

# JVC

## LT-Z46ZF7

WIDE LCD PANEL TV INSTRUCTIONS

# JVC



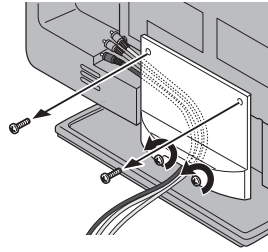
**DynaPiX HD**  
Powered by D.L.S.

**HDMI**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

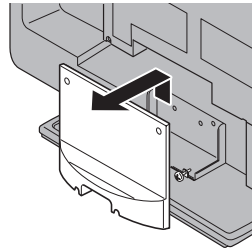
**MaxxBass®**



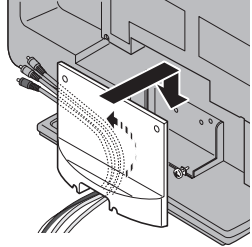
**1**



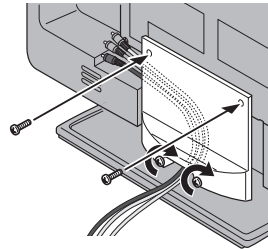
**2**



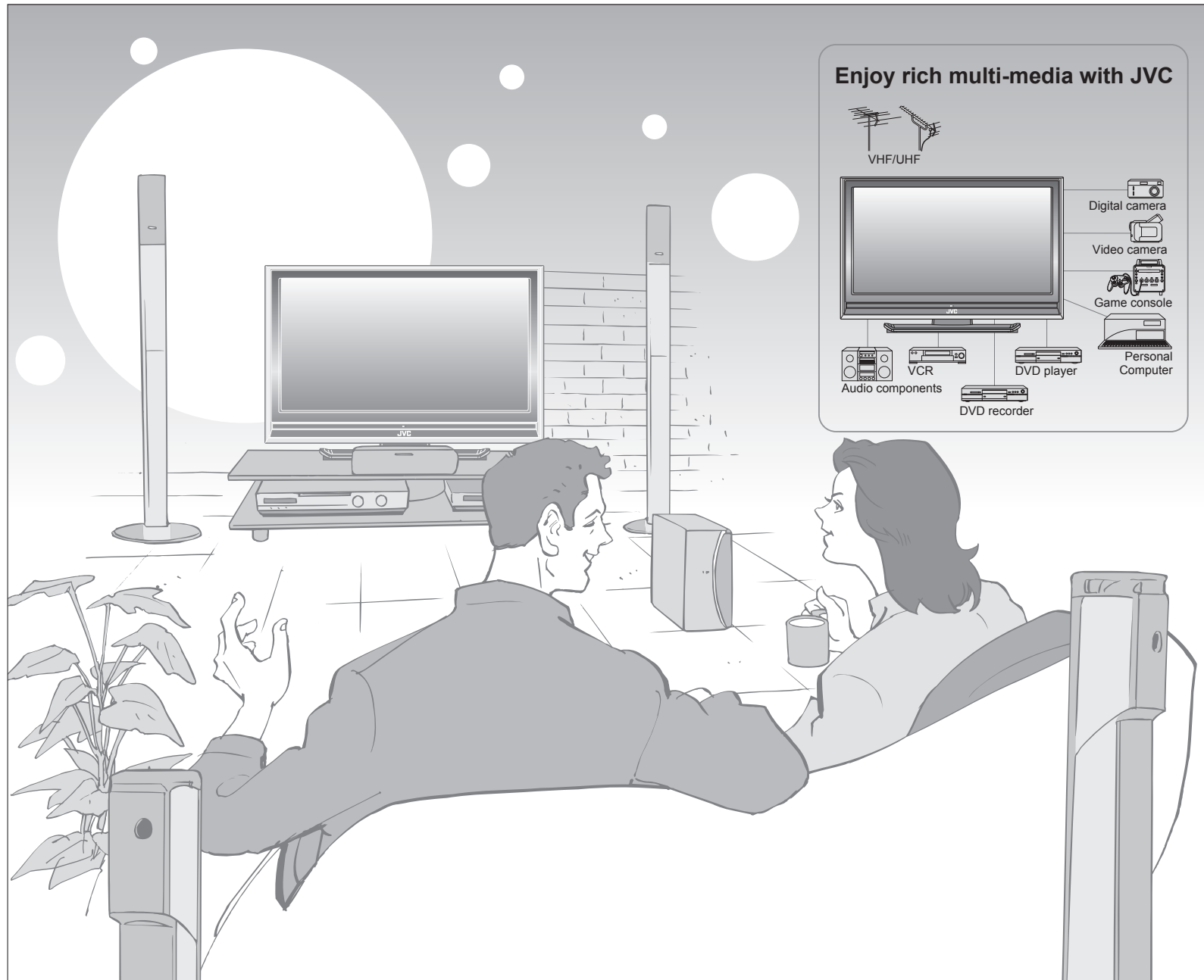
**3**



**4**



# Expanding the world of beautiful images



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# Warning

Please follow all the guidelines below

ENGLISH

## Follow this manual regarding setup!

- Connect only to a 110-240V, 50/60Hz AC outlet.

## Do not allow the TV to fall!

- Do not rest your elbows on, or allow children to hang from the TV. There is a risk that the TV will fall and cause injuries.

## When attaching the TV to the wall, use the optional JVC wall mounting unit!

- Consult a qualified technician.
- See the included manual on mounting procedures.
- JVC assumes no responsibility for damage due to improper mounting.

## Never place anything on the TV!

- Placing liquids, naked flames, cloths, paper, etc. on the TV may cause a fire.



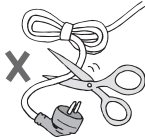
## Make enough room for inserting and removing the power plug!

## Place the TV as close to the outlet as possible!

- The main power supply for this TV is controlled by inserting or removing the power plug.

## Never cut or damage the power cord!

- If the AC plug is not the right shape, or the power cord is not long enough, use an appropriate plug adapter or extension cable. (Consult your retailer.)



## Never try to repair the TV yourself!

➔ If the problem cannot be solved in "Troubleshooting" (P. 33), unplug the power cord and contact your retailer.

## If the TV is damaged or behaving strangely, stop using it at once!

➔ Unplug the power cord and contact your retailer.

## Never expose to rain or moisture!

- To prevent fire or electric shock, never allow liquids to enter the unit.



## Never insert objects into the cabinet openings!

- It may cause a fatal electric shock. Take care when children are near.

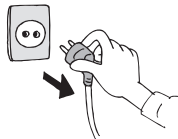


## Never listen to headphones at high volume!

- It may damage your hearing.

## Unplug the power cord when going out!

- The power buttons on the remote control and the TV unit cannot completely turn off the TV. (Make appropriate arrangements for bedridden people.)



## Never dismantle the rear panel!

- It may cause an electric shock.

## Never obstruct the ventilation holes!

- It may cause overheating or a fire.

## Handle LCD panel with care!

- Use a soft, dry cloth when cleaning.

## Hold the TV so as not to scratch the screen!

- Do not touch the screen when carrying the TV.

## Do not carry the TV on your own!

- In order to prevent accidents, ensure that the TV is carried by two or more people.



■ For more details on installation, usage and safety ➔ Consult your retailer

ENGLISH

IMPORTANT!

PREPARE

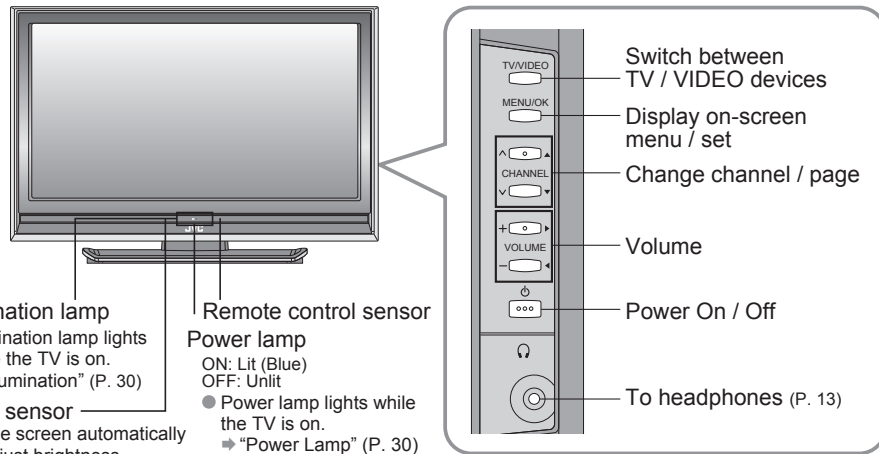
USE

SETTINGS

TROUBLE?

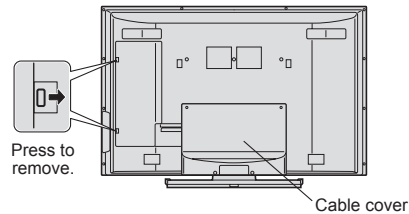
# Names of all the parts

ENGLISH



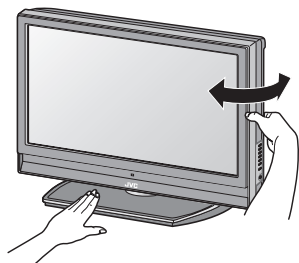
- Illumination lamp**
- Illumination lamp lights while the TV is on. → "Illumination" (P. 30)
- Eco sensor**
- The screen automatically adjust brightness. → "Eco Sensor" (P.38)
- Remote control sensor**
- Power lamp**
- ON: Lit (Blue)
  - OFF: Unlit
  - Power lamp lights while the TV is on. → "Power Lamp" (P. 30)

## Remove the terminal cover

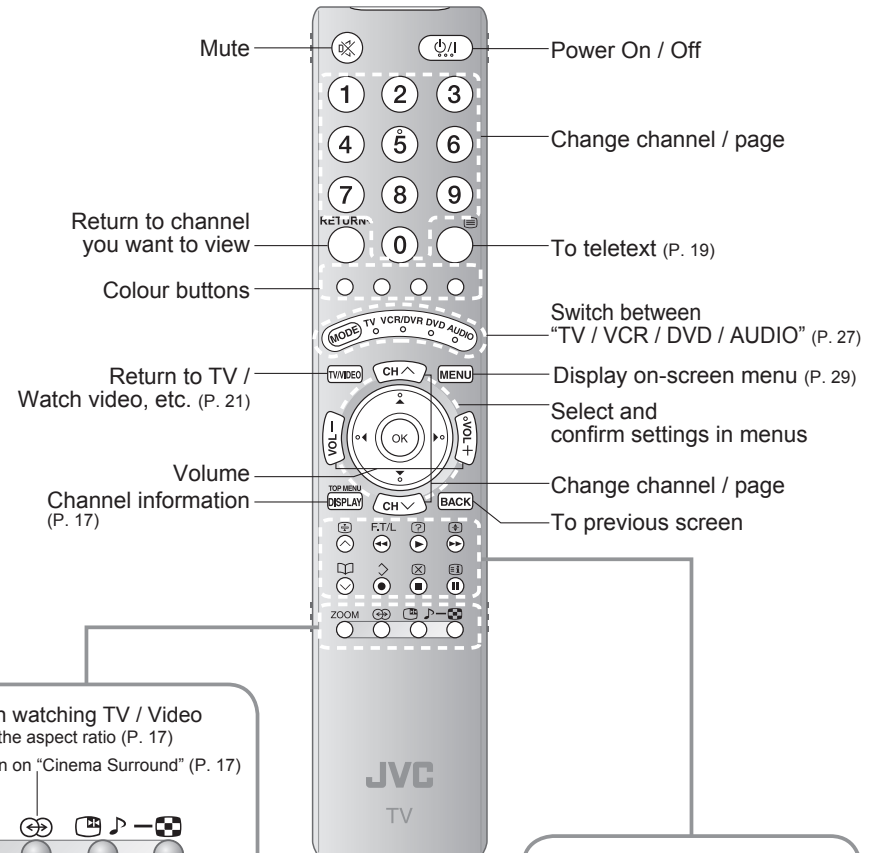
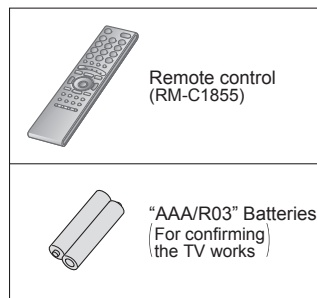


- If the cover cannot be closed due to the cables being in the way → Do not force the cover to close (leave it open).
- Connecting terminals on the back of the TV → Connecting External devices (P. 13)
- To remove the cable cover, refer to back of the cover.

## Change the direction of TV



## Check accessories



■ When watching TV / Video

Change the aspect ratio (P. 17)

Turn on "Cinema Surround" (P. 17)

Take a snapshot of the screen (P. 23)

View in multi-picture mode (P. 23)

■ Insert the batteries

Use two "AAA/R03" dry cell batteries. Insert the batteries from the ⊖ end, making sure the ⊕ and ⊖ polarities are correct.

■ When viewing teletext (P. 19)

Hold the current page

Bookmark pages

Reveal hidden pages

Enlarge the text

Switch briefly between teletext and TV

To index page

ENGLISH

IMPORTANT!

PREPARE

USE

SETTINGS

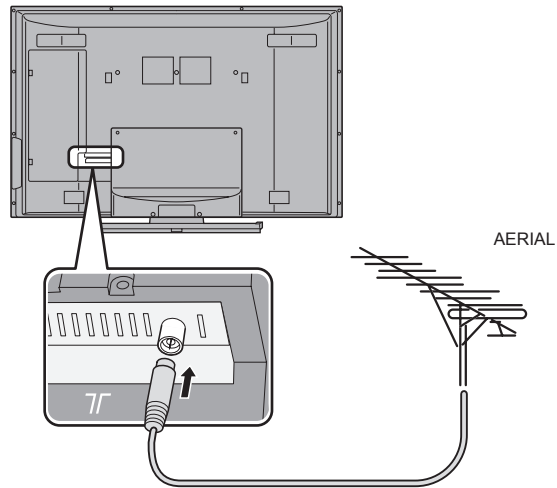
TROUBLE?

# Basic connections

Please read the user manuals of each device before setup.  
It is necessary to connect an aerial to watch TV.

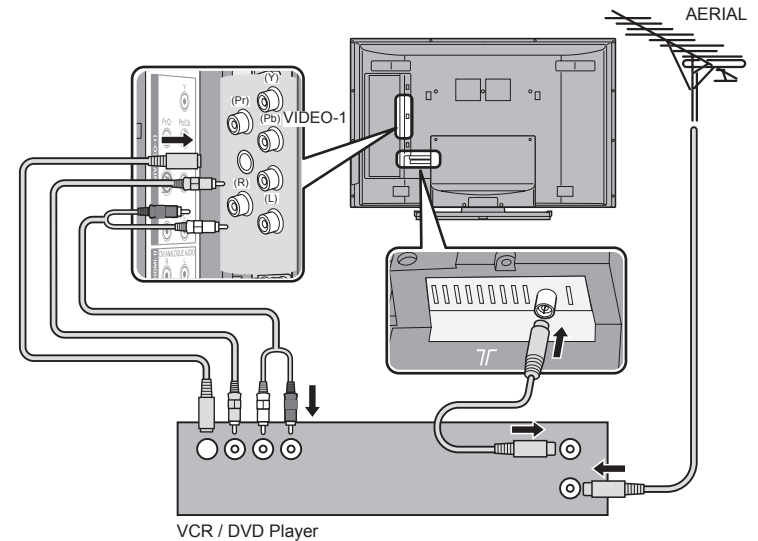
■ Connect with other devices → "Connecting external devices" (P. 13)

## Connect the aerial



- After all the connections have been made, insert the plug into an AC outlet.

## Connect a VCR / DVD Player



- After all the connections have been made, insert the plug into an AC outlet.
- If both composite and S-VIDEO cables are connected, S-VIDEO will be enable.

## Care when setting

### ■ Power requirements

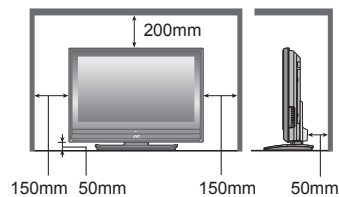
- Connect the power cord only to a 110-240V, 50/60Hz AC outlet.

### ■ When attaching the TV to the wall, use the optional JVC wall mounting unit

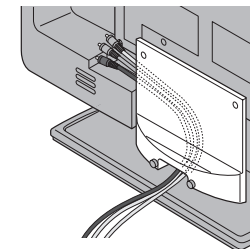
- Consult a qualified technician.
- See the included manual on mounting procedures.
- JVC assumes no responsibility for damage due to improper mounting.
- 400mm x 200mm mount which conforms to VESA standards (200mm).

### ■ Installation requirements

- To avoid overheating, ensure the unit has ample room.



## Tidying the cables



- To remove the cable cover, refer to back of the cover.

# Initial settings

Set the menu language, installation location and automatically register the TV channels. These channels can be edited later in "Editing channels" (P. 11).

**1 Begin**

→

- Shown only when powering on for the first time.
- The power on the unit can also be used.

**2 Select a language**

① select  
② set

**3 Select the teletext language group**

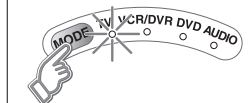
select

**4 Automatically register channels**

**5 Check what was registered**

**6 Confirm**

■ The remote control doesn't work



● Confirm the mode is set to "TV".

- For the teletext language group
  - ➔ "Language group for teletext" (P. 37)
- If the characters are unreadable.
  - ➔ "Language group for teletext" (P. 37)

■ To the previous screen ➔ **BACK**

■ Exit ➔ **MENU**

■ If the "JVC" logo does not appear or if you wish to make changes later  
➔ "Language", "Teletext language" and "Auto Program" (P. 30)

# Editing channels

Edit the channels registered with "Auto Program" in "Initial settings" (P. 9).

ENGLISH



When coming from "Initial settings" (P. 9), skip to 4.

- 1 Display the menu bar
- 2 Select "Set Up"
- 3 Select "Edit / Manual"
- 4 Select a row
- 5 Edit
- 6 Finish

■ To the previous screen  
 → **BACK**

■ Exit  
 → **MENU**

## Move a channel's position

**MOVE**

## Edit a channel name

**ID**

## Insert a channel

**INSERT**

## Delete a channel

**DELETE**

## Register a new channel

**MANUAL**

① Begin ② Select a destination ③ Finish

① Begin ② Enter a channel name

① Begin ② Select a "CH / CC" ③ Enter a number

● "CH/CC" List → (P. 39)

● Receives the broadcast signal.

① Delete (yellow)

① Begin ② Beginning channel search From high frequencies (red) or From low frequencies (green)

● Auto-search begins, and the nearest frequency is imported.  
 → Repeat the previous steps until the desired channel is displayed

■ Adjust

● Channel fine tuning → (yellow) / (blue)

● If the picture or sound is unnatural → select a system

ENGLISH

IMPORTANT!

PREPARE

USE

SETTINGS

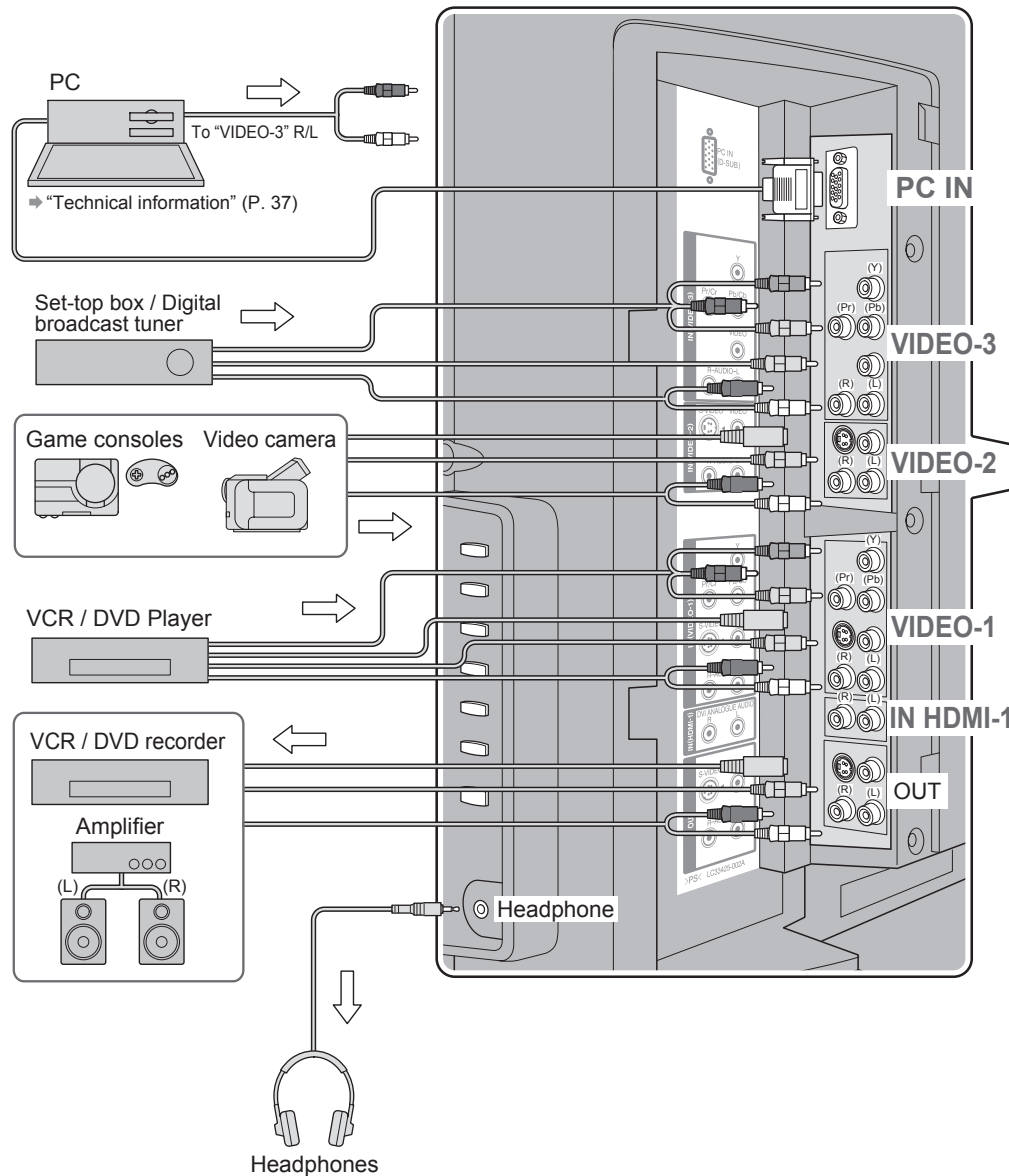
TROUBLE?



# Connecting external devices

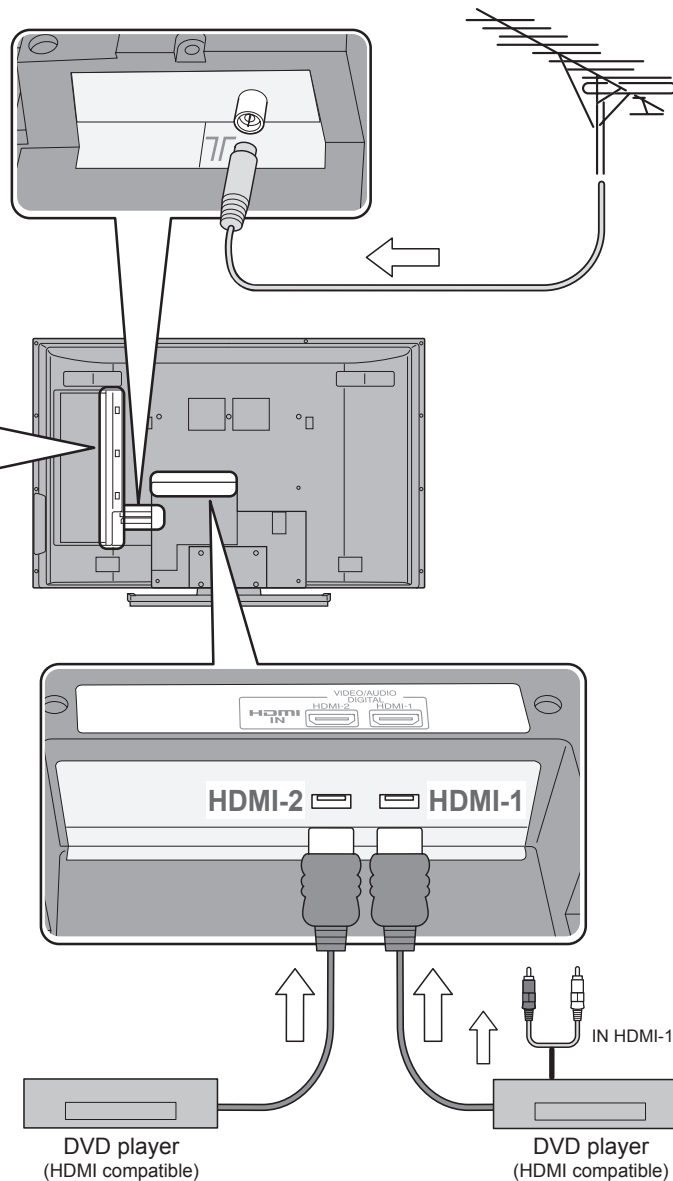
You can connect many different devices to the rear panel of the TV.  
Please read the user manuals of each device before setup.  
(Connecting cables are not supplied with this TV.)

ENGLISH



## VCR / DVD / other devices

→ : signal direction



### VIDEO-1 Watching videos

Output ↑	Input ↓
	· Composite signal / · Component signal / · S-VIDEO · Sound L / R

- Use Component signal  
→ "Switch between video and component signal" (P. 22)
- Use S-VIDEO  
→ "Using S-VIDEO" (P. 22)

### VIDEO-2 Watching videos

Output ↑	Input ↓
	· Composite signal / · S-VIDEO · Sound L / R

- Use S-VIDEO  
→ "Using S-VIDEO" (P. 22)

### VIDEO-3 Watching DVDs

Output ↑	Input ↓
	· Composite signal / · Component signal / · Sound L / R

- Use Component signal  
→ "Switch between video and component signal" (P. 22)

### HDMI-1 Connecting HDMI devices

Output ↑	Input ↓
	· HDMI signal (P. 37)

- "HDMI Setting" → (P. 30)
- HDMI-2 input does not support analogue sound.

### OUT

Video and sound signal of a TV channel you are viewing outputs from this terminal

Output ↓
· Composite signal / · S-VIDEO · Sound L / R

- "Using OUT terminal". → (P. 22)

- Connect a "DVI" device to "HDMI-1" → (P. 37)

ENGLISH

IMPORTANT!

PREPARE

USE

SETTINGS

TROUBLE?

# Enjoying your new TV!

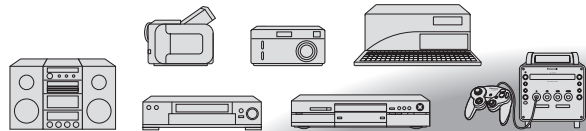
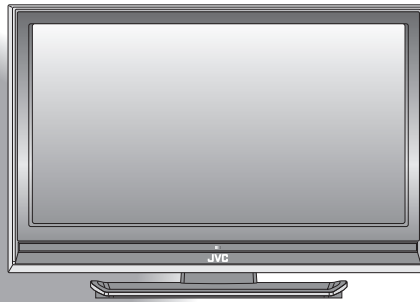
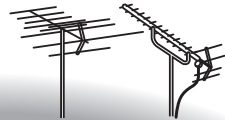
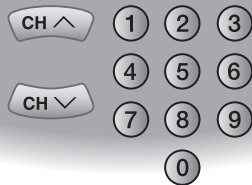
ENGLISH

ENGLISH

## Watching TV

PAGE  
**17**

- View channel information
- Change the aspect ratio
- Enjoy "Cinema Surround"
- Register your favourite channels

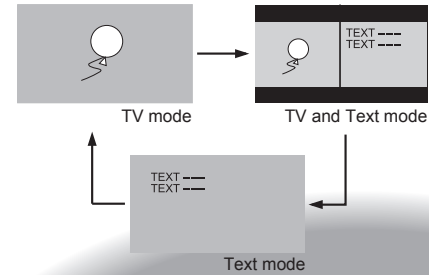


## Watching videos / DVDs

PAGE  
**21**

- Watch high quality video (S-VIDEO)
- Switch between video and component signal
- PC position adjustment

TV/VIDEO



## Viewing teletext

PAGE  
**19**

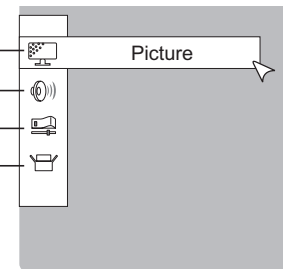
- Enlarge the text
- To the index page
- Hold the current page
- Switch briefly between teletext and TV
- Bookmark your favourite pages
- Reveal hidden pages

MENU

## Personal preferences

PAGE  
**29**

- Adjust the picture
- Adjust the sound
- Advanced settings (sleep-timer / channel guard, etc.)
- Basic settings (channel settings, etc.)



IMPORTANT!

PREPARE

USE

SETTINGS

TROUBLE?

# Watching TV

ENGLISH

**1** Set to "TV"  
MODE TV VCR/DVR DVD AUDIO

**2** Power on  
The blue power lamp on the TV lights  
● Press again to turn the screen off and put the TV into standby mode.

**3** Select a channel  
E.g.  
1 : 0 → 1  
15 : 1 → 5  
● Move up or down a channel  
CH ^ up  
CH v down  
● Switch between mono / stereo / bilingual broadcasting  
→ "Stereo / I-II" ( P. 30)

**Note**  
● To completely turn off the TV, unplug the AC plug.

Volume

## Basic operations using the side buttons

**1** Power on

**2** Change the channel

Volume

### Channel information

DISPLAY

TOP MENU  
DISPLAY

PR List  
● Channels registered in "Initial settings" will appear here.

Channel information

select

view

### Change the aspect ratio

ZOOM

ZOOM

select

set

view

● Using "Auto"  
→ "Auto in "Zoom"" ( P. 38)  
● Using "Full Native"  
→ "Full Native in "Zoom"" ( P. 38)  
● When 720p (750p) signal is received, the signal will be displayed as "Full". The zoom menu will not be displayed.  
● "Full Native" can only be selected when 1080i (1125i) signal is received.  
● In PC mode, "Regular" or "Full" can be selected.

Move the picture with ▲ or ▼ while this bar is displayed

### Enjoy ambient sound

CINEMA SURROUND

Cinema Surround High

High : For stereo sound  
Low : For stereo sound (when the sound distorts in "High" mode)  
Mono : For mono sound (emulates a stereo-like sound)  
Off : Turns off "Cinema Surround"

### Emphasize bass sound

MaxxBass

"MENU" → "Sound" → "MaxxBass"

High

level  
Off Low High

### Always return to the channel you want to view

RETURN PLUS

Registered as return channel  
While the channel is displayed  
Hold down for 3 seconds

Return Plus Programmed!

Cancel  
While the channel is displayed  
Hold down for 3 seconds

Return Plus Canceled!

### Return to the last channel you were viewing

RETURN

Current channel

Last channel

ENGLISH

IMPORTANT!

PREPARE

USE

SETTINGS

TROUBLE?

# Viewing teletext

This TV can display TV broadcasts and teletext on the same channel in two windows.

ENGLISH

**1** Hold the current page

**2** Enter a teletext page

1 2 3  
4 5 6  
7 8 9  
0

■ Move up or down a page  
CH ^ up  
CH v down

■ View sub-pages  
to sub-page

When watching TV

TV TEXT

TEXT TEXT

TEXT TEXT

01 02

01 02

## Bookmark your favourite page

LIST MODE

**1** Display your favourites list  
F.T/L

(RED) (GREEN) (YELLOW) (BLUE)

???

**2** Select a coloured button to save your page to

(red) (green) (yellow) (blue)

???

**3** Enter the number of the page to save

1 2 3  
4 5 6  
7 8 9  
0

???

**4** Save

■ Recall your favourite page → Press the coloured button as in step 2

**Hold the current page**  
HOLD  
■ Release → Press "⊕" again

**Reveal hidden pages**  
REVEAL  
Display hidden information (answers to quizzes, etc.)  
1 + 2 =  
2 x 3 =

**Enlarge the text**  
SIZE  
Double the size of the displayed text  
TEXT SIZE

**To the index page**  
INDEX  
Returns to page "100" or a previously designated page

**Switch briefly from teletext to TV**  
CANCEL  
Leave the current page open, while you switch to watch TV  
P233 TEXT TEXT

● Useful when running a page search.

ENGLISH

IMPORTANT!

PREPARE

USE

SETTINGS

TROUBLE?

# Watching videos / DVDs

ENGLISH

**1** Select the video source

AV Select  
0 01  
1 Video-1  
2 Video-2  
3 Video-3  
4 HDMI1  
5 HDMI2  
6 PC

① select Or TV/VIDEO  
② watch

Note : TV/VIDEO button select the video source by move down.

**2** Operate the connected device and play a video

■ Operate JVC recorders and other devices (P. 27)

Select the video source using the side buttons

- TV/VIDEO Select the video source by move down.
- CHANNEL Select the video source
- MENU/OK

## Switch between video and component signal

**1** Display the menu bar

**2** Select "Set Up"

① select  
② next

**3** Select "Video-1 Setting" or "Video-3 Setting"

① select

**4** Change settings

① select  
② set

Video : For normal video signal  
Component : For component video signal

ENGLISH

IMPORTANT!

PREPARE

USE

SETTINGS

TROUBLE?

## PC position adjustment

**1** Display the menu bar

**2** Select "Set Up"

① select  
② next

Select "PC Position"

① select  
② next

● Shown only when "PC" is selected.

**3** Adjust

① adjust  
② set

● Reset position → (blue)

## Using S-VIDEO

- If both composite and S-VIDEO cables are connected, S-VIDEO will be enable.

## Using OUT terminal

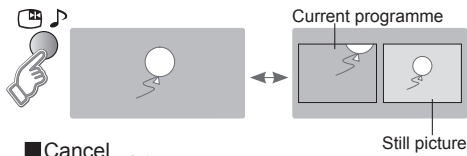
- Component and PC signals does not output from this terminal.
- When you are viewing video signal, no signal will output through the S-VIDEO terminal.
- HDMI-1 and HDMI-2 inputs does not output from this terminal.

# Useful functions

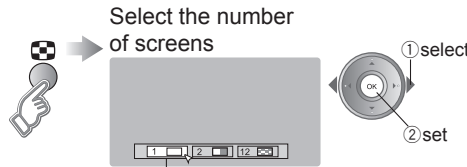
ENGLISH

## Take snapshots of the screen

**FREEZE**



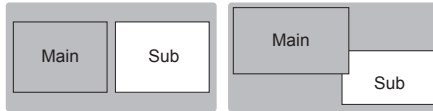
- **Cancel**  
→ Press "Freeze" again, or change the channel
- Not available when the SUB-PICTURE is displayed, or when in PC mode.
- You cannot save or export the snapshot.



- Selecting "1" returns to normal viewing mode
- Not available in PC mode.

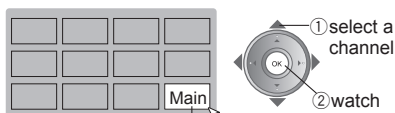
- **Watch in dual-picture mode**  
E.g. You can watch TV and video at the same time.

(For wide aspect ratio signals)



- Switch between the sound sources  
→ (Main) (Sub)
- Change the channel  
→ (Main) (Sub)

- **Select a channel in 12-screen mode**  
All registered channels are displayed as still images.



Only the selected frame has a moving picture.

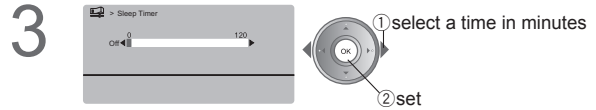
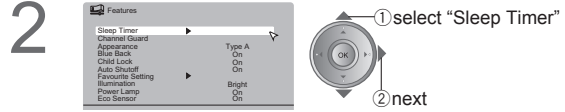
- Move up or down a page →
- Not available for HDMI-1 or HDMI-2 input.



## Set a time for the TV to turn itself off

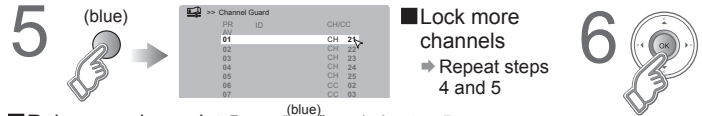
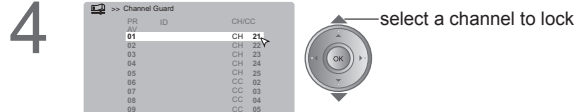
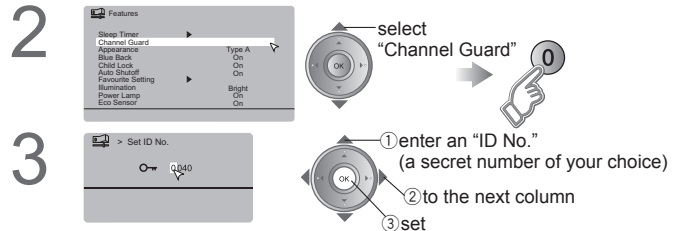
**SLEEP TIMER**

- 1 Display "Features" menu  
→ "Customising your TV" (P. 29)



- **Cancel** → Set the time to "0" in step 3
- **Remaining time** → You can confirm the remaining time at step 3, after repeating this process.

- After steps 1 above



- **Release a channel** → Press "blue" again in step 5
- **View a locked channel** → Use the numerical buttons to enter the channel number. When "ID No." appears, press "ID No." and enter your "ID No.". (If you forget your "ID No.", check it in step 3.)

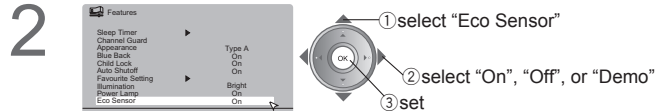
## Stop children from watching specific channels

**CHANNEL GUARD**

## Automatically adjust light and dark according to the brightness of your room

**ECO SENSOR**

- 1 Display "Features" menu  
→ "Customising your TV" (P. 29)



- For more details → "What is 'Eco Sensor'?" (P. 38)

ENGLISH

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# Useful functions (continued)


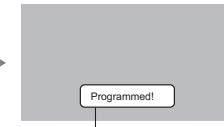
## Register a channel to a button

FAVOURITE CHANNEL

**1** While the channel is displayed  
 Hold down for 3 seconds



**2** Press the number to register it on


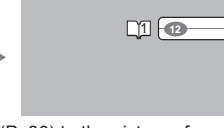
Disappears after a few seconds

### Recall the favourite channel

**1**

**2** Press the number you registered


● Customisations (P. 30) to the picture of a favourite channel get saved as well.

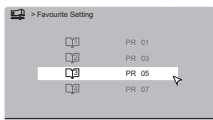

### Check your favourite channels

→ Press "TOP MENU" and confirm that the channels you have registered have a  beside them


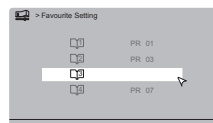
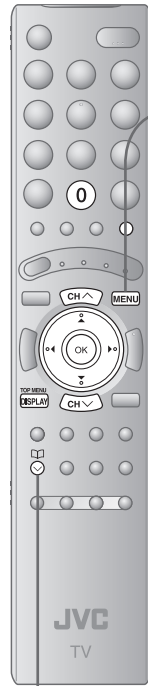
### Delete a favourite channel

**1**

- "MENU" →  → "Features"
- "Favourite Setting"





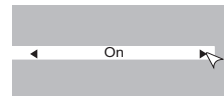
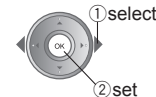
**2** delete (blue)

## Displays a blue screen and mute the sound when the signal is weak

BLUE BACK

→ "MENU" →  → "Features" → "Blue Back"


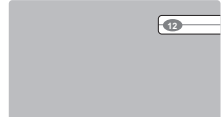



**1** select

**2** set

Off : Function is turned off

On : Displays a blue screen

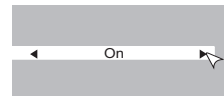
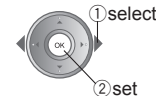
When the signal is weak or absent

Displays a blue screen and mute the sound

## Set the power to turn off if no signal is received and no operation is performed

AUTO SHUTOFF

→ "MENU" →  → "Features" → "Auto Shutoff"






**1** select

**2** set

Off : Function is turned off

On : Set the power to turn off

When no signal is received and no operation is performed for about 15 minutes

The power turns off

## Prevent sudden increase or decrease of sound when changing channels

AI VOLUME

→ "MENU" →  → "Set Up" → "AI Volume"




**1** select

**2** set

Off : Function is turned off

On : Set to prevent sudden increase or decrease of sound

# Operate JVC recorders and other devices

The included remote control can be used to operate JVC recorders and other devices.

ENGLISH



- 1 Select a device**  
  - VCRs
  - DVD recorders
  - HDD recorders
  - Home theatre system
  - TV (P. 6)
  - DVD players

● The indicator lights for 3 seconds each time the remote control is operated.
- 2 Turn on the device**
- 3 Operate the device**  

● Other buttons can be used to operate the TV at any time.

## Try changing the remote control code if you cannot operate a recorder.

■ Code A or 1 (Default)

■ Code C or 3



Press and hold



Press and hold

- Confirm the code for your recorder by checking the manual it came with.
- Some models of JVC devices cannot be operated with this remote control.
- JVC DVD recorders and HDD recorders are set to code "C" or "3" by default.

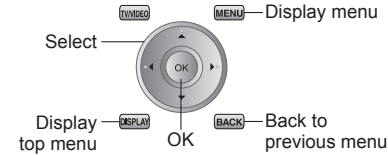
### Note

- If the battery is removed, the remote control code reverts back to code A or 1.

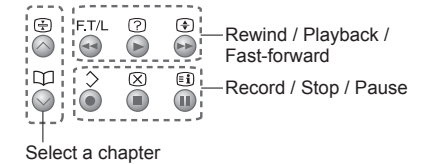
## Operate the VCR, DVD recorder or HDD recorder

VCR/DVR

■ Operate DVD / HDD recorder menus



■ Playback / Record etc.

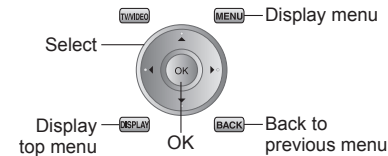


■ Display the subtitle (DVD / HDD recorder mode) → Press "TOP MENU DISPLAY"

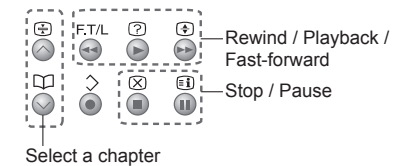
## Operate the DVD player

DVD

■ Operate DVD menus



■ Playback etc.

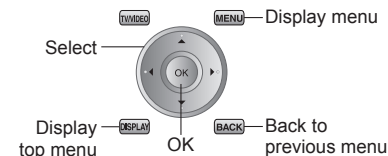


■ Display the subtitle → Press "TOP MENU DISPLAY"

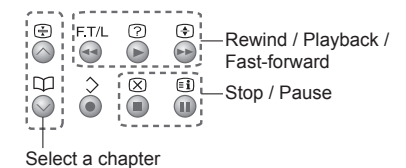
## Operate the home theatre system

AUDIO

■ Operate AUDIO menus



■ Playback etc.



■ Display the subtitle → Press "TOP MENU DISPLAY"

■ Mute → Press "MUTE"

■ Volume → Press "VOL + / VOL -"

■ Select a surround mode → Press "SURROUND"

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# Customising your TV

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**1** Display the menu bar  
 Press the **MENU** button.

**2** Select a menu  
 Press the **select** (OK) button to enter the menu. Press the **next** (right arrow) button to move between menu items.

**3** Select an item  
 Press the **select** (OK) button to enter the item's adjustment screen.

**4** Adjust / Configure  
 Press the **adjust / select** (OK) button to adjust the item. Press the **set** (right arrow) button to confirm the selection.

■ To the previous screen  
 → **BACK**

■ Exit  
 → **MENU**

● The menu disappears after one minute of inactivity.

■ When adjusting with the sliding-bar  
 Press the **adjust** (OK) button to move the slider. Press the **set** (right arrow) button to confirm the position.

■ When selecting from presets  
 Press the **select** (OK) button to select a preset. Press the **set** (right arrow) button to confirm the selection.

● Some items have a sub-menu.

Menu	Item	Adjustments / Configurations
Picture	Picture Mode	Picture mode (Bright / Standard / Soft)
	Back Light	Backlight brightness (Darker ⇄ Brighter)
	Contrast	Contrast (Lower ⇄ Higher)
	Bright	Brightness (Darker ⇄ Brighter)
	Sharp	Sharpness (Softer ⇄ Sharper)
	Colour	Colour (Lighter ⇄ Deeper)
	Tint	Tint for NTSC (Reddish ⇄ Greenish)
	White Balance	Colour temperature (Warm / Mid / Cool)
	Features	Finer picture adjustments (P. 31)
	Sound	Stereo / I · II
Bass		Low tones (Weaker ⇄ Stronger)
Treble		High tones (Weaker ⇄ Stronger)
Balance		Speaker balance (Left Stronger ⇄ Right Stronger)
Cinema Surround		Ambience level (High / Low / Mono / Off)
MaxxBass *1		Emphasize the bass sound (Off / Low / High)
Voice Enhancer		Sound enhancement technology (On / Off)
Features	Sleep Timer	Timer for turning off the TV (P. 24)
	Channel Guard	Stops children from watching specific channels (P. 24)
	Appearance	Format for displaying the channel number (Type A / Type B)
	Blue Back	Displays a blue screen and mute the sound when the signal is weak or absent (P. 26)
	Child Lock	Disables the front control buttons of the TV
	Auto Shutoff	Set the power to turn off if no signal is received and no operation is performed for about 15 minutes (P. 26)
	Favourite Setting	Clear favourite channel settings (P. 25)
	Illumination	Lights illumination lamp (P. 5) while the TV is on (Bright / Off / Soft)
	Power Lamp	Lights power lamp (P. 5) while the TV is on (On / Off)
	Eco Sensor	Automatically adjust contrast of light and dark according to the brightness of your room (Off / On / Demo) (P. 24)
Set Up	Auto Program	Automatically registers channels (P. 10, 4)
	Edit / Manual	Change registered channels or add new ones (P. 11)
	Language	Select a language for on-screen menus (P. 10, 2)
	Video-1 Setting	For use with video players and other devices (P. 22)
	Video-3 Setting	For use with video players and other devices (P. 22)
	AI Volume	Prevent sudden increase or decrease of sound when changing channels (P. 26)
	Teletext Language	Select a language for Teletext programmes (P. 10, 3)
HDMI Setting	HDMI-1 : Size (1 / 2 / Auto), Audio (Digital / Analogue / Auto) HDMI-2 : Size (1 / 2 / Auto)	
PC Position	PC position adjustment (P. 21)	

● Other settings · Change the aspect ratio → "ZOOM" (P. 17)  
 · Turn on "Cinema Surround" → "CINEMA SURROUND" (P. 17)

\*1 MaxxBass is a registered trademark of Waves Audio Ltd. in the USA, Japan and other countries.

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# Advanced picture adjustment

By default, the TV automatically adjusts itself for the best picture.

ENGLISH



- 1 **Display the menu bar**
- 2 **Select "Picture"**
- 3 **Select "Features"**
- 4 **Select an item**
- 5 **Change settings**
- 6 **Finish**

■ To the previous screen  
 → **BACK**

■ Exit  
 → **MENU**

● The menu disappears after one minute of inactivity.

E.g. "Super DigiPure"

E.g. "Super DigiPure"

<b>Super DigiPure</b>	For natural-looking outlines <input type="checkbox"/> Off <input type="checkbox"/> Min <input type="checkbox"/> Max <input type="checkbox"/> Auto : Function is turned off : When the picture loses sharpness : When noise appears : Automatically adjusts
<b>Pull Down</b>	For smooth cinema film <input type="checkbox"/> Off <input type="checkbox"/> On <input type="checkbox"/> Auto : Function is turned off : Function is always on : Automatically adjusts
<b>Colour Management</b>	For natural-looking pictures <input type="checkbox"/> Off <input type="checkbox"/> On : Function is turned off : Maintain a natural colour balance
<b>Picture Management</b>	Fix bright / dark pictures <input type="checkbox"/> Off <input type="checkbox"/> On : Function is turned off : Make it easier to view bright / dark pictures
<b>Smart Picture</b>	Fix brightness of white areas <input type="checkbox"/> Off <input type="checkbox"/> On : Function is turned off : Make it easier to view white areas ● Not available when "Picture Mode" is set to "Bright" (P. 30).
<b>MPEG Noise Reduction</b>	To reduce MPEG video noise <input type="checkbox"/> Off <input type="checkbox"/> On : Function is turned off : When noise appears
<b>Colour System</b>	When there is no colour <p>① Select the screen to change settings on  <input type="checkbox"/> Main <input type="checkbox"/> Sub                  : Main picture : Sub-picture in MULTI-PICTURE mode (P. 23)</p> <p>② Select the colour system  <input type="checkbox"/> PAL <input type="checkbox"/> SECAM <input type="checkbox"/> NTSC 3.58 <input type="checkbox"/> NTSC 4.43 <input type="checkbox"/> Auto</p> ● For colour system in your country or region. → "Colour system in your country or region" (P. 37)
<b>Zoom</b>	Set a default aspect ratio <p>Select a default aspect ratio for Auto in "Zoom" (P. 18)</p> <input type="checkbox"/> Panoramic <input type="checkbox"/> Regular <input type="checkbox"/> 14:9 Zoom <input type="checkbox"/> 16:9 <input type="checkbox"/> 4:3 <input type="checkbox"/> 14:9

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# Troubleshooting

## Severe noise or snow



- Is the TV connected correctly to the aerial?
- Change the direction of the aerial.
- Is the aerial or its cable damaged?
  - Consult your retailer

## Patterns, stripes or noise



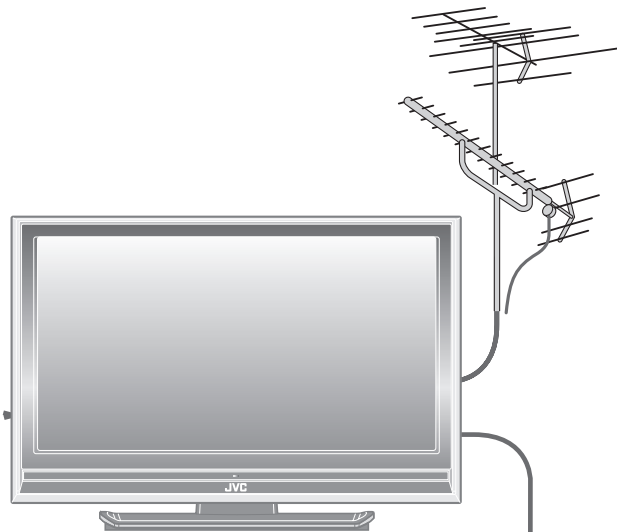
- Is the aerial receiving interference from high-voltage power lines or wireless transmitters?
  - Consult your retailer
- Are connected devices too close to the TV?
  - Insert the minimum distance between the aerial and the cause of interference until no interference

## Ghosting

(Doubling of images)

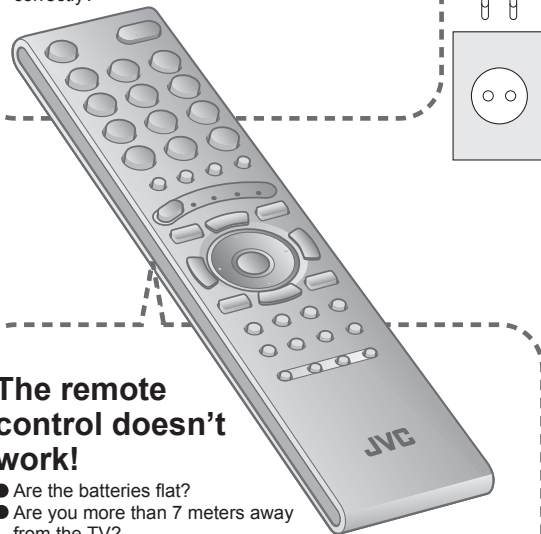


- Are you receiving interference from signals reflected off mountains or buildings?
  - Adjust the direction of your aerial, or change to a good-quality directional aerial



## I can't turn it on!

- Is the power cord connected to the AC outlet correctly?



## The remote control doesn't work!

- Are the batteries flat?
- Are you more than 7 meters away from the TV?
- Is the "MODE (TV, VCR/DVR, DVD, AUDIO)" set to "TV"?
- When viewing teletext, the TV menu bar does not appear.
- Depending on the stability of the signal, there may be a time lag when changing channels.

	Problem	Actions	page
Basics	Remote control stops working	● Unplug TV, several minutes later plug it in again.	-
	Front control buttons does not work	● Switch "Child Lock" to "Off".	30
Screen	Aspect ratio changes unintentionally	● Press "ZOOM" to return to your settings.	17
	PC screen alignment is off	● Adjust the "PC position".	21
Picture	Poor picture quality	● Unnatural colour >>> Adjust "Colour" and "Back Light". Check your "Colour System". If "Auto" is selected, select the specific colour system manually. Noise >>> Set to the following functions. Picture Mode : Standard Super DigiPure : Max Dull picture >>> Set to the following functions. Picture Mode : Bright Super DigiPure : Min	30 32 30 32
	Strange picture when using an external device	● If the top of the image is distorted, check the video signal quality itself. ● If movement appears unnatural when receiving a signal from a DVD player, etc. with 625p (progressive-scanning), change the output setting of the external device to 625i (interlace-scanning).	- -
	Blue screen appears on the screen	● Switch "Blue Back" to "Off".	26

# Troubleshooting (continued)

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	Problem	Actions	page
Sound	Poor sound	<ul style="list-style-type: none"> <li>● Adjust the "Bass" and "Treble".</li> <li>● If receiving a poor signal in "Stereo / I-II", switch to "Mono".</li> <li>● Adjust the channel reception using "Edit/Manual".</li> </ul>	30 30 11
	Wrong screen size	<ul style="list-style-type: none"> <li>● Switch "Size" in "HDMI Setting" to "1" or "2".</li> </ul>	30
HDMI	No picture, no sound	<ul style="list-style-type: none"> <li>● Use the cable marked with HDMI logo. <b>HDMI</b></li> </ul>	—
	No sound	<ul style="list-style-type: none"> <li>● Check if the device is compliant with HDMI.</li> <li>● Switch "Audio" in "HDMI Setting" to "Digital" or "Auto" for HDMI devices, or "Analogue" or "Auto" for DVI devices. (Not available for HDMI-2)</li> </ul>	— 30
	Green and distorted screen	<ul style="list-style-type: none"> <li>● Wait a little for the signal to stabilize when switching the signal format for an "HDMI" device.</li> </ul>	—
Functions	Some functions do not work	<ul style="list-style-type: none"> <li>● It is not a malfunction. Some functions (dark background) in the menu do not work depending on the situation.</li> </ul>	—
	Some inputs cannot be selected in the sub-picture	<ul style="list-style-type: none"> <li>● "VIDEO-1 (Component signal)", "VIDEO-3 (Component signal)", "HDMI-1", "HDMI-2" inputs and PC mode cannot be selected in the sub-picture.</li> </ul>	—

	Problem	Actions	page
Screen	Black or white dots appear on the screen	<ul style="list-style-type: none"> <li>● LCD panels use fine dots ("pixels") to display images. While more than 99.99% of these pixels function properly, a very small number of pixels may not light, or may light all the time. Please understand that this is not a malfunction.</li> </ul>	—
OUT terminal	No picture, no sound	<ul style="list-style-type: none"> <li>● Some inputs does not output from OUT terminal</li> </ul>	22

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# Technical information

## Language group for teletext

Group	Languages
Group-1	Turkish, Hungarian, English, German, French, Italian, Spanish, Portuguese, Greek, Swedish, Finnish
Group-2	Polish, Serbian, Croatian, Slovenian, Czech, Slovak, Rumanian, Hungarian, German, French, Italian, Swedish, Finnish
Group-3	Russian, Bulgarian, Lettish, Lithuanian, Estonian, Ukrainian, Serbian, Croatian, Slovenian, Czech, Slovak, English, German
Group-4	Arabic, Czech, Slovak, Hungarian, English, German, French, Italian, Spanish, Portuguese, Swedish, Finnish
Group-5	Farsi, Czech, Slovak, Hungarian, English, German, French, Italian, Spanish, Portuguese, Swedish, Finnish

- If the characters are unreadable. → Select different teletext language group.

## Sound and Colour system in your country or region

Area	Country or Region	System	System
Asia, Middle East	Bahrain, Kuwait, Oman, Qatar, United Arab Emirates, Yemen, etc. Indonesia, Malaysia, Singapore, Thailand, India, etc.	B/G	PAL
	China, Vietnam, etc.	D/K	
	Hong Kong, etc.	I	
	Islamic Republic of Iran, Lebanon, Saudi Arabia, etc. Philippines, Taiwan, Myanmar, etc.	B/G M	SECAM NTSC
Europe	Russia, etc.	D/K	SECAM
	Czech Republic, Poland, etc.		
	Germany, Holland, Belgium, etc. UK, etc.	B/G I	PAL
Oceania	Australia, New Zealand, etc.	B/G	PAL
Africa	Republic of South Africa, etc.	I	PAL
	Nigeria, etc. Egypt, Morocco, etc.	B/G	SECAM

## Monoaural sound

Use this function when stereo sound or bilingual sound is hard to hear.

- Set "Stereo / I · II" to "MONO" → (P. 30)

## PC Signals that can be displayed

\*Macintosh\* computers are not supported.  
(Macintosh is a registered trademark of Apple Computer, Inc.)

- If the signal doesn't appear, check that the vertical frequency on the PC is set to "60Hz".

Resolution	640 x 480 (VGA)	1024 x 768 (XGA)
Vertical frequency (Hz)	60.0	60.0

## Connect "DVI" devices

Connect a "DVI" device to "HDMI-1" using "DVI-HDMI" conversion cable. Connect analogue sound output of the DVI device to L and R terminals in IN HDMI-1.

- Set "Audio" in "HDMI Setting" to "Analogue" or "Auto" → (P. 30)
- HDMI-2 input does not support analogue sound (IN HDMI-1).
- HDMI-2 input does not support DVI devices.

# Technical information (continued)

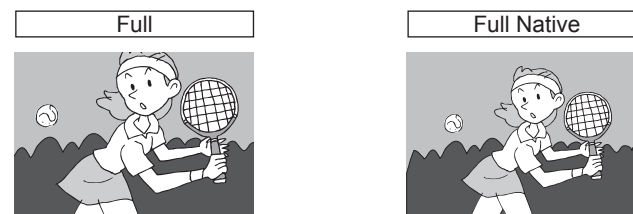
## Auto in "Zoom"

When "Auto" is selected in Zoom, the aspect ratio will turn to the ratio obtained from the information the TV received.

- The aspect ratio will turn to the ratio obtained from WSS (Wide Screen Identification Signal), video signal, or control signal of the external devices. Without receiving the aspect information, it will be the setting in Auto in Zoom menu. (Regular or Panoramic or 14:9 Zoom) (P. 31)
- Not available in PC mode.

## Full Native in "Zoom"

With the full HD LCD display and "Full Native", you can enjoy full native HD resolution of 1920x1080. It exposes flaws in the video that were hidden when veiwing on "Full".



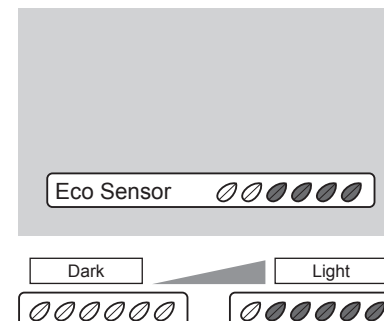
\* The illustrations are emphasized to make clear differences between "Full" and "Full Native".

- Depending on the video, noise or dark bar may appear on the edge of the screen. → Select "Full" in "Zoom"

## What is "Eco Sensor"?

You can adjust this TV so that the screen automatically adjusts to the optimum contrast of light and dark according to the brightness of your room. This function reduces eye strain and the power consumption of this TV.

- Set "Eco Sensor" → "Eco Sensor" (P. 24)
- Make sure not to block the Eco Sensor on front of the TV (P. 5)
- Using "Demo" in "Eco Sensor" You can display the effect of the "Eco Sensor" on the screen
- To fully reduce eye strain and the power consumption of this TV. Set to the following functions.  
Eco Sensor: On or Demo (P. 24)  
Smart Picture: On (P. 31)



# “CH/CC” List

To use the INSERT function (P. 11), find the “CH/CC” number corresponding to the TV’s Channel number from this table.

US: The US channel numbers are the channel numbers used in the United States, Philippines, etc.  
 CCIR: The CCIR channel numbers are the channel numbers used in the Middle East, Southeast Asia, etc.  
 OIRT: The OIRT channel numbers are the channel numbers used in Eastern Europe, Russia, Vietnam, etc.  
 AUSTRALIA: The AUSTRALIA channel numbers are the channel numbers used in Australia, etc.

CH	Channel					CC	Channel				
	US	CCIR	OIRT	AUSTRALIA	US		CCIR	OIRT	AUSTRALIA		
CH 02	US-02	E2	R1	AU-0	CC 01	S-1					
CH 03	US-03	E3		AU-1	CC 02	S-2			AU-5		
CH 04	US-04	E4	R2	AU-2	CC 03	S-3					
CH 05	US-05	E5	R6	AU-6	CC 04	S-4					
CH 06	US-06	E6	R7	AU-7	CC 05	S-5					
CH 07	US-07	E7	R8	AU-8	CC 06	S-6			AU-5A		
CH 08	US-08	E8	R9	AU-9	CC 07	S-7					
CH 09	US-09	E9			CC 08	S-8					
CH 10	US-10	E10	R10	AU-10	CC 09	S-9					
CH 11	US-11	E11	R11	AU-11	CC 10	S-10					
CH 12	US-12	E12	R12		CC 11	S-11					
CH 13	US-13				CC 12	S-12					
CH 14	US-14, W+29				CC 13	S-13					
CH 15	US-15, W+30				CC 14	A	S-14				
CH 16	US-16, W+31				CC 15	B	S-15				
CH 17	US-17, W+32				CC 16	C	S-16				
CH 18	US-18, W+33				CC 17	D	S-17				
CH 19	US-19, W+34				CC 18	E	S-18				
CH 20	US-20, W+35				CC 19	F	S-19				
CH 21	US-21, W+36	E21			CC 20	G	S-20				
CH 22	US-22, W+37	E22			CC 21	H	S-21				
CH 23	US-23, W+38	E23			CC 22	I	S-22				
CH 24	US-24, W+39	E24			CC 23	J	S-23				
CH 25	US-25, W+40	E25			CC 24	K	S-24				
CH 26	US-26, W+41	E26			CC 25	L	S-25				
CH 27	US-27, W+42	E27			CC 26	M	S-26				
CH 28	US-28, W+43	E28			CC 27	N	S-27				
CH 29	US-29, W+44	E29			CC 28	O	S-28				
CH 30	US-30, W+45	E30			CC 29	P	S-29				
CH 31	US-31, W+46	E31			CC 30	Q	S-30				
CH 32	US-32, W+47	E32			CC 31	R	S-31				
CH 33	US-33, W+48	E33			CC 32	S	S-32				
CH 34	US-34, W+49	E34			CC 33	T	S-33				
CH 35	US-35, W+50	E35			CC 34	U	S-34				
CH 36	US-36, W+51	E36			CC 35	V	S-35				
CH 37	US-37, W+52	E37			CC 36	W	S-36				
CH 38	US-38, W+53	E38			CC 37	W+1	S-37				
CH 39	US-39, W+54	E39			CC 38	W+2	S-38				
CH 40	US-40, W+55	E40			CC 39	W+3	S-39				
CH 41	US-41, W+56	E41			CC 40	W+4	S-40				
CH 42	US-42, W+57	E42			CC 41	W+5	S-41				
CH 43	US-43, W+58	E43			CC 42	W+6					
CH 44	US-44, W+59	E44			CC 43	W+7					
CH 45	US-45, W+60	E45			CC 44	W+8					
CH 46	US-46, W+61	E46			CC 45	W+9					
CH 47	US-47, W+62	E47			CC 46	W+10					
CH 48	US-48, W+63	E48			CC 47	W+11					
CH 49	US-49, W+64	E49			CC 48	W+12					
CH 50	US-50, W+65	E50			CC 49	W+13					
CH 51	US-51, W+66	E51			CC 50	W+14					
CH 52	US-52, W+67	E52			CC 51	W+15					
CH 53	US-53, W+68	E53			CC 52	W+16					
CH 54	US-54, W+69	E54			CC 53	W+17					
CH 55	US-55, W+70	E55			CC 54	W+18					
CH 56	US-56, W+71	E56			CC 55	W+19					
CH 57	US-57, W+72	E57			CC 56	W+20					
CH 58	US-58, W+73	E58			CC 57	W+21					
CH 59	US-59, W+74	E59			CC 58	W+22					
CH 60	US-60, W+75	E60			CC 59	W+23					
CH 61	US-61, W+76	E61			CC 60	W+24					
CH 62	US-62, W+77	E62			CC 61	W+25					
CH 63	US-63, W+78	E63			CC 62	W+26					
CH 64	US-64, W+79	E64			CC 63	W+27					
CH 65	US-65, W+80	E65			CC 64	W+28					
CH 66	US-66, W+81	E66			CC 75	X					
CH 67	US-67, W+82	E67			CC 76	Y	R3				
CH 68	US-68, W+83	E68			CC 77	Z	R4	AU-3			
CH 69	US-69, W+84	E69			CC 78	Z+1	R5				
					CC 79	Z+2		AU-4			
					CC 95	A-5					
					CC 96	A-4					
					CC 97	A-3					
					CC 98	A-2					
					CC 99	A-1					

# Specifications

## Main unit

Model	LT-Z46ZF7
Broadcasting systems	B / G / I / D / K / K1 / M (See “Technical information”, P. 37)
Colour systems	PAL, SECAM, NTSC 3.58/4.43 MHz
Channels and frequencies	VHF low channel (VL) = 46.25 to 140.25 MHz VHF high channel (VH) = 147.25 to 423.25 MHz UHF channel (U) = 431.25 to 863.25 MHz · Receives cable channels in mid band (X to Z+2, S1 to S10), super band (S11 to S20) and hyper band (S21 to S41).
Sound-multiplex systems	NICAM (I / B / G / D / K), A2 (B / G / D / K)
Teletext systems	FLOF (Fastext), WST (standard system)
Power requirements	AC 110 V - 240 V, 50/60Hz
Audio output (Rated power output)	10 W + 10 W
Speakers	(4 cm x 16 cm) oval x 2
Power consumption [standby]	256 W [0.5 W]
Screen size (visible area size measured diagonally)	117 cm
Dimensions (W x H x D: mm) [without stand]	1126 x 774.4 x 340.6 [1126 x 721.5 x 120]
Weights [without stand]	37 kg [31 kg]
Accessories	(See “Check accessories”, P. 5)

## Terminals / Connectors

Terminal name	Terminal type	Signal type (IN)	Signal type (OUT)	Notes
Input terminals	VIDEO-1	RCA connectors x 6 S-VIDEO connector x 1	Composite video, S-video, Analogue component (576i (625i) / 480i (525i), Progressive : 576p (625p) / 480p (525p), HD : 1080i (1125i), 720p (750p)) AUDIO L / R	
	VIDEO-2	RCA connectors x 3 S-VIDEO connector x 1	Composite video, S-video, AUDIO L / R	
	VIDEO-3	RCA connectors x 6	Composite video, Analogue component (576i (625i) / 480i (525i), Progressive : 576p (625p) / 480p (525p), HD : 1080i (1125i), 720p (750p)) AUDIO L / R	
	HDMI-1	HDMI connector x 1	HDMI (576i (625i) / 480i (525i) / 576p (625p) / 480p (525p), 1080i (1125i), 720p (750p))	
	HDMI-2			
	IN HDMI-1	RCA connectors x 2	AUDIO L / R	
Output terminals	PC INPUT	D-SUB (15 pins) x 1	Analogue PC signal (P. 37)	
	MONITOR OUT	RCA connectors x 3 S-VIDEO connector x 1	Composite video, S-video, Audio L / R	
	Headphone	Stereo mini-jack x 1 (3.5 mm in diameter)	Headphone output	

● We may change the design and specifications without notice.

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