigned monitors.

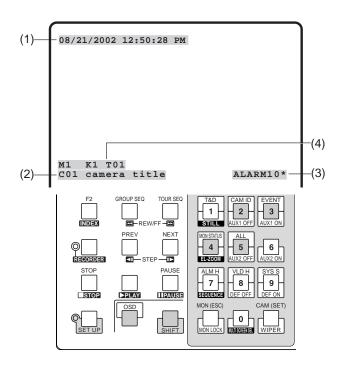


- 4. Press the PAUSE, NEXT or PREV button to operate the group sequence. Refer to Step 5 to 8 of Tour Sequence in this page for how to use these buttons.
- 5. To stop the sequence, select one of the monitors that are being run on the selected group sequence, then press the STOP button.
- **Note:** If an alarm is activated during a sequence pause, the sequence runs again after the unit recovers from the alarm mode.

On-screen Display (OSD) Control

The procedure described below lets you determine the display parameters, such as camera title, clock and status, on and off on the active monitor screen.

Before controlling each item, monitor selection is necessary. (Refer to p. 106 Monitor Selection.)



Displaying the Clock

Toggle the button 1 while holding down the OSD button. (1) will appear/disappear on/from the active monitor.

• Displaying the Camera Title

Toggle the button 2 while holding down the OSD button. (2) will appear/disappear on/from the active monitor.

Displaying the Event

Toggle the button 3 while holding down the OSD button. (3) will appear/disappear on/from the active monitor.

• Displaying the Monitor Status*

Toggle the button 4 while holding down the OSD button. (4)* will appear/disappear on/from the active monitor.

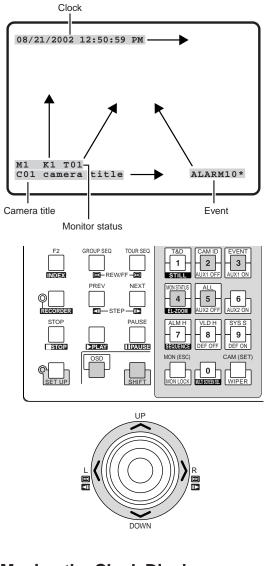
* Monitor number, system controller name, tour number and recorder number

Displaying All the Items

Toggle the button 5 while holding down the OSD button. (1), (2), (3) and (4) will appear/disappear on/from the active monitor.

On-screen Display (OSD) Position Control

The procedure described below lets you determine the display positions, such as camera title, clock and status, on the active monitor screen.



Moving the Clock Display

Move the joystick while holding down the OSD, SHIFT and 1 buttons. (1) will move to the desired direction.

• Moving the Camera Title Display

Move the joystick while holding down the OSD, SHIFT and 2 buttons. (2) will move to the desired direction.

Moving the Event Display

Move the joystick while holding down the OSD, SHIFT and 3 buttons. (3) will move to the desired direction.

Moving the Monitor Status*

Move the joystick while holding down the OSD, SHIFT and 4 buttons. (4) will move to the desired direction.

* Monitor number, controller number and monitor mode

Moving All the Items

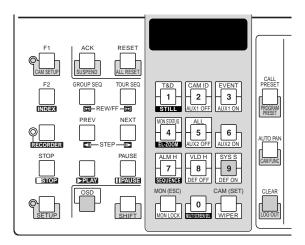
Move the joystick while holding down the OSD, SHIFT and 5 buttons. (1), (2), (3), and (4) will move to the desired direction.

System Status Table

The table shows the current system status.

- 1. Select the desired monitor. (Refer to p. 106 Monitor Selection.)
- 2. Press the button 9 while holding down the OSD button. "OSD" will appear on the LED display, and the SYSTEM STATUS table will appear on the active monitor as shown in the figure.

MON CAM MODE KB OP 1 01 T01 K1 12 2 99 SPOT K2 2	
2 99 SPOT K2 2	
	2
3 04 ALARM K4 4	1
4 R1 RECORDER PC 30	1



The columns in the table indicate the states as shown in the figure.

juro.		
MON:	Ν	Ionitor number
CAM:	L	ogical camera number (01 to 99)
	F	Recorder number (R0 to R4)*
	Ν	lo number indicates no camera is
	S	elected.
MODE	:	Lists the display mode on the
		monitors.
	SPOT:	Spot mode
	Tnn:	Tour Sequence mode (nn is the
		tour sequence number.)
	CAM:	Camera Setup mode
	SET:	WJ-SX150A Setup mode
	ALARM:	Alarm Active mode
	ACK:	Alarm ACK mode
	VLD H:	Video Loss History Table
	ALM H:	Alarm History Table
	SYS S:	System Status Table
	RECORDE	R: Recorder mode**
KB:		Lists the system controller name
		(K1 to K4) or PSD.
OPE:		Lists the operator number
PRI:		Lists the priority number

* R0 to R4 shows the following.

Recorder number	Recorder
RO	Master recorder
R1	Slave 1 recorder
R2	Slave 2 recorder
R3	Slave 3 recorder
R4	Slave 4 recorder

- ** When this parameter is selected, a recorder number is displayed in the CAM area.
- 3. To exit from the mode, press the CLEAR button.

Alarm History Table

There are 100 alarm records stored in chronological order in 10 pages of tables.

- 1. Select the desired monitor. (Refer to p. 106 Monitor Selection.)
- Press the button 7 while holding down the OSD button.
 "OSD" will appear on the LED display, and the ALARM HISTORY table will appear on the active monitor as shown in the figure.

A NO YYYY/MM/DD 016 2002/08/21 015 2002/08/21 013 2002/08/21 012 2002/08/21 011 2002/08/21 010 2002/08/21 009 2002/08/21 008 2002/08/21 007 2002/08/21	18:59:08 80 18:58:08 80 18:57:08 80 18:55:08 07 18:54:08 07 18:53:08 07 18:53:08 09 18:52:08 09 18:51:08 06	LARM EVENT) ALARM) ACK) RESET 7 ALARM 7 ACK 7 RESET 9 ALARM 5 ALARM	
		CAM ID 2 4 4 4 4 4 4 4 4 4 4 4 4 4	CALL PRESET

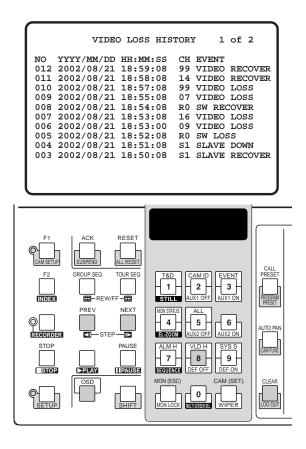
The columns in the table indicate the states as follows:

- **DATE:** Lists the date and time when the alarm state changes.
- ALARM: Lists the alarm number (01 99).
- **EVENT:** Lists the event when the alarm state changes.
- 3. Press the NEXT button to select the next page of the history, and press the PREV button to back up to the previous page.
- 4. To exit from the mode, press the CLEAR button.

■ Video Loss History Table

There are 100 video loss detection records stored in chronological order in 10 pages of table.

- 1. Select the desired monitor. (Refer to p. 106 Monitor Selection.)
- Press the button 8 while holding down the OSD button.
 "OSD" will appear on the LED display, and the VIDEO LOSS HISTORY table will appear on the active monitor as shown in the figure below.



The columns in the table indicate the states as follows:

- **DATE:** Lists the date and time when the video loss state changes.
- **CH:** Lists logical camera number, slave unit number or recorder number that is connected to the system.
- **EVENT:** Lists the event when the video loss state changes.

ALARM CONTROL

Alarm Mode

When alarm (sensor) is accepted, the matrix switcher's operation mode changes to the alarm mode. Then, the system operates as follows:

• The camera image (alarm image) appears on the monitor.

In the factory default setting, the alarm inputs 1 to 16 are associated with the same-numbered camera input connectors. All the video output signals are sent to Monitor 1. For example, when the alarm (sensor) connected to the alarm input 1 becomes active, the camera input connector 1's image appears on Monitor 1.

• "ALARMnn" appears on the monitor. (nn is the alarm number).

ALARM01

- Alarm output signals are supplied from Alarm Output 1 to 4 (#10, 11, 23 and 24) of the ALARM port (25-pin Dsub connector) at the rear panel. Alarm Output 1 to 4 is associated with MONITOR OUT 1 to 4. For example, when an alarm input signal is activated on MONITOR OUT 1, the unit supplies an alarm output signal from Alarm Output 1.
- The monitor and alarm number will appear on the LED display of system controllers. At the same time, the alarm indicator will blink, the monitor indicator will light up, and the camera indicator will go out.



There are two operation mode when more than one alarm signal has been accepted by the unit that is assigned to the same monitor.

- Sequence mode: An alarm operation is replaced by another one after the dwell time ends.
- Hold mode: An initial alarm operation is continued even after another alarm input is accepted.

Notes:

- The association of the alarm inputs with cameras and monitors are changeable in SETUP MENU or WJ-SX150A Administrator Console. (Refer to pp. 67 and 68/ p. 89.)
- Alarm input will be automatically reset in 30 seconds. The auto-recovery time is configurable through SETUP MENU or WJ-SX150A Administrator Console.

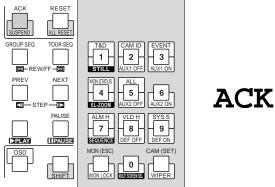
Operation during an Alarm Mode

While an alarm mode is active, the following are available from the system controller:

- Operating the camera with the alarm input (ACK)
- Resetting the alarm (RESET/ALL RESET)
- Suspending the alarm (ALM SUSPENDED)

Operation of an Alarm-related Camera (ACK)

You can operate the camera with the alarm input as follows:



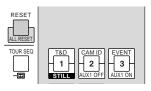
- 1. Select a monitor which displays "ALARM".
- 2. Press the ACK button. "ACK" will appear on the monitor with an alarm input. The camera with an alarm input will become operable.
- 3. Operate camera with the system controller. Pan/Tilt, zoom, focus, and iris are available. When selecting another monitor, "ACK" will disappear from the display. The matrix switcher system will return to the alarm mode.

Resetting the Alarm Inputs

There are two alarm reset functions:

- Alarm reset (resetting the alarm inputs per monitor)
- Alarm all reset (resetting all the alarm inputs)

Alarm Reset



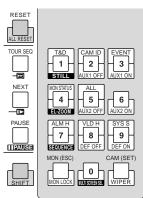
- 1. Select a monitor which displays "ALARM".
- 2. To reset the alarms, press the RESET button.
 - "ALARMnn" will disappear from the selected monitor.

When alarms have been reset from all the monitors, the LED display and indicators of system controllers will work as follows for recovery.

- The LED display will return to the state before the alarm input.
- The alarm indicator will go out.
- The CAM indicator will return to the state before the alarm input.
- **Note:** When more than one alarm is input and they are associated with the same monitor, they cannot be reset one by one.

• Alarm All Reset

1. Press the RESET button while holding down the SHIFT button.



2. The monitor, the LED display and the indicator will change as follows:

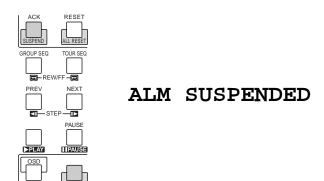
"ALARMnn" will disappear from all the monitor. The LED display will return to the state before the alarm input.

The alarm indicator will go out.

The CAM indicator will return to the state before the alarm input.

Suspending the Alarm Inputs

Use this function when you do not want to be disturbed by an alarm input, for example, during the setup procedures.



1. Press the ACK/SUSPEND button while holding down the SHIFT button.

"ALM SUSPENDED" will appear on the monitor.

 To cancel alarm suspension, press the ACK/SUSPEND button while holding down the SHIFT button again.
 "ALM SUSPENDED" will disappear from the monitor.

Notes:

- An alarm continues to operate even after it is suspended.
- If you suspend an alarm while an alarm image is displayed, "ALM SUSPENDED" will not appear on the monitor. Reset the alarm, and then suspend it again.

MULTIPLEXER OPERATIONS MUX

Multiplexer board WJ-SXB151 is an optional board.

It enables multiscreen display, electronic zooming, still picture and multiscreen sequence.

It also enables the operation of Digital Disk Recorder WJ-HD100 Series or time-lapse VCR, when connected to them.

Note: Before the use, it is necessary to install the Multiplexer board in the matrix switcher and configure the system through SETUP MENU and WJ-SX150A Administrator Console. [Refer to p. 32 Installing the Multiplexer Board, p. 63 WJ-SX150A SETUP MENU (OSD), and p. 79 WJ-SX150A ADMINISTRATOR CONSOLE.]

Monitoring the Camera Picture

Multiscreen Segment Switching

- 1. Select the desired monitor. (Refer to p. 106 Monitor Selection.)
- 2. To select a Multiplexer, press the corresponding numeric button.

Multiplexer board	Numeric button
Master Multiplexer board	0 (You can skip pressing this button.)
Slave 1 Multiplexer board	1
Slave 2 Multiplexer board	2
Slave 3 Multiplexer board	3
Slave 4 Multiplexer board	4

- 3. Press the RECORDER button. The system will enter the recorder mode. The indicator beside the RECORDER button will light up, and the images from the recorder are displayed on the active monitor in multiscreen segments.
- 4. Press the button 0 while holding down the SHIFT button. Every time you press the button, the multiscreen segment patterns are switched. (The following is the factory default setting.)
 - 4 (segments) \rightarrow 9 \rightarrow 16 \rightarrow 4
- 5. To return to the spot display, select the desired camera.
- **Note:** If you activate Quad Shift in Multiplexer Mode (refer to p. 98) window of WJ-SX150A Administrator Console, the multiscreen segment patterns can be switched as follows.

4A (Page 1 of the quad – Camera 1, 2, 3, and 4) \rightarrow 4B (Page 2 - Camera 5, 6, 7 and 8) \rightarrow 4C (Page 3 - Camera 9, 10, 11 and 12) \rightarrow 4D (Page 4 - Camera 13, 14, 15 and 16) \rightarrow 9 (segments) \rightarrow 16 \rightarrow 4A

Multiscreen Sequence

Camera images are switched automatically in a sequence mode.

The sequence mode (QUAD, 3+1, 8+1) is configurable through WJ-SX150A Administrator Console.

(Refer to p. 99 Sequence Mode of the Multiplexer Mode window for details.)

- 1. Enter the recorder mode. (Refer to Multiscreen Segment Switching.)
- 2. Press the button 7 while holding down the SHIFT button.

A sequence of multiscreen pictures is displayed according to the WJ-SX150A Administrator Console's configuration.

- 3. To cancel the sequence, press the button 0 while holding down the SHIFT button.
- **Note:** The sequence can also be cancelled by selecting the desired camera. (In this case, you can automatically exit from the recorder mode.)

• Still Multiscreen Picture

Still pictures can also be displayed in a multiscreen.

- 1. Enter the recorder mode. (Refer to Multiscreen Segment Switching.)
- 2. Press the numeric button corresponding to the camera number.
- 3. Press the button 1 while holding down the SHIFT button.

The selected camera image will change into the still picture.

"STILL" and the camera title alternately blinks on the monitor.

4. To cancel the still picture, press the button 1 while holding down the SHIFT button again.

Notes:

- "STILL" does not appear when the still display is set to OFF.
- When you skip Step 2 and do Step 3, all the channels displayed in the multiscreen segments will be changed into the still pictures.

• Still Playback Spot Picture

The playback spot picture can be changed into the still picture.

- **Note:** To use this function, you need to connect a WJ-HD100 Series recorder or time-lapse VCR to the unit.
- 1. Enter the recorder mode. (Refer to Multiscreen Segment Switching.)
- 2. Press the PLAY button. (Refer to p. 131 Normal Playback.) The system will enter the playback mode.
- 3. Select a camera channel by pressing a numeric button and then pressing the CAM (SET) button. The selected camera image will be displayed in a spot picture.
- 4. Press the button 1 while holding the SHIFT button. The selected camera image will change into the still picture.
- 5. To cancel the still picture, press the button 1 while holding down the SHIFT button again.

Notes:

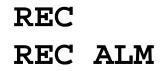
- Still picture is not available while zooming is activated.
- Even when still picture is displayed, the playback of the recorder/time-lapse VCR continues.

• Electronic Zooming (EL-ZOOM)

The playback spot picture can be electrically zoomed. **Note:** To use this function, you need to connect a WJ-HD100 Series recorder or time-lapse VCR to the unit.

- 1. Enter the recorder mode. (Refer to p. 120 Multiscreen Segment Switching.)
- 2. Press the PLAY button. (Refer to p. 131 Normal Playback.) The system will enter the playback mode.
- 3. Select a camera channel by pressing a numeric button and then pressing the CAM (SET) button. The selected camera image will be displayed in a playback spot picture.
- Press the button 4 while holding down the SHIFT button.
 "+" sings will appear on the image
 - "+" sings will appear on the image.
- 5. To move the "+" signs within the picture, move the joystick.
- 6. Press the button 4 while holding down the SHIFT button. The area surrounded by the "+" signs will be zoomed up.
- 7. To move the zoom area, move the joystick.

- To cancel the zooming, press the button 4 while holding down the SHIFT button again.
 Note: Still picture is not available while zooming is activated.
- **Note:** When a WJ-HD100 Series recorder or a Panasonic time-lapse VCR is connected to the unit, recording status will appear on the monitor in the recorder mode. When the normal recording is activated, "REC" will appear on the monitor. When the alarm recording is activated, "REC ALM" will appear.



OPERATING PROCEDURES (PS·DATA)

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WHEN USING A PS-DATA SYSTEM CONTROLLER

This manual describes the operating procedures which are specifically related to WJ-SX150A.

For the basic operating procedures such as log-in/log-out, camera selection, and camera control, etc., refer to the system controller's operating instructions.

The following are different from the terminal mode when you use the system controller via the PS·Data protocol.

- Camera selection, camera control, camera site accessories control are in accordance with the PS·Data System operating procedures. Refer to the system controller's operating instructions.
- You cannot reset an alarm one by one per monitor. However, you can reset all the alarms at a time (ALL RESET).
- You cannot acknowledge an alarm.
- You cannot use the auto log-in function of the unit. To use this function, use a terminal-mode system controller.
- You cannot use the auto log-out function of the unit.
- You cannot move the clock, camera title, event, and/or monitor status display with a PS·Data controller. Use a terminalmode system controller.
- Operators using the PS·Data system controller have the highest priority to all those using the terminal-mode system controllers.
- PS·Data doesn't support user-management, and you cannot configure the PS·Data operator registration neither through SETUP MENU nor WJ-SX150A Administrator Console.

Notes:

- When you select a monitor with a PS·Data system controller, you might enter its number as you do in the terminal mode. However, the matrix switcher regards a monitor as a unit, you need to select it by the unit number. (Refer to p. 125.)
- This unit is counted as 4 PS·Data units. Confirm the total number of the PS·Data units in your system. (Up to 16 PS·Data units are available.)
- If you carry out an operation not designated, the PROHIBITED indicator on the system controller will light up and your operation is prohibited. To cancel the prohibition, press the MON(ESC) button.
- If you activate/cancel alarm suspension with a terminal-mode system controller, the system will return to the state controlled by PS·Data system controllers after given time.

MONITOR CONTROL

Refer to the system controller's operating instructions before you login the system. After the log-in procedure, the following operations are available to control the system. The operation begins with selecting a monitor, then the selected camera appears the active monitor.

Monitor Selection

Unit addresses are given to each monitor.

Mon 1	Mon 2	Mon 3	Mon 4
1	2	3	4

The following is how to select a monitor.

- 1. Press the numeric button(s) to select the desired monitor's unit address.
- Press the UNIT button.
 The selected monitor will be activated.

Priority Lock

You can apply or release priority lock by entering the function code. Monitor display is the same as those of terminal mode. (Refer to p. 106 for the illustrations.)

- 1. Select the desired monitor. (Refer to Monitor Selection.)
- 2. Press the SHIFT button, and enter 101 by pressing the numeric buttons.
- 3. Press the FUNCTION button. The function will be executed.

If the priority lock mode is selected, the monitor number will inversely appear on the active monitor.

- 4. To release the priority lock, do Step 2 and 3 again.
- **Note:** This function will prevent operators in the terminal mode from gaining control of a monitor. However, operators via the PS·Data protocol can still gain control.

RUNNING SEQUENCE

Tour Sequence

The following functions are available if a tour sequence has been previously configured through SETUP MENU or WJ-SX150A Administrator Console. Any tour sequence can be assigned to any monitors.

- 1. Select the desired monitor. (Refer to p. 125 Monitor Selection.)
- 2. To select the desired tour sequence number, press the numeric buttons.
- 3. Press the SEQ button to run the tour sequence in the forward direction on the active monitor.
- Press the SEQ PAUSE button to pause a tour sequence on the active monitor. A series of camera picture appear in pause on the monitor screen.
- 5. Press the SEQ PAUSE button again to restart a tour sequence forward from the next step that was previously paused by pressing the SEQ PAUSE button.
- Press the SHIFT button, and then press the + button to move the sequence one frame to the next step from the step that was previously paused by pressing the SEQ PAUSE button.

Press the SHIFT button, and then press the - button to move the sequence one frame to the previous step from the step that was previously paused by pressing the SEQ PAUSE button.

7. Select a camera (refer to the system controller's operating instructions) to stop the sequence. The monitor will return to the spot mode.

Group Sequence

The following function is available only if a group sequence has been previously established in WJ-SX150A Administrator Console. The group sequence has ID numbers. Group 1 is 91, Group 2 is 92, Group 3 is 93, and Group 4 is 94.

As described earlier, a group sequence determines the assignment of monitors and cameras. Therefore, monitor selection is not required.

- 1. Press the numeric buttons to select a desired group sequence ID number.
- 2. Press the SEQ button to run a group sequence forward on the assigned monitors.
- Press the SEQ PAUSE button to pause a tour sequence on the active monitor. A series of camera picture appear in pause on the monitor screen.
- 4. Press the SEQ PAUSE button again to restart a group sequence forward from the next step that was previously paused by pressing the SEQ PAUSE button.
- Press the SHIFT button, and then press the + button to move the sequence one frame to the next step from the step that was previously paused by pressing the SEQ PAUSE button.
 Press the SHIFT button, and then press the – button to move the sequence one frame to the previous step from

move the sequence one frame to the previous step from the step that was previously paused by pressing the SEQ PAUSE button.

- 6. Select a camera (refer to the system controller's operating instructions) to stop the sequence. The assigned monitors will return to the spot mode.
- **Note:** If an alarm is activated during a sequence pause, the sequence runs again after the unit recovers from the alarm mode.

MONITOR DISPLAY CONTROL

The procedure described below lets you determine on-screen display (OSD) items, such as camera title, clock and status, on and off on the active monitor screen.

Before controlling each item, monitor selection is necessary. (Refer to p. 125 Monitor Selection.)

- 1. Press the SHIFT button, and then press the numeric buttons corresponding to the function code. (Refer to the table.)
- 2. Press the FUNCTION button. The function will be executed.

Function	Code	Controller Status	Note
Displaying the clock	104		Pressing again will hide the display.
Displaying the camera title	105		Pressing again will hide the display.
Displaying the event	106		Pressing again will hide the display.
Displaying the monitor status	107		Pressing again will hide the display.
Displaying all the items	19		Pressing again will hide the display.
Displaying System Status	102		Pressing again will return to the normal display.
Displaying Video Loss History	103		Pressing again will return to the normal display.
Displaying the next page of Video Loss History	108		
Displaying the previous page of Video Loss History	109		

Notes:

- Alarm History Table doesn't have a function code. When displaying the table, press the ALM RECALL button instead of Step 1 and 2 above. The ALARM HISTORY table will appear on the active monitor.
- You cannot control OSD display position.

ALARM CONTROL

Alarm Mode

When alarm (sensor) is accepted, the matrix switcher's operation mode changes into the alarm mode. Then, the system operates as follows:

• The camera image (alarm image) appears on the monitor.

In the factory default setting, the alarm inputs 1 to 16 are associated with the same-numbered camera input connectors. All the video output signals are sent to Monitor 1. For example, when the alarm (sensor) connected to the alarm input 1 becomes active, the camera input connector 1's image appears on Monitor 1.

- "ALARMnn" appears on the monitor. (nn is the alarm number).
- Alarm output signals are supplied from Alarm Output 1 to 4 (#10, 11, 23 and 24) of the ALARM port (25-pin Dsub connector) at the rear panel. Alarm Output 1 to 4 is associated with MONITOR OUT 1 to 4. For example, when an alarm input signal is activated on MONITOR OUT 1, the unit supplies an alarm output signal from Alarm Output 1.
- The monitor and alarm number will appear on the LED display of system controllers. At the same time, the alarm indicator will blink, the monitor indicator will light up, and the camera indicator will go out.

Notes:

- The association of the alarm inputs with cameras and monitors are changeable in SETUP MENU or WJ-SX150A Administrator Console. (Refer to pp. 67 and 68/ p. 89.)
- Alarm input will be automatically reset in 30 seconds. The auto-recovery time is configurable through SETUP MENU or WJ-SX150A Administrator Console.

Operation during an Alarm Mode

While an alarm mode is active, you can do the following:

- Resetting all the alarm inputs (ALM RESET)
- Suspending all the alarm inputs (ALM SUSPENDED)

Resetting All the Alarm Inputs

You can reset all the alarm input signals at a time.

- 1. Select a monitor which displays "ALARM". (Refer to the figure on p. 118.)
- Press the ALM RESET button.
 All the alarms will be reset.
 Then, the LED display and indicators will return to the state before the alarm input.

Note: You cannot reset the alarm input signals one by one.

Suspending All the Alarm Inputs

Use this function when you do not want to be disturbed by an alarm input, for example, during the setup procedures.

- To suspend all the alarm input signals, press the ALM SUSPEND button.
 The indicator beside the button will light up and "ALM SUSPENDED" will appear on the monitor. (Refer to the figure on p. 119.)
- 2. To cancel alarm suspension, do Step 1 again.

Notes:

- The alarm suspension is applied to all system units, not to a selected one.
- An alarm which was input before the suspension will continue to operate.

EXPANDED FUNCTION

WJ-HD500 SERIES CONTROL (TERMINAL MODE)

Matrix switcher can control Digital Disk Recorder WJ-HD500 Series. The following is the procedure of WJ-HD500 Series SETUP MENU.

Notes:

- The following operating procedures are for the terminal mode. If you are using a PS·Data system controller, refer to p. 141.
- When a Multiplexer board is installed in the unit, you can neither connect nor control a WJ-HD500 Series recorder. You need to remove the board from the unit.

Displaying WJ-HD500 Series SETUP MENU

To display WJ-HD500 Series SETUP MENU, follow the procedure below.

- 1. Confirm that WJ-HD500 Series is correctly and securely connected.
- 2. Select the desired monitor. (Refer to p. 106 Monitor Selection.)
- 3. Enter the recorder mode. (Refer to p. 131 Recorder Mode.) Then, the selected monitor number and "-H00" will appear on the LED display.



 Press the SETUP button while holding down the SHIFT button on the system controller.
 WJ-HD500 Series SETUP MENU will appear on the active monitor and the system controller's SETUP indicator will light up.

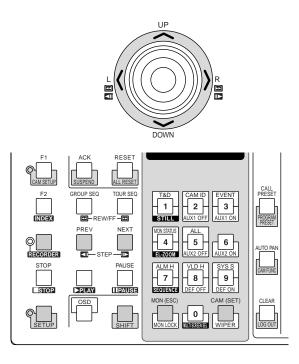
The following functions and buttons are valid in SETUP MENU.

Joystick to UP (▲): Moves the cursor up. Joystick to DOWN (♥): Moves the cursor down. Joystick to L (◀): Moves the cursor to the left. Joystick to R (▶): Moves the cursor to the right. CAM (SET) button: Executes the selections and dis-

plays a submenu.

NEXT button: Increments a parameter.

- **PREV button:** Decrements a parameter.
- **MON (ESC) button:** Returns to SETUP MENU or the previous menu.



5. To end the setting and return to the normal view, press the SETUP button while holding down the SHIFT button when SETUP MENU is displayed. The system controller's SETUP indicator will go out.

Controlling Digital Disk Recorder WJ-HD500 Series

The following are the operating procedures of WJ-HD500 Series via system controller.

Note: Refer to the operating instructions of Digital Disk Recorder WJ-HD500 Series for details.

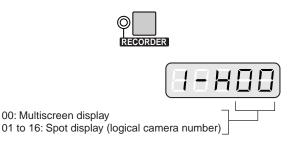
Recorder Mode

Before operating the recorder, it is necessary to enter the recorder mode.

- 1. Select the desired monitor. (Refer to p. 106 Monitor Selection.)
- 2. To select a recorder, press the corresponding numeric button.

Recorder	Numeric button
Master recorder	0 (You can skip pressing this button.)
Slave 1 recorder	1
Slave 2 recorder	2
Slave 3 recorder	3
Slave 4 recorder	4

- 3. Press the RECORDER button. The system will enter the recorder mode.
 - The indicator beside the RECORDER button will light up, and the images from the recorder are displayed on the active monitor in multiscreen segments.
 - The CAMERA indicator will go out and the monitor number with "-H00" will appear on the LED display.



4. To exit from the recorder mode, select the camera. (Refer to p. 107 Camera Selection.) The indicator beside the button will go out. The monitor number and camera number will appear on the LED display again.

You can also exit from the recorder mode by pressing the RECORDER button during the recorder mode.

Note: Only one operator can enter the recorder mode.

Multiscreen Segment Switching

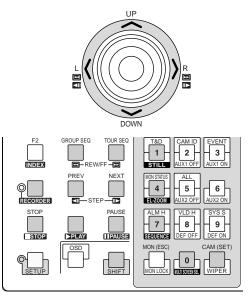
Multiscreen segment patterns are configurable through WJ-HD500 SETUP. (Refer to the recorder's operating instructions.)

(Refer to the recorder's operating instructions.)

- 1. Enter the recorder mode. (Refer to Recorder Mode.)
- 2. Press the button 0 while holding down the SHIFT button. Every time you press the button, the multiscreen segment patterns are switched. (The following is the factory default setting.)
 4A (Page 1 of the quad → Camera 1, 2, 3, and 4) → 4B (Page 2 Camera 5, 6, 7 and 8) → 4C (Page 3 Camera 9, 10, 11 and 12) → 4D (Page 4 Camera 13, 14, 15 and 16) → 7 (segments) → 9 →10 → 13 → 16 → 4A
- 3. To return to the spot display, exit from the recorder mode.
- **Note:** Multiscreen segment patterns are not configurable through WJ-SX150A Administrator Console.

Normal Playback

- 1. Enter the recorder mode (Refer to Recorder Mode.)
- 2. To start the playback, press the PLAY button. The system will enter the playback mode. Then, the most recent recorded image will be played back.
 - To pause the playback, press the PAUSE button.
 - To stop the playback, press the STOP button.



- To resume the playback, press the PLAY button.
- To move forward/backward search during the playback, move the joystick rightward/leftward, or press REW/FF button.

Joystick to R (►)/FF (🖼): Search forward Joystick to L (◄)/REW (🖾): Search backward To move forward/backward field advance during the pause, move the joystick rightward/leftward, or press REW/FF button.

Joystick to R (►)/STEP (IID): Forward field advance

- Joystick to L (◄)/STEP (Ш): Backward field advance
- To skip to the previous/next record during the playback, move the joystick upward/downward. (Refer to the recorder's operating instructions for the description of record.)

Joystick to UP (▲): Skips to the previous record. Joystick to DOWN (▼): Skips to the next record.

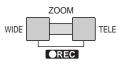
• To display the spot picture, press the numeric button corresponding to the desired camera number, then press the CAM (SET) button. Then, the active monitor number with "-H** (** is the logical camera number)" will appear on the LED display.



- To resume the multiscreen display, press the button 0 while holding down the SHIFT button.
- To change the number of multiscreen segments, press the button 0 while holding down the SHIFT button again during the multiscreen display.
- 3. To stop the playback, press the STOP button. The monitor display will return to the multiscreen display.

Manual Recording

- 1. Enter the recorder mode (Refer to p. 131 Recorder Mode.)
- To start recording, press the WIDE and TELE buttons simultaneously. The digital disk recorder will start recording.
- 3. To stop the recording, press the STOP button while holding down the SHIFT button.



Note: Refer to WJ-HD500 Series Operating Instructions for details and other recording modes.

Stopping REC ONLY Alarm Recording

You can stop alarm recording activated by "REC ONLY" setting of 430 CAMERA/440 ALARM PORT/450 SERIAL PORT/460 MUX MOTION DET in SETUP MENU (refer to pp. 68 and 69) or the Alarm Mode window in WJ-SX150A Administrator Console (refer to p. 88).

To stop the alarm recording, press the ALL RESET button while holding down the SHIFT button.

• Search Playback

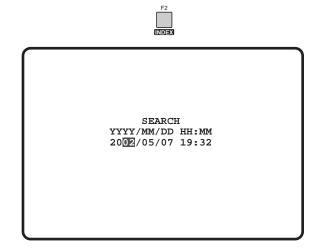
You can search playback images using the Record List or Thumbnail Display. Every time you press the INDEX button, the display will change as follows.

Live image \rightarrow Date-and-time entry form \rightarrow Record List \rightarrow Thumbnail Display \rightarrow Live image

Date-and-time Search Playback

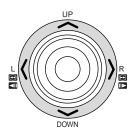
The recorded images can be searched for through the date and time.

- 1. Enter the recorder mode. (Refer to p. 131 Recorder Mode.)
- 2. Press the INDEX button. The date-and-time entry form will appear on the center of the monitor.



Note: The factory default setting is the current date and time.

Press the numeric buttons or NEXT/PREV button to enter the desired date and time. The cursor can be adjusted by moving the joystick rightward or leftward.



4. Press the PLAY button. Record List will be displayed and the cursor will move to the closest date and time.

Note: To cancel the entry form, press the CLEAR button.

• Record List/Thumbnail Display

You can operate the Record List or Thumbnail Display by referring to the recorder's operating instructions. In addition, the following operations from the system controllers are also available.

DATE MAY	29.00	А	LL GROUP
NO	GROUP	TIME	REC-MODE
000010009	G2	23:59:59	T/L
000010008	G1	22:15:40	M/S ALM-TRM12
000010007	G3	21:00:07	O/S ALM-VMD3
000010006	ALL	17:33:05	T/L
000010005	ALL	7:23:11	T/L EMR
000010004	G4	6:59:44	M/S ALM-PC4
000010003	ALL	8:55:28	T/L MAN
000010002	G3	0:01:28	T/L ALM-TRM1
		(TOTAL	2343RECORD)
CRAPCU.	MAV20	00 0:01	ā1 \
			GT /
		[DISPLAY]	ESC: STOP

Search Editing Area

•	Thumbnail Display					
	000010009	000010008	000010007	000010006		
		000000012		00000010		
	00000009	00000008	000000007	000000006		
	00000005	00000004	00000003	000000002		
	\square			·		

Search Editing Area

Joystick to UP (▲): Moves the cursor up.

Joystick to DOWN (▼): Moves the cursor down.

Joystick to L (<): Moves the cursor to the left.

- Joystick to R (►): Moves the cursor to the right.
- **CAM(SET) button:** Displays the search editing area./Starts the search after you enter the search condition.
- **MON(ESC)button:** Cancels the search editing area and returns to the Record List or Thumbnail Display.

NEXT button: Increments a parameter.

- **PREV button:** Decrements a parameter.
- **PLAY button:** Starts the playback of a record pointed by the cursor.
- **Note:** The PLAY button is deactivated in the search editing area.

• Electronic Zooming (EL-ZOOM)

Playback images can be electrically zoomed besides a camera's optical zooming.

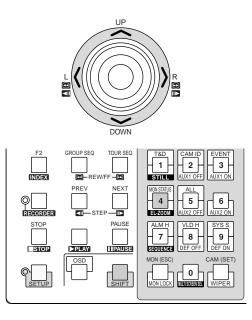
- 1. Enter the recorder mode (Refer to p. 131 Recorder Mode.)
- 2. Press the PLAY button.
- 3. Press the numeric button corresponding on the desired camera number to display the spot picture.

4. Press the CAM (SET) button.

The selected camera's picture is displayed in the spot mode.



5. Each time the button 4 and the SHIFT button are pressed, the zooming range are changeable as follows: $2x \rightarrow 4x \rightarrow 8x \rightarrow 1x \rightarrow 2x$



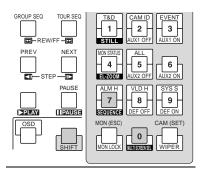
- 6. To return the zooming range to x 1, press the button 4 while holding down the SHIFT button again.
- 7. To return to the multiscreen display, press the button 0 while holding down the SHIFT button.

Note: You can move the zoomed area on the monitor with the joystick after Step 5.

Multiscreen Sequence

Digital disk recorder starts a sequence according to the setting of WJ-HD500 Series.

- 1. Enter the recorder mode (Refer to p. 131 Recorder Mode.)
- 2. Press the button 7 while holding down the SHIFT button.



3. To cancel the sequence, press the button 0 while holding down the SHIFT button.

The display will change into the multiscreen display.

• Other Operations

- **SHIFT + ZOOM TELE buttons:** Selects a group to be played back.
- **SHIFT + ZOOM WIDE buttons:** Changes the display mode of the Record List between the alarm search ON and OFF.
 - **ON:** Displays only the Alarm and Emergency Record List of the selected group.
 - **OFF:** Displays all the record lists for the selected group.

WJ-HD200 SERIES CONTROL (TERMINAL MODE)

Matrix switcher can control Digital Disk Recorder WJ-HD200 Series. The following is the procedure of WJ-HD200 Series SETUP MENU.

Notes:

- The following operating procedures are for the terminal mode. If you are using a PS·Data system controller, refer to p. 143.
- When a Multiplexer board is installed in the unit, you can neither connect nor control a WJ-HD200 Series recorder. You need to remove the board from the unit.

Displaying WJ-HD200 Series SETUP MENU

The operations are the same as WJ-HD500 Series. (Refer to p. 130.)

Controlling Digital Disk Recorder WJ-HD200 Series

The following are the operating procedures of WJ-HD200 Series via system controller.

Note: Refer to the operating instructions of Digital Disk Recorder WJ-HD200 Series for details.

Recorder Mode

The operations are the same as WJ-HD500 Series. (Refer to p. 131.)

Multiscreen Segment Switching

The operations are the same as WJ-HD500 Series. (Refer to p. 131.)

Note: 4C-, 4D-, 7-, 10-, 13- and 16-segment multiscreen display are unavailable.

Normal Playback

The operations are the same as WJ-HD500 Series. (Refer to p. 131.)

Note: You cannot skip to the previous/next record.

Manual Recording

The operations are the same as WJ-HD500 Series. (Refer to p. 132.)

Note: Refer to WJ-HD200 Series Operating Instructions for details and other recording modes.

Stopping REC ONLY Alarm Recording

The operations are the same as WJ-HD500 Series. (Refer to p. 132.)

Search Playback

You can search playback images using the ALARM RECALL table or the SEARCH table.

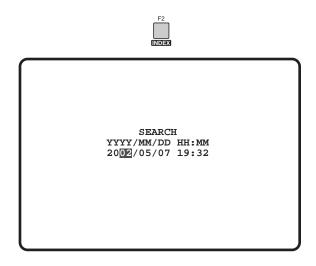
Every time you press the INDEX button, the display will change as follows.

Live image \rightarrow Date-and-time entry form \rightarrow ALARM RECALL table \rightarrow Live image

Date-and-time Search Playback

The recorded images can be searched for through the date and time.

- 1. Enter the recorder mode. (Refer to p. 131 Recorder Mode.)
- 2. Press the INDEX button. The date-and-time entry form will appear on the center of the monitor.

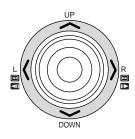


Note: The factory default setting is the current date and time.

 Press the numeric buttons or NEXT/PREV button to enter the desired date and time. The cursor can be adjusted by moving the joystick rightward or leftward.

Multiscreen Sequence

The operations are the same as WJ-HD500 Series. (Refer to p. 134.)



- 4. Press the PLAY button. After the search through the date and time, the recorded image will be played.
- 5. To return to the multiscreen display, press the STOP button.

Note: To cancel the entry form, press the CLEAR button.

• ALARM RECALL table

The recorder's alarm history will be displayed on the ALARM RECALL table.

Move the cursor with the joystick to the desired alarm number, and then press the PLAY button. The associated image will be played back.

ſ	Al	LARM RI	ECALL	YE/	AR03
	NO.	DATE	TIME		ALM
	2000	06-14	20:30	:00	T1
	1999	06-14	15:30	:12	тЗ
	1998	06-14	12:15	:04	т4
	1997	06-14	12:15	:02	V8
	1996	06-14	10:07	:05	V2
	1995	06-14	10:07	:04	т2
	1994	06-14	10:06	:55	тб
	1993	06-14	09:58	:32	V5
	(TOTA)	2000	DEVENT	S)	
	TO SI	EARCH 1	PUSH T	&D H	CEY
l					

Electronic Zooming (EL-ZOOM)

The operations are the same as WJ-HD500 Series. (Refer to p. 133.)

Note: 2 x and 4 x are available zooming range. 8 x is unavailable.

WJ-HD100 SERIES CONTROL MUX (TERMINAL MODE)

Digital Disk Recorder WJ-HD100 Series are operable with the system controller, when the Multiplexer board is installed in the unit.

Note: Before the use, it is necessary to install the Multiplexer board in the matrix switcher, connect the matrix switcher to the digital disk recorder, and configure the system through WJ-SX150A Administrator Console, OSD SETUP MENU, and WJ-HD100 Series SETUP MENU. [Refer to p. 32 Installing the Multiplexer Board, p. 45 Connection with Digital Disk Recorder WJ-HD100 Series, p. 63 WJ-SX150A SETUP MENU (OSD), p. 79 WJ-SX150A ADMINIS-TRATOR CONSOLE, and Displaying WJ-HD100 Series SETUP MENU in this page.]

Displaying WJ-HD100 Series SETUP MENU

The operations are the same as WJ-HD500 Series. Refer to p. 130 Displaying WJ-HD500 Series SETUP MENU. The following functions and buttons are valid in SETUP MENU.

Joystick to R (►): Decrements a parameter Joystick to L (◄): Increments a parameter

Controlling Digital Disk Recorder WJ-HD100 Series

The following are the operating procedures of WJ-HD100 Series via the system controller.

Multiscreen Segment Switching

The operating procedure is the same as WJ-HD500 Series. (Refer to p. 131.)

Note: 7-, 10-, or 13-segment multiscreen display is unavailable.

Normal Playback

The operations are the same as WJ-HD500 Series. (Refer to p. 131.)

Notes:

- You cannot skip to the previous/next record.
- Refer to WJ-HD100 Series Operating Instructions for details and other playback modes.

Manual Recording

The operations are the same as WJ-HD500 Series. Refer to p. 132.

Stopping REC ONLY Alarm Recording

The operations are the same as WJ-HD500 Series. Refer to p. 132.

Search Playback

You can search playback images using the ALARM RECALL table or the SEARCH table.

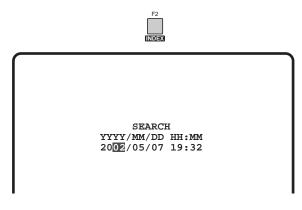
Every time you press the INDEX button, the display will change as follows.

Live image \rightarrow Date-and-time entry form \rightarrow ALARM RECALL table \rightarrow Live image

• Date-and-time Search Playback

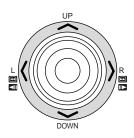
The recorded images can be searched for through the date and time.

- 1. Enter the recorder mode. (Refer to p. 131 Recorder Mode.)
- 2. Press the INDEX button. The date-and-time entry form will appear on the center of the monitor.



Note: The factory default setting is the current date and time.

 Press the numeric buttons or NEXT/PREV button to enter the desired date and time. The cursor can be adjusted by moving the joystick rightward or leftward.



- 4. Press the PLAY button. After the search through the date and time, the recorded image will be played.
- 5. To return to the multiscreen display, press the STOP button.

Note: To cancel the entry form, press the CLEAR button.

• ALARM RECALL table

The recorder's alarm history will be displayed on the ALARM RECALL table.

Move the cursor with the joystick to the desired alarm number, and then press the PLAY button. The associated image will be played back.

NO	ALARM REC DATE		10 ALM
99	JUN 9.00	00:00:00	*т
98	JUN 1.00	02:34:56	Т
97	JUN 1.00	01:10:01	* V
96	MAY31.00	23:34:45	v
95	MAY30.00	02:00:20	* Т
94	MAY14.00	05:30:31	* Т
93	MAY 7.00	23:00:59	т
92	MAY 6.00	22:05:50	v
91	APR14.00	23:00:59	* Т
90	APR14.00	16:06:34	* V

TIME-LAPSE VCR CONTROL MUX [PANASONIC MODELS] (TERMINAL MODE)

A time-lapse VCR (Panasonic Models) is operable with the system controller, while connecting to the matrix switcher.

Note: Before the use, it is necessary to install the Multiplexer board in the matrix switcher, connect the matrix switcher to the time-lapse VCR, and configure the system through WJ-SX150A Administrator Console, OSD SETUP MENU, and time-lapse VCR's SETUP MENU. [Refer to p. 32 Installing the Multiplexer Board, p. 46 Connection with the Timelapse VCR (Panasonic Models), p. 63 WJ-SX150A SETUP MENU (OSD), and p. 79 WJ-SX150A ADMINISTRATOR CONSOLE.]

The following is the procedure of a Panasonic model timelapse VCR.

■ Controlling the Time-lapse VCR

The following are the operating procedures of the timelapse VCR via system controllers.

Multiscreen Segment Switching

The operations are the same as WJ-HD500 Series. Refer to p. 131 Multiscreen Display.

Note: 7-, 10-, and 13- segment multiscreen display are unavailable.

Normal Playback

The operations are the same as WJ-HD500 Series. Refer to p. 131 Normal Playback.

Note: You cannot skip to the previous/next record.

Fast-forward

- 1. Press the FF button to fast-forward the tape during the stop.
- To stop fast-forwarding, press the STOP button.
 Note: Pressing the FF button during fast-forward will start playback.

Rewind

- 1. During the stop, press the REW button to rewind the tape.
- 2. Press the STOP button to stop rewinding.
 - **Note:** Pressing the PLAY button during rewind will start playback.

Manual Recording

The operations are the same as WJ-HD500 Series. Refer to p. 132 Manual Recording.

Stopping REC ONLY Alarm Recording

The operations are the same as WJ-HD500 Series. Refer to p. 132.

TIME-LAPSE VCR CONTROL MUX [NON-PANASONIC MODELS] (TERMINAL MODE)

A time-lapse VCR is operable with the system controller, while connecting to the matrix switcher.

Notes:

- Before the use, it is necessary to install the Multiplexer board in the matrix switcher, connect the matrix switcher to the digital disk recorder, and configure the system through WJ-SX150A Administrator Console, OSD SETUP MENU, and time-lapse VCR's SETUP MENU. [Refer to p. 32 Installing the Multiplexer Board, p. 47 Connection with the Time-lapse VCR (Non-Panasonic Models), p. 63 WJ-SX150A SETUP MENU (OSD), and p. 79 WJ-SX150A ADMINISTRATOR CONSOLE.]
- You cannot control non-Panasonic time-lapse VCRs from system controllers.

The following is the procedure of a non-Panasonic model time-lapse VCR.

Controlling the Time-lapse VCR

Multiscreen Segment Switching

The operations are the same as WJ-HD500 Series. Refer to p. 131 Multiscreen Segment Switching.

Note: 7-, 10-, and 13- segment multiscreen display are unavailable.

Normal Playback

- 1. Enter the recorder mode. (Refer to p. 131 Recorder Mode.)
- 2. Do the playback procedure using the buttons on the front panel. (Refer to the time-lapse VCR's operating instructions for how to operate.)
- 3. Press the PLAY button. The playback image will appear on the monitor.
- 4. To display the spot picture, press the numeric buttons corresponding to the desired camera number, then press the CAM [SET] button. Then, the active monitor number with "-H**" (** is the logical camera number)" will appear on the LED display. (Refer to p. 132 Normal Playback for the illustration.)

Other Operations

Refer to the time-lapse VCR's operating instructions for how to operate.

WJ-HD500 SERIES CONTROL (PS-DATA)

This section will describe what you should take notice when using a PS·Data system controller. The same descriptions as the system controller's operating instructions are not mentioned here. Refer to them.

■ Controlling the Recorder with a PS·Data System Controller

Recorder Mode

Before operating the recorder, it is necessary to enter the recorder mode.

- 1. Select the desired monitor. (Refer to p. 125 Monitor Selection.)
- 2. In the PS·Data mode, a number is assigned to each recorder. To select a desired recorder, enter the corresponding number by pressing the numeric buttons.

Recorder	Number
Master recorder	100
Slave 1 recorder	101
Slave 2 recorder	102
Slave 3 recorder	103
Slave 4 recorder	104

3. Press the CAM button.

The recorder image will be displayed on the selected monitor, and you will enter the recorder mode.

Operations

1. Press the SHIFT button to activate the FUNCTION buttons.

2. Enter the desired function code, and then press the FUNCTION button. (Refer to the diagram.)

Function	Code	Note
Forward field advance	1	Available only during pause
Backward field advance	2	Available only during pause
Pause	4	
Playback	5	
Recording	6	Equal to the REC button of the recorder
Stop recording and playback	8	
Stop playback	9	Exclusive use to stop playback
Stop recording	10	Exclusive use to stop recording
Search forward	11	
Search backward	12	
Displaying a recorder's OSD	19	Pressing again will hide the display.

3. To select a camera channel, press the numeric button(s), then CAM button. The system will exit from the recorder mode, and the selected camera image will be displayed on the monitor.

Notes:

- Only one operator can enter the recording mode.
- The images from the recorder, which are displayed on the monitor, is conformed to the recorder setting.
- You cannot skip to the previous/next record by moving the joystick.

• Stopping REC ONLY Alarm Recording

You can stop alarm recording activated by "REC ONLY" setting of 430 CAMERA/440 ALARM PORT/450 SERIAL PORT/460 MUX MOTION DET in SETUP MENU (refer to pp. 68 and 69) or the Alarm Mode window in WJ-SX150A Administrator Console (refer to p. 88).

To stop the alarm recording, press the ALM RESET button.

WJ-HD200 SERIES CONTROL (PS-DATA)

This section will describe what you should take notice when using a PS·Data system controller. The same descriptions as the system controller's operating instructions are not mentioned here. Refer to them.

■ Controlling the Recorder with a PS-Data System Controller

- 1. Enter the recorder mode. (Refer to p. 141.)
- 2. Press the SHIFT button to activate the FUNCTION buttons.
- 3. Enter the desired function code, and then press the FUNCTION button. (Refer to the diagram.)

Function	Code	Note
Forward field advance	1	
Backward field advance	2	
To the last field	3	
Pause	4	
Playback	5	
Recording	6	Equal to the REC button of the recorder
To the first field	7	
Stop recording and playback	8	
Stop playback	9	Exclusive use to stop playback
Stop recording	10	Exclusive use to stop recording
Search forward	11	Searching will speed up every time you enter the code.
Search backward	12	Searching will speed up every time you enter the code.
Displaying a recorder's OSD	19	Pressing again will hide the display.

4. To select a camera channel, press the numeric button(s), then CAM button. The system will exit from the recorder mode, and the selected camera image will be displayed on the monitor.

Notes:

- Only one operator can enter the recording mode.
- The images from the recorder, which are displayed on the monitor, is conformed to the recorder setting.

Stopping REC ONLY Alarm Recording

The operations are the same as WJ-HD500 Series. Refer to p. 142.

WJ-HD100 SERIES CONTROL MUX (PS-DATA)

This section will describe what you should take notice when using a PS·Data system controller. The same descriptions as the system controller's operating instructions are not mentioned here. Refer to them.

Note: Before the use, it is necessary to install the Multiplexer board in the matrix switcher, connect the matrix switcher to the digital disk recorder, and configure the system through WJ-SX150A Administrator Console, OSD SETUP MENU, and WJ-HD100 Series SETUP MENU. [Refer to p. 32 Installing the Multiplexer Board, p. 45 Connection with Digital Disk Recorder WJ-HD100 Series, p. 63 WJ-SX150A SETUP MENU (OSD), p. 79 WJ-SX150A ADMINISTRATOR CONSOLE, and p. 137 Displaying WJ-HD100 Series SETUP MENU.]

Controlling the Recorder with a PS-Data System Controller

Recorder Mode

- 1. Enter the recorder mode. (Refer to p. 141.)
- 2. Press the SHIFT button to activate the FUNCTION buttons.
- 3. Enter the desired function code, and then press the FUNCTION button. (Refer to the diagram.)

Function	Code	Note
Forward field advance	1	
Backward field advance	2	
To the last field	3	
Pause	4	
Playback	5	
Recording	6	Equal to the REC button of the recorder
To the first field	7	
Stop recording and playback	8	
Stop playback	9	Exclusive use to stop playback
Stop recording	10	Exclusive use to stop recording
Search forward	11	Searching will speed up every time you enter the code.
Search backward	12	Searching will speed up every time you enter the code.

4. To select a camera channel, press the numeric button(s), then CAM button. The system will exit from the recorder mode, and the selected camera image will be displayed on the monitor.

Notes:

- Only one operator can enter the recorder mode.
- The images from the recorder, which are displayed on the monitor, is conformed to the recorder setting.

Stopping REC ONLY Alarm Recording

The operations are the same as WJ-HD500 Series. Refer to p. 142.

TIME-LAPSE VCR CONTROL MUX [PANASONIC MODELS] (PS-DATA)

This section will describe what you should take notice when using a PS·Data system controller. The same descriptions as the system controller's operating instructions are not mentioned here. Refer to them.

Notes:

- Before the use, it is necessary to install the Multiplexer board in the matrix switcher, connect the matrix switcher to the time-lapse VCR, and configure the system through WJ-SX150A Administrator Console, OSD SETUP MENU, and time-lapse VCR's SETUP MENU. [Refer to p. 32 Installing the Multiplexer Board, p. 46 Connection with the Time-lapse VCR (Panasonic Models), p. 63 WJ-SX150A SETUP MENU (OSD), and p. 79 WJ-SX150A ADMINISTRATOR CONSOLE.]
- The time-lapse VCR's SETUP MENU cannot be displayed from a system controller.

■ Controlling the Time-lapse VCR with a PS-Data System Controller

- 1. Enter the recorder mode. (Refer to p. 141.)
- 2. Press the SHIFT button to activate the FUNCTION buttons.
- 3. Enter the desired function code, and then press the FUNCTION button. (Refer to the diagram.)

Function	Code	Note
Forward field advance	1	Available only during pause
Backward field advance	2	Available only during pause
Pause	4	
Playback	5	
Recording	6	
Stop recording/Playback	8	
Fast-forward/Search forward	11	Fast-forward during stop/Search forward during playback
Rewind/Search backward	12	Rewind during stop/Search backward during playback

4. To select a camera channel, press the numeric button(s), then CAM button. The system will exit from the recorder mode, and the selected camera image will be displayed on the monitor.

Notes:

- Only one operator can enter the recorder mode.
- The images from the recorder, which are displayed on the monitor, is conformed to the recorder setting.

Stopping REC ONLY Alarm Recording

The operations are the same as WJ-HD500 Series. Refer to p. 142.

TIME-LAPSE VCR CONTROL MUX [NON-PANASONIC MODELS] (PS-DATA)

A time-lapse VCR is operable with the system controller, while connecting to the matrix switcher.

Notes:

- The same descriptions as the system controller's operating instructions are not mentioned here. Refer to them.
- Before the use, it is necessary to install the Multiplexer board in the matrix switcher, connect the matrix switcher to the digital disk recorder, and configure the system through WJ-SX150A Administrator Console, OSD SETUP MENU, and time-lapse VCR's SETUP MENU. [Refer to p. 32 Installing the Multiplexer Board, p. 47 Connection with the Time-lapse VCR (Non-Panasonic Models), p. 63 WJ-SX150A SETUP MENU (OSD), and p. 79 WJ-SX150A ADMINISTRATOR CONSOLE.]
- You cannot control non-Panasonic time-lapse VCRs from PS·Data system controllers.

The following is the procedure of a non-Panasonic model time-lapse VCR.

Controlling the Time-lapse VCR with a PS-Data System Controller

Manual Recording

Refer to the time-lapse VCR's operating instructions for how to operate.

Normal Playback

- 1. Enter the recorder mode. (Refer to p. 141.)
- 2. Do the playback procedure using the buttons on the front panel of time-lapse VCR. (Refer to the time-lapse VCR's operating instructions for how to operate.)
- 3. Press the VCR/CAM button. The playback image will appear on the monitor.
- 4. To display the spot picture, press the numeric buttons corresponding to the desired camera number, then press the CAM [SET] button. Then, the active monitor number with "-H**" (** is logical the camera number)" will appear on the LED display. (Refer to p. 132 Normal Playback for the illustration.)

Other Operations

Refer to the time-lapse VCR's operating instructions for how to operate.

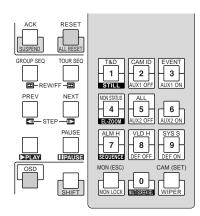
MONITOR DISPLAY WHEN A VIDEO LOSS OCCURS

Video Loss Display

- When video loss of CAMERA IN nn (nn is a number) is detected, " LOSS CH nn" will blink on the monitor.
- When more than one LOSS CH have occurred, "LOSS CH nn*" will appear on the monitor.

LOSS CH01 LOSS CH01*

- When the input loss is recovered, "LOSS CH nn" will disappear from the monitor.
- When you press the RESET button while pressing the "OSD"button, "LOSS CH nn" will disappear from the monitor.



■ Camera Switching Pulse Loss Display MUX

• When loss of the camera switching pulse is detected, "CAMSW LOSS R1" will blink on the monitor.



Note: "R1" is an example of a recorder number.

• When the camera switching pulse is recovered, "CAM SW LOSS R1" will disappear from the monitor.

TROUBLESHOOTING

Check to see the following before request for repair.

If a trouble cannot be removed even after checking and trying remedy, contact your dealer.

Problem	Check item	Remedy	
Matrix switcher does not power up.	The power cord may be disconnected either from the unit's power socket or the AC outlet.	Connect the power cord between the unit's power socket and the AC outlet.	
System controller(s) do (does) not log in.	The unit's power cord may be discon- nected from the AC outlet.	Connect the power cord to the AC out- let.	
	The cable connection(s) may be wrong between the unit and the system con-troller(s).	Confirm the cable connections. (Refer to p. 39.)	
	The mode selection switch setting of the system controller may be wrong.	Confirm the mode selection switch set- ting. (Refer to p. 24.)	
	Data port setting may be wrong.	Open the Data Port window of WJ- SX150 Administrator Console (refer to p. 96.) to select Terminal_K1 to K4 for the data port. If Camera is selected for the port, the log-in will be invalid.	
	Your ID, user number or password may be wrong.	Refer to your Operator Registration worksheet. Or open the Operator Regis- tration window (refer to p. 90) and reconfigure your ID, user number and password.	
Monitor is not selectable.	The monitor selection setting may be wrong.	Open the Monitor Selection window (refer to p. 92) and confirm the setting. If NG is assigned to your controller for the monitor, the selection will be invalid.	
Camera image is not displayed even after selecting the camera.	The camera's power cord connection may be wrong.	Confirm the power cord connection. (Refer to the camera's operating instructions.)	
	The cable connections may be wrong between the unit and the camera.	Confirm the connections (refer to pp. 36 to 38). If the connections and camera type are not correspondent, the camera image will not appear.	
	The lens cover may not have been removed from the camera.	Remove the lens cover from the camera.	
	The monitor's brightness or contrast setting may not be proper.	Adjust the setting. (Refer to the moni- tor's operating instructions.)	
	The lens iris of a camera may be closed.	Press the IRIS OPEN button.	

Problem	Check item	Remedy
The camera image is dim.	Dust may be sticking on the camera lens.	Remove the dust from the camera lens.
	The camera's lens focus may not be proper.	Press the FOCUS NEAR/ FAR buttons to adjust the lens focus. If the camera sup- ports auto focus, press these buttons simultaneously. The lens focus can be adjusted automatically.
	The camera's cable compensation set- ting may not be proper.	Open 730 COMPENSATION/VD2/DATA (refer to p. 74) or the Cable Compensa- tion/VD2 window (refer to p. 94) to con- firm the setting.
The camera is not operable.	The camera may not have been select- ed.	Select the camera again. (Refer to p. 107.)
	The camera may not support the function you try to execute.	Confirm whether the camera supports the function. (Refer to the camera's oper- ating instructions.)
	The camera's cable setting may wrong.	Open 730 COMPENSATION/VD2/DATA (refer to p. 74) or the Cable Compensation/VD2/DATA (refer to p. 94) window to confirm the setting. If the cam- era's DATA is set to OFF, the cameras will not be operable.
	The data port setting may wrong.	Open the Data Port window (refer to p. 96) and confirm the setting.
	When the BUSY indicator is lighting on the system controller, a higher-priority operator has selected the camera.	 Select another camera. Wait until a higher-priority operator fin- ishes controlling the camera.
	While the PROHIBITED indicator is light- ing on the system controller, you are pro- hibited to control the camera.	Open the Operator Registration window (refer to p. 90) and reconfigure the setting.
OSD items (Clock, Camera title, Monitor status, Event) overlap one another.		 Turn off an overlapping item. (Refer to p. 115.) Move OSD items. (Refer to p. 115.) Change the area title display position through the camera's setup menu. (Refer to the camera's operating instructions.)
Tour/group sequence is not activated.	The tour/group sequence setting may be wrong.	Open 300 SEQUENCE (refer to p. 66), the Tour Sequence (refer to p. 84) or Group Sequence (refer to p. 85) window and reconfigure the setting.
	The setting has not been put from the PC to the unit.	Put the file to the unit again after the con- figuration. (Refer to p. 83 Put a file to SX150A.)
	When the PROHIBITED indicator is light- ing on the system controller, you are pro- hibited to control the camera.	Open 800 OPERATOR REGISTRATION (refer to p. 76) or the Operator Registration window (refer to p. 90) and reconfigure the setting.

Problem	Check item	Remedy
The alarm mode is not activated.	The alarm mode is set to OFF.	Set the alarm mode to SEQUENCE or HOLD in SETUP MENU or WJ-SX150A Administrator Console.
		SETUP MENU: Refer to p. 67. Administrator Console: Refer to p. 88.
	The port for an alarm input is set to OFF.	Set the alarm port to ON in SETUP MENU or WJ-SX150A Administrator Console.
		SETUP MENU: Refer to pp. 68 to 69 Administrator Console: Refer to p. 88.
	When "ALM SUSPENDED" is displayed on the monitor, the alarm is suspended.	Press the ACK/SUSPEND button while holding down the SHIFT button to cancel the alarm suspension.
	SETUP MENU may be open.	Press the SETUP button while holding down the SHIFT button to close SETUP MENU.
ACK or RESET is not activated.	You may not have selected the alarm- related monitor.	Select the monitor again. (Refer to pp. 106 or 125.)
	The system controller is not authorized to select the monitor.	Confirm the Monitor Selection window in WJ-SX150A Administrator Console and reconfigure the setting if necessary. (Refer to p. 92.)
	You are not authorized to reset an alarm.	Confirm the Level Table window in WJ- SX150A Administrator Console and reconfigure the setting if necessary. (Refer to p. 91.)
	While the PROHIBITED indicator is lighting on the system controller, you are prohibited to control the monitor.	Open the Monitor Selection window (refer to p. 92) and reconfigure the set- ting if necessary.
Timer event is not activated.	A higher-priority operator may have selected the event-related monitor.	Select another monitor.
SETUP MENU does not open.	When the PROHIBITED indicator is light- ing on the system controller, you are pro- hibited to open SETUP MENU.	Open the Level Table window (refer to p. 91) and reconfigure the setting.
The system does not enter the recorder mode.	The recorder connection may be wrong.	Connect the recommended recorder to the unit.
	The connected recorder may not con- form to the unit.	Confirm the recorder connection (refer to pp. 40 to 47.)
	You are not authorized to operate the recorder.	Open the Level Table window (refer to p. 91) and reconfigure the setting.
"NOT ASSIGN" is displayed beside the camera number on the monitor.	When you select the LCN (logical cam- era number) not assigned in the system, "NOT ASSIGN" will appear.	Select an assigned logical camera num- ber. (Refer to p. 107.)
"Initializing" is displayed on monitors.	If connections or settings are wrong, this message, SLAVE n*, and the firmware version will be displayed after you turn on a Slave recorder. *n is a unit number.	Confirm the connections (refer to pp. 33 to 55) and settings (refer to pp. 57 to 102).
(For WJ-HD500 Series recorders) You cannot search for records even when car-rying out the Search Playback procedure.	"Error" or "TIME OUT" may be displayed after pressing the PLAY button in the date-and-time entry form.	The date-and-time entry form is unavail- able. Use Record List or Thumbnail Display to search for records.
Recording or playback with the recorder is not correctly carried out.	Camera number settings are wrong.	Conform the LCN (logical camera num- ber) settings of the unit and camera number settings of the recorder.

APPENDIX

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COMMUNICATION PROTOCOL

The following pages detail the elements for communication between the unit and the PC. When operating the PC, make sure to conform the serial port's communication speed to that of the unit. The unit's communication speed is configurable by changing COM. SPEED in SETUP MENU. Data, parity and stop bits have been set as follows:

Item	Parameter	
Data length	8bit(fixed)	
Parity bit	NONE(fixed)	
Stop bit	1bit(fixed)	
Hardware flow control (ER/DR/RS/CS)	Not supported yet	
Software flow control (Xon/Xoff)	Not supported yet	
Wait Time	Not supported yet	

1. Transmission Command

The PC sends messages to the recorder in the following format. Also refer to the command table.

Code	[STX] [Transmission Command] : [p1] : [p2] : : [pn] [ETX]
ASCII	(02H) ()() (03H)

[p] stands for parameter. Parameters are omitted when the command does not need to specify them.

2. Response Command

The unit returns messages to the PC with the following formats.

(1) Reception Command

When the reception was completed successfully, the unit sends back the "ACK code 06H" to the PC, and then the response command.

Code	[STX] [Response Command]: [p1]: [p2]: : [pn] [ETX]
ASCII	(02H) ()() (03H)

Parameters are omitted when the command format includes neither data nor status to send back.

(2) Reception Error

The unit sends back "NAK code 15H", followed by the parameters. The unit then resets the reception buffer and enters the waiting mode for the next message. Parameter "e" identifies the error status.

Code	[NAK] [e]			
ASCII	(15H)			
1: Parity error (31H)				
2: Overflow error (32H)				

3: Framing error (33H)

4: Overrun error (34H) 5: Timeout error (35H)

(3) Parameter Error

The unit returns "ACK code 06H", if the transmission code was not processed properly, followed by an error code.

Code	[STX] [Response Command] : [E] [R] [n1] [n2] [n3] [ETX]
ASCII	(02H) ()(45H) (52H) 03H

[n] stands for an error code number. (Refer to p. 161.)

Note: The unit returns [ACK] or [NAK] to the PC within 20 ms after the reception of [ETX] in a transmission.

Command Table

Basic Operation

Item	Transmission Command (ASCII)	Response (ASCII)	Parameter (ASCII)
Log-in	CMD:Wnnnnn-ppppp	ANS:WOK (When OK) ANS:WNG (When NG)	nnnn= Operator number pppp= Password
Log-out	CMD:H00LG	ANS:H00LG	
Monitor Selection	CMD:HmmMS	ANS:HmmMS	mm=Monitor No.
Camera Selection	CMD:HmmCScc CMD:HmmCS+1 CMD:HmmCS-1	ANS:HmmCScc ANS:HmmCS+1 ANS:HmmCS-1	mm=Monitor No. cc=Camera No. +1=To the next camera (Next) -1=To the previous camera (Prev)
Starting tour sequence	CMD:HmmSTnn	ANS:HmmSTnn	mm=Monitor No. nn=Tour sequence No. nn=00 Recorder sequence ON when the recorder is selected.
Starting group sequence	CMD:H00SGn	ANS:H00SGn	n=Group sequence No.
Pausing sequence (PAUSE)	CMD:HmmSP	ANS:HmmSPn	mm=Monitor No. n=0 (SEQUENCE), 1 (PAUSE)
Stopping sequence (STOP)	CMD:HmmSO	ANS:HmmSO	mm=Monitor No.
Sequence increment (NEXT)	CMD:HmmSI	ANS:HmmSI	mm=Monitor No. Available only during sequence pause
Sequence decrement (PREV)	CMD:HmmSD	ANS:HmmSD	mm=Monitor No. Available only during sequence pause
Priority lock	CMD:HmmPR	ANS:HmmPRn	Transmission command toggles priority lock ON or OFF. mm=Monitor No. n=0 (OFF) n=1 (ON)
OSD display ON / OFF or Moving OSD display posi- tion	CMD:Hmmss(o)	ANS:HmmALn	Transmission command toggles OSD display ON or OFF.Use (o) parameter when moving OSD display position. mm=Monitor No.ss=ALAll OSD items ON/OFF ss=TMss=TLCamera title ON/OFF ss=TEss=TEEvent ON/OFF ss=TOo=UMoving upward o=D Moving leftward o=Ro=UDisplayed n=1n=0Displayed n=1
History or status display ON/OFF	CMD: Hmmss	ANS: Hmmssn	mm=Monitor No. ss=DA Alarm history ON/OFF ss=DV Video loss history ON/OFF ss=DS System status ON/OFF n=0 Displayed n=1 Not displayed

Alarm Control

Item	Transmission Command (ASCII)	Response (ASCII)	Parameter (ASCII)
Alarm input	OAIcc	No response	cc=Alarm No.
Alarm ACK (Each monitor)	CMD:HmmAK	ANS:HmmAK	mm=Monitor No.
Alarm reset (Each monitor)	CMD:HmmAR	ANS:HmmAR	mm=Monitor No.
Alarm all reset	CMD:H00AR	ANS:H00AR	
Alarm suspension	MAD	madn	Transmission command toggles alarm sus- pension ON or OFF. n=0 OFF n=1 ON

Setup Control

Item	Transmission Command (ASCII)	Response (ASCII)	Parameter (ASCII)
Display SETUP MENU	CMD:HmmSS	ANS:HmmSS	mm=Monitor No.
Return to normal view*	CMD:HmmSE	ANS:HmmSE	mm=Monitor No. *Available only in SETUP MENU
Move the cursor leftward	CMD:AmmJL	_	mm=Monitor No.
Move the cursor rightward	CMD:AmmJR	_	mm=Monitor No.
Move the cursor upward	CMD:AmmJU	_	mm=Monitor No.
Move the cursor downward	CMD:AmmJD	_	mm=Monitor No.
Enter "0"	CMD:AmmT0	_	mm=Monitor No.
Enter "1"	CMD:AmmT1	_	mm=Monitor No.
Enter "2"	CMD:AmmT2	_	mm=Monitor No.
Enter "3"	CMD:AmmT3	_	mm=Monitor No.
Enter "4"	CMD:AmmT4	_	mm=Monitor No.
Enter "5"	CMD:AmmT5	_	mm=Monitor No.
Enter "6"	CMD:AmmT6	_	mm=Monitor No.
Enter "7"	CMD:AmmT7	_	mm=Monitor No.
Enter "8"	CMD:AmmT8	_	mm=Monitor No.
Enter "9"	CMD:AmmT9	_	mm=Monitor No.
SET	CMD:AmmST	_	mm=Monitor No.
ESC	CMD:AmmES	_	mm=Monitor No.
INC	CMD:AmmIN	_	mm=Monitor No.
DEC	CMD:AmmDE	_	mm=Monitor No.
NEXT	CMD:AmmNX	_	mm=Monitor No. Available in SETUP MENU, Alarm History and Video Loss History
PRE	CMD:AmmPR	_	mm=Monitor No. Available in SETUP MENU, Alarm History and Video Loss History
Reset a motion-detection area one by one	CMD:AmmCL	_	mm=Monitor No. Same function as pressing the CLEAR button
Reset all motion-detection areas of a camera channel	CMD:AmmCV	_	mm=Monitor No. Same function as pressing the CLEAR button while holding down the SHIFT button

Camera Control

Item	Transmission Command (ASCII)	Response (ASCII)	Parameter (ASCII)
PAN/TILT	CMD:CmmPTccxxyy	_	mm=Monitor No.
			cc=Camera No.
			Panning speed
			xx=00 STOP
			xx=01 to 40(HEX) + direction panning
			(Max is 40 and min is 01)
			xx=81 to C0(HEX) - direction panning
			(Max is C0 and min is 81)
			• Tilting speed
			yy=00 STOP
			yy=01 to 40(HEX) + direction tilting
			(Max is 40 and min is 01)
			yy=81 to C0(HEX) - direction tilting
			(Max is C0 and min is 81)
Zoom	CMD:CmmZMccn		mm=Monitor No.
			cc=Camera No.
			n=0 STOP
			n=1 TELE
			n=2 WIDE
Focus	CMD:CmmFCccn	_	mm=Monitor No.
			cc=Camera No.
			n=0 STOP
			1 NEAR
			2 FAR
			3 AUTO FOCUS
ris	CMD:CmmIRccn	_	mm=Monitor No.
			cc=Camera No.
			n=0 STOP
			n=1 OPEN
			n=2 CLOSE
			n=3 AUTO IRIS

Item	Transmission Command (ASCII)	Response (ASCII)	Parameter (ASCII)
Camera's SETUP MENU	CMD:CmmCMccn	_	mm=Monitor No. cc=Camera No. n=0 OFF
			n=1 ON
			The following commands are available in SETUP MENU:
			CMD:AmmJL (Move the cursor leftward) CMD:AmmJR (Move the cursor rightward)
			CMD:AmmJU (Move the cursor upward) CMD:AmmJD (Move the cursor downward)
			CMD:AmmST (SET)
			CMD:AmmES (ESC) CMD:AmmIN (RESET)
			CMD:AmmDE (ALL RESET)
Call Preset Position	CMD:CmmPMccnn	_	mm=Monitor No. cc=Camera No.
			nn=01 to 64 Preset position No.
			nn=00 Home position
Program Preset Position	CMD:CmmPSccnn	_	mm=Monitor No. cc=Camera No.
			cc=Camera No. nn=01 to 64 Preset position No.
Color/BW	CMD:CmmBWccn	_	mm=Monitor No.
			cc=Camera No. n=0 OFF (Color)
			n=1 ON (BW)
Patrol	CMD:CmmPAccn	—	mm=Monitor No.
			cc=Camera No. n=0 STOP
			n=1 PLAY
			n=2 LEARN
Camera Function	CMD:CmmCFccnnn	—	mm=Monitor No. cc=Camera No.
			nnn=Camera function No. (001 to 256)
Auto Panning	CMD:CmmAPccn	_	mm=Monitor No.
			cc=Camera No. n=0 AUTO PAN
			n=1 AUTO SORT
			n=2 AUTO SEQ
Wiper	CMD:CmmWPccn	—	mm=Monitor No. cc=Camera No.
			n=0 OFF
			n=1 ON
Defroster	CMD:CmmDFccn	—	mm=Monitor No. cc=Camera No.
			n=0 OFF
			n=1 ON
AUX1	CMD:CmmA1ccn	—	mm=Monitor No.
			cc=Camera No. n=0 OFF
			n=1 ON
AUX2	CMD:CmmA2ccn	_	mm=Monitor No.
			cc=Camera No. n=0 OFF
			n=1 ON

Recorder Control

Item	Transmission Command (ASCII)	Response (ASCII)	Parameter (ASCII)
Recorder button	CMD:HmmRSnn	ANS:HmmRSnn	nn=00 Master recorder selected
			nn=01 Slave 1 recorder selected
			nn=02 Slave 2 recorder selected
			nn=03 Slave 3 recorder selected
			nn=04 Slave 4 recorder selected
			nn=99 Recorder mode cancelled
			When nn is not entered, the Master recorder
			is selected.
Multiscreen segment switch-	CMD:RmmML	ANS:RmmML	mm=Monitor No.
			T
Electronic Zoom	CMD:RmmZM	ANS:RmmZMn	Transmission command toggles zoom.
			mm=Monitor No.
			n=0 Zoom OFF
			n=1 + mark display ON*
			n=2 Two-fold zoom
			n=4 x4Live image/Playback image
			n=8 x8Live image/Playback image
			*Available only with the Multiplexer board
Live/Playback image	CMD:RmmVS	ANS:RmmVSn	Necessary when using a non-Panasonic
			recorder with the Multiplexer board.
			Transmission command changes the monitor
			display between live and playback image.
			n=0 Live image
			n=1 Playback image
Play	CMD:RmmPL	ANS:RmmPL	mm=Monitor No.
Pause	CMD:RmmPA	ANS:RmmPA	mm=Monitor No.
Stop	CMD:RmmSPn	ANS:RmmSPn	mm=Monitor No.
			n=0 Stop playback
			n=1 Stop recording

Item	Transmission Command (ASCII)	Response (ASCII)	Parameter (ASCII)
Still display	CMD:RmmSTcc	ANS:RmmSTccn	Available only with the Multiplexer board
			Transmission command toggles still display ON or OFF.
			mm=Monitor No.
			cc=Camera No.
			(cc=00 when toggling multiscreen still ON or OFF)
			n=0 OFF
			n=1 ON
FF	CMD:RmmFF	ANS:RmmFF	mm=Monitor No.
REW	CMD:RmmRW	ANS:RmmRW	mm=Monitor No.
Forward field advance	CMD:RmmFA	ANS:RmmFA	mm=Monitor No.
Backward field advance	CMD:RmmRA	ANS:RmmRA	mm=Monitor No.
Record	CMD:RmmRC	ANS:RmmRC	mm=Monitor No.
Index	CMD:RmmSC	ANS:RmmSC	mm=Monitor No.
			Transmission command changes the monitor
			display between index and live image.
			Setup control commands (refer to p. 154) are available while the index is displayed.
Search editing area	CMD:RmmTMn	ANS:RmmTMn	Available only for Record List and Thumbnail Display of WJ-HD500 Series
			Transmission command toggles search edit- ing area ON/OFF, or starts search.
			mm=Monitor No.
			n=0 OFF
			n=1 ON n=2 Search start
			n=2 Search start
Group select	CMD:RmmTG	ANS:RmmTG	Available only for Record List and Thumbnail Display of WJ-HD500 Series
			Thunbhan Display of wij-fib500 Series
			Transmission command selects group to be
			displayed.
			mm=Monitor No.
Alarm search	CMD:RmmAS	ANS:RmmAS	Available only for Record List and
			Thumbnail Display of WJ-HD500 Series
			Transmission command toggles alarm search ON or OFF.
			mm=Monitor No.

Item	Transmission Command (ASCII)	Response (ASCII)	Parameter (ASCII)
Model No	QID	qid:WJ-SX150A	Matrix switcher's model No.
Software version	QRV	qrv:*.** /*.** /*.** /*.** /*.**	<pre>qrv:*.**=Unit firmware version /*.**= Master unit's Multiplexer-board firmware version /*.**= Slave 1 unit's Multiplexer-board firmware version /*.**= Slave 2 unit's Multiplexer-board firmware version /*.**= Slave 3 unit's Multiplexer-board firmware version /*.**= Slave 4 unit's Multiplexer-board firmware version</pre>
Alarm history	QAD	qad:nnn:YYYYMMDD hhmmss:cc:ee:s	nnn=alarm-event total number (000 to 100) *=Event of alarm n (n is a number). Display pattern: YYYYMMDDhhmmss:cc:ee:s
			YYYY=Year MM=Month DD=Day hh=Hour mm= Month ss=Second cc=Alarm number (associated with the cam- era number: 00 when the alarm is suspended) ee= Event 00=ALARM 01=ACK 02=RESET 03=ALARM SUSPEND s=Daylight saving time 0=OFF 1=ON
Video loss history	QVD	qvd:nnn: YYYYMMDD hhmmss:cc:ee:s	nnn=video-loss total number (000 to 100) *=Event of video loss n (n is a number). Display pattern: YYYYMMDDhhmmss:cc:ee:s
			YYYY=Year MM=Month DD=Day hh=Hour mm= Month ss=Second cc=Video loss number (associated with the camera number: 00 in case of camera switching pulse loss/recovery) ee= Event 00=Video loss 01=Video loss 01=Video loss recovery 02=Camera switching loss 03=Camera switching recovery 04=SLAVE DOWN 05=SLAVE RECOVER s=Daylight saving time 0=OFF 1=ON

Miscellaneous Control

Item	Transmission Command (ASCII)	Response (ASCII)	Parameter (ASCII)
Alarm display	_	ALM:cc:a:yyyymmdd:hhmm	a=Event
		ss:b	0=ALARM
			1=ACK
			2=RESET
			yyyy=Year
			mm=Month
			dd=Day
			hh=Hour
			ss=Second
			b=Daylight saving time
			0=OFF
			1=ON

Error Code List

• Matrix switcher and external devices

Error code(ASCII)	Error type	Meaning
ER000	No error	There is no error.
ER001	No associated command	There is no associated command.
ER002	Parameter invalid	The parameter's number, digit and range are invalid.
ER003	Receiver buffer's overflow	The receiver buffer has reached overflow capacity.
ER301	Command invalid	Invalid operation mode caused the command error.
ER302	Parameter invalid	The parameter's number, digit and range are valid, but the operation mode
		is invalid.
ER303	Gateway reception overflow	Reception buffer overflow has occurred on the other device during the
		gateway communication.
ER305	Gateway timeout error	Timeout error has occurred during the gateway communication.
ER309	Internal error	The internal processing error has happened.

Example: The command is valid but it cannot be executed.

(1) The unit receives the zoom command while selecting a camera without electronic zoom function.

Transmission Command (ASCII) [STX] CMD:R01ZM [ETX]

Transmission Command (ASCII) [STX] ANS:R01ZM:ER301 [ETX]

WORKSHEETS

Gathering information for the initial configuration and recording on the following worksheets are recommended. Then, if settings need to be modified or updated later because of a change in surveillance needs or changes made in the system's components, those worksheets can be used to track revisions to your system.

You should keep all revised worksheets. Be sure to date them, in preparation for new entry or troubleshooting. Regardless of the system size, the worksheets can track past, current, and future configurations.

Instruction

Each worksheet's title is the same as that of WJ-SX150A Administrator Console.

For example, the "Operator Registration" worksheet supports the "Operator Registration" window.

The worksheets' rows, columns, and fields are arranged to match WJ-SX150A Administrator Console configuration requirements.

1. Reproduce the worksheets. You may need dozens of copies.

2. Reproduce instructions for the configuration windows . You can attach the portions of instructions to the worksheets.

To keep record of the initial configuration of the system, date the "Data Completed" line on the top left of each sheet.

Checklist

It is recommended that the worksheets be completed in the following sequence:

Master-Slave

Master	ON
Slave 1	ON/OFF
Slave 2	ON/OFF
Slave 3	ON/OFF
Slave 4	ON/OFF

Logical Camera Number

Normal connection (one unit only)

Camera	LCN
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	

Master and Slave 1

	LCN		
Camera	Slave 1	Master	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

Master, Slave 1 and Slave 2

	LCN		
Camera	Slave 1	Slave 2	Master
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

Master and Slave 1 to 3

	LCN			
Camera	Slave 1	Slave 2	Slave 3	Master
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				

Master and Slave 1 to 4

	LCN			
Camera	Slave 1	Slave 2	Slave 3	Slave 4
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				

Tour Sequence

				Tour / 32
Step	LCN	Preset position	Dwell time	Remark
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				

Tour	/ 32
------	------

Step	LCN	Preset position	Dwell time	Remark
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				
61				
62				
63				
64				

Group Sequence

Group	Monitor 1	Monitor 2	Monitor 3	Monitor 4
1				
2				
3				
4				

• Timer Event

Schdule	Daily	Every	Hour	Minute	
Mode	Weekly Every	Sunday			
			Monday		
			Tuesday		
			Wednesday		
			Thursday		
			Friday		
			Saturday		
	Monthly	Every	Day#		
Action	Tour Sequence	Monito	r#	Tour#	
	Spot Camera	Logica	Camera Number	Preset Position#	

Camera Auto Cleaning

Schdule	Daily	Every	Hour	Minute	
Mode	Weekly	Every	Sunday		
			Monday		
			Tuesday		
			Wednesday		
			Thursday		
			Friday		
			Saturday		
	Monthly	Every	Day#		
Auto Cleaning	Cam #1	Cam #5		Cam #9	Cam #13
Camera	Cam #2	Cam #6	5	Cam #10	Cam #14
	Cam #3	Cam #7	,	Cam #11	Cam #15
	Cam #4	Cam #8		Cam #12	Cam #16

• Daylight Saving Time

Start	End

Start	End

Alarm Mode

Alarm Mode	Dwell	
OFF		
Sequence Mode		sec.
Hold Mode		

Auto Reset Time sec.

Alarm Input	
Camera Site Alarm	OFF / ON / REC only
Alarm Port	OFF / ON / REC only
Serial Port	OFF / ON / REC only
Mux Motion Det	OFF / ON / REC only

• Sensitivity

LCN	Level
	OFF/LOW/MID/HIGH

Alarm Event

		Alam Event		Alam Port		
ALM#	Monitor#	LCN/Tour	Num	Pre	Master/Slave	Num
1						
2						
3						
4						
5						
6 7						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						

$\begin{array}{ c c c c c c c c c c c c c c c c c c c$			Ala	am Event		Alam Port	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ALM#	Monitor#	LCN/Tour	Num	Pre	Master/Slave	Num
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$							
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$							
38							
39							
40							
41							
42	40						
43	41						
44 <							
$ \begin{array}{ c c c c c c c c } 45 & & & & & & & & & & & & & & & & & & $							
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	44						
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	45						
$\begin{array}{ c c c c c c c c } 48 & & & & & & & & & & & & & & & & & & $	46						
49 <	47						
50 <	48						
51 Image: state of the s	49						
52 <	50						
53 Image: state of the s	51						
54 Image: Second s	52						
54 Image: Second s	53						
55 Image: S5 Image							
57 58 59 60 61	55						
58 59 60 61	56						
59	57						
60	58						
61	59						
	60						
63	61						
02	62						
63							
64							
65							
66							

		AI	am Event		Alam Port	
ALM#	Monitor#	LCN/Tour	Num	Pre	Master/Slave	Num
67						
68						
69						
70						
71						
72						
73						
74						
75						
76						
77						
78						
79						
80						
81						
82						
83						
84						
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86						
87						
88						
89						
90						
91						
92						
93						
94						
95						
96						
97						
98						
99						

Alarm Port

Alarm #	Alarm Port
1	N.O./N.C./Time
2	N.O./N.C./Time
3	N.O./N.C./Time
4	N.O./N.C./Time
5	N.O./N.C./Time
6	N.O./N.C./Time
7	N.O./N.C./Time
8	N.O./N.C./Time
9	N.O./N.C./Time
10	N.O./N.C./Time
11	N.O./N.C./Time
12	N.O./N.C./Time
13	N.O./N.C./Time
14	N.O./N.C./Time
15	N.O./N.C./Time
16	N.O./N.C./Time

Operator Registration

Operator#	ID	Password	Level	Priority		Camera Access														
Operator#		1 2330010	Level	THORY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Timer	—	—	_		—	—			—	—			—	_	—	—				—
1			1	1																
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				

Camera Access 1: View & Control 2: View Only 3: Prohibited

Level Table

Control	Level 1	Level 2	Level 3
SX150A Setup			
Camera Setup			
Program Preset Position			
Camera Control			
Camera Selection			
Recorder Setup			
Recorder Control			
All Alarm Reset			
Single Alarm Reset			
Alarm Suspend			
Call Sequence			
Alarm History Display			
Video Loss History Display			
System Status Display			
OSD Control			

Monitor Selection

	Monitor 1	Monitor 2	Monitor 3	Monitor 4
Terminal_K1	OK / NG	OK / NG	OK / NG	OK / NG
Terminal_K2	OK / NG	OK / NG	OK / NG	OK / NG
Terminal_K3	OK / NG	OK / NG	OK / NG	OK / NG
Terminal_K4	OK / NG	OK / NG	OK / NG	OK / NG
PC	OK / NG	OK / NG	OK / NG	OK / NG

• Auto Log-in/Log-out

Auto L	.og-in	Auto Log-out		Minute(s)
Terminal_K1		Terminal_K1		
Terminal_K2		Terminal_K2		
Terminal_K3		Terminal_K3		
Terminal_K4		Terminal_K4		

Cable Compensation/VD2

Camera #	Cable Compensation	VD2	DATA
Cam 1	S/M/L	ON / OFF	ON / OFF
Cam 2	S/M/L	ON / OFF	ON / OFF
Cam 3	S/M/L	ON / OFF	ON / OFF
Cam 4	S/M/L	ON / OFF	ON / OFF
Cam 5	S/M/L	ON / OFF	ON / OFF
Cam 6	S/M/L	ON / OFF	ON / OFF
Cam 7	S/M/L	ON / OFF	ON / OFF
Cam 8	S/M/L	ON / OFF	ON / OFF
Cam 9	S/M/L	ON / OFF	ON / OFF
Cam 10	S/M/L	ON / OFF	ON / OFF
Cam 11	S/M/L	ON / OFF	ON / OFF
Cam 12	S/M/L	ON / OFF	ON / OFF
Cam 13	S/M/L	ON / OFF	ON / OFF
Cam 14	S/M/L	ON / OFF	ON / OFF
Cam 15	S/M/L	ON / OFF	ON / OFF
Cam 16	S/M/L	ON / OFF	ON / OFF

• Camera Title

	Camera ID (Up to 20 characters)
Cam 1	
Cam 2	
Cam 3	
Cam 4	
Cam 5	
Cam 6	
Cam 7	
Cam 8	
Cam 9	
Cam 10	
Cam 11	
Cam 12	
Cam 13	
Cam 14	
Cam 15	
Cam 16	

Data Port

RS485 Port	Protocol	Baud Rate	RS485	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
RS485	Camera	bps	Camera																
DATA 1	Camera/Terminal_K1/K2/K3/K4	bps	Daisy																
DATA 2	Camera/Terminal_K1/K2/K3/K4	bps																	
DATA 3	Camera/Terminal_K1/K2/K3/K4	bps	1																
DATA 4	PS·Data/Terminal_K1/K2/K3/K4	bps																	

PS·Data mode (for DATA 4)						
Logout Time	sec.					
Alarm Data	sec.					
Wait Time						
Group Address						

Recorder

Recorder Control	OFF/HD100/HD200/HD500/VCR
Unit Address	
EXT IN	Genlock off/on

Multiplexer

Multi	Monitor Out						
	Still Display						
	Border Color	WHITE/GRAY/BLACK/OFF					
	Quad Shift						
	Secret View						
	Sequence Mode	Quad / 3+1 / 8+1	5	s			

REC	REC Out (Normal)					
	REC MODE	EXT				
		INT	Fields			
	Title Display					
	Clock Display					

REC	Out (Alarm)							
	REC MODE				EXT	-		
					INT			Fields
	Dynamic REC	;	OFF /	ALM	-PRI	/ ALM-	ONLY / GROUP	
		GR	OUP					
		Car		Cam		Cam	Cam	
	Group 1							
	Group 2							
	Group 3							
	Group 4							
	Group 5							
	Group 6							
	Group 7							
	Group 8							
	Group 9							
	Group 10							
	Group 11							
	Group 12							
	Group 13							
	Group 14							
	Group 15							
	Group 16							

System			
	Camera SW Loss		
	Dummy Black		

Multiplexer Title	
Cam1	
Cam2	
Cam3	
Cam4	
Cam5	
Cam6	
Cam7	
Cam8	
Cam9	
Cam10	
Cam11	
Cam12	
Cam13	
Cam14	
Cam15	
Cam16	

SPECIFICATIONS

Power Source: 120 V AC. 60 Hz Power Consumption: 60 W Camera Input (1 to 16): 1.0 V[p-p]/75 Ω composite video signal 0.5 V[p-p]/75 Ω data signal and 2.5 V[p-p]/75 Ω vertical timing pulse multiplexed Camera Output (1 to 16): 1.0 V[p-p]/75 Ω composite video signal Monitor Output (1 to 4): 1.0 V[p-p]/75 Ω composite video signal External Input (PLAY IN): 1.0 V[p-p]/75 Ω composite video signal External Output (REC OUT): 1.0 V[p-p]/75 Ω composite video signal* RS-485 (Camera) Port: RS-485 6-conductor modular jack Data Port: RS-485 6-conductor modular jack Alarm Port: 25-pin D-sub connector Serial Port: 9-pin D-sub connector Camera Switching Input: RCA pin jack* Ambient Operating Temperature: -10 °C to +50 °C (14 °F to 122 °F) Ambient Operating Humidity: Less than 90 % Dimensions: 420 mm (W) X 88 mm (H) X 350 mm (D) [16-9/16" (W) X 3-7/16" (H) X 13-3/4" (D)] Weight: 6.0 kg (13.2 lbs.)

*Available only when the Multiplexer board is installed

STANDARD ACCESSORIES

Rack Mounting Bracket	2	pcs
Screws (M4 x 10)	4	pcs
Power Cable	1	pc.
CD-ROM	1	pc.
Crossing modular cable	1	pc.

OPTIONAL ACCESSORIES

Cable kit WV-CA48/10K

Panasonic Digital Communications & Security Company

Unit of Matsushita Electric Corporation of America Security Systems Group

www.panasonic.com/cctv

Executive Office: One Panasonic Way 3E-7, Secaucus, New Jersey 07094 Zone Office Eastern: One Panasonic Way, Secaucus, NJ 07094 (201) 348-7303 Central: 1707 N.Randal Road, Elgin, IL 60123 (847) 468-5205 Western: 6550 Katella Ave., Cypress, CA 90630 (714) 373-7840

PANASONIC CANADA INC. 5770 Ambler Drive, Mississauga, Ontario, L4W 2T3 Canada (905)624-5010 PANASONIC SALES COMPANY DIVISION OF MATSUSHITA ELECTRIC OF PUERTO RICO INC. San Gabriel Industrial Park 65th Infantry Ave. KM. 9.5 Carolina, P.R. 00985 (809)750-4300

N0303-1043 V8QA6118BN Printed in Japan

Addendum for WV-CU650 and WJ-SX150 Series

The descriptions in this document are applicable when WJ-SX150A Administrator Console and the firmware of this unit (matrix switcher) are Ver. 2.03 or later.

Note: Refer to the operating instructions of matrix switcher for how to check the version.

(1) ADDENDUM FOR SYSTEM CONTROLLER WV-CU650: MATRIX SWITCHER WJ-SX150 SERIES OPERATING PROCEDURES

INSTALLATIONS AND CONNECTIONS

Basic System Connections

- The connection details are the same as System Controller WV-CU360C/CJ. Refer to the operating instructions of matrix switcher .
- To connect System Controller WV-CU650 to Digital Disk Recorder WJ-HD300 Series or WJ-HD220 Series via the matrix switcher, refer to pp. 37 to 39.

SETUP PROCEDURES (HARDWARE)

MODE Switch Setting

Either of the terminal mode or PS·Data mode are applicable for connections. Refer to WV-CU650 Operating Instructions for details on the switch setting for each mode.

CONTROLLER NO. Switch Setting

Normally, set this switch to "1" (default position).

BEFORE OPERATION

Note: This section describes the terminal mode. To operate in the PS·Data mode, refer to the operating instructions.

Before starting the following procedures, all system components must be turned on.

The following procedures are applicable when the system controller is connected to the matrix switcher.

Operation Start (Login)

Note: When auto login is set to ON, operators can log into the system without entering their passwords. (Refer to p. 2 Operation Start (Auto Login).)

This operation is skipped when the auto login is set to ON. (Refer to the operating instructions of matrix switcher.)

1. Turn on the power switches of all system components. The OPERATE indicator will light up. To turn on the power of the system controller, connect the AC adapter to the AC outlet.
 The OPERATE indicator lights up and "Terminal Mode No User" appears on the LCD.

> Terminal Mode No User

3. To select your registered operator ID number (1 to 16, up to 2 digits), press the numeric buttons, then press the CAM (SET) button.

"Password" entry form appears on the LCD.

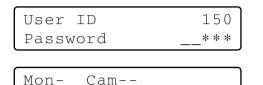
User ID	150
Password	

Note: The factory default setting is 150.

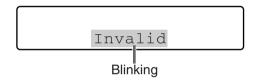
4. To select your registered password (up to 5 digits), press the numeric buttons, then press the CAM (SET) button.

The factory default setting is "150".

If the operator ID and password are correct, "Login OK" will blink on the LCD for about 3 seconds. Then, "Mon -" "Cam - -" will appear on the LED display.



Note: If an operator ID or password error occurs, "Invalid" will blink on the LCD for about 3 seconds. Then, return to Step 3 and select your operator ID.



Operation Start (Auto Login)

If the auto login is set to ON, any operators can log into the system automatically. After the controller is turned on, "AUTO" appears on the LCD for approximately 2 seconds, then "Mon -" "Cam - -" automatically appears.

Auto login is configurable through WJ-SX150A Administrator Console. (Refer to the operating instructions of matrix switcher.)

ĺ	Mon-	Cam

Operation End (Logout)

This operation is skipped when the auto logout is set to ON. This function is used when an operator leaves the controller or no longer requires access to the system.

To log out of the system, press the MON LOCK/LOGOUT button while holding down the SHIFT button. "Logout" will blink on the LCD for about 3 seconds. Then, "Terminal Mode No User" appears on the LCD.

Тез	rminal	Mode	
No	User		

Note: If you want to save the power consumption, disconnect the DC 9 V plug from the controller, and remove the AC adapter from the AC outlet.

Operation End (Auto Logout)

If the auto logout is set to ON and no operation takes place for a specific time, any operators can logout automatically. After the logout, "Terminal Mode No User" automatically appears on the LCD.



You can activate auto logout and set up the duration until logout (configurable by minute) through WJ-SX150A Administrator Console. (Refer to the operating instructions of matrix switcher.)

MONITOR SELECTION AND CAMERA SELECTION

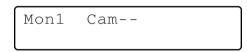
Note: This section describes the terminal mode. To operate in the PS·Data mode, refer to the operating instructions.

After the login procedure, the following operations are available to control the system.

The operation begins with selecting a monitor, then the selected camera appears the active monitor.

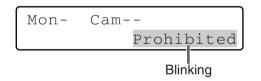
Monitor Selection

- 1. To select the desired monitor number (1 to 4), press the numeric button.
- 2. Press the MON (ESC) button to execute the selection. The selected monitor number will appear on the LCD.



 If the selected monitor number is not valid, or if an operator with higher priority is controlling the monitor, the monitor number and "Prohibited" will blink on the LCD for approximately 3 seconds.

In this case, return to Step 1 and select another monitor number.



Priority LockApplying Priority Lock

- 1. Select the desired monitor. (Refer to Monitor Selection).
- Press the MON LOCK/LOGOUT button to toggle the priority lock mode on and off on the active monitor. If the priority lock mode is selected, the monitor number will inversely appear on the active monitor as shown in the figure.



Note: This function will prevent operators with lower priority from gaining control of a monitor. However, higher or equal priority operators may still

However, higher or equal priority operators may still gain control of the monitor.

Releasing Priority Lock

- 1. Select the desired monitor. (Refer to Monitor Selection.)
- Press the MON LOCK/LOGOUT button to release the priority lock mode.
 The monitor number returns to the normal display on the active monitor.

Camera Selection

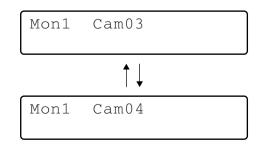
- 1. Select the desired monitor. (Refer to Monitor Selection.)
- 2. Press the numeric buttons to select the desired camera number (1 to 99).
- Press the CAM (SET) button. The selected camera's image will appear on the active monitor, and the selected camera number will appear on the LCD.

Mon1 Cam03

- **Note:** If you have entered a wrong camera number, press the CLEAR button to clear the input.
- 4. If the selected camera number is not valid, "Prohibited" and the camera number will blink on the LCD for about 3 seconds.

In this case, return to Step 2 and select another camera number.

 To replace the currently selected camera with the next higher-numbered camera, press the + button.
 To replace the currently selected camera with the next lower-numbered camera, press the – button.



Note: If the camera is selected by an operator with higher priority, "Prohibited" will blink on the LCD.

CAMERA CONTROL

Note: This section describes the terminal mode. To operate in the PS·Data mode, refer to the operating instructions.

Buttons and control for cameras or camera site accessories are located on the 3D joystick unit and the right side of main unit.

Included are zoom control, focus control, iris control, preset and pan/tilt controls.

Normally, combination cameras equipped with the specific feature or a WV-RC100 or WV-RC150 Receiver are required to utilize these functions.

Note: Refer to the cameras' operating instructions whether to confirm that each function is available.

Lens Control

This function is available when specified lens, with motorized zoom/ focus functions, is mounted on the camera, and the lens selection (DC/VIDEO) on the camera is set to DC.

- 1. Select the desired monitor and camera. (Refer to p. 3 Monitor Selection and p. 3 Camera Selection.)
- 2. Press the FOCUS FAR or NEAR button while watching the monitor. The lens focus is adjusted to obtain a sharply focused image.



Note: Pressing the B button or top button of 3D joystick unit can also set the lens focus automatically.



Top button

3. To adjust the lens zoom, move the zoom wheel controller to the right (TELE) or left (WIDE).



4. Press the IRIS OPEN or CLOSE buttons to open/close the lens iris. The lens iris is adjusted by these buttons to obtain the proper image exposure.

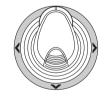


Note: To set the lens iris automatically, press the A button of 3D joystick unit.

Pan/Tilt Control

Manual Operation

- 1. Select the desired monitor and camera. (Refer to p. 3 Monitor Selection and p. 3 Camera Selection.)
- 2. Move the 3D joystick to move the pan/tilt head towards the desired direction.



Auto Panning

Refer to p. 8 Camera Panning Function for how to operate.

Program Preset Position

- 1. Select the desired monitor and camera. (Refer to p. 3 Monitor Selection and p. 3 Camera Selection.)
- 2. To move the camera to the position to be preset, move the 3D joystick and press the lens control buttons.
- 3. To select the desired preset position number, press the numeric buttons. (1 to 64)
- 4. When you have selected a wrong number, press the CLEAR button to clear the numeric input.
- 5. Press the PRESET/PGM PRESET button while holding down the SHIFT button to save a preset position of the selected camera.

Mon1	Mon1 Cam03	
	Memory	

Notes:

- If the entered position number has stored the previous preset position, it will be overwritten by the new one.
- SETUP MENU and WJ-SX150A Administrator Console can configure each operator's pan/tilt control. (Refer to the operating instructions of matrix switcher.)

Call Preset Position

- 1. Select the desired monitor and camera. (Refer to p. 3 Monitor Selection and p. 3 Camera Selection.)
- 2. To select the desired preset position number, press the numeric buttons. (1 to 64)
- 3. When you have selected a wrong number, press the CLEAR button to clear the numeric input.
- Press the PRESET/PGM PRESET button to move to the preset position of the selected camera on the active monitor.



Notes:

- To use the above function, you must set the preset position number for the camera.
- If you press no numeric buttons or the button 0 in Step 2, the camera will move to the home position.

CAMERA FUNCTION CONTROL

Note: This section describes the terminal mode. To operate in the PS·Data mode, refer to the operating instructions.

Camera Setup

- 1. Select the desired monitor and camera. (Refer to p. 3 Monitor Selection and p. 3 Camera Selection.)
- 2. Press the MENU button repeatedly until "Camera Setup" appears on the LCD.

Camer	a Set	up	006
On	Off	Rst	A.Rst

3. Press the F1 button. The camera's SETUP MENU will appear on the active monitor.

Camer	006		
▶On	Off	Rst	A.Rst

- To select the desired item in the menu, move the 3D joystick to ▼ or ▲. To select the desired parameter (or mode) in the menu, move the 3D joystick to ◀ or ▶.
- To execute the currently highlighted selection and to enter a submenu of SETUP MENU, press the CAM (SET) button.
- 6. To leave from the currently selected menu and to return to the previous page of the menu, press the MON (ESC) button.
- 7. Move the cursor to SPECIAL on the camera's setup menu, and press the F3 button to display the special menu.
- 8. Move the cursor to CAMERA RESET on the camera's setup menu, and press the F4 button to reset all the functions to the defaults.

Note: Refer to the operating instructions of the selected camera for details.

- 9. To close the camera's SETUP MENU, press the F2 button.
- 10. To exit the mode, press the MON (ESC) button.

Camera Function (Shortcut Function)

The following function is available only when specified cameras with the camera function feature are used.

This function enables executing camera functions via a shortcut.

- 1. Select the desired monitor and camera. (Refer to p. 3 Monitor Selection and p. 3 Camera Selection.)
- Press the numeric buttons to select an assigned function number, then press the CAM FUNC/SYS FUNC button.

For example, enter 175 for AGC ON.

The selected function will be executed on the active monitor.

Notes:

- When you select a wrong number, press the CLEAR button to clear the numeric input.
- Refer to the cameras' operating instructions for details on available shortcuts.

Patrol Learn and Play

A routine of manual operations can be stored for a specific time and later reproduced repetitively.

- 1. Select the desired monitor and camera. (Refer to p. 3 Monitor Selection and p. 3 Camera Selection.)
- 2. To save the patrol sequence, follow the procedure below.
 - (1) Press the MENU button repeatedly until "Patrol Learn" will appear on the LCD.



- 2 Press the F1 button.
- ③ Operate the camera manually.
- ④ Press the F2 button.

The operation data will be saved.

- 3. To reproduce the operation data, follow the procedure below.
 - ① Press the MENU button repeatedly until "Auto Mode" appears on the LCD.

Auto Mode 009 Seg Sort Pan Patrol

- 2 Press the F4 button.
- ③ To stop the reproduction, move the 3D joystick.
- 4. To exit the mode, press the MON (ESC) button.

Auto Pan Setup and Activation

You will set up and activate the auto pan function. The camera can pan between the start and end points you will set.

- 1. Select the desired monitor and camera. (Refer to p. 3 Monitor Selection and p. 3 Camera Selection.)
- 2. Press the MENU button repeatedly until "Auto Pan Setup" appears on the LCD.

Auto	Pan S	Setup	008
Play	Rvrs	Start	End

- 3. To set the start and end point of auto pan, perform the following.
 - To move the camera to a point you wish to start auto pan, move the 3D joystick and press the lens control buttons (IRIS OPEN and CLOSE, FOCUS FAR and NEAR).
 - Press the F3 button.The start point of auto pan will be set.
 - ③ To move the camera to a point you wish to end auto pan, move the 3D joystick.
 - ④ Press the F4 button. The end point of auto pan will be set.

Camera Panning Function

There are three panning modes available as follows: sequence mode, sort mode, and auto pan. (Refer to the operating instructions of matrix switcher.)

- 1. Select the desired monitor and camera. (Refer to p. 3 Monitor Selection and p. 3 Camera Selection.)
- 2. Press the MENU button repeatedly until "Auto Mode" appears on the LCD.



- Press the assigned function button to activate the panning function of the selected camera. The LCD will indicate the selected mode as follows.
 - **F1:** "Seq" (Activates SEQUENCE PAN.) **F2:** "Sort" (Activates SORT PAN.)
 - F3: "Pan" (Activates AUTO PAN.)
 - **Note:** The AUTO MODE parameter, previously set in the camera's SETUP MENU, will be automatically replaced to the activated function parameter.
- 4. To exit the mode, press the MON (ESC) button.

Changing to Black and White Images

This function gets the clear camera images on the monitor while shooting the objects under low light conditions.

- 1. Select the desired monitor and camera. (Refer to p. 3 Monitor Selection and p. 3 Camera Selection.)
- 2. Press the MENU button repeatedly until "BW Mode" appears on the LCD.

ſ	BW Mode			010
l	On	Off	Auto1	Auto2

- 3. Press the F1 button to change the image from the color mode to the BW (black and white) mode on the active monitor.
- 4. Press the F2 button to change the BW image to the color image on the active monitor.
- 5. Press the MON (ESC) button to exit the mode.

CAMERA SITE ACCESSORIES CONTROL

Note: This section describes the terminal mode. To operate in the PS·Data mode, refer to the operating instructions.

Receiver Control

The following functions are available only when the receivers are included in the system and the specified camera housing is installed.

Camera Housing Control

Wiper Control

- 1. Select the desired monitor and camera. (Refer to p. 3 Monitor Selection and p. 3 Camera Selection.)
- 2. Press the WIPER button to turn on the housing wiper of the camera repeatedly until buttons are released.

Defroster Control

- 1. Select the desired monitor and camera. (Refer to p. 3 Monitor Selection and p. 3 Camera Selection.)
- 2. Press the DEF ON/OFF button to turn on the housing defroster of the camera.
- 3. To turn off the defroster, press the DEF ON/OFF button while holding down the SHIFT button.

Auxiliary Control

- 1. Select the desired monitor and camera. (Refer to p. 3 Monitor Selection and p. 3 Camera Selection.)
- Press the AUX1 ON/OFF button to turn on the user's auxiliary switch 1 of the receiver.
 Press the AUX1 ON/OFF button while holding down the SHIFT button to turn off the user's auxiliary switch 1 of the receiver.
- Press the AUX2 ON/OFF button to turn on the user's auxiliary switch 2 of the receiver.
 Press the AUX2 ON/OFF button while holding down the SHIFT button to turn off the user's auxiliary switch 2 of the receiver.

RUNNING SEQUENCE

Note: This section describes the terminal mode. To operate in the PS·Data mode, refer to the operating instructions.

Tour Sequence

The following functions are available if a tour sequence has been previously configured through SETUP MENU or WJ-SX150A Administrator Console. Any tour sequence can be assigned to any monitors.

- 1. Select the desired monitor and camera. (Refer to p. 3 Monitor Selection and p. 3 Camera Selection.)
- 2. To select the desired tour sequence number, press the numeric buttons.
- 3. When you have selected a wrong number, press the CLEAR button to clear the numeric input.
- 4. Press the TOUR SEQ/GROUP SEQ button to run the tour sequence in the forward direction on the active monitor.

Mon1	Cam01	
		т04

5. Press the SEQ PAUSE/SEQ STOP button to pause a tour sequence on the active monitor.

The "P" sign (indicating the pause status) is displayed at the tour sequence number on the active monitor, and a camera number currently selected appears on the LCD.

Mon1	Cam07	
		T04P

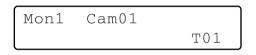
- Press the SEQ PAUSE/SEQ STOP button to restart a tour sequence forward from the next step that was previously paused.
- Press the + button to move the sequence one frame to the next step from the step that was previously paused.
- Press the button to move the sequence one frame to the previous step from the step that was previously paused.
- 6. Press the SEQ PAUSE/SEQ STOP button while holding down the SHIFT button to stop a tour sequence on the active monitor and return to spot monitoring.

Group Sequence

The following function is available only if a group sequence has been previously established in WJ-SX150A Administrator Console.

As described earlier, a group sequence determines the assignment of monitors and cameras. Therefore, monitor selection is not required.

- 1. Press the numeric buttons to select a desired group sequence number.
- 2. When you have selected a wrong number, press the CLEAR button to clear the numeric input.
- 3. Press the TOUR SEQ/GROUP SEQ button while holding down the SHIFT button to run a group sequence forward on the assigned monitors.



- Press the SEQ PAUSE/SEQ STOP, + or button to operate the group sequence. Refer to Step 5 of Tour Sequence in this page for how to use these buttons.
- 5. To stop the sequence, select one of the monitors that are being run on the selected group sequence, then press the SEQ PAUSE/SEQ STOP button while holding down the SHIFT button
- **Note:** If an alarm is activated during a sequence pause, the sequence runs again after the matrix switcher recovers from the alarm mode.

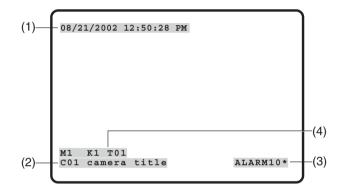
MONITOR DISPLAY CONTROL

Note: This section describes the terminal mode. To operate in the PS·Data mode, refer to p. 35.

On-screen Display (OSD) Control

The procedure described below lets you determine the display parameters, such as camera title, clock and status, on and off on the active monitor screen.

Before controlling each item, monitor selection is necessary. (Refer to p. 3 Monitor Selection.)



Displaying Each Item

1. Press the MENU button repeatedly until "OSD On/Off" appears on the LCD.



- 2. Perform desired operations.
 - (1) Displaying the clock
 - Toggle the F1 button.

(1) will appear/disappear on/from the active monitor.

2 Displaying the camera title

Toggle the F2 button.

(2) will appear/disappear on/from the active monitor.

3 Displaying the event

Toggle the F3 button.

(3) will appear/disappear on/from the active monitor.

④ Displaying the monitor status*

Toggle the F4 button.

 $(4)^{\star}$ will appear/disappear on/from the active monitor.

* Monitor number, system controller name, tour number and recorder number

• Displaying All the Items

- 1. Perform Step 1 of Displaying Each Item.
- 2. Hold down the SHIFT button. The LCD display will become as follows.

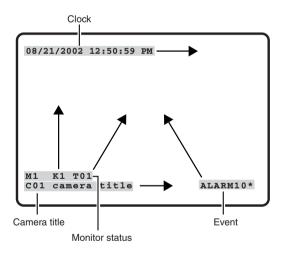
OSD	Position	003
All	L	

3. Press the F1 button.

(1), (2), (3), and (4) will appear/disappear on/from the active monitor.

On-screen Display (OSD) Position Control

The procedure described below lets you determine the display positions, such as camera title, clock and status, on the active monitor screen.

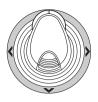


Moving Each Item

 Press the MENU button repeatedly until "OSD Position" appears on the LCD.

> OSD Position 003 Clock Cam Event Mon

2. Perform desired operations.



- Moving the clock display Move the 3D joystick while holding down the F1 button. (1) will move to the desired direction.
- ② Moving the Camera Title Display Move the 3D joystick while holding down the F2 button. (2) will move to the desired direction.
- Moving the Event Display Move the 3D joystick while holding down the F3 button. (3) will move to the desired direction.
- ④ Moving the Monitor Status* Move the 3D joystick while holding down the F4 button. (4) will move to the desired direction.
- * Monitor number, controller number and monitor mode

Moving All the Items

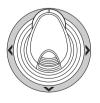
1. Press the MENU button repeatedly until "OSD Position" appears on the LCD.

OSD Position 003 Clock Cam Event Mon

2. Hold down the SHIFT button. The LCD display will become as follows.

OSD	Position	003
A1]	L	

Move the 3D joystick while holding down the F1 button.
 (1), (2), (3), and (4) (refer to p. 11) will move to the desired position.



System Status Table

The table shows the current system status.

- 1. Select the desired monitor. (Refer to p. 3 Monitor Selection.)
- Press the MENU button repeatedly until "System Status" appears on the LCD.
- 3. Press the F1 button.

The SYSTEM STATUS table will appear on the active monitor as shown in the figure.

		SYSTEM ST	ATUS		
MON	CAM	MODE	KB	OPE	PRI
1	01	T01	K1	12345	30
2	99	SPOT	K2	2	2
3	04	ALARM	K4	4	1
4	R1	RECORDER	PC	30	1

The columns in the table indicate the states as shown in the figure.

MON: CAM:		Monitor number Logical camera number (01 to 99) Recorder number (R0 to R4)* "" indicates that no camera is being selected
MODE	:	Lists the display mode on the monitors.
	SPOT:	Spot mode
	Tnn:	Tour Sequence mode (nn is the
		tour sequence number.)
	CAM:	Camera Setup mode
	SET:	WJ-SX150A Setup mode
	ALARM:	Alarm Active mode
	ACK:	Alarm ACK mode
	VLD H:	Video Loss History Table
	ALM H:	Alarm History Table
	SYS S:	System Status Table
	RECORD	ER: Recorder mode**
KB:		Lists the system controller name
		(K1 to K4) or PSD.
OPE:		Lists the operator number
PRI:		Lists the priority number

* R0 to R4 shows the following.

Recorder number	Recorder
RO	Master recorder
R1	Slave 1 recorder
R2	Slave 2 recorder
R3	Slave 3 recorder
R4	Slave 4 recorder

- ** When this parameter is selected, a recorder number is displayed in the CAM area.
- 4. To close the SYSTEM STATUS table, press the F2 button.
- 5. To exit the mode, press the MON (ESC) button.

Alarm History Table

There are 100 alarm records stored in chronological order in 10 pages of tables.

- 1. Select the desired monitor. (Refer to p. 3 Monitor Selection.)
- 2. Press the ALM RECALL button. "Alarm Recall" will appear on the LCD. The ALARM HISTORY table will appear on the active monitor as shown in the figure.

A	larm R	ecall		
	YYYY/MM/DD		ALARM	
015	2002/08/21 2002/08/21	18:58:08	80	ALARM ACK
013	2002/08/21 2002/08/21 2002/08/21	18:55:08	07	RESET ALARM ACK
011	2002/08/21 2002/08/21 2002/08/21	18:53:08	07	RESET
009	2002/08/21 2002/08/21	18:52:08	09	RESET
	2002/08/21		06	ACK

The columns in the table indicate the status as follows:

- **DATE:** Lists the date and time when the alarm status changes.
- ALARM: Lists the alarm number (01 99).

EVENT: Lists the event when the alarm status changes.

- 3. Press the + button to select the next page of the history, and press the button to back up to the previous page.
- 4. To exit the mode, press the MON (ESC) or ALM RECALL button.

■ Video Loss History Table

There are 100 video loss detection records stored in chronological order in 10 pages of table.

- 1. Select the desired monitor. (Refer to p. 3 Monitor Selection.)
- Press the MENU button repeatedly until "VLD History" appears on the LCD.

VLD	History	004
On	Off	

3. Press the F1 button.

The VIDEO LOSS HISTORY table will appear on the active monitor as shown in the figure.

	VIDEC	D LOSS HIS	STORY	1	of	2
	YYYY/MM/DD					
	2002/08/21 2002/08/21		99 VIE			
	2002/08/21					
	2002/08/21					
008	2002/08/21	18:54:08	R0 SW	REC	COVE	SR
	2002/08/21					
	2002/08/21		09 VII			SS
	2002/08/21					
	2002/08/21 2002/08/21					
003	2002/08/21	19:20:08	SI SLA	VE	REC	OVER

The columns in the table indicate the status as follows:

- **DATE:** Lists the date and time when the video loss status changes.
- **CH:** Lists logical camera number, slave unit number or recorder number that is connected to the system.
- **EVENT:** Lists the event when the video loss status changes.
- 4. To exit the mode, press the F2 button or MON (ESC) button.

ALARM CONTROL

Note: This section describes the terminal mode. To operate in the PS·Data mode, refer to the operating instructions.

Alarm Mode

When alarm (sensor) is accepted, the matrix switcher's operation mode changes to the alarm mode. Then, the system operates as follows:

• The camera image (alarm image) appears on the monitor.

In the factory default setting, the alarm inputs 1 to 16 are associated with the same-numbered camera input connectors. All the video output signals are sent to Monitor 1. For example, when the alarm (sensor) connected to the alarm input 1 becomes active, the camera input connector 1's image appears on Monitor 1.

• "ALARMnn" appears on the monitor. (nn is the alarm number).

ALARM01

- Alarm output signals are supplied from Alarm Output 1 to 4 (#10, 11, 23 and 24) of the ALARM port (25-pin D-sub connector) at the rear panel. Alarm Output 1 to 4 is associated with MONITOR OUT 1 to 4. For example, when an alarm input signal is activated on MONITOR OUT 1, the matrix switcher supplies an alarm output signal from Alarm Output 1.
- The alarm number and "Alarm" sign will appear on the LCD. Then, "Alarm" sign and the alarm indicator will blink.

Mon1	Cam01	AL01
	Alarm	

There are two operation modes when more than one alarm signal has been accepted by the matrix switcher that is assigned to the same monitor.

- Sequence mode: An alarm operation is replaced by another one after the dwell time ends.
- Hold mode: An initial alarm operation is continued even after another alarm input is accepted.

Notes:

- The association of the alarm inputs with cameras and monitors are changeable in SETUP MENU or WJ-SX150A Administrator Console. (Refer to the operating instructions of matrix switcher.)
- Alarm input will be automatically reset in 30 seconds. The auto-recovery time is configurable through SETUP MENU or WJ-SX150A Administrator Console. (Refer to

the operating instructions of matrix switcher.)

Operation during an Alarm Mode

While an alarm mode is active, the following are available from the system controller:

- Operating the camera with the alarm input (ACK)
- Resetting the alarm (ALM RESET/ALM ALL RESET)
- Suspending the alarm (ALM SUSPENDED)

Operation of an Alarm-related Camera (ACK)

You can operate the camera with the alarm input as follows:

ACK

- 1. Select a monitor which displays "ALARM".
- Press the ACK button.
 "ACK" will appear on the monitor with an alarm input. The camera with an alarm input will become operable.
- Operate camera with the system controller.
 Panning, tilting, zoom, focus, and iris are available.
 When selecting another monitor, "ACK" will disappear from the display. The matrix switcher system will return to the alarm mode.

Resetting the Alarm Inputs

There are two alarm reset functions:

- Alarm reset (resetting the alarm inputs per monitor)
- Alarm all reset (resetting all the alarm inputs)

Alarm Reset

- 1. Select a monitor which displays "ALARM".
- 2. To reset the alarms, press the ALM RESET/ALM ALL RESET button.

"ALARMnn" will disappear from the selected monitor. When alarms have been reset from all the monitors, the LCD display and indicators of system controllers will work as follows for recovery.

- The LCD display will return to the state before the alarm input.
- The alarm indicator will go out.
- **Note:** When more than one alarm is input and they are associated with the same monitor, they cannot be reset one by one.

Alarm All Reset

- 1. Press the ALM RESET/ALM ALL RESET button while holding down the SHIFT button.
- 2. The monitor, the indicator, and the LCD display will change as follows:
 - "ALARMnn" will disappear from all the monitor.
 - The LED display will return to the state before the alarm input.
 - The alarm indicator will go out.

Suspending the Alarm Inputs

Use this function when you do not want to be disturbed by an alarm input, for example, during the setup procedures.

ALM SUSPENDED

1. Press the ALARM/ALM SUSPEND button while holding down the SHIFT button.

"ALM SUSPENDED" will appear on the monitor, and the ALM SUSPEND indicator will light up.

 To cancel alarm suspension, press the ALARM/ALM SUSPEND button while holding down the SHIFT button again.

"ALM SUSPENDED" will disappear from the monitor, and the ALM SUSPEND indicator will go out.

- An alarm continues to operate even after it is suspended.
- If you suspend an alarm while an alarm image is displayed, "ALM SUSPENDED" will not appear on the monitor. Reset the alarm, and then suspend it again.

MULTIPLEXER OPERATIONS MUX

Multiplexer board WJ-SXB151 is an optional board.

It enables multiscreen display, electronic zooming, still picture and multiscreen sequence.

It also enables the operation of Digital Disk Recorder WJ-HD100 Series or time-lapse VCR, when connected to them.

Note: Before the use, it is necessary to install the Multiplexer board in the matrix switcher and configure the system through SETUP MENU and WJ-SX150A Administrator Console. (Refer to the operating instructions of matrix switcher.)

Monitoring the Camera Picture

Multiscreen Segment Switching

- 1. Select the desired monitor. (Refer to p. 3 Monitor Selection.)
- 2. To select a Multiplexer, press the corresponding numeric button.

Multiplexer board	Numeric button
Master Multiplexer board	0 (You can skip pressing this button.)
Slave 1 Multiplexer board	1
Slave 2 Multiplexer board	2
Slave 3 Multiplexer board	3
Slave 4 Multiplexer board	4

- 3. Press the RECORDER/UNIT button. The system will enter the recorder mode. The images from the recorder are displayed on the active monitor in multiscreen segments.
- 4. Press the MULTI SCREEN button.

Every time you press the button, the multiscreen segment patterns are switched. (The following is the factory default setting.)

- 4 (segments) \rightarrow 9 \rightarrow 16 \rightarrow 4
- 5. To return to the spot display, select the desired camera.
- **Note:** If you activate Quad Shift in Multiplexer Mode window of WJ-SX150A Administrator Console, the multiscreen segment patterns can be switched as follows. 4A (Page 1 of the quad – Camera 1, 2, 3, and 4) \rightarrow 4B (Page 2 - Camera 5, 6, 7 and 8) \rightarrow 4C (Page 3 - Camera 9, 10, 11 and 12) \rightarrow 4D (Page 4 - Camera 13, 14, 15 and 16) \rightarrow 9 (segments) \rightarrow 16 \rightarrow 4A (Refer to the operating instructions of matrix switcher.)

Multiscreen Sequence

Camera images are switched automatically in a sequence mode.

The sequence mode (QUAD, 3+1, 8+1) is configurable through WJ-SX150A Administrator Console.

(Refer to the operating instructions of matrix switcher.)

- 1. Enter the recorder mode. (Refer to Step 1 to 3 of Multiscreen Segment Switching.)
- 2. Press the TOUR SEQ/GROUP SEQ button.

A sequence of multiscreen pictures is displayed according to the WJ-SX150A Administrator Console's configuration.

- 3. To cancel the sequence, press the TOUR SEQ/GROUP SEQ button.
- **Note:** The sequence can also be cancelled by selecting the desired camera. (In this case, you can automatically exit the recorder mode.)

Still Multiscreen Picture

Still pictures can also be displayed in a multiscreen.

- 1. Enter the recorder mode. (Refer to Step 1 to 3 of Multiscreen Segment Switching.)
- 2. Press the MENU repeatedly until "Mux Still" appears on the LCD.

	Mux	Sti	ill		052
l	"Inp	out	Still	CH"	

- 3. Press the numeric button corresponding to the camera number.
- 4. Press the F1 button.

The selected camera image will change into the still picture.

"STILL" and the camera title alternately blink on the monitor.

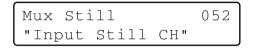
5. To cancel the still picture, press the numeric button corresponding to the desired camera number, and then press the F1 button.

- "STILL" does not appear when the still display is set to OFF.
- When you skip Step 3 and do Step 4, all the channels displayed in the multiscreen segments will be changed into the still pictures.

Still Playback Spot Picture

The playback spot picture can be changed into the still picture.

- **Note:** To use this function, you need to connect a WJ-HD100 Series recorder or time-lapse VCR to the matrix switcher.
- 1. Enter the recorder mode. (Refer to Step 1 to 3 of p. 16 Multiscreen Segment Switching.)
- 2. Press the PLAY/PAUSE button. The system will enter the playback mode.
- 3. Select a camera channel by pressing a numeric button and then pressing the CAM (SET) button. The selected camera image will be displayed in a spot picture.
- 4. Press the MENU repeatedly until "Mux Still" appears on the LCD.



5. Press the F1 button.

The selected camera image will change into the still picture.

- 6. To cancel the still picture, press the F1 button again. Notes:
 - Still picture is not available while zooming is activated.
 - Even when still picture is displayed, the playback of the recorder/time-lapse VCR continues.

• Electronic Zooming (EL-ZOOM)

The playback spot picture can be electrically zoomed. **Note:** To use this function, you need to connect a WJ-HD100 Series recorder or time-lapse VCR to the matrix switcher.

- 1. Enter the recorder mode. (Refer to Step 1 to 3 of p. 16 Multiscreen Segment Switching.)
- 2. Press the PLAY/PAUSE button. The system will enter the playback mode.
- 3. Select a camera channel by pressing a numeric button and then pressing the CAM (SET) button. The selected camera image will be displayed in a playback spot picture.
- Press the EL-ZOOM button.
 "+" signs will appear on the image.
- 5. To move the "+" signs within the picture, move the 3D joystick.
- 6. Press the EL-ZOOM button. The area surrounded by the "+" signs will be zoomed up.

- 7. To move the zoom area, move the 3D joystick.
- To cancel the zooming, press the EL-ZOOM button.
 Note: Still picture is not available while zooming is activated.
- **Note:** When a WJ-HD100 Series recorder or a Panasonic time-lapse VCR is connected to the matrix switcher, recording status will appear on the monitor in the recorder mode. When the normal recording is activated, "REC" will appear on the monitor. When the alarm recording is activated, "REC ALM" will appear.

REC REC ALM

WJ-HD500 SERIES CONTROL (TERMINAL MODE)

Matrix switcher can control Digital Disk Recorder WJ-HD500 Series. The following is the procedure of WJ-HD500 Series SETUP MENU.

Notes:

- The following operating procedures are for the terminal mode. If you are using a PS·Data system controller, refer to p. 36.
- When a Multiplexer board is installed in the matrix switcher, you can neither connect nor control a WJ-HD500 Series recorder. You need to remove the board from the matrix switcher.

Displaying WJ-HD500 Series SETUP MENU

To display WJ-HD500 Series SETUP MENU, follow the procedure below.

- 1. Confirm that WJ-HD500 Series is correctly and securely connected.
- 2. Select the desired monitor. (Refer to p. 3 Monitor Selection.)
- 3. Enter the recorder mode. (Refer to p. 19 Recorder Mode.) Then, the selected monitor number, recorder number, and "/HDnnn" will appear on the LCD.

4. Press the MENU button repeatedly until "System Setup" appears on the LCD.

Syste	m Setup	501
On	Off	

5. Press the F1 button.

WJ-HD500 Series SETUP MENU will appear on the active monitor, and "►" mark will light up beside "On".

Syste	m Setup	501
▶On	Off	

6. Perform the camera setting while watching the setup menu on the monitor.

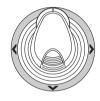
The following functions and buttons are valid in SETUP MENU.

<Main unit>

JogDial clockwise: Increments a parameter.

JogDial counterclockwise: Decrements a parameter.

- **CAM (SET) button:** Executes the selections and displays a submenu.
- + button: Increments a parameter.
- button: Decrements a parameter.
- **MON (ESC) button:** Returns to SETUP MENU or the previous menu.
- <3D joystick unit>
- **3D joystick upward ()**: Moves the cursor up.
- **3D joystick downward (▼):** Moves the cursor down.
- **3D joystick leftward (**): Moves the cursor to the left.
- **3D joystick rightward (►):** Moves the cursor to the right.



6. To end the setting and return to the normal view, press the F2 button while SETUP MENU is displayed. "▶" mark will disappear from the LCD.

Controlling Digital Disk Recorder WJ-HD500 Series

The following are the operating procedures of WJ-HD500 Series via system controller.

Note: Refer to the operating instructions of Digital Disk Recorder WJ-HD500 Series for details.

Recorder Mode

Before operating the recorder, it is necessary to enter the recorder mode.

- 1. Select the desired monitor. (Refer to p. 3 Monitor Selection.)
- 2. To select a recorder, press the corresponding numeric button.

Recorder	Numeric button
Master recorder	0 (You can skip pressing this button.)
Slave 1 recorder	1
Slave 2 recorder	2
Slave 3 recorder	3
Slave 4 recorder	4

- 3. Press the RECORDER/UNIT button. The system will enter the recorder mode.
 - The images from the recorder are displayed on the active monitor in multiscreen segments.
 - The camera number will disappear from the LCD.
 - The monitor number, recorder number, and "/ HD500" will appear on the LCD.



4. To exit the recorder mode, select the camera. (Refer to p. 3 Camera Selection.) The monitor number and camera number will appear on the LCD again.

You can also exit the recorder mode by pressing the RECORDER/UNIT button during the recorder mode.

Note: Only one operator can enter the recorder mode.

Multiscreen Segment Switching

Multiscreen segment patterns are configurable through WJ-HD500 SETUP.

(Refer to the recorder's operating instructions.)

- 1. Enter the recorder mode. (Refer to Recorder Mode.)
- Press the MULTI SCREEN button. Every time you press the button, the multiscreen segment patterns are switched. (The following is the factory default setting.)
 4A (Page 1 of the quad → Camera 1, 2, 3, and 4) → 4B (Page 2 - Camera 5, 6, 7 and 8) → 4C (Page 3 -Camera 9, 10, 11 and 12) → 4D (Page 4 - Camera 13, 14, 15 and 16) → 7 (segments) → 9 →10 → 13 → 16 → 4A
- 3. To return to the spot display, exit the recorder mode.
- **Note:** Multiscreen segment patterns are not configurable through WJ-SX150A Administrator Console.

Normal Playback

- 1. Enter the recorder mode. (Refer to Recorder Mode.)
- To start the playback, press the PLAY/PAUSE button. The system will enter the playback mode. Then, the most recent recorded image will be played back.
 - To pause the playback, press the PAUSE button.
 - To stop the playback, press the STOP button.



- To resume the playback, press the PLAY/PAUSE button.
- To move forward/backward search during the playback, move the shuttle ring clockwise or counterclockwise.

Shuttle ring clockwise: Fast-forward playback Shuttle ring counterclockwise: Rewind playback Shuttle hold button: If you press this button while

- rotating the shuttle ring, playback speed will be maintained even after removing a hand from the shuttle ring. (The LED indicator on this button blinks during the fast playback.)
- To move forward/backward field advance during the pause, move the JogDial clockwise or counter-clockwise.

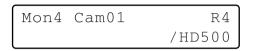
JogDial clockwise: Forward field advance

JogDial counterclockwise: Backward field advance

• To skip to the previous/next record during the playback, move the JogDial clockwise or counterclockwise. (Refer to the recorder's operating instructions for the description of record.)

JogDial clockwise: Skips to the previous record. JogDial counterclockwise: Skips to the next record.

• To display the spot picture, press the numeric button corresponding to the desired camera number, then press the CAM (SET) button. Then, the active camera number will appear on the LCD.



- To resume the multiscreen display, press the MULTI SCREEN button.
- To change the number of multiscreen segments, press the MULTI SCREEN button again during the multiscreen display.
- 3. To stop the playback, press the STOP button. The monitor display will return to the multiscreen display.

Manual Recording

- 1. Enter the recorder mode. (Refer to p. 19 Recorder Mode.)
- 2. To start recording, press the REC button. The digital disk recorder will start recording.
- 3. To stop the recording, hold down the REC button.
 - **Note:** Refer to WJ-HD500 Series Operating Instructions for details and other recording modes.

Stopping REC ONLY Alarm Recording

You can stop alarm recording activated by "REC ONLY" setting of 430 CAMERA/440 ALARM PORT/450 SERIAL PORT/460 MUX MOTION DET in SETUP MENU or the Alarm Mode window in WJ-SX150A Administrator Console. (Refer to the operating instructions of matrix switcher.)

To stop the alarm recording, press the ALL RESET button while holding down the SHIFT button.

Search Playback

You can search playback images using the Record List or Thumbnail Display. Every time you press the SEARCH/T&D SEARCH button, the monitor display will change as follows. Live image \rightarrow Date-and-time entry form \rightarrow Record List \rightarrow Thumbnail Display \rightarrow Live image...

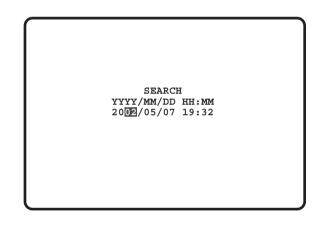
Then, "Search Mode" will appear on the LCD.

Date-and-time Search Playback

The recorded images can be searched for through the date and time.

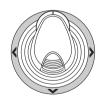
- 1. Enter the recorder mode. (Refer to p. 19 Recorder Mode.)
- 2. Press the SEARCH/T&D SEARCH button. The date-andtime entry form will appear on the center of the monitor.

Search Mode /HD500 Edit Group Alm



Note: The factory default setting is the current date and time.

 Press the numeric buttons or +/- button to enter the desired date and time. The cursor can be adjusted by moving the 3D joystick rightward or leftward.



- Press the PLAY/PAUSE button. Record List will be displayed and the cursor will move to the closest date and time.
- **Note:** To cancel the entry form, press the MON (ESC) or EXIT button.

• Record List/Thumbnail Display

You can operate the Record List or Thumbnail Display by referring to the recorder's operating instructions. In addition, the following operations from the system controllers are also available.

DATE	MAY	29.00	A	LL GROUP
				REC-MODE
			23:59:59	
				M/S ALM-TRM1
000010	007	G3	21:00:07	O/S ALM-VMD3
000010	006	ALL	17:33:05	T/L
000010	005	ALL	7:23:11	T/L EMR
000010	004	G4	6:59:44	M/S ALM-PC4
000010	003	ALL	8:55:28	T/L MAN
000010	002	G3	0:01:28	T/L ALM-TRM1
			(TOTAL	2343RECORD)

Search Editing Area

• Thumbnail Display

000010009	000010008	000010007	000010006
	000000012		000000010
000000009	000000008	000000007	000000006
000000005	000000004	00000003	000000002

Search Editing Area

<Main unit>

Shuttle ring clockwise: Moves to the next page.

- Shuttle ring counterclockwise: Moves to the previous page.
- JogDial clockwise or counterclockwise: Moves the cursor.
- + or button: Moves the cursor.
- **CAM (SET) button:** Displays the search editing area. / Starts the search after you enter the search condition.
- + button: Increments a parameter.
- button: Decrements a parameter.
- **PLAY/PAUSE button:** Starts the playback of a record pointed by the cursor.
- **MON (ESC) button:** Exits the search mode and returns to the upper menu.
- F1 button: Displays/hides the search editing area..
- F2 button: Selects a group to be played back.
- **F3 button**: Changes the display mode of the Record List between the alarm search ON and OFF.
 - **ON:** Displays only the Alarm and Emergency Record List of the selected group.
 - **OFF:** Displays all the record lists for the selected group.
- <3D joystick unit>
- **3D joystick upward (**▲): Moves the cursor up.
- **3D joystick downward (▼):** Moves the cursor down.
- **3D joystick to leftward (◄):** Moves the cursor to the left.
- **3D joystick to rightward (►):** Moves the cursor to the right.

Note: The PLAY/PAUSE button is deactivated in the search editing area.

Electronic Zooming (EL-ZOOM)

Playback images can be electrically zoomed besides a camera's optical zooming.

- 1. Enter the recorder mode. (Refer to p. 19 Recorder Mode.)
- 2. Press the PLAY/PAUSE button.
- 3. Press the numeric button corresponding on the desired camera number to display the spot picture.
- Press the CAM (SET) button. The selected camera's picture is displayed in the spot mode.
- Each time the EL-ZOOM button are pressed, the zooming range are changeable as follows: 2x → 4x → 8x → 1x → 2x
 - **Note:** You can move the zoomed area on the monitor by moving the 3D joystick.



- 6. To return the zooming range to x 1, press the EL-ZOOM button again.
- 7. To return to the multiscreen display, press the MULTI SCREEN button.

Multiscreen Sequence

Digital disk recorder starts a sequence according to the setting of WJ-HD500 Series.

- 1. Enter the recorder mode. (Refer to p. 19 Recorder Mode.)
- 2. Press the TOUR SEQ/GROUP SEQ button. The sequence will be activated.
- To deactivate the sequence, press the MULTI SCREEN button.

The monitor will change into the multiscreen display.

WJ-HD300 SERIES CONTROL (TERMINAL MODE)

Matrix switcher can control Digital Disk Recorder WJ-HD300 Series. The following is the procedure of WJ-HD300 Series SETUP MENU.

Notes:

- The following operating procedures are for the terminal mode. If you are using a PS·Data system controller, refer to p. 36.
- When a Multiplexer board is installed in the matrix switcher, you can neither connect nor control a WJ-HD300 Series recorder. You need to remove the board from the matrix switcher.

Displaying WJ-HD300 Series SETUP MENU

To display WJ-HD300 Series SETUP MENU, follow the procedure below.

- 1. Confirm that WJ-HD300 Series is correctly and securely connected.
- 2. Select the desired monitor. (Refer to p. 3 Monitor Selection.)
- 3. Enter the recorder mode. (Refer to p. 19 Recorder Mode.) Then, the selected monitor number, recorder number, and "/HD300" will appear on the LCD.

 Press the MENU button repeatedly until "System Setup" appears on the LCD.



5. Press the F1 button.

Syste	m Setup	301
▶On	Off	

WJ-HD300 Series SETUP MENU will appear on the active monitor, and "▶" mark will light up beside "On". The following functions and buttons are valid in SETUP MENU.

<Main unit>

JogDial clockwise: Increments a parameter. JogDial counterclockwise: Decrements a parameter. CAM (SET) button: Executes the selections and dis-

plays a submenu.

- + button: Increments a parameter.
- **button:** Decrements a parameter.
- **MON (ESC) button:** Returns to SETUP MENU or the previous menu.
- <3D joystick unit>
- 3D joystick upward (): Moves the cursor up.
- **3D joystick downward (▼):** Moves the cursor down.
- 3D joystick to the left (<): Moves the cursor to the left.
- **3D joystick to the right (►):** Moves the cursor to the right.
- **CLEAR button:** Deletes a character when editing a camera title, user ID, or password, etc.



 To end the setting and return to the normal view, press the F2 button when SETUP MENU is displayed. "▶" mark will disappear from the LCD.

Controlling Digital Disk Recorder WJ-HD300 Series

The following are the operating procedures of WJ-HD300 Series via the system controller.

Recorder Mode

The operations are the same as WJ-HD500 Series. (Refer to p. 19.)

Multiscreen Segment Switching

The operations are the same as WJ-HD500 Series. (Refer to p. 19.)

Note: The multiscreen segment patterns can be switched as follows. (Applicable for WJ-HD316)

4 segments (1 - 4 CH) \rightarrow 4 segments (5 - 8 CH) \rightarrow 4 segments (9 - 12 CH) \rightarrow 4 segments (13 - 16 CH) \rightarrow 7 segments (1 - 7 CH) \rightarrow 9 segments (1 - 9 CH) \rightarrow 9 segments (10 -16 CH) \rightarrow 10 segments (1 - 10 CH) \rightarrow 13 segments (1 - 13 CH) \rightarrow 16 segments (1 - 16 CH)

Normal Playback

The operations are the same as WJ-HD500 Series. (Refer to p. 19.)

Note: Refer to the recorder's operating instructions for details and other playback modes.

Manual Recording

The operations are the same as WJ-HD500 Series. (Refer to p. 20.)

Stopping REC ONLY Alarm Recording

The operations are the same as WJ-HD500 Series. (Refer to p. 20.)

Search Playback

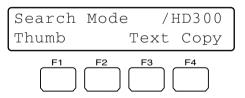
You can search recorded images through the date and time.

Every time you press the SEARCH/T&D SEARCH button in the recorder mode, the monitor display will change as follows.

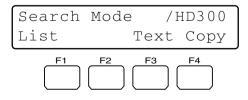
Live image \rightarrow Date-and-time entry form \rightarrow Recording event list \rightarrow VMD search list \rightarrow Marking list \rightarrow Date-and-time entry form...

The following are the details on LCD display patterns and function buttons.

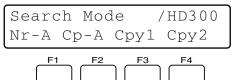
LCD display while the event list is displayed on the monitor



LCD display while the thumbnail menu is displayed on the monitor



Note: While holding down the SHIFT button, the LCD display will become as follows.



Available buttons and functions (Common)

F1 button: Thumb or List

Changes the monitor display between the recording event list window and thumbnail menu.

F3 button: Text

Displays text information of selected event on the recording event list.

F4 button: Copy

Displays the DATA COPY window while the recording event, VMD search, or making list window is displayed.

- F1 button while holding down the SHIFT button: Nr-A Specifies the normal or event recording area for the playback media.
- F2 button while holding down the SHIFT button: Cp-A Specifies the copy area for the playback media.
- **F3 button while holding down the SHIFT button:** Cpy1 This button is reserved for future use.
- **F4 button while holding down the SHIFT button:** Cpy2 This button is reserved for future use.

Notes:

- The monitor display is not changed even if pressing the F1 button while the date-and-time entry form is displayed.
- To close the monitor display activated by the function buttons, press the MON (ESC) button.
- The DATA COPY window is not displayed while a thumbnail window is displayed.
- Refer to the operating instructions of recorder for details on each function.

Available buttons and functions (Text information) <Main unit>

CAM (SET), MON (ESC), or EXIT button: Returns to the upper menu.

Note: Text editing is not available.

Available buttons and functions (DATA COPY window) <Main unit>

JogDial clockwise: Increments a parameter.

JogDial counterclockwise: Decrements a parameter.

- CAM (SET) button: Executes the selection and starts data copy. (If "OK" is selected) / Cancels the selection and returns to the upper menu. (If "CANCEL" is selected)
- **MON (ESC) or EXIT button:** Cancels the selection and returns to the upper menu.
- <3D joystick unit>
- **3D joystick upward (**▲**):** Moves the cursor up.
- **3D joystick downward (▼):** Moves the cursor down.
- 3D joystick leftward (<): Moves the cursor to the left.
- **3D joystick rightward (►):** Moves the cursor to the right.

• Date-and-time Search Playback

The recorded images can be searched for through the date and time.

- 1. Enter the recorder mode. (Refer to p. 19 Recorder Mode.)
- 2. Press the SEARCH/T&D SEARCH button repeatedly until the date-and-time entry form appears on the monitor.

The date-and-time entry form will appear on the center of monitor.

START	
FEB 2 04	12:00:00 AM
TIME&DATE ► SEARCH ► REC EVENT ► 3	SEARCH F VMD F SEARCH F MARK

Note: The factory default setting is the current date and time.

- 3. Enter the desired date and time by performing either of the following.
 - Rotate the JogDial clockwise or counterclockwise.
 - Press the + or button.

The cursor can be adjusted by moving the 3D joystick to the right or left.

- 4. Press the PLAY/PAUSE or CAM (SET) button. After the search through the date and time, the recorded image will be played.
- 5. To exit the entry form, press the MON (ESC) or EXIT button. The live image will be displayed again on the monitor.

Recording event search

You will select a searching filter from "TIME&DATE", "CAM-ERA", "REC EVENT", and "TEXT". Playback pictures will be searched by the selected searching filter.

- 1. Enter the recorder mode. (Refer to p. 19 Recorder Mode.)
- 2. Repeat pressing the SEARCH/T&D SEARCH button until the recording event list window is displayed on the monitor. The recorder will enter the searching mode.

TIME&DATE CAMERA	REC EV	/ENT TE	XT UNLOC	k filter
TIME&DATE	CAM	REC EVT	TEXT	
► APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJ	KLMNOP
APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJ	KLMNOP
APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJ	KLMNOP
APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJ	KLMNOP
APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJ	KLMNOP
APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJ	KLMNOP
APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJ	KLMNOP
APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJ	KLMNOP
APR.25.03*12:34:56 AM → AF	PR.25.03	12:34:56 AM	TOTAL	100
TIME&DATE > SEARCH > R	EC EVEN1	F SEARCH + \	MD . SEARCH . N	IARK

3. Select a desired searching filter by moving the joystick rightward or leftward.

TIME&DATE CAMERA	REC EVENT TEXT UNLOCK FILTER	1
TIME&DATE	CAM REC EVT TEXT	
► APR.25.03*12:34:56 AM	01ch MANUAL ABCDEFGHIJKLMNOP	
APR.25.03*12:34:56 AM	01ch MANUAL ABCDEFGHIJKLMNOP	
APR.25.03*12:34:56 AM	01ch MANUAL ABCDEFGHIJKLMNOP	
APR.25.03*12:34:56 AM	01ch MANUAL ABCDEFGHIJKLMNOP	
APR.25.03*12:34:56 AM	01ch MANUAL ABCDEFGHIJKLMNOP	
APR.25.03*12:34:56 AM	01ch MANUAL ABCDEFGHIJKLMNOP	
APR.25.03*12:34:56 AM	01ch MANUAL ABCDEFGHIJKLMNOP	
APR.25.03*12:34:56 AM	01ch MANUAL ABCDEFGHIJKLMNOP	
APR.25.03*12:34:56 AM → A	PR.25.03*12:34:56 AM TOTAL 100	1
TIME&DATE + SEARCH + R	REC EVENT + SEARCH + VMD + SEARCH + MARK	

Note: The illustration is an example in which "CAMERA" has been selected for the searching filter.

4. To determine the filter setting, press the CAM (SET) button.

The searching filter window will be displayed on the monitor.

1 2 9 10	3	4	5	6	7	8
9 10						
	11	12	13	14	15	16
	ET : [SE	T 1	CANC	NEI . [5601	

- **Note:** The searching filter window differs depending on the searching filter selected in Step 2. Refer to p. 25 Searching filter windows for details on each window.
- 5. Filter recording events. (Refer to p. 25 earching filter windows.)
- To exit the searching filter window, press the MON (ESC) button. The searching filter window will be closed, and the recording event list window will be displayed again on the monitor.

Note: Refer to Step 3 for the screenshot.

- 7. Select a desired recording event by performing one of the following.
 - Move the 3D joystick controller to up or down.
 - Rotate the JogDial clockwise or counterclockwise.
 - Press the + or button.

Note: To move to the next or previous page, perform either of the following.

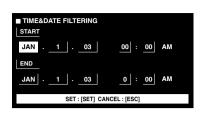
- Move the zoom wheel controller to the right or left.
- Rotate the shuttle ring clockwise or counterclockwise.
- 8. Press the PLAY button.

The playback of selected recording event will start.

9. To exit the search mode, press the MON (ESC) or EXIT button.

The live image will be displayed again on the monitor.

Available controls and functions (TIME&DATE FILTER-ING window)



<Main unit>

JogDial clockwise: Increments a parameter.

JogDial counterclockwise: Decrements a parameter.

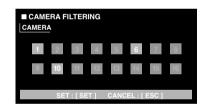
- + **button:** Increments a parameter.
- button: Decrements a parameter.
- CAM (SET) button: Executes the filtering.

MON (ESC) or EXIT button: Cancels the filtering and returns to the upper menu.

<3D joystick unit>

- **3D joystick upward (**▲): Moves the cursor up.
- **3D joystick downward (▼):** Moves the cursor down.
- **3D joystick leftward (**): Moves the cursor to the left.
- **3D joystick rightward (►):** Moves the cursor to the right.

Available controls and functions (CAMERA FILTERING window)



<Main unit>

- JogDial clockwise or counterclockwise: Changes the camera number, pointed by the cursor, between On and OFF.
- + button: Selects the next camera number.

- button: Selects the previous camera number.

CAM (SET) button: Executes the filtering.

- **MON (ESC) or EXIT button:** Cancels the filtering and returns to the upper menu.
- <3D joystick unit>
- **3D joystick upward (**▲**):** Moves the cursor up.
- **3D joystick downward (▼):** Moves the cursor down.
- **3D joystick leftward (**): Moves the cursor to the left.
- **3D joystick rightward (►):** Moves the cursor to the right.

Available controls and functions (REC EVENT FILTER-ING window)



<Main unit>

JogDial clockwise: Increments a parameter.

- JogDial counterclockwise: Decrements a parameter.
- + **button:** Increments a parameter.
- button: Decrements a parameter.

CAM (SET) button: Executes the filtering.

- **MON (ESC) or EXIT button:** Cancels the filtering and returns to the upper menu.
- <3D joystick unit>
- **3D joystick upward (**▲)**:** Moves the cursor up.
- **3D joystick downward (▼):** Moves the cursor down.
- 3D joystick leftward (<): Moves the cursor to the left.
- **3D joystick rightward (►):** Moves the cursor to the right.

Available controls and functions (TEXT FILTERING window)

	RING		
	WITHO	UT TEXT	
SET	:[SET]	CANCEL : []	ESC]

<Main unit>

JogDial clockwise: Increments a parameter.

- JogDial counterclockwise: Decrements a parameter.
- + button: Increments a parameter.
- button: Decrements a parameter.

CAM (SET) button: Executes the filtering.

MON (ESC) or EXIT button: Cancels the filtering and returns to the upper menu.

VMD search

Recording events will be searched by the date and time when a camera detected the brightness-level change. Then, a result list or a thumbnail will be displayed.

For playback, you will select a time and date displayed on the result list or thumbnail. Filtering is available by camera channel, date-and-time, detection area or search mode.

- 1. Enter the recorder mode. (Refer to p. 19 Recorder Mode.)
- Repeat pressing the SEARCH/T&D SEARCH button until the VMD search list window is displayed on the monitor. The recorder will enter the searching mode.

TIME&DATE	CAM
APR.25.03*12:34:56 AM	01ch

3. Press the CAM (SET) button.

The VMD search window will be displayed on the monitor.

SELEC	T CAMERA & DATE	
CAM1 START		
JAN .	1 . 03	12 : 00 AM
END		1 1
JAN .	1 . 03	12 : 00 AM
SET :	[SET] SEARCH : [PL	AY] CANCEL : [ESC]

4. Enter a camera number and time range.

Available controls and functions <Main unit>

JogDial clockwise: Increments a parameter.

- JogDial counterclockwise: Decrements a parameter.
- + button: Increments a parameter.
- button: Decrements a parameter.
- **PLAY/PAUSE button:** Executes the VMD search and returns to the upper menu.

STOP button: Stops the VMD search.

MON (ESC) or EXIT button: Cancels the VMD search and returns to the upper menu.

<3D joystick unit>

- **3D joystick upward (▲):** Moves the cursor up.
- **3D joystick downward (\mathbf{\nabla}):** Moves the cursor down.
- **3D joystick leftward (**): Moves the cursor to the left.
- **3D joystick rightward (►):** Moves the cursor to the right.
- 5. Press the CAM (SET) button.

The motion detection area setup window will be displayed.



- **Note:** If no image was recorded in the time range set in step 4, the motion detection area setup window will not be displayed.
- 6. Select "SETUP AREA" on the status bar by performing either of the following.
 - Rotate the JogDial clockwise or counterclockwise.
 Press the + or button.



- Note: To set all displayed areas as motion detection areas, press the CAM (SET) button after selecting "ALL AREAS".
- 7. Move the "+" mark to a desired area with the 3D joystick, and then press the CAM (SET) button. The start point of motion detection area will be determined.
- Move the "+" mark to another desired area with the 3D joystick, and then press the CAM (SET) button again. The end point of motion detection area will be determined.



- 9. To configure more motion detection areas, repeat Step 7 and 8. (Up to 4 motion detection areas are available.)
 - **Note:** To delete the motion detection area, select "DELETE AREA" on the status bar by rotating the JogDial or pressing the +/- button. Then, move the "+" mark to the desired area with the joystick, and press the CAM (SET) button.
- 10. Select "SENSITIVITY" on the status bar by performing either of the following.
 - Rotate the JogDial clockwise or counterclockwise.
 - Press the + or button.



- **Note:** Depending on the position of the set detection areas, the sensitivity indications of the detection areas may be displayed overlapping each other.
- 11. Select the motion detection area by moving the 3D joystick to the right or left.
- A "+" mark will appear at the center of the monitor. Download from Www.Somanuals.com. All Manuals Search And Download.

12. Select the sensitivity by moving the joystick upward or downward.

The sensitivity will be applied.

OFF: The motion detector is not activated on the camera channel.

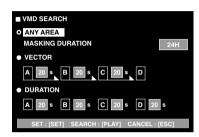
LOW: The sensitivity level is low.

MID: The sensitivity is level is medium.

HIGH: The sensitivity level is high.

13. To exit the motion detection area setup window, press the CAM (SET) button.

The motion detection mode setup window will be displayed on the monitor.



Notes:

- To cancel the motion detection area setup, press the MON (ESC) button. The VMD search list window will be displayed again on the monitor.
- Refer to the unit's operating instructions for details on each detection mode.
- 14. Select a desired detection mode with the 3D joystick, and select a desired parameter by performing either of the following.
 - Rotate the JogDial clockwise or counterclockwise.
 - Press the + or button.
- 15. Press the CAM (SET) or PLAY/PAUSE button.

The motion detection mode will be determined, and the VMD search list window will be displayed again on the monitor.

Notes:

- Refer to Step 2 for the screenshot.
- To cancel the setting and return to the motion detection area setup window, press the MON (ESC) or EXIT button.
- 16. Select a desired recording event by performing one of the following.
 - Move the 3D joystick controller up or down.
 - Rotate the JogDial clockwise or counterclockwise.
 - Press the + or button.
 - **Note:** To move to the next or previous page, perform either of the following.
 - Move the zoom wheel controller to the right or left.
 - Rotate the shuttle ring clockwise or counterclockwise.

- Press the PLAY button.
 The playback of selected recording event will start.
- 18. To exit the search mode, press the MON (ESC) or EXIT button.

The live image will be displayed again on the monitor.

Marking search

The recording time of the recorded images with a marked point will be displayed in a list or a thumbnail. For playback, you will select the desired recording time to play. (Refer to the recorder's operating instructions for details on marking.)

- 1. Enter the recorder mode. (Refer to p. 19 Recorder Mode.)
- Repeat pressing the SEARCH/T&D SEARCH button until the marking list window is displayed on the monitor.

The recorder will enter the searching mode.

TIME&DATE	CAM		
► APR.25.03*12:34:56 AM	01ch		
APR.25.03*12:34:56 AM	01ch		
APR.25.03*12:34:56 AM	01ch		
APR.25.03*12:34:56 AM	01ch		
APR.25.03*12:34:56 AM	01ch		
APR.25.03*12:34:56 AM	01ch		
APR.25.03*12:34:56 AM	01ch		
APR.25.03*12:34:56 AM	01ch		
APR.25.03*12:34:56 AM → AP	R.25.03*12:34:56 AM	TOTAL	12345
TIME&DATE ► SEARCH ► RE	C EVENT > SEARCH > VI	ID + SEARCH +	MARK

- 3. Select the desired marked time by performing one of the following.
 - Move the 3D joystick controller up or down.
 - Rotate the JogDial clockwise or counterclockwise.
 - Press the + or button.

Note: To move to the next or previous page, perform either of the following.

- Move the zoom wheel controller to the right or left.
- Rotate the shuttle ring clockwise or counterclockwise.
- 4. Press the PLAY button.

The playback of selected recording event will start.

5. To exit the search mode, press the MON (ESC) or EXIT button.

The live image will be displayed again on the monitor.

Thumbnail window

To change a list (recording event list, VMD search list, or marking search list) to the thumbnail, press the F1 button. The monitor display will become as follows.



Available controls and functions

<Main unit>

Shuttle ring clockwise: Moves to the next page.

- Shuttle ring counterclockwise: Moves to the previous page.
- JogDial clockwise or counterclockwise: Moves the cursor.
- + or button: Moves the cursor.
- **PLAY/PAUSE button:** Starts playback of the record pointed by the cursor.
- **MON (ESC) or EXIT button:** Exits the search mode and returns to the upper menu.

F1 button: Changes the monitor display to the list.

<3D joystick unit>

- 3D joystick upward (): Moves the cursor to the left.
- **3D joystick downward (▼):** Moves the cursor to the right.
- **3D joystick leftward (**): Moves the cursor to the left.
- **3D joystick rightward (►):** Moves the cursor to the right.
- Zoom wheel controller to the right: Moves to the next page.
- Zoom wheel controller to the left: Moves to the previous page.

Disk Selection

You will specify a disk of recorder for search playback.

- 1. Enter the recorder mode. (Refer to p. 19 Recorder Mode.)
- 2. Press the MENU button repeatedly repeatedly until "HD300 DiskSelect" appears on the LCD.

HD300 DiskSelect 302 Nr-A Cp-A Cpy1 Cpy2

 Press one of the F1 to F4 buttons. The specified disk will be selected.

Available buttons and functions

F1: Nr-A

Specifies the normal or event recording area for playback.

F2: Cp-A

Specifies the copy area for playback.

F3: Cpy1

This button is reserved for future use.

F4: Cpy2

This button is reserved for future use.

MON (ESC)

Cancels search playback and recovers the default LCD status.

EXIT

Cancels search playback and recovers the default LCD status.

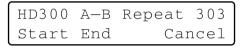
4. When you specify a disk, the search list display will appear on the active monitor, and "Search Mode" menu will appear on the LCD. Then, perform the search playback operation. (Refer to p. 23 Search Playback.)

Search	Mode	/HD300
Thumb	Τe	ext Copy

A - B Repeat Playback

You can playback the recorded images repeatedly by specifying the start point (A) and end point (B).

- 1. Enter the recorder mode. (Refer to p. 19 Recorder Mode.)
- 2. Press the MENU button repeatedly until "HD300 A B repeat" appears on the LCD.



- **Note:** To cancel the setting and exit "HD300 A B repeat", press the MON (ESC) or EXIT button. The LCD display will return to the default status.
- During playback, press the F1 button at the point you wish to start playback. The playback start point (A) will be set.

Note: To cancel the start point, press the F4 button.

 Press the F2 button at the point you wish to end playback. The playback end point (B) will be set, and the repeat playback will be performed between (A) and (B).

Canceling Filters

During the filtering playback, the searching filter will be temporarily canceled or recovered.

- This function is available only during filtering playback.
- You can change the ON/OFF setting during playback and playback pause.
- 1. Enter the recorder mode. (Refer to p. 19 Recorder Mode.)
- 2. Press the MENU button repeatedly until "HD300 Listed" appears on the LCD.

Note: If the recorder is WJ-HD300 Series, "▶" mark will light up beside "Off" in the default status.

3. Press the F2 button.

The searching filter will be canceled, and "▶" mark will light up beside "Off".

HD300 Listed	304
On ▶Off	

Notes:

- To recover the searching filter, press the F1 button.
 The searching filter will be recovered, and "▶" mark will light up beside "On".
- To cancel the setting and exit "HD300 Listed", press the MON (ESC) or EXIT button. The LCD display will return to the default status.

Electronic Zooming (EL-ZOOM)

The operations are the same as WJ-HD500 Series. (Refer to p. 21.)

Note: 2 x and 4 x are available zooming range. 8 x is unavailable.

System Function

- 1. Enter the recorder mode. (Refer to p. 19 Recorder Mode.)
- Press the CAM FUNC/SYS FUNC button while holding down the SHIFT button, system function of recorder will be executed.

Notes:

- Refer to the operating instructions of recorder for details on available functions and function numbers.
- If you have entered a wrong function number (other than 1 to 999), "Prohibited" will appear on the LCD for three seconds. Then, the LCD will return to the former status.

Playing the Latest Recorded Image

- 1. Enter the recorder mode. (Refer to p. 19 Recorder Mode.)
- 2. Press the GO TO LAST button during the playback. The latest recorded image will be played back.

Marking

- 1. Enter the recorder mode. (Refer to p. 19 Recorder Mode.)
- 2. Press the MARK button during the playback. The playback start point will be marked.
- **Note:** The marked playback images will be listed in the marking list window. Refer to p. 27 Marking search for how to play back.

Displaying Camera Titles

- 1. Enter the recorder mode. (Refer to p. 19 Recorder Mode.)
- 2. When you press the OSD button, the OSD display will change.

Note: Refer to the recorder's operating instructions for details on operations.

WJ-HD200 SERIES CONTROL (TERMINAL MODE)

Matrix switcher can control Digital Disk Recorder WJ-HD200 Series. The following is the procedure of WJ-HD200 Series SETUP MENU.

Notes:

- The following operating procedures are for the terminal mode. If you are using a PS·Data system controller, refer to p. 36.
- When a Multiplexer board is installed in the matrix switcher, you can neither connect nor control a WJ-HD200 Series recorder. You need to remove the board from the matrix switcher.

Displaying WJ-HD200 Series SETUP MENU

The operations are the same as WJ-HD500 Series. (Refer to p. 18.)

Controlling Digital Disk Recorder WJ-HD200 Series

The following are the operating procedures of WJ-HD200 Series via system controller.

Note: Refer to the operating instructions of Digital Disk Recorder WJ-HD200 Series for details.

Recorder Mode

The operations are the same as WJ-HD500 Series. (Refer to p. 19.)

Multiscreen Segment Switching

The operations are the same as WJ-HD500 Series. (Refer to p. 19.)

Note: 4C-, 4D-, 7-, 10-, 13- and 16-segment multiscreen display patterns are unavailable.

Normal Playback

The operations are the same as WJ-HD500 Series. (Refer to p. 19.)

Note: You cannot skip to the previous/next record.

Manual Recording

The operations are the same as WJ-HD500 Series. (Refer to p. 20.)

Note: Refer to WJ-HD200 Series Operating Instructions for details and other recording modes.

Stopping REC ONLY Alarm Recording

The operations are the same as WJ-HD500 Series. (Refer to p. 20.)

Search Playback

You can search playback images using the ALARM RECALL table or the SEARCH table.

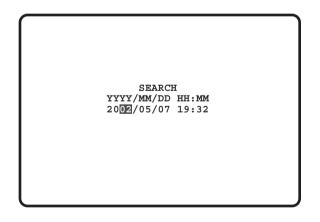
Every time you press the SEARCH/T&D SEARCH button, the display will change as follows.

Live image \rightarrow Date-and-time entry form \rightarrow ALARM RECALL table \rightarrow Live image

Date-and-time Search Playback

The recorded images can be searched for through the date and time.

- 1. Enter the recorder mode. (Refer to p. 19 Recorder Mode.)
- 2. Press the SEARCH/T&D SEARCH button. The date-andtime entry form will appear on the center of the monitor.



Note: The factory default setting is the current date and time.

 Press the numeric buttons or +/- button to enter the desired date and time. The cursor can be adjusted by moving the 3D joystick rightward or leftward.



- 4. Press the PLAY/PAUSE button. After the search through the date and time, the recorded image will be played.
- 5. To return to the multiscreen display, press the STOP button.
- **Note:** To cancel the entry form, press the MON (ESC) or EXIT button.

• ALARM RECALL table

The recorder's alarm history will be displayed on the ALARM RECALL table.

- 1. Press the ALM RECALL button. The ALARM RECALL table will appear on the monitor.
- 2. Move the cursor with the 3D joystick to the desired alarm number, and then press the PLAY/PAUSE button. The associated image will be played back.

A	LARM RI	ECALL	YEA	R03
NO.	DATE	TIME		ALM
2000	06-14	20:30	:00	T1
1999	06-14	15:30	:12	Т3
1998	06-14	12:15	:04	Т4
1997	06-14	12:15	:02	V8
1996	06-14	10:07	:05	V2
1995	06-14	10:07	:04	Т2
1994	06-14	10:06	:55	Т6
1993	06-14	09:58	:32	V5
(TOTA	ь 2000	DEVENT	S)	
TO S	EARCH 1	PUSH T	&D K	ΕY

• Electronic Zooming (EL-ZOOM)

The operations are the same as WJ-HD500 Series. (Refer to p. 21.)

Note: 2 x and 4 x are available zooming range. 8 x is unavailable.

Multiscreen Sequence

The operations are the same as WJ-HD500 Series. (Refer to p. 21.)

WJ-HD100 SERIES CONTROL MUX (TERMINAL MODE)

Digital Disk Recorder WJ-HD100 Series are operable with the system controller, when the Multiplexer board is installed in the matrix switcher.

Note: Before the use, it is necessary to install the Multiplexer board in the matrix switcher, connect the matrix switcher to the digital disk recorder, and configure the system through WJ-SX150A Administrator Console, OSD SETUP MENU, and WJ-HD100 Series SETUP MENU. (Refer to the operating instructions of matrix switcher.)

Displaying WJ-HD100 Series SETUP MENU

The operations are the same as WJ-HD500 Series. Refer to p. 18 Displaying WJ-HD500 Series SETUP MENU. The following functions and buttons are valid in SETUP MENU.

3D joystick to the left (◄): Decrements a parameter 3D joystick to the right (►): Increments a parameter

Controlling Digital Disk Recorder WJ-HD100 Series

The following are the operating procedures of WJ-HD100 Series via the system controller.

Multiscreen Segment Switching

The operating procedure is the same as WJ-HD500 Series. (Refer to p. 19.)

Note: 7-, 10-, or 13-segment multiscreen display is unavailable.

Normal Playback

The operations are the same as WJ-HD500 Series. (Refer to p. 19.)

Notes:

- You cannot skip to the previous/next record.
- Refer to WJ-HD100 Series Operating Instructions for details and other playback modes.

Manual Recording

The operations are the same as WJ-HD500 Series. Refer to p. 20.

Stopping REC ONLY Alarm Recording

The operations are the same as WJ-HD500 Series. Refer to p. 20.

Search Playback

You can search playback images using the ALARM RECALL table or the SEARCH table.

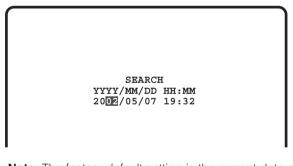
Every time you press the SEARCH/T&D SEARCH button, the display will change as follows.

Live image \rightarrow Date-and-time entry form \rightarrow ALARM RECALL table \rightarrow Live image

Date-and-time Search Playback

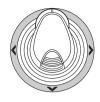
The recorded images can be searched for through the date and time.

- 1. Enter the recorder mode. (Refer to p. 19 Recorder Mode.)
- 2. Press the SEARCH/T&D SEARCH button. The date-andtime entry form will appear on the center of the monitor.



Note: The factory default setting is the current date and time.

 Press the numeric buttons or +/- button to enter the desired date and time. The cursor can be adjusted by moving the 3D joystick rightward or leftward.



- 4. Press the PLAY/PAUSE button. After the search through the date and time, the recorded image will be played.
- 5. To return to the multiscreen display, press the STOP button.
- **Note:** To cancel the entry form, press the MON (ESC) or EXIT button.

• ALARM RECALL table

The recorder's alarm history will be displayed on the ALARM RECALL table.

- 1. Press the ALM RECALL button. The ALARM RECALL table will appear on the monitor.
- 2. Move the cursor with the 3D joystick to the desired alarm number, and then press the PLAY/PAUSE button. The associated image will be played back.

NO	ALARM REC DATE	CALL 1 OF TIME	10 AI	
99	JUN 9.00	00:00:00	*	т
98	JUN 1.00	02:34:56		т
97	JUN 1.00	01:10:01	*	v
96	MAY31.00	23:34:45		v
95	MAY30.00	02:00:20	*	т
94	MAY14.00	05:30:31	*	т
93	MAY 7.00	23:00:59		т
92	MAY 6.00	22:05:50		v
91	APR14.00	23:00:59	*	т
90	APR14.00	16:06:34	*	v

TIME-LAPSE VCR CONTROL MUX [PANASONIC MODELS] (TERMINAL MODE)

A time-lapse VCR (Panasonic Models) is operable with the system controller, while connecting to the matrix switcher.

Note: Before the use, it is necessary to install the Multiplexer board in the matrix switcher, connect the matrix switcher to the time-lapse VCR, and configure the system through WJ-SX150A Administrator Console, OSD SETUP MENU, and time-lapse VCR's SETUP MENU. (Refer to the operating instructions of matrix switcher.)

The following is the procedure of a Panasonic model timelapse VCR.

■ Controlling the Time-lapse VCR

The following are the operating procedures of the timelapse VCR via system controllers.

Multiscreen Segment Switching

The operations are the same as WJ-HD500 Series. (Refer to p. 18.)

Note: 7-, 10-, and 13- segment multiscreen display patterns are unavailable.

Normal Playback

The operations are the same as WJ-HD500 Series. (Refer to p. 19.)

Note: You cannot skip to the previous/next record.

Fast-forward

- 1. Move the shuttle ring clockwise to fast-forward the tape during the stop.
- To stop fast-forwarding, press the STOP button.
 Note: Pressing the PLAY/PAUSE button during fast-forward will start playback.

Rewind

- 1. During the stop, move the shuttle ring counterclockwise to rewind the tape.
- Press the STOP button to stop rewinding.
 Note: Pressing the PLAY/PAUSE button during rewind will start playback.

Manual Recording

The operations are the same as WJ-HD500 Series. Refer to p. 20 Manual Recording.

Stopping REC ONLY Alarm Recording

The operations are the same as WJ-HD500 Series. Refer to p. 20.

TIME-LAPSE VCR CONTROL MUX [NON-PANASONIC MODELS] (TERMINAL MODE)

A time-lapse VCR is operable with the system controller, while connecting to the matrix switcher.

Notes:

- Before the use, it is necessary to install the Multiplexer board in the matrix switcher, connect the matrix switcher to the digital disk recorder, and configure the system through WJ-SX150A Administrator Console, OSD SETUP MENU, and time-lapse VCR's SETUP MENU. (Refer to the operating instructions of matrix switcher.)
- You cannot control non-Panasonic time-lapse VCRs from system controllers.

The following is the procedure of a non-Panasonic model time-lapse VCR.

Controlling the Time-lapse VCR Multiscreen Segment Switching

The operations are the same as WJ-HD500 Series. (Refer to p. 19.)

Note: 7-, 10-, and 13- segment multiscreen display patterns are unavailable.

Normal Playback

- 1. Enter the recorder mode. (Refer to p. 19 Recorder Mode.)
- 2. Do the playback procedure using the buttons on the front panel. (Refer to the time-lapse VCR's operating instructions for how to operate.)
- 3. Press the PLAY/PAUSE button. The playback image will appear on the monitor.
- 4. To display the spot picture, press the numeric buttons corresponding to the desired camera number, then press the CAM (SET) button. Then, the active monitor number will appear on the LCD. (Refer to p. 20 Normal Playback for the illustration.)

Other Operations

Refer to the time-lapse VCR's operating instructions for how to operate.

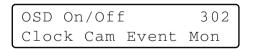
MONITOR DISPLAY CONTROL (PS.DATA)

The operations are the same as System Controller WV-CU360C/CJ, except for the following.

Note: Refer to the operating instructions of matrix switcher for other operations.

On-screen Display (OSD) Control

1. Display "SX150 OSD" sub menu. (Refer to the operating instructions of WV-CU650.)



2. Press one of the F1 to F4 buttons.

One of the following OSD items will appear/disappear on/from the active monitor. (Refer to p. 11 for monitor display illustration.)

Available buttons and functions F1: Clock Displays/hides the time and date. F2: Camera title

Displays/hides the camera title.

F3: Event

Displays/hides the event.

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F4: Monitor status

Displays/hides the monitor status.

Video Loss History Table

1. Display "VLD History" sub menu. (Refer to the operating instructions of WV-CU650.)

VLD	History	303
On	off Off	

- Press the F1 button.
 The VIDEO LOSS HISTORY table will appear on the active monitor. (Refer to p. 13 for the illustration.)
- 3. To close the VIDEO LOSS HISTORY table, press the F2 button.

WJ-HD500/300/200/100 SERIES CONTROL (PS·DATA)

The details on recorder control are described in WV-CU650 Operating Instructions. However, when the system controller (WV-CU650) is connected to recorders via the matrix switcher (WJ-SX150 Series), the following differences will occur.

Unavailable Functions through WJ-SX150A Connection

The following functions are unavailable when the system controller (WV-CU650) is connected to recorders via the matrix switcher (WJ-SX150 Series).

HD500 V-Multi

LCD MENU	HDD	204
HD500 V-Mult	:i	

HD200 Alarm Search

J/S MH	ENU		514
HD200	Alm	Search	

Functions Only Available with WJ-HD300 Series

The following functions are available only when the system controller (WV-CU650) is connected to WJ-HD300 Series via the matrix switcher (WJ-SX150 Series).

• Time & Date Search Playback

Mmm/DD/YYYY	HH:MM	12
Mar/17/2004	12:00	AM

Functions Only Available with WJ-HD200 Series/WJ-HD100 Series

The following functions are available only when the system controller (WV-CU650) is connected to WJ-HD200 Series or WJ-HD100 Series via the matrix switcher (WJ-SX150 Series).

Note: This function is unavailable when the system controller (WV-CU650) is connected to WJ-HD500 Series via the matrix switcher (WJ-SX150 Series).

• Alarm Recall (WJ-HD200 Series)

The LCD display becomes as follows.

```
Alarm Recall /HD200
Edit
```

Alarm Recall (WJ-HD100 Series)

The LCD display becomes as follows.

Alarm Recall /HD100

(2) ADDENDUM FOR MATRIX SWITCHER WJ-SX150 SERIES: TO USE DIGITAL DISK RECORDER WJ-HD300 SERIES/WJ-HD220 SERIES

SYSTEM CONNECTIONS AND SETUPS (WJ-HD300 SERIES/WJ-HD220 SERIES)

■ Connection with Digital Disk Recorder WJ-HD300 Series

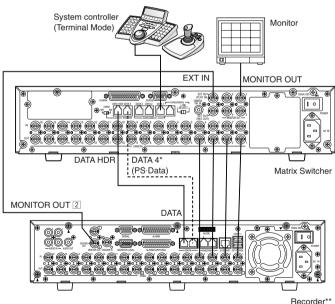
Notes:

- Refer to service personnel for details on the connection with a recorder to operate via LAN or the Internet.
- Check that the firmware of recorder is Ver. 1.30 or later.
- Only one recorder can be connected to the DATA HDR connector of this unit. (Multiple unit connections, such as cascade connection, are not available.)

Basic Connection

The following is the description of the connection between a recorder and this unit to confirm the images from the recorder.

- 1. Set the unit address of the recorder to 1.
- 2. Set the [Camera control] setting to "PSD" for all cameras in SETUP MENU of the recorder.
- 3. Connect the unit's CAM OUT 1 to 16 connectors to the recorder's VIDEO IN 1 to 16 connectors with a coaxial cable.
- 4. Connect the unit's EXT IN connector to the recorder's MULTISCREEN OUT connector with a coaxial cable.
- 5. Connect the unit's DATA HDR connector to the recorder's DATA port with a modular cable.



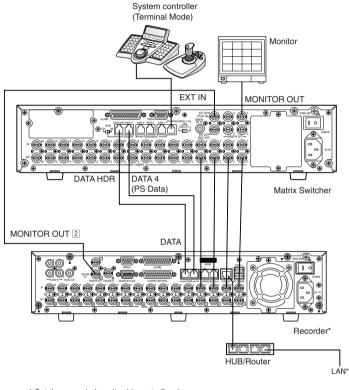
* Connect these ports if you control cameras from the front panel of recorder. ** Set the recorder's unit address to 1.

- Make sure the recorder's unit address is set to 1 through SETUP MENU or WJ-SX150A administrator Console. (Refer to this unit's operating instructions.) If another number is selected, you cannot control the recorder.
- To control cameras at the front panel of recorder, connect the DATA 4 connector and the DATA port of recorder with a modular cable. (PS·Data system controller is not connectable to the DATA 4 connector.)
- From system controllers connected to the unit (WJ-SX150A), you cannot control the monitor connected to the MONITOR OUT 1 connector of recorder.

• To Control a Recorder and Cameras via the Network

The following is the description of the connection between a recorder and this unit to control the recorder and cameras via the network.

- 1. Set the unit address of the recorder to 5 or larger.
- (Refer to the recorder's operating instructions.)
- 2. Set the [Camera control] setting to "PSD" for all cameras in SETUP MENU of the recorder.
- 3. Connect the unit's CAM OUT 1 to 16 connectors to the recorder's VIDEO IN 1 to 16 connectors with a coaxial cable.
- 4. Connect the unit's EXT IN connector to the recorder's MULTISCREEN OUT connector with a coaxial cable.
- 5. Connect the unit's DATA HDR and DATA4 connectors to the recorder's DATA ports with modular cables.
- 6. Select the recorder's new unit address, which is set in Step 1, in 600 RECORDER of SETUP MENU or the Recorder window of WJ-SX150A Administrator Console. (Refer to this unit's operating instructions.)

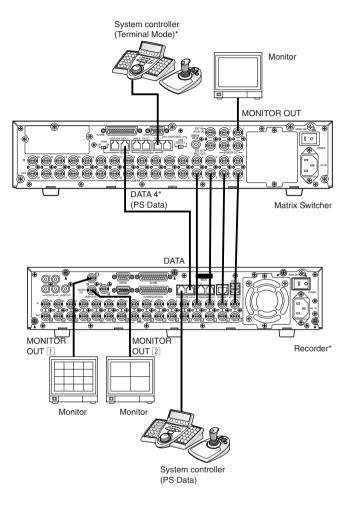


* Set the recorder's unit address to 5 or larger. ** LAN: Local Area Network

- Select the PS·Data protocol for the DATA 4 setting. (Refer to this unit's operating instructions.)
- If the recorder's unit address, set in Step 1, and the recorder setting, set in Step 6, are different, the recorder will not be operable.
- In these connections, you cannot use a PS·Data system controller.
- From system controllers connected to the unit, you cannot control the monitor connected to the MONITOR OUT 1 connector of recorder.

PS-Data Connection

- 1. Set the unit address of the recorder to 5 or larger.
- 2. Set the [Camera control] setting to "PSD" for all cameras in SETUP MENU of the recorder.
- 3. Connect the unit's CAM OUT 1 to 16 connectors to the recorder's VIDEO IN 1 to 16 connectors with a coaxial cable.
- 4. Connect the unit's DATA4 Port connector to the recorder's DATA port with a modular cable. Select the recorder's new unit address, which is set in Step 1, in 600 RECORDER of SETUP MENU or the Recorder window of WJ-SX150A Administrator Console. (Refer to this unit's operating instructions.)



* Recorder control from system controllers connected to the matrix switcher is not available.

- Select the PS·Data protocol for the DATA 4 setting.
 - (Refer to this unit's operating instructions.)
- If the recorder's unit address, set in Step 1, and the recorder setting, set in Step 5, are different, the recorder will not be operable.
- Do not connect the recorder to the DATA HDR port.
- From system controllers connected to the unit, you cannot control the recorder.
- Only one matrix switcher can be connected in the PS·Data mode.

Settings of Administrator Console and SETUP MENU(OSD)

When WJ-SX150A Administrator Console is Ver. 2.03 or later

Select "HD300".

Master		
	ol HD500 © HD100 © HD200 © HD300 WTR control is in the OSD menu.	
Unit Address	001 -	
EXT IN	GENLOCK OFF 👻	

When the firmware of this unit is Ver. 2.03 or later.

Select "HD300" for "CONTROL" in 600 RECORDER of SETUP MENU(OSD).

600	RECORDE	R							
610	MASTER	CONTRO	DL	ADR	. 1	EXT	IN		
	SLAVE1	HD300		01	. (GENI	OCK	OFF	
630	SLAVE2	HD300		01	. (GENI	LOCK	OFF	
640	SLAVE3	HD100		01					
650	SLAVE4	OFF			(GENI	OCK	OFF	
	-COMMUNI	CATION	STA	rus-	_				
	DATA BI	т	7bi	t					
	PARITY 3	BIT	ODD						
STOP BIT		1bit							
BAUD RATE		9600bps							
COMM PORT		SERIAL PORT							

■ Connection with Digital Disk Recorder WJ-HD220 Series

• To Confirm the Images from a Recorder Connected to the Unit

- Connection procedures are the same as WJ-HD200 Series.
- Set the DATA setting to "PSD" for CAMERA 1 to 4 in the CAMERA SYSTEM SETUP menu of the recorder.

• To Control a Recorder via the Network

- Connection procedures are the same as WJ-HD200 Series.
- Set the DATA setting to "PSD" for CAMERA 1 to 4 in the CAMERA SYSTEM SETUP menu of the recorder.

• Settings of Administrator Console and SETUP MENU(OSD)

Select "HD200" in the Administrator Console window.

WJ-HD300 SERIES CONTROL (WV-CU650 TERMINAL MODE)

Refer to p. 22 WJ-HD300 SERIES CONTROL (TERMINAL MODE).

WJ-HD300 SERIES CONTROL (WV-CU650 PS-DATA)

Refer to p. 36 and the operating instructions of system controller.

WJ-HD300 SERIES CONTROL (WV-CU360C/CJ TERMINAL MODE)

- Available operations are in common with WJ-HD500 Series. (Refer to this unit's operating instructions.) This document describes operations applicable to WJ-HD300 Series only.
- You cannot control the following functions from System Controller WV-CU360C and WV-CU360CJ. (It is recommended to use System Controller WV-CU650.)
 - A B repeat playback
 - GO TO LAST
 - Filtering ON/OFF
 - MARK
 - Text display ON/OFF
 - Disk selection
 - System functions

Controlling Digital Disk Recorder WJ-HD300 Series

Search Playback

You can search playback images using the ALARM RECALL table or the SEARCH table.

Every time you press the INDEX button, the display will change as follows.

Live image \rightarrow Date-and-time entry form \rightarrow Recording event list \rightarrow VMD search list \rightarrow Marking list \rightarrow Date-and-time entry form...

• Date-and-time Search Playback

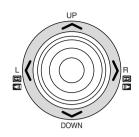
The recorded images can be searched for through the date and time.

- 1. Enter the recorder mode. (Refer to the unit's operating instructions.)
- 2. Press the INDEX button. The date-and-time entry form will appear on the monitor.



Note: The factory default setting is the current date and time.

3. Press the NEXT or PREV button to enter the desired date and time. The cursor can be adjusted by moving the joystick rightward or leftward.



Note: To exit the entry form, press the MON (ESC) button.

4. Press the PLAY or CAM (SET) button. After the search through the date and time, the recorded image will be played.

Recording event search

You will select a searching filter from "TIME&DATE", "CAM-ERA", "REC EVENT", and "TEXT". Playback pictures will be searched by the selected searching filter.

- 1. Enter the recorder mode. (Refer to the unit's operating instructions.)
- Repeat pressing the INDEX button until the recording event list window is displayed on the monitor. The recorder will enter the searching mode.

TIME&DATE CAMERA	REC EV	ENT TE	XT UNLOCK FILTER		
TIME&DATE	CAM	REC EVT	TEXT		
► APB.25.03*12:34:56 AM	01ch	MANUAL	ABCDEEGHIJKLMNOP		
► APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJKLMNOP		
► APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJKLMNOP		
APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJKLMNOP		
APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJKLMNOP		
APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJKLMNOP		
APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJKLMNOP		
APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJKLMNOP		
APR.25.03*12:34:56 AM → AP	PR.25.03	12:34:56 AM	TOTAL 100		
TIME&DATE ► SEARCH ► R	TIME&DATE > SEARCH > REC EVENT > SEARCH > VMD > SEARCH > MARK				

Note:

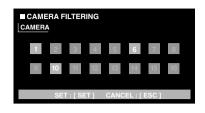
- To change the monitor display to the thumbnail, press the F1 button. (Refer to the operating instructions of recorder for details on monitor display.)
- You can display neither the text information nor DATA COPY window.
- 3. Select a desired searching filter by moving the joystick rightward or leftward.

TIME&DATE CAMERA	REC EV	ENT TE	XT UNLOC	K FILTER
TIME&DATE	CAM	REC EVT	TEXT	
► APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJ	KLMNOP
APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJ	KLMNOP
APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJ	KLMNOP
APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJ	KLMNOP
APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJ	KLMNOP
APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJ	KLMNOP
APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJ	KLMNOP
APR.25.03*12:34:56 AM	01ch	MANUAL	ABCDEFGHIJ	KLMNOP
APR.25.03*12:34:56 AM → AF	PR.25.03*	12:34:56 AM	TOTAL	100
TIME&DATE > SEARCH > R	EC EVENT	' ► SEARCH ► \	MD + SEARCH + I	IARK

Note: The illustration is an example in which "CAMERA" has been selected for the searching filter.

4. To determine the filter setting, press the CAM (SET) button.

The searching filter window will be displayed on the monitor.



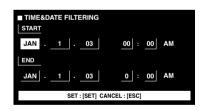
- **Note:** The searching filter window differs depending on the searching filter selected in Step 3. Refer to Searching filter windows for details on each window.
- 5. Filter recording events. (Refer to Searching filter windows.)
- 6. To select a desired recording event, perform the following.
 - Move the joystick upward or downward.
 - Press the NEXT or PREV button.

Note: To exit the search mode, press the MON (ESC) button.

Press the PLAY button.
 The playback of selected recording event will start.

Searching filter windows

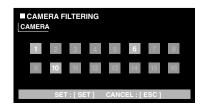
Available controls and functions (TIME&DATE FILTER-ING window)



Joystick: Moves the cursor.

NEXT or PREV button: Changes a parameter.CAM (SET) button: Executes the filtering.MON (ESC) button: Cancels the filtering and returns to the upper menu.

Available controls and functions (CAMERA FILTERING window)



Joystick: Moves the cursor. NEXT or PREV button: Changes a parameter. CAM (SET) button: Executes the filtering. MON (ESC) button: Cancels the filtering and returns to the upper menu.

Available controls and functions (REC EVENT FILTER-ING window)

REC EVENT FILTERING				
EMERGENCY	OFF			
VMD	ON			
TERMINAL	ON			
COMMAND	ON			
VIDEO LOSS	ON			
MANUAL	ON			
SCHEDULE ON				
SET:[SET] CANCEL:[ESC]				

Joystick: Moves the cursor.

NEXT or PREV button: Changes a parameter.CAM (SET) button: Executes the filtering.MON (ESC) button: Cancels the filtering and returns to the upper menu.

Available controls and functions (TEXT FILTERING window)

■ TEXT FILTERING				
	WITHOUT TEX	ст		
SET	[SET] CANC	EL : [ESC]		

NEXT or PREV button: Changes a parameter.CAM (SET) button: Executes the filtering.MON (ESC) button: Cancels the filtering and returns to the upper menu.

VMD search

Recording events will be searched by the date and time when a camera detects a motion. Then, a result list or a thumbnail will be displayed.

For playback, you will select a time and date displayed on the result list or thumbnail. Filtering is available by camera channel, date-and-time, detection area or search mode.

- 1. Enter the recorder mode. (Refer to the unit's operating instructions.)
- 2. Repeat pressing the INDEX button until the VMD search list window is displayed on the monitor.

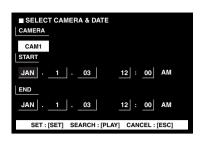
The recorder will enter the searching mode.

(The list displayed in the window is the results of previous search.)



3. Press the CAM (SET) button.

The VMD search window will be displayed on the monitor.



4. Enter a camera number and time range.

Available controls and functions

Joystick: Moves the cursor.

NEXT or PREV button: Changes a parameter.

PLAY button: Executes the VMD search and returns to the upper menu.

MON (ESC) button: Cancels the filtering and returns to the upper menu.

5. Press the CAM (SET) button.

The motion detection area setup window will be displayed.



- Note: If no image was recorded in the time range set in step 4, the motion detection area setup window will not be displayed.
- 6. Select "SETUP AREA" on the status bar by pressing the NEXT or PREV button.
 - A "+" mark will appear at the center of the monitor.



- Note: To set all displayed areas as motion detection areas, press the CAM (SET) button after selecting "ALL AREAS".
- 7. Move the "+" mark to a desired area with the joystick, and then press the CAM (SET) button. The start point of motion detection area will be determined.

8. Move the "+" mark to another desired area with the joystick, and then press the CAM (SET) button again. The end point of motion detection area will be determined.



- 9. To configure more motion detection areas, repeat Step 7 and 8. (Up to 4 motion detection areas are available.)
 - Note: To delete the motion detection area, select "DELETE AREA" on the status bar by pressing the NEXT or PREV button. Then, move the "+" mark to the desired area with the joystick, and press the CAM (SET) button.
- 10. Select "SENSITIVITY" on the status bar by pressing the NEXT or PREV button.



- Note: Depending on the position of the set detection areas, the sensitivity indications of the detection areas may be displayed overlapping each other.
- 11. Move the motion detection area by moving the joystick rightward or leftward.
- 12. Select the sensitivity by moving the joystick upward or downward.

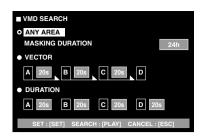
The sensitivity will be applied.

OFF: The motion detector is not activated on the camera channel.

LOW: The sensitivity level is low.

MID: The sensitivity is level is medium. HIGH: The sensitivity level is high.

- 13. To exit the motion detection area setup window, select "EXIT" on the status bar by pressing the NEXT or PREV button. Then, press the CAM (SET) button. The motion detection mode setup window will be displayed on the monitor.



Notes:

- To cancel the motion detection area setup, press the MON (ESC) button. The VMD search list window will be displayed again on the monitor.
- Refer to the unit's operating instructions for details on each detection mode.
- 14. Select a desired detection mode with the joystick, and select a desired parameter by pressing the NEXT or PREV button.
 - **Note:** To cancel the setting and return to the motion detection area setup window, press the MON (ESC) button.
- 15. Press the CAM (SET) button.

The motion detection mode will be determined, the VMD search will be started, and the VMD search list window will be displayed again on the monitor.

Note: To cancel the VMD seach, press the STOP button.

- 16. To select a desired recording event, perform the following.
 - Move the joystick upward or downward.
 - Press the NEXT or PREV button.

Notes:

- To exit the search mode, press the MON (ESC) button.
- To change the monitor display to the thumbnail, press the F1 button. (Refer to the operating instructions of recorder for details on monitor display.)
- You cannot display the DATA COPY window.

17 Press the PLAY button.

The playback of selected recording event will start.

• Marking search

The recording time of the recorded images with a marked point will be displayed in a list or a thumbnail. For playback, you will select the desired recording time to play. (Refer to the recorder's operating instructions for details on marking.)

- 1. Enter the recorder mode. (Refer to the unit's operating instructions.)
- 2. Repeat pressing the INDEX button until the marking list window is displayed on the monitor.

The recorder will enter the searching mode.

TIME&DATE	CAM		
► APR.25.03*12:34:56 AM	01ch		
APR.25.03*12:34:56 AM	01ch		
APR.25.03*12:34:56 AM	01ch		
APR.25.03*12:34:56 AM	01ch		
APR.25.03*12:34:56 AM	01ch		
APR.25.03*12:34:56 AM	01ch		
APR.25.03*12:34:56 AM	01ch		
► APR.25.03*12:34:56 AM	01ch		
APR.25.03*12:34:56 AM→AP	R.25.03*12:34:56 AM TOTAL 12345		
TIME&DATE > SEARCH > REC EVENT > SEARCH > VMD > SEARCH > MARK			

Note:

- To change the monitor display to the thumbnail, press the F1 button. (Refer to the operating instructions of recorder for details on monitor display.)
- You cannot display the DATA COPY window.
- 3. Select the desired marked time by performing either of the following.
 - Move the joystick upward or downward.
 - Press the NEXT or PREV button.
- Press the PLAY button. The playback of recorded image will start from the selected time.
- 5. To exit the search mode, press the MON (ESC) button. The live image will be displayed again on the monitor.

Thumbnail window

The thumbnail window is displayed when you press the F1 button while the recording event list window, VMD search list window, or marking list window is displayed.



Available controls and functions

Joystick: Moves the cursor.

NEXT or PREV button: Moves the cursor.PLAY button: Plays back the selected recording event.F1 button: Changes the monitor display to the list.MON (ESC) button: Exits the search mode.

WJ-HD300 SERIES CONTROL (WV-CU360C/CJ PS-DATA)

Available operations are in common with WJ-HD500 Series. (Refer to the unit's operating instructions.)

COMMUNICATION PROTOCOL (FOR USERS OF WJ-HD300 SERIES)

The following commands have been described in the operating instructions of this unit (matrix switcher). However, while Digital Disk Recorder WJ-HD300 Series are being connected to the unit, these commands will be changed as follows.

Transmission Command Item Response (ASCII) Parameter (ASCII) (ASCII) Stop CMD:RmmSPn ANS:RmmSPn mm=Monitor No. n=0 Stop playback n=1 Stop recording n=V Stop VMD search Index CMD:RmmSCn ANS: RmmSCn mm=Monitor No. n=0: Search playback* (Described as "CMD:RmmSC" n=1: Time & date search playback** in the operating instructions) * Transmission command changes the monitor display as follows. Date-and-time entry form \rightarrow Recording event list \rightarrow VMD search list \rightarrow Marking list \rightarrow Date-and-time entry form...) ** Date-and-time entry form of matrix switcher appears. Multiscreen segment switch- CMD:RmmMLn ANS:RmmML mm=Monitor No. (Described as n=0: 4 segments ing "CMD:RmmML" n=1: 7 segments in the operating instructions) n=2: 9 segments n=3: 10 segments n=4: 13 segments n=5: 16 segments n=skipped: Segment pattern change* * Transmission command changes the multiscreen segment pattern as follows. 4 (segments) \rightarrow 7 \rightarrow 9 \rightarrow 10 \rightarrow 13 \rightarrow 16 \rightarrow 4....

Recorder Control

The following commands have been newly added. These commands are available only while Digital Disk Recorder WJ-HD300 Series are being connected to the unit.

Recorder Control

Item	Transmission Command (ASCII)	Response (ASCII)	Parameter (ASCII)		
Disk selection	CMD:RmmDSn	ANS:RmmDS	mm=Monitor No. n=0 HDD normal/event recording sector n=1 HDD copy sector n=2 Disk connected to COPY 1 n=3 Disk connected to COPY 2		
A - B repeat playback	CMD:RmmRPn	ANS:RmmRP	n=0 A - B repeat playback OFFn=1 Set repeat start point (A point)n=2 Set repeat end point (B point)		
Filtering ON/OFF	CMD:RmmLTn	ANS:RmmLT	mm=Monitor No. n=0 OFF n=1 ON		
MARK	CMD:RmmMP	ANS:RmmMP	mm=Monitor No.		
GO TO LAST	CMD:RmmPM	ANS:RmmPM	mm=Monitor No.		
WJ-HD300 Series OSD dis- play ON (Refer to WJ-SX150A Operating Instructions for WJ- SX150A OSD ON/OFF.)	CMD:RmmDI	ANS:RmmDI	mm=Monitor No. Setup control commands are available (Refer to WJ-SX150A Operating Instructions.)		
DATA COPY window ON	CMD:RmmPD	ANS:RmmPD	mm=Monitor No.		
			Setup control commands are available. (Reference to WJ-SX150A Operating Instructions.)		
Text display ON	CMD:RmmDT	ANS:RmmDT	mm=Monitor No.		
			Setup control commands are available. (Refer to WJ-SX150A Operating Instructions.)		
List/Thumbnail	CMD:RmmTN	ANS:RmmTN	mm=Monitor No.		
			Transmission command displays list or thumbnail alternately.		

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