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Introduction

Thank you for purchasing the AVerMedia® AVerVision530. This document camera displays any documents, negatives, transparencies and 3D objects onto a TV, LCD or DLP projector making demonstrations a snap.

The advanced features of the AVerVision530 make it a versatile and multi-functional product. You can save still images with the built-in memory, CF or SD memory card. When connected to a PC via USB connection, you can also capture and save still images and video clips to your hard drive directly. It also comes with a fully-featured laser-pointer remote control.

Package Contents

Your AVerMedia® AVerVision530 package contains the following:



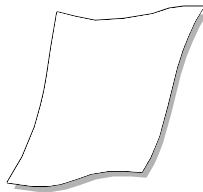
AVerMedia® AVerVision530



User Manual



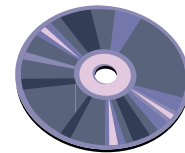
Remote Control
(batteries included)



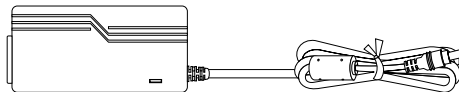
(1) Anti-glare sheet



Dust Cover



Installation CD



Power Adapter



RCA Cable (2X)



S-Video Cable



Power Cord



Computer Extension Cable (VGA Cable)



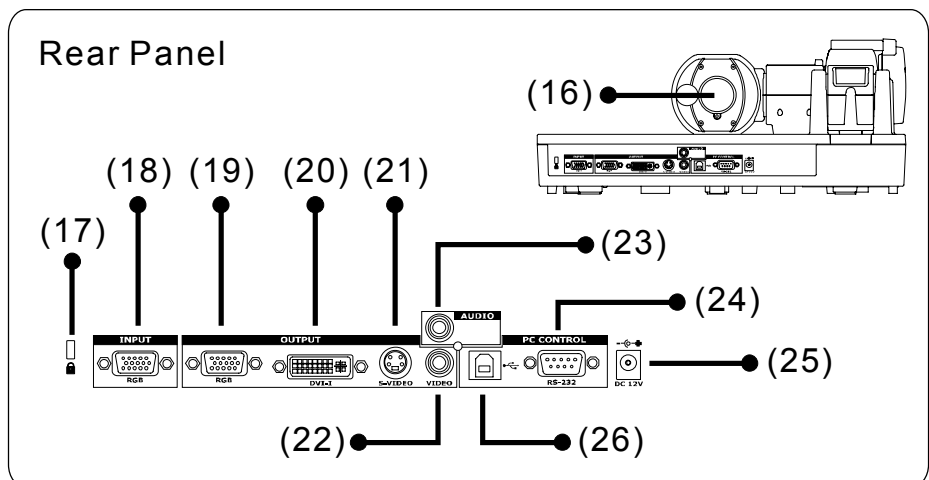
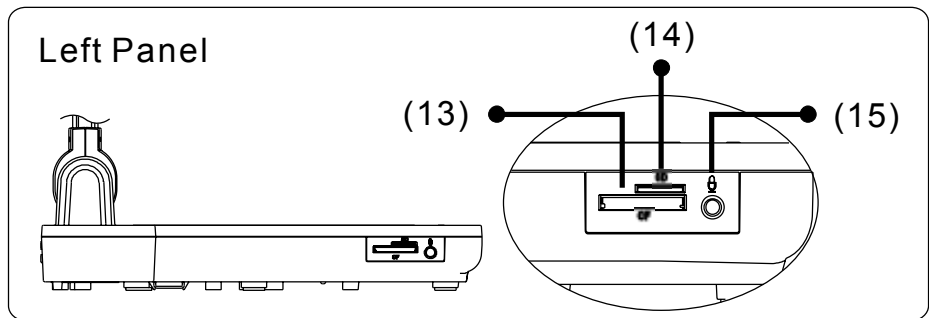
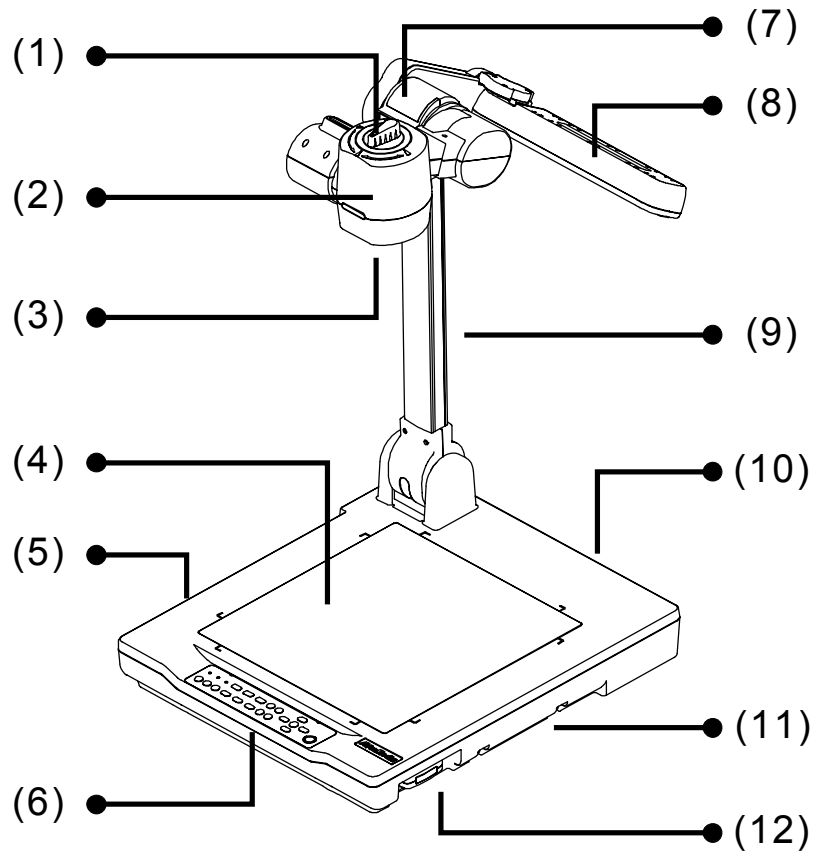
USB Cable

* The power cord varies depending on the standard power outlet of the country where it is sold.

AVerMedia® AVerVision530 Components

The following illustrations identify the key components of your AVerVision530.

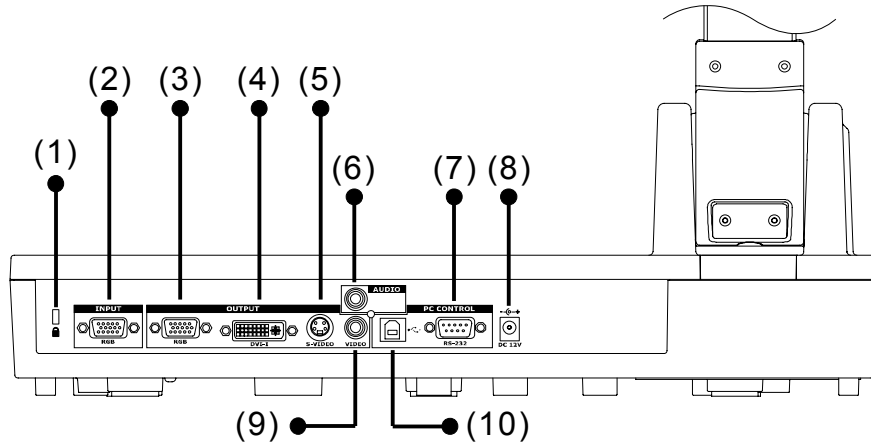
1. Lens rotary dial
2. Camera head
3. Camera lens
4. Base light
5. Left panel
6. Control panel
7. IR sensor
8. Overhead light
9. Arm
10. Rear panel
11. Carrying handle
12. Remote control compartment
13. CF card slot
14. SD card slot
15. MIC port
16. Lens cap
17. Antitheft slot
18. RGB input port
19. RGB output port
20. DVI-I output port
21. S-Video output port
22. Video output port (RCA/Composite)
23. Audio output port
24. RS-232 port
25. DC 12V port
26. USB port



Making the Connections

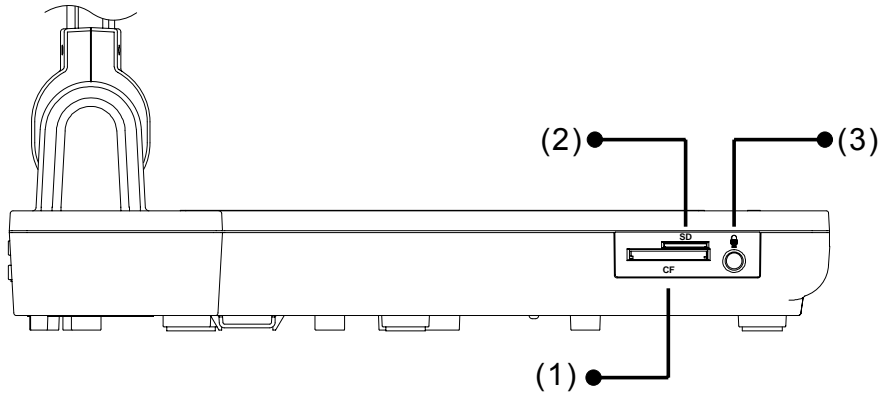
The ports at the back and left panel of the AVerVision530 enable you to connect the unit to a computer, graphics display monitor, LCD/DLP projector, TV or other devices. Illustrated below are the ports located at the back and left panel of the AVerVision530 with their corresponding labels.

Back Panel



Name	Function
(1) Antitheft slot	: Attach a Kensington compatible security lock or antitheft device.
(2) RGB input port	: Input RGB signal from a computer or other sources and pass it through to the RGB and DVI-I output port only. Connect this port to the VGA output port of the computer.
(3) RGB output port	: Output RGB signal from camera, RGB input port, or the captured images from the memory source and preview it on a VGA/Mac monitor or LCD/DLP projector.
(4) DVI-I output port	Output RGB signal from camera, RGB input port, or the captured images from the memory source and preview it on a VGA/Mac monitor or LCD/DLP projector.
(5) S-Video output port	: Output the signal from the camera or the captured images from the memory source on TV or AV equipment.
(6) Audio output port	: Output the microphone audio signal to an amplifier, on TV or AV equipment audio input port.
(7) RS-232 port	: Control AVerVision530 using a PC.
(8) DC 12V port	: Connect the power cord into this port.
(9) Video output port (RCA/Composite)	: Output the signal from the camera or the captured images from the memory source on TV or AV equipment.
(10) USB port	: Use AVerVision530 as a PC Camera or Mass storage device allowing you to transfer the captured images to and from the AVerVision530 memory source and PC.

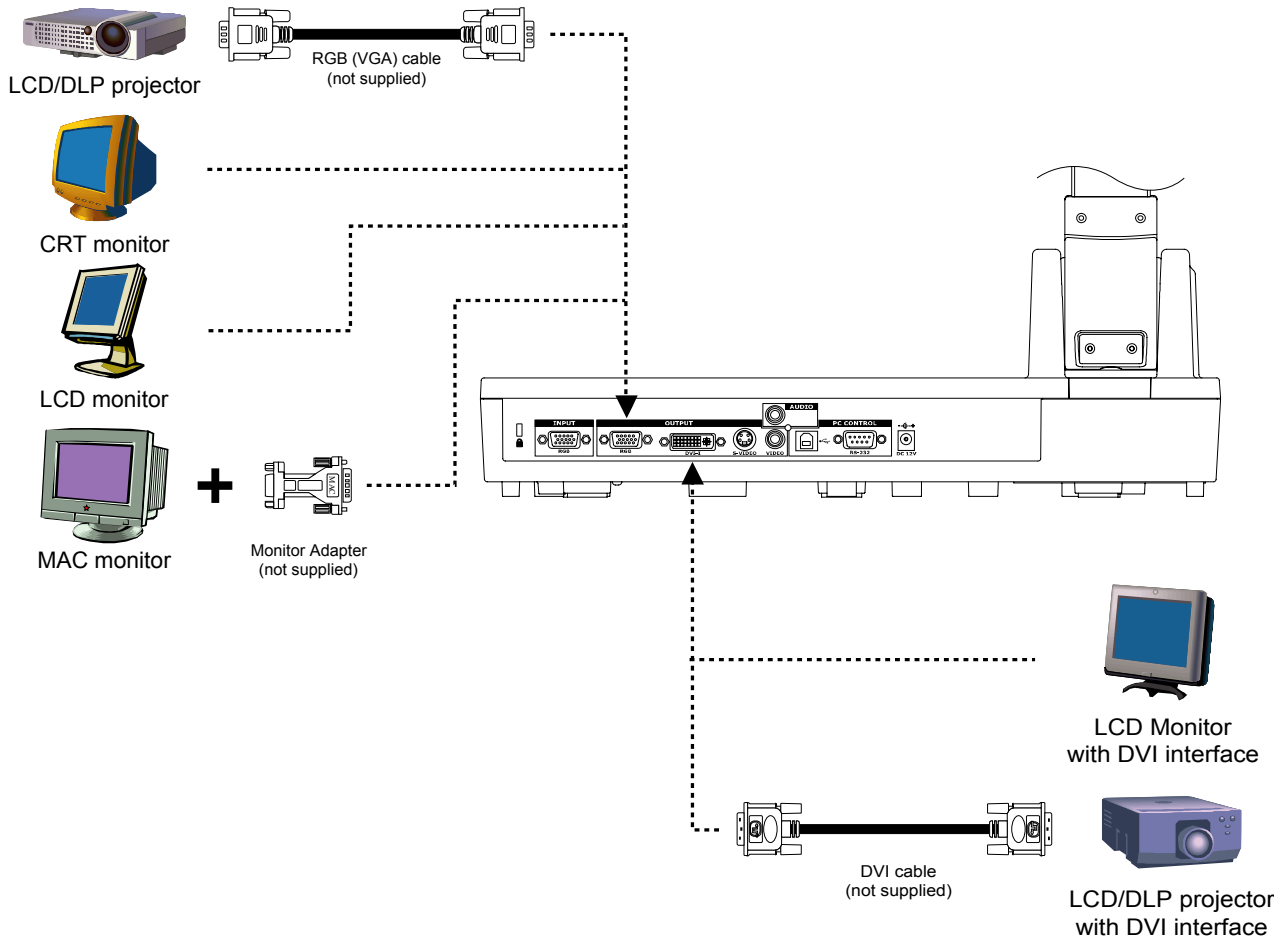
Left Panel



Name	Function
(1) CF card slot	: Insert the CF card with the label facing up. This supports 16~512MB card capacity.
(2) SD card slot	: Insert the SD card with the label facing up. This supports 16~512MB card capacity.
(3) MIC port	: Connect a $\Phi 6.3\text{mm}$ microphone.

Connecting a VGA, Mac Display Monitor or LCD/DLP Projector

Locate the RGB (VGA) or DVI-I input port of the display device. If you are not sure, please refer to the user manual of the device.

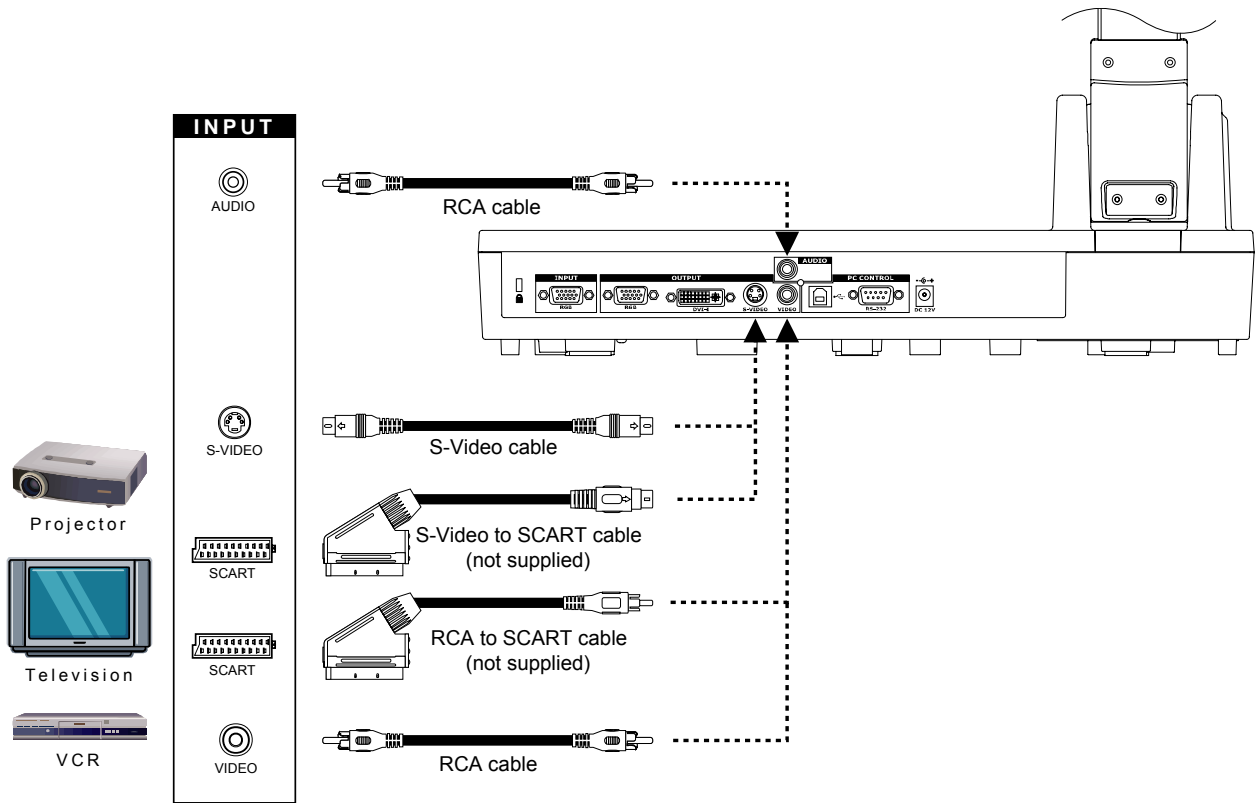


Connecting a TV

Locate the audio (red), video, s-video or SCART RGB input port of the TV or AV equipment (i.e., VCR) to record your presentation on a videotape. If you are not sure, please refer to the user manual of the TV or AV equipment.

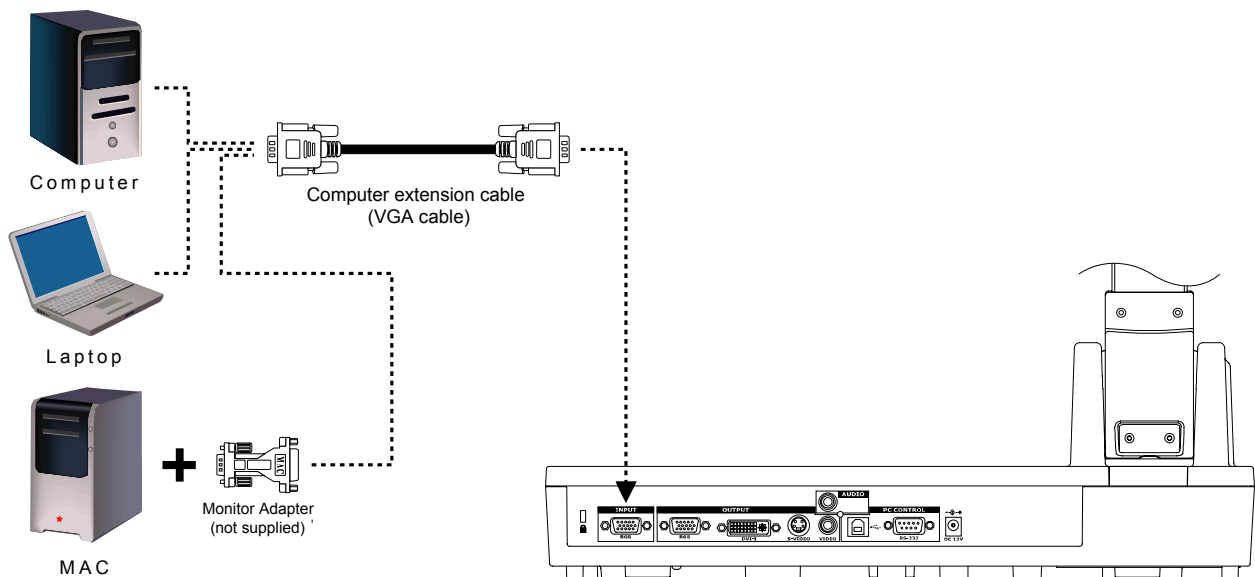


: For better video quality, we strongly suggest using s-video connection.



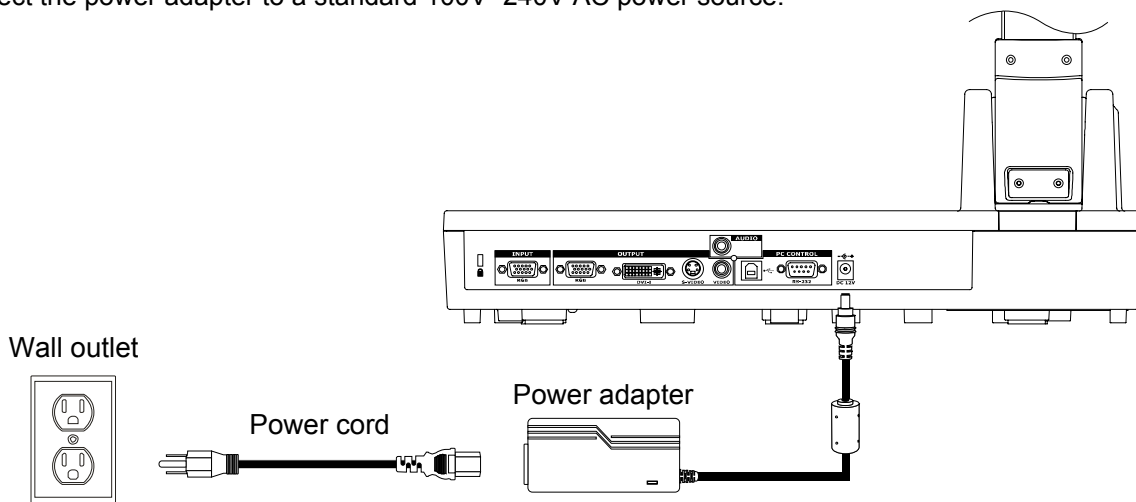
Connecting a Computer

Locate the RGB video output port of the computer or laptop to display your PC presentation on screen. AVerVision530 supports active pass-thru connectivity, wherein the video signal from the RGB input port is continuously streamed to RGB and DVI-I output port and displayed on screen even when the AVerVision530 is turned off.



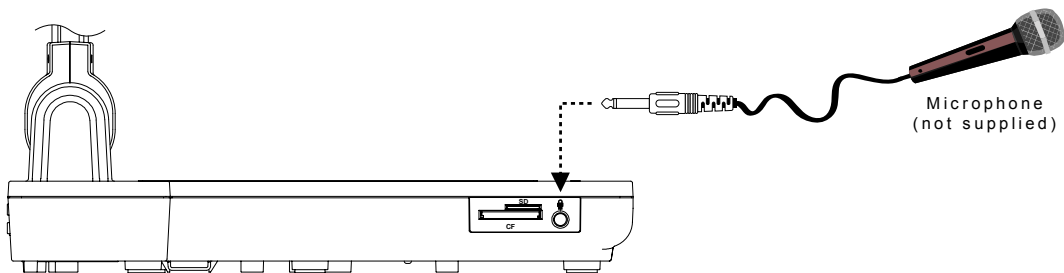
Connecting the Power Adapter

Connect the power adapter to a standard 100V~240V AC power source.



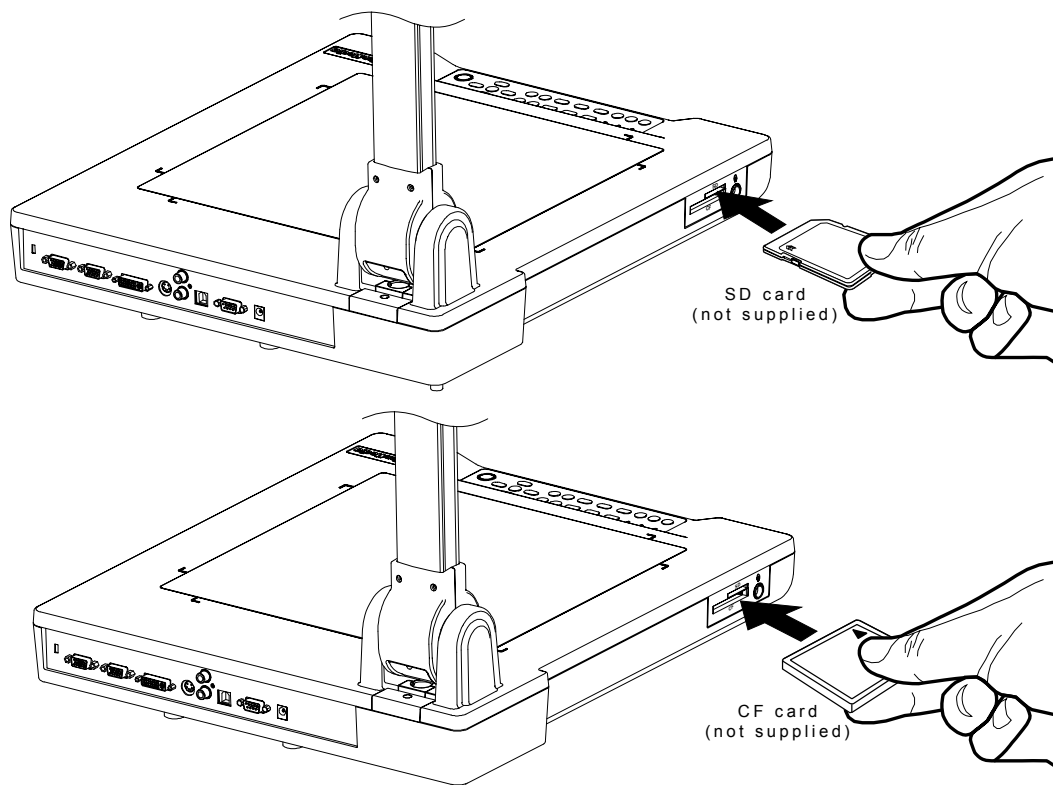
Connecting a Microphone

Plug a ϕ 6.3mm jack Microphone.



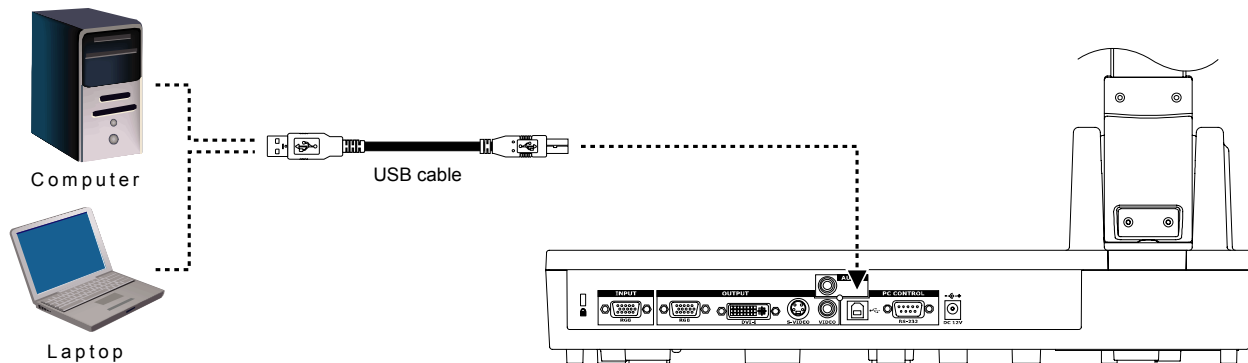
Inserting and Ejecting a Memory Card

Insert the card with the label facing up until it reaches the end. To remove, pull the card out.



Connecting a Computer via USB Connection

Locate the USB port of the computer or laptop. This enables you to use AVerVision530 as a PC Camera and Mass Storage to transfer the captured images to and from the memory source and computer. Also see "Using AVerVision530 as PC Camera" and "Using AVerVision530 as a Mass Storage".

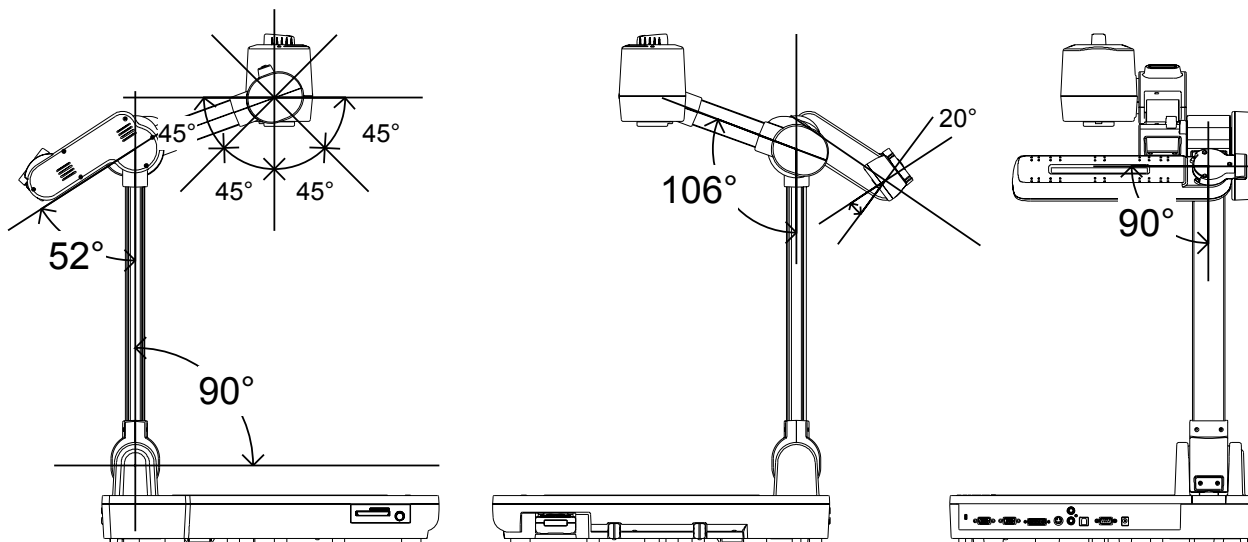


Setting Up AVerVision530

This section tells how to setup and adjust the AVerVision530 to meet your needs.

Arms and Overhead Light

Unfold the arms and overhead light at the angles illustrated below.



Base Light

Use to view x-ray film, transparency and negatives.



DO NOT place an object weighing more than 8kg on top of the base light.



light weight object



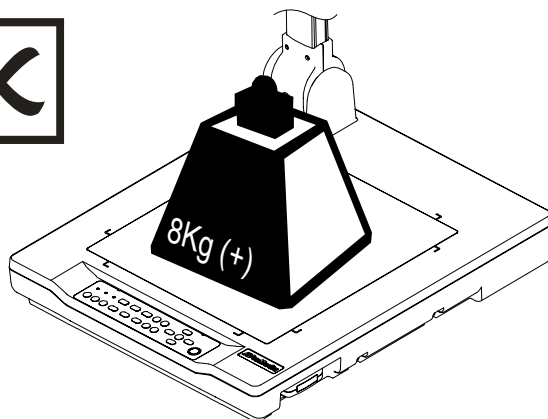
photos






x-ray film

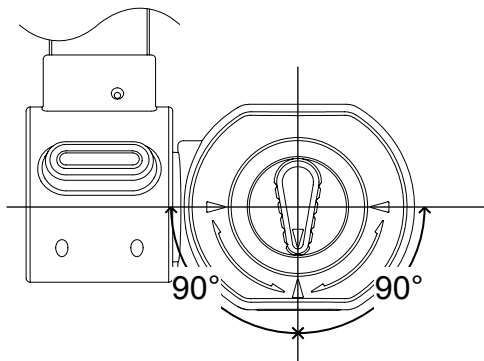


document



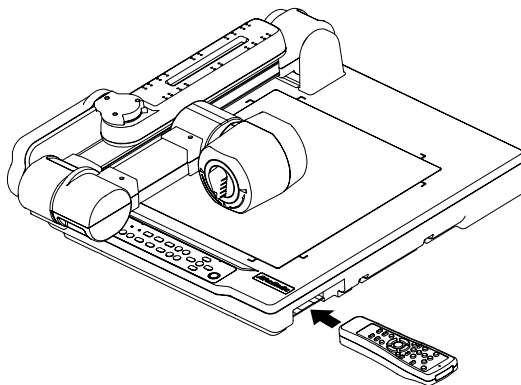
Lens Rotary Dial

Turn the lens rotary dial to your desired direction. To rotate the image by 180°, use the remote control and press  or press  on the control panel and select EFFECT > REVERSE and press .



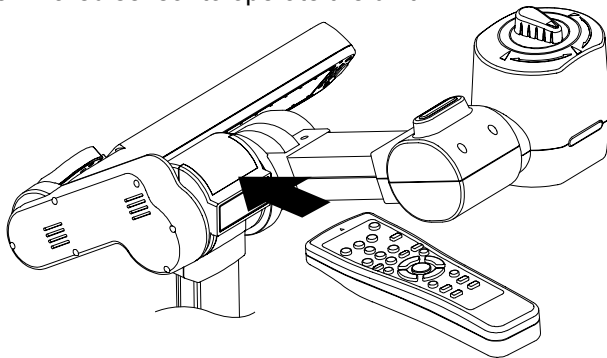
Remote control compartment

Store the remote control in the remote control compartment when not in use.



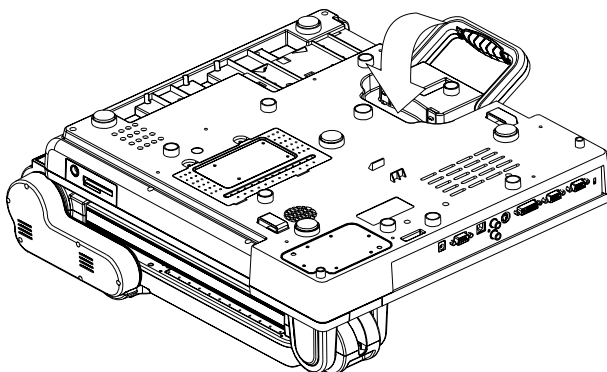
Infrared Sensor

Aim the remote control at the infrared sensor to operate the unit.



Carrying handle

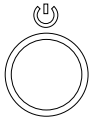
Unfold the handle to carry the AVerVision530 around and fold to store the handle.



LED Power Button

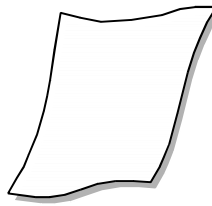
The LED power button on the control panel of AVerVision530 indicates the status of the unit.

Color	Description
Blue	: The video signal is outputted to RGB/DVI-I output port.
Green	: The video signal is outputted to S-Video/Video output port.
Red	: The unit is in standby mode.
Blink	: The unit is initializing.



Anti-glare

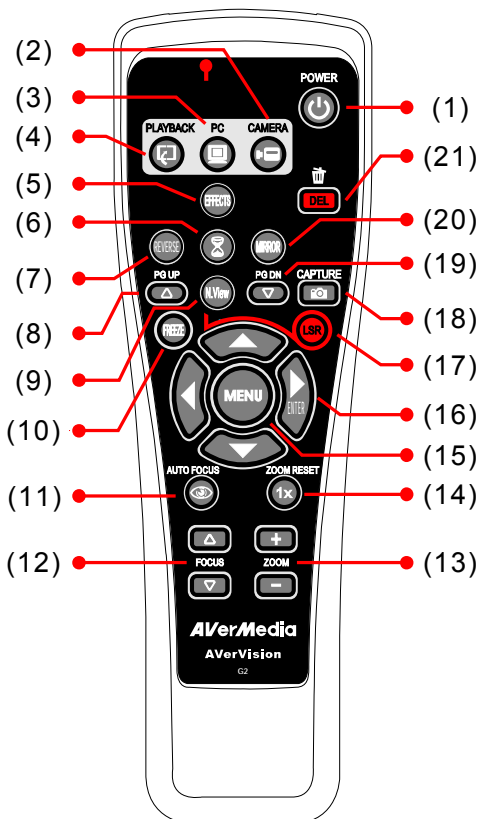
Place the anti-glare sheet on top of shiny documents to reduce light reflection. The anti-glare sheet is a special coated film that helps eliminate the light reflection when you are displaying a very shiny object or glossy surface such as magazines, etc.



Using the Infrared Remote Control

Use the AVerVision530 Remote Control to enhance your presentation, switch between (3) three presentation modes and access additional features. To use the remote control, first insert the batteries (2 size "AAA" batteries are provided) into the battery compartment at the back of the remote. Use the figure and descriptions below to help you use the remote control.

Name	Button	Function
(1) POWER		Turn the unit on/off.
(2) CAMERA MODE		Switch to Camera mode and display the image from the AVerVision530's built-in CCD camera.
(3) PC MODE		Switch to PC mode and display the video signal from the RGB input port.
(4) PLAYBACK MODE		Switch to Playback mode and toggle to display 16-thumbnail images or the selected image from the memory source.
(5) EFFECTS		Convert and display the video in BW, Negative or Color. (camera mode only)
(6) TIMER		Display, start and hide the on-screen display timer. You can toggle to display or hide the remaining time when the timer countdown has started. (See Timer Function for more details)
(7) REVERSE		Rotate the image by 180°. (camera mode only)



(8 & 19)
PAGE
UP/DOWN

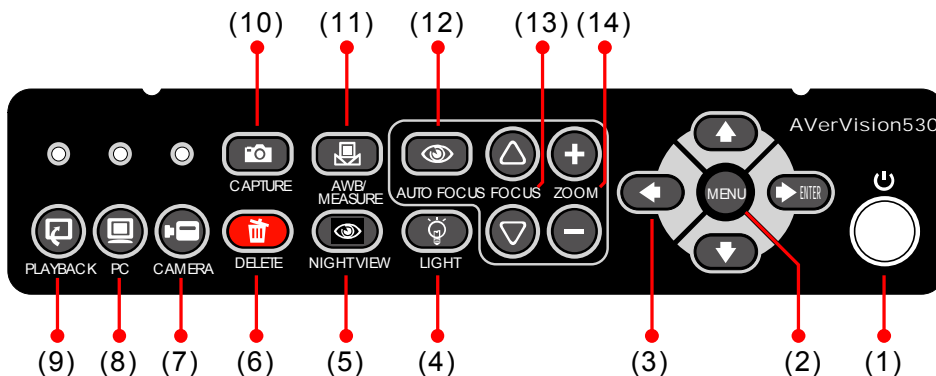


Display the previous and next set of 16-thumbnail images.







Name	Button	Function
(9) NIGHT VIEW		Turn on/off Night View. Use Night View when you are presenting in a low-light condition. The captured image however, appears in slow motion.
(10) FREEZE		Toggle to pause or resume the camera.
(11) AUTO FOCUS		Adjust the focus automatically.
(12) FOCUS Δ / ∇		Adjust the focus manually.
(13) ZOOM +/-		<ul style="list-style-type: none"> - Zoom in and zoom out the picture digitally in Playback mode. - Zoom in and zoom out the image optically and digitally in Camera mode. When it reaches the maximum optical zoom level of about 12 times, you can still continue to digitally zoom in the image up to 800%. <p> : The image may appear blurry when optically zooming the image in and out. After achieving the desired magnification, the camera automatically adjusts the focus and the image will become clear again.</p>
(14) ZOOM RESET		Return to normal view (1x).
(15) MENU		Call up and exit the OSD main and sub-menu.
(16) \blacktriangle \blacktriangledown \blacktriangleleft \blacktriangleright ENTER)		<ul style="list-style-type: none"> - Use \blacktriangle, \blacktriangledown, \blacktriangleleft and \blacktriangleright ENTER) to make a selection and adjustment. And use \blacktriangleright ENTER) to enter sub-menu. (See Menu Functions, for more details) - Use \blacktriangle, \blacktriangledown, \blacktriangleleft and \blacktriangleright ENTER) to make a selection in 16-thumbnail images and press to view the selected image.
(17) LASER		Turn on the laser pointer. : DO NOT look directly at the laser pointer and avoid aiming the laser at any surface that may reflect the beam (i.e., a mirror or mirrored surface).
(18) CAPTURE		Photograph an image. The captured image is automatically stored in the memory source at 1024 x 768 resolution.
(20) MIRROR		Flip the image in Camera mode.
(21) DELETE		Remove the selected picture permanently in Playback mode.

Touch Button Control Panel

The touch button control panel located on the top side of AVerVision530 provides quick access to commonly used functions.



Name	Button	Function
(1) POWER		Turn on or switch to output the video signal to RGB/DV-I or S-Video/Video port. The unit switches to standby mode when this button is pressed for 2 sec. (See LED Power Button)
(2) MENU		Call up and exit the OSD main and sub-menu.
(3) ↑↓←→(⇨ ENTER)		<ul style="list-style-type: none"> - Use ↑, ↓, ← and (⇨ ENTER) to make a selection and adjustment. And use (⇨ ENTER) to enter sub-menu. (See Menu Functions for more details) - Use ↑, ↓, ← and (⇨ ENTER) to make a selection in 16-thumbnail images and press to view the selected image..
(4) LIGHT		Switch to turn the overhead light, or base light on or off.
(5) NIGHT VIEW		Turn on/off Night View. Use Night View when you are presenting in a low-light condition. In Night View, the image of the object appears as though under the normal lighting conditions. The captured image however, appears in slow motion.
(6) DELETE		Remove the selected picture permanently in Playback mode.
(7) CAMERA MODE		Switch to Camera mode and display the image from the AVerVision530's built-in CCD camera.
(8) PC MODE		Switch to PC mode and display the video signal from the RGB input port.
(9) PLAYBACK MODE		Switch to Playback mode and toggle to display 16-thumbnail images or the selected image from the memory source. : To switch to other memory source, AVerVision530 must be in camera mode then press MENU > ADVANCED > MEMORY >TYPE > select the source and press (▶ENTER) > press MENU to exit.
(10) CAPTURE		Photograph an image. The captured image is automatically stored in the memory source at 1024 x 768 resolution.
(11) AWB/ MEASURE		Lock/unlock Auto White Balance (AWB). The camera constantly looks at the overall color of the image and calculates the best-fit white balance. Each time when the layout of the captured image changes the color shifts. To lock the reference point which represent the white, place a piece of white paper till it fills the screen and wait till the color temperature is set then press AWB/MEASURE button.

Name	Button	Function
(12) AUTO FOCUS		Adjust the focus automatically.
(13) FOCUS ▲ / ▼	 FOCUS 	Adjust the focus manually.
(14) ZOOM +/-	 ZOOM 	<ul style="list-style-type: none"> - Zoom in and zoom out the picture digitally in Playback mode. - Zoom in and zoom out the image optically and digitally in Camera mode. When it reaches the maximum optical zoom level of about 12 times, you can still continue to digitally zoom in the image up to 800%. <p> : The image may appear blurry when optically zooming the image in and out. After achieving the desired magnification the camera automatically adjusts the focus and the image will become clear again.</p>




Timer Function

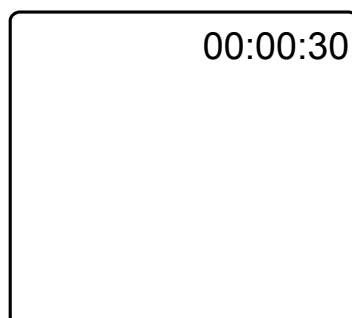
The AVerVision530 enables you to control the pace of your presentation by displaying the remaining time on the countdown screen. This merely serves as a reminder. When the time is up, the timer blinks at the top right corner of the screen and the presentation screen will not be affected in any way.

To Set the Timer:

1. Press **MENU** to view on screen function selections.
2. Press **▲** or **▼** buttons to select **TIMER**.
3. Press **▶** or **◀** buttons to set a time value. You can set the time value up to 120 minutes.
4. After setting the time value, press the **MENU** button to go back to the main menu and exit.

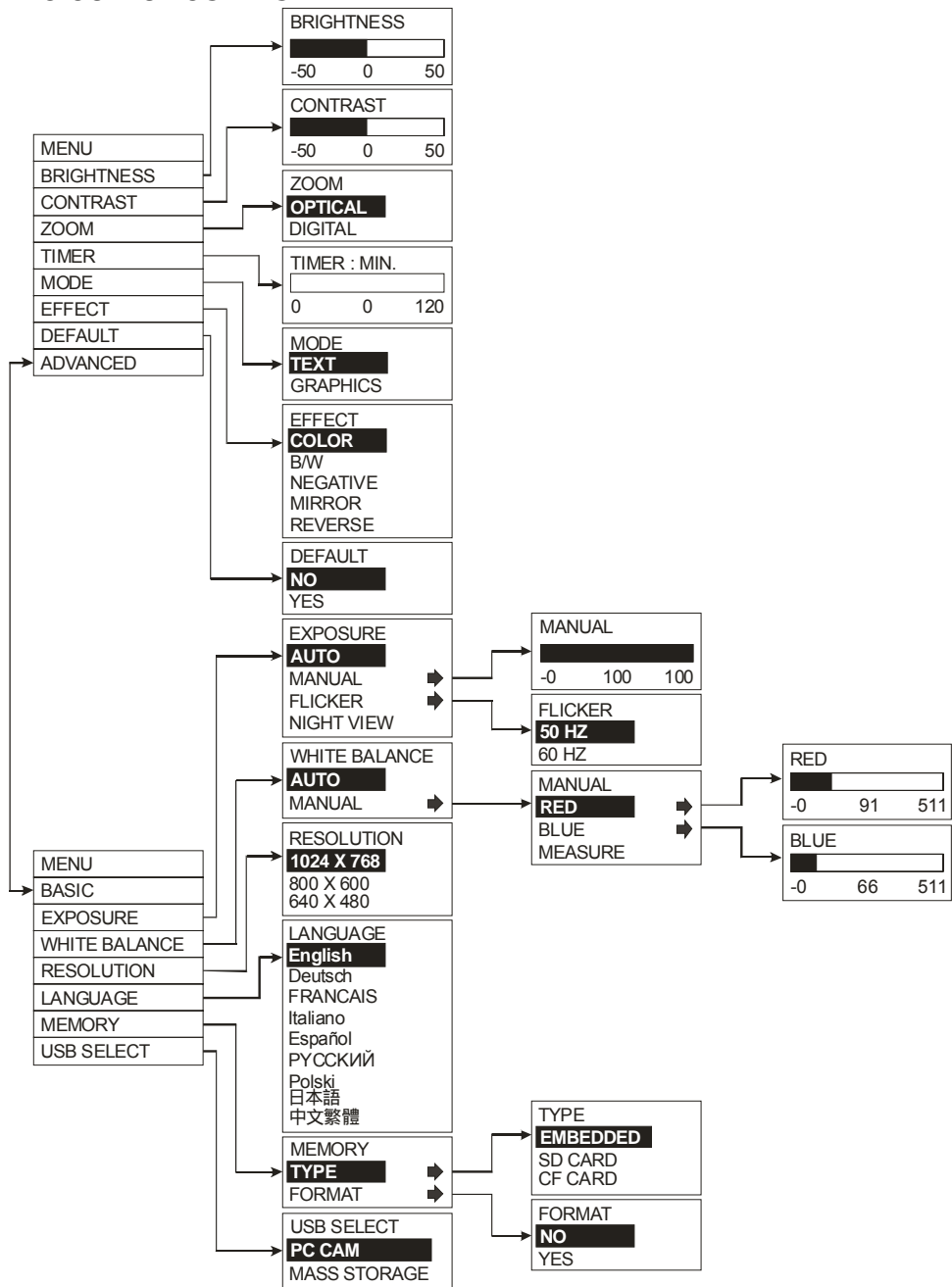
To View and Start the Timer Countdown:

1. To display the previously set time value, press  once. The AVerVision530 automatically converts your settings to "hours:minutes:seconds" format.
2. To start the countdown, press  again.
3. Once the countdown timer starts, you can toggle the countdown screen to display and hide it by pressing .

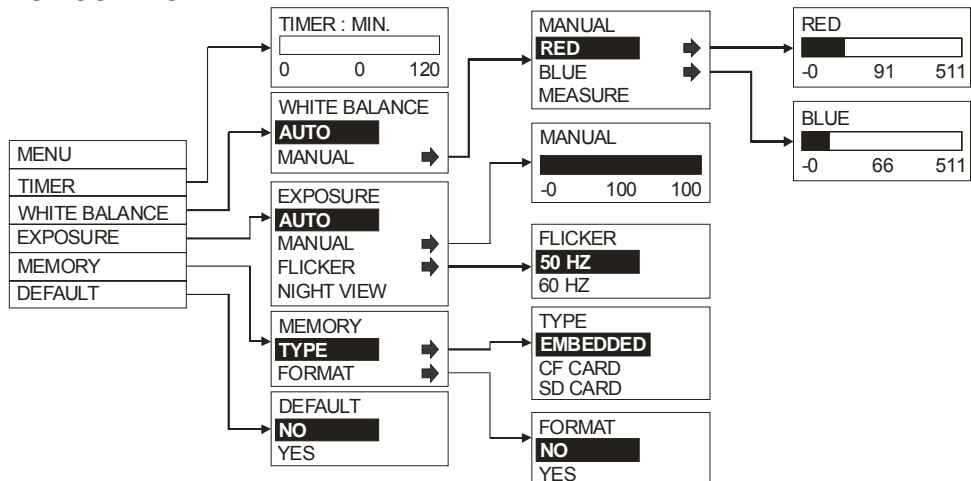


OSD Navigation Tree

RGB VIDEO OUTPUT OSD DISPLAY

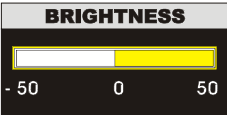
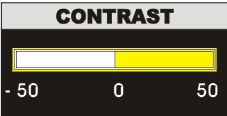

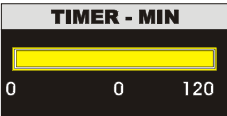
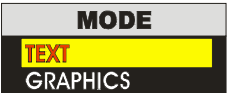


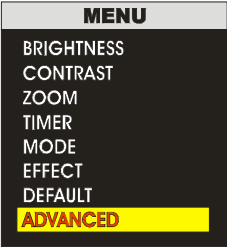
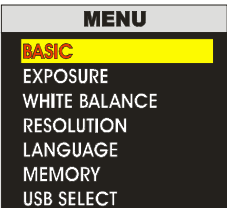


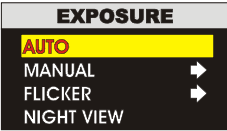
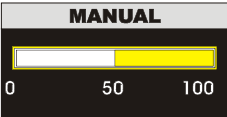


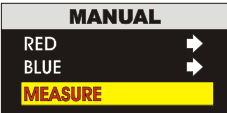



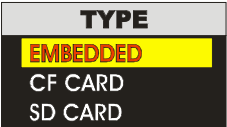


TV OUTPUT OSD DISPLAY



Menu Functions

The AVerVision530 provides MENU functions enabling you to fine-tune your screen display, set the timer, select OSD language and more. Press the **MENU** button to call up and exit from the main menu or sub-menu display. Then use **▲** or **▼** buttons to select the items in the menu list. Use (**▶**ENTER) button to enter sub-menu. To adjust the setting, press **◀** or **▶** buttons.

Main Menu	Sub-Menu OSD	Description
BRIGHTNESS		Press ▶ or ◀ buttons to increase or decrease the brightness level and improve the visibility of the image. You can adjust the brightness level up to ± 50 .
CONTRAST		Press ▶ or ◀ buttons to emphasize or reduce the difference between light and dark conditions. You can adjust the contrast level up to ± 50 .
ZOOM		Use ▲ or ▼ buttons to select between Optical and Digital. Optical zoom uses the physical lens inside the camera to achieve the desired magnification, wherein the quality of the image is not affected. When using digital zoom, it interpolates the pixels to enlarge the image, which makes the image a bit blurry.
TIMER		Press ▶ or ◀ buttons to set a time value. You can set the time value up to 120 minutes. (See Timer Function for more details)
MODE		Use ▲ or ▼ buttons to select between text, and graphics image enhancement mode. In text mode, the AVerVision530 corrects the intensity of the adjacent pixel making it more uniform producing sharper and clearer images. While in graphics mode, the AVerVision530 adjusts the gradient of the adjacent pixel making it appears to have a smooth image.
EFFECT		Use ▲ or ▼ buttons to display the image captured by the camera into positive (true color), monochrome (black and white), negative, mirrored image, or rotated image by 180°.
DEFAULT		Use ▲ or ▼ buttons to select YES to restore to original factory default setting or NO to keep the current setting.
ADVANCED		Press ▶ to go to the Advanced menu.
BASIC		Press ▶ to go to Basic menu.

Main Menu	Sub-Menu OSD	Description
EXPOSURE		Use ▲ or ▼ buttons to select between Auto and Manual. AVerVision530 allows you to automatically or manually adjust the camera to determine how much light is required. If you choose to manually adjust the exposure, press ► or ◀ buttons to adjust the exposure level.
		If you are presenting in a low-light condition, enable Night View mode from the remote control, then AVerVision530 automatically adjusts the exposure to compensate the adverse condition but the captured image will appear to be in slow motion.
		Use ▲ or ▼ buttons to select between 50Hz or 60Hz. Some display devices cannot handle high refresh rates. The image will flicker a couple of times as the output is switched to another refresh rate.
WHITE BALANCE		Use ▲ or ▼ buttons to select between Auto and Manual. AVerVision530 enables you to automatically or manually adjust the camera to suit the lighting condition or color temperature. If you select to manually adjust the white balance, you can adjust the Red, Blue or use the system to measure the color temperature.
		To obtain a more accurate color balance, place a sheet of white paper under the camera. Select MEASURE then press (►ENTER) button to calibrate the color temperature. Wait until a "MEASURE OK" appears at the lower left corner of the presentation screen.
RESOLUTION		Use ▲ or ▼ buttons to choose from 1024x768, 800x600 or 640x480 display resolution then press (►ENTER) to make the selection.
LANGUAGE		Use ▲ or ▼ buttons to select from nine different languages then press (►ENTER) to make the selection.
MEMORY		Use ▲ or ▼ buttons to select the memory source on where to store or view the image. To store the image in the built-in internal memory, select EMBEDDED.
		
		Use ▲ or ▼ to select NO to exit or YES to format and delete all the data in the memory source then press (►ENTER).
USB SELECT		Use ▲ or ▼ buttons to select the USB function between PC Cam and Mass Storage. When AVerVision530 is connected to PC via USB connection, AVerVision530 can function as PC Camera and Mass Storage device to transfer the captured images to and from the memory source and computer. With the bundled PC Camera application, you may use it to record your presentation in AVI format or capture still image directly to your PC's hard disk.

Using AVerVision530 as a PC Camera

AVerVision530 can be used as a PC Camera. With the bundled PC Camera application, you can record video or capture still image and operate AVerVision530.



: You **MUST** read and follow the instructions below **BEFORE** connecting the USB cable.

Step 1 Check if the PC meets the minimum system requirements

- Pentium®-class processor
- Windows2000 Professional with Service Pack 2, Windows XP Professional or Home, or Windows XP Tablet PC
- 32 MB of RAM (64 MB recommended)
- 60 MB of available hard-disk space

Step 2 Install the PC Camera Application and Drivers

To install PC Camera Application and Drivers:

1. Place Installation CD into the CD-ROM drive. When the installation main screen appears, click **PC Camera Applications** and then follow the on screen instructions.



2. Click **Finish** to complete installation. When the RegSvr32 dialog box appears, click **OK**. You have now installed the PC Camera Application.
For Windows2000, in order for the new software to take effect, click **YES** to restart PC.
3. You may now connect the USB cable.
4. When the system has detected the new hardware, you are now going to install the drivers. Just follow the on screen instructions.
5. When the Microsoft Digital Signature warning message appears, click **YES** (Windows2000) or **Continue Anyway** (WindowsXP) to continue the installation.
6. Click **Finish**. (WindowsXP)

Step 3 Using the PC Camera Application

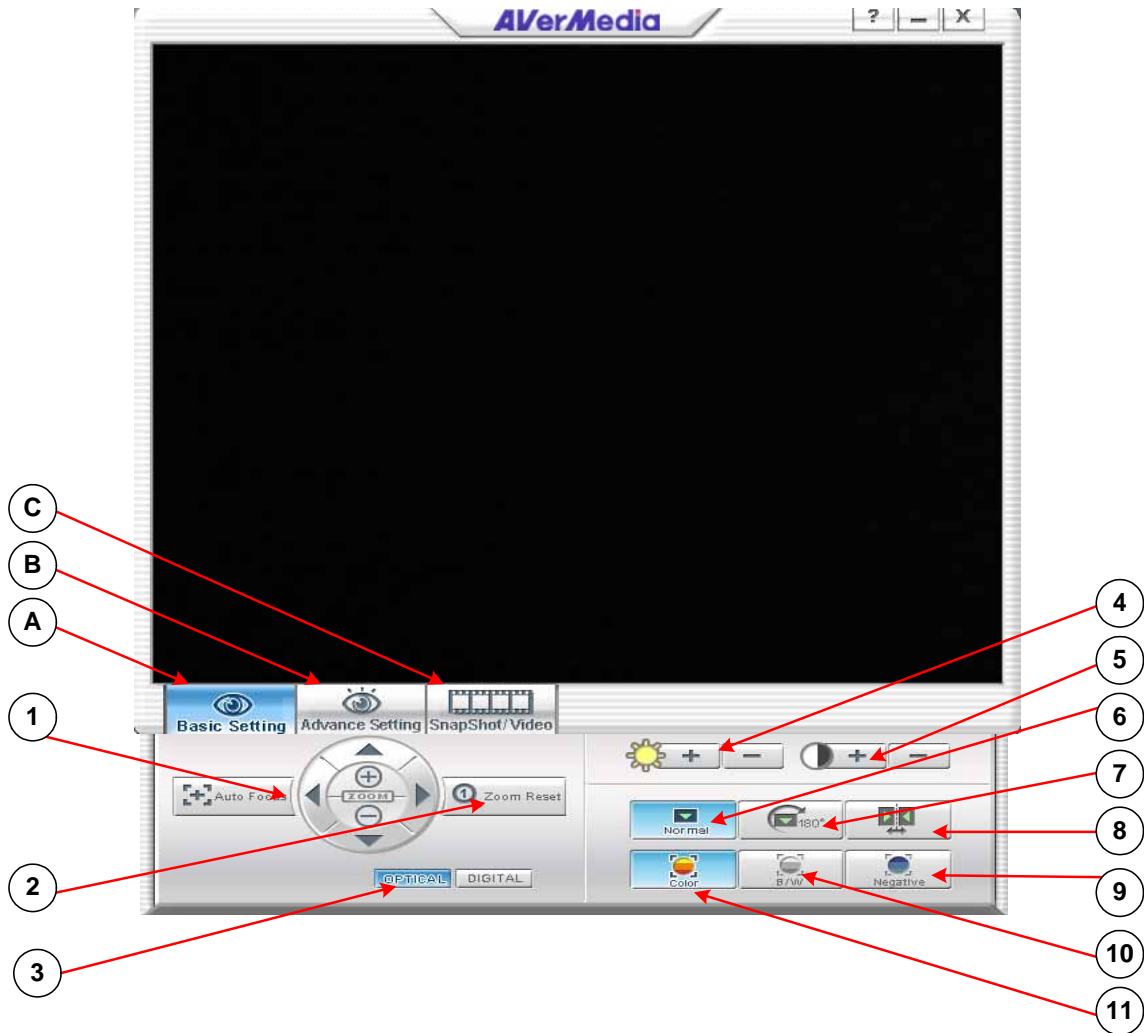
To run the application, click **VisionAP** icon on your PC desktop or click **Start > Programs > AVerVision > VisionAP**.



VisionAP User Interface

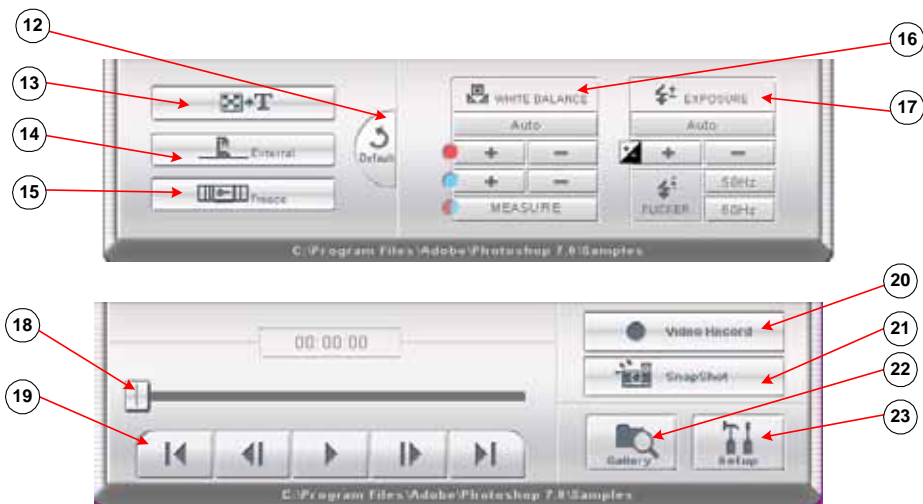


: Click (Ctrl + F) to view in full screen.



A. Basic Setting

Function	Description
1	Auto Focus
2	Return to normal view (1X)
3	Optical and Digital zoom selection
4	Brightness adjustment
5	Contrast adjustment
6	Normal view without image rotation or mirror
7	Rotate the image by 180°.
8	Mirror image
9	Convert the image to Negative
10	Convert the image to Black and White
11	View in original true color



B. Advanced Setting

Function	Description
12	Restore to original factory setting
13	Select between text and graphic image enhancement mode
14	Display the image from AVerVision530 camera or from the PC IN port
15	Freeze image
16	Adjust White Balance
17	Adjust Exposure

C. SnapShot/Video

Function	Description
18	Control the video display by moving the progressive bar
19	Play and control the video display
20	Record the video and save it into the PC
21	Capture a single picture and save it into the PC
22	Locate the saved picture or video clips
23	Setup for the picture snapshot or video recording.

Using AVerVision530 as a Mass Storage

This enables you to transfer the captured image to and from the memory source and PC.



: You **MUST** read and follow the instructions below **BEFORE** connecting the USB cable.

Every time when using the AVerVision530 as Mass Storage, you **MUST** do the following:

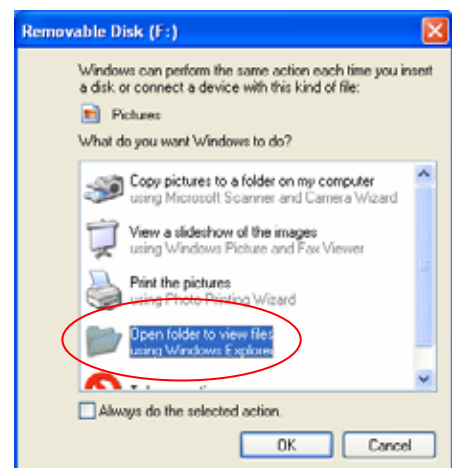
1. Select the memory source.

To select the memory source, press **MENU** > select **ADVANCED** and press (►ENTER) > select **MEMORY** and press (►ENTER) > select **TYPE** and press (►ENTER) > select the source and press (►ENTER) > press **MENU** to exit.

2. **MUST** set the USB SELECT as Mass Storage before connecting the USB cable.

To set the USB SELECT as Mass Storage, press **MENU** > select **ADVANCED** and press (►ENTER) > select **USB SELECT** and press (►ENTER) > select **MASS STORAGE** and press (►ENTER).

3. When "STORAGE" appears at the lower left corner of the presentation screen, you may now connect the USB cable. (See "Connecting to Computer thru USB Connection" for illustration)
4. Upon connecting the USB cable, the system automatically detects the new removable disk.
5. In the Removable Disk dialog box, select **Open folder to view files** and then click **OK**. You may now transfer the file to and from your PC hard disk.



Technical Specifications

Image

Sensor	1/3" progress scan CCD
Effective Pixels	790K; 1024 (H) x 768 (V)
Frame Rate	20 fps
White Balance	Auto/Manual
Exposure	Auto/Manual/Flicker/Night View
Image mode	Text/Graphics/Microscope
Effect	Color/B/W/Negative/Reverse/Mirror
Analog RGB output	XGA: 75 Hz, SVGA: 60 Hz, VGA: 60 Hz
H Sync. Signal	60K/ 47 KHz, TTL level, Positive Polarity
V Sync. Signal	75Hz, TTL level, Positive Polarity
Image Signal Level	0.77 Vpp
S-Video, Composite Video Output	NTSC/ PAL
Image Capture	Embedded/CF/SD Memory Card

Optics

Lens	F1.8-2.7; Zoom/AF Lens
Shooting Area	400mm x 300mm (max.)
Zooming	Optical:12x; Digital: 8x ; Total: 96x
Power Source	100-220V ~ 1.8A, 50-60 Hz
Consumption	15 Watts (light off); 30 Watts (light on)

Lighting

Overhead light	Anti-Glare CCFL light
Base light	Built-in 300mm x 300mm

Input

VGA Input	15-Pins D-sub (VGA)
DC 12V	Power Jack

Output

RGB (VGA)	15pin D-sub (VGA)
DVI-I	DVI-I Type (Support both DVI/VGA signal)
S-Video	Mini-DIN Jack
Audio	RCA Jack
Video	RCA Jack
USB	USB1.1

Dimension

Fully Unfolded	480mm x 430mm x 680mm
Folded	480mm x 430mm x 130mm
Weight	10 kg (about 22 lb)

Card(s) Supported

Secure Digital (SD)	16~512MB
Compact Flash (CF)	16~512MB

Troubleshooting

This section provides useful tips describing how to solve common problems while using the AVerVision530.

There is no picture on the presentation screen.

1. Check all the connectors again as illustrated in this manual.
2. Check the remote control's on/off switch on your display output device.
3. Verify the setting of the display output device.
4. If you are using a notebook or computer, you may have to switch the source to VGA.

There is no computer signal on the presentation screen.

When you turn on the computer, it will auto-detect the type of monitor you have. During auto-detection, there won't be any display on your presentation screen. To avoid this problem, connect your computer and all the necessary cables to the AVerVision530 first before you power on your computer.

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AVerVision110	: 2 Year Limited Parts and Labor
AVerVision 100 series, AVerVision280 & AVerVision300	: 3 Year Limited Parts and Labor
AVerVision330, All other AVerVision 300x series & 500 series	: 5 Year Limited Parts and Labor
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