

Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households)



This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.

For proper treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of charge basis. Alternatively, in some countries you may be able to return your products to your local retailer upon the purchase of an equivalent new product.

Disposing of this product correctly will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union.

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

Panasonic[®]

**Operating Instructions
Plasma Television**

Model No. **TH-42PV700P**
TH-50PV700P

VIERA



Customer's Record

The model number and serial number of this product may be found on its rear panel. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number _____

Serial Number _____

Matsushita Electric Industrial Co., Ltd.

Web Site : <http://www.panasonic-europe.com>

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VIERA
Link



English

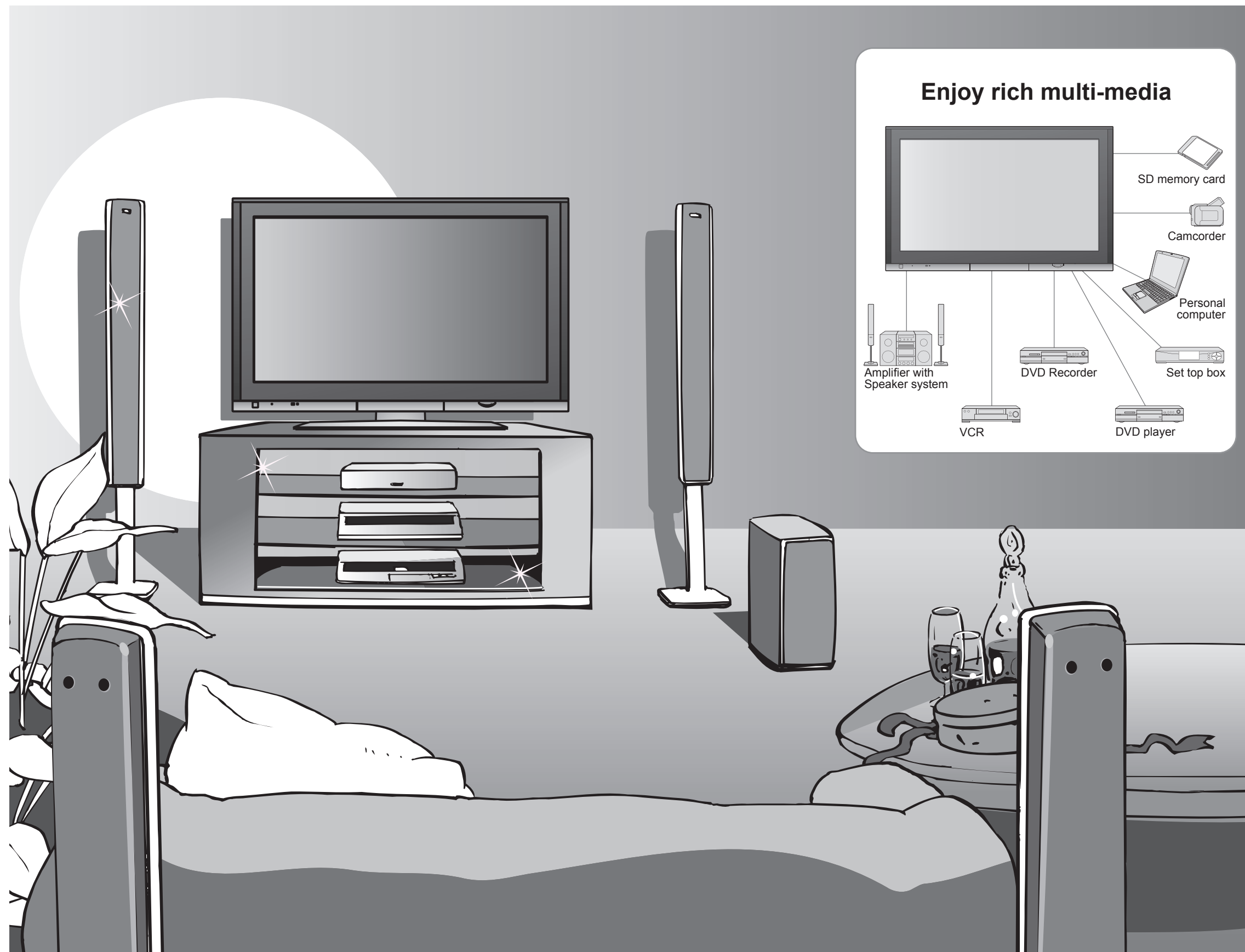
Please read these instructions before operating your set and retain them for future reference. The images shown in this manual are for illustrative purposes only.



TQB0E0425U-1

Turn your own living room into a movie theatre!

Experience an amazing level of multi-media excitement



Contents

Be Sure to Read

- Safety Precautions 4
(Warning / Caution)
- Notes 5
- Maintenance 5

Quick Start Guide

- Accessories / Options 6
- Identifying Controls 7
- Basic Connection 8
- Auto Setup 10

Enjoy your TV!

Basic Features

- Watching TV 12
- Watching Videos and DVDs 14
- Viewing Teletext 16

Advanced Features

- How to Use Menu Functions 18
(picture, sound quality, etc.)
- Editing and Setting Channels 22
- Control Channel Audience 24
- Restore Settings 25
- Input Labels 26
- Displaying PC Screen on TV 27
- Viewing from card (Photos) 28
- Q-Link Functions 30
- HDMI Functions 31
(HDMI terminal / VIERA Link)
- External Equipment 34

FAQs, etc.

- Technical Information 36
- FAQs 40
- Licence 42
- Specifications 43

Safety Precautions

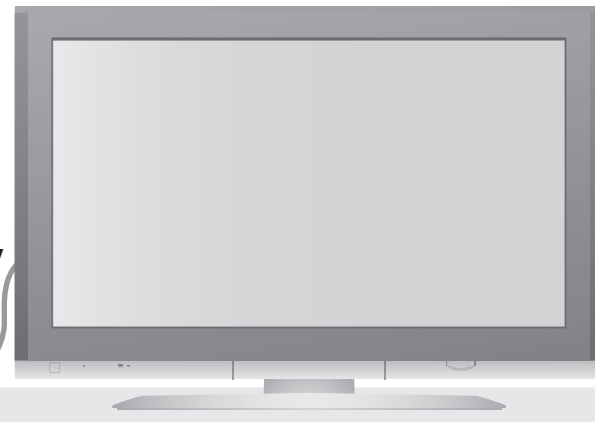
Warning

Handling the mains plug and lead

- Insert the mains plug fully into the socket outlet. (If the mains plug is loose, it could generate heat and cause fire.)
- Ensure that the mains plug is easily accessible.
- Ensure the grounding pin on the mains plug is securely connected to prevent electrical shock.
 - An apparatus with CLASS I construction shall be connected to a mains socket outlet with a protective earthing connection.
- Do not touch the mains plug with a wet hand. (This may cause electrical shock.)
- Do not use any mains lead other than that provided with this TV. (This may cause fire or electrical shock.)
- Do not damage the mains lead. (A damaged lead may cause fire or electrical shock.)
 - Do not move the TV with the lead plugged in the socket outlet.
 - Do not place a heavy object on the lead or place the lead near a high-temperature object.
 - Do not twist the lead, bend it excessively, or stretch it.
 - Do not pull on the lead. Hold onto the mains plug body when disconnecting lead.
 - Do not use a damaged mains plug or socket outlet.

If you find any abnormality, remove the mains plug immediately!

AC 220-240 V
50 / 60 Hz



Do not remove covers NEVER modify the TV yourself

(High-voltage components may cause serious electrical shock.)

- Have the TV checked, adjusted, or repaired at your local Panasonic dealer.

Keep liquids away from the TV

- To prevent damage which may result in fire or shock hazard, do not expose this appliance to dripping or splashing.
- Do not place containers with water (flower vase, cups, cosmetics, etc.) above the TV. (including on shelves above, etc.)

Do not expose to direct sunlight and other sources of heat

- Avoid exposing the TV to direct sunlight and other sources of heat. To prevent fire never place any type of candle or naked flame on top or near the TV.

Do not place foreign objects inside the TV

- Do not let metal or flammable objects drop into the TV through the air vents (fire or electrical shock may result).

Do not place the TV on sloped or unstable surfaces

- The TV may fall off or tip over.

Use only the dedicated stands / mounting equipment

- Using an unauthorized stand or other fixtures may make the TV shaky, risking injury. Be sure to ask your local Panasonic dealer to perform setup.
- Use optional stands / mounts (p. 6).

Do not allow children to handle SD card

- As with a small object, SD card can be swallowed by young children. Please remove SD card immediately after use.

Caution

When cleaning the TV, remove the mains plug

(Cleaning an energized TV may cause electrical shock.)

When TV will not be used for a long time, remove the mains plug

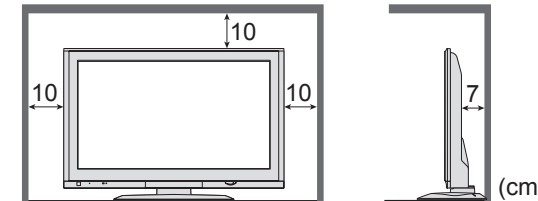
- This TV will still consume some power even in the Off mode, as long as the mains plug is still connected to a live socket outlet.

Transport only in upright position

- Transporting the TV with its display panel facing upright or downward may cause damage to the internal circuitry.

Allow sufficient space around the TV for radiated heat

Minimum distance



Do not block the rear air vents

- Blocked ventilation by curtains, etc. may cause overheating, fire or electrical shock.



Notes

Do not display a still picture for a long time

This causes the image to remain on the plasma screen ("image retention"). This is not considered a malfunction and is not covered by the warranty.

Typical still images

- Channel number and other logos
- Image displayed in 4:3 mode
- Video game
- Computer image



To prevent image retention, contrast is lowered automatically after a few minutes if no signals are sent or no operations are performed. (p. 40)

Auto power standby function

- If no signal is received and no operation is performed in TV mode for 30 minutes, the TV will automatically go to standby mode.

Keep the TV away from these equipment

- Electronic equipment
In particular, do not place video equipment near the TV (electromagnetic interference may distort images / sound).
- Equipment with an infrared sensor
This TV also emits infrared rays (this may affect operation of other equipment).

Maintenance

First, remove the mains plug from the socket outlet.

Display panel

Regular care: Gently wipe the surface clean of dirt by using a soft cloth.

Major contamination: Wipe the surface clean using a soft cloth dampened with clean water or diluted neutral detergent by 100 times of water. Then, using a soft dry cloth, evenly wipe the surface clean until it is dry.

Caution

- The surface of the display panel has been specially treated and may be easily damaged. Do not tap or scratch the surface with your fingernail or other hard object.
- Use care not to subject the surface to bug repellent, solvent, thinner, or other volatile substances (this may degrade surface quality).

Cabinet

Regular care: Wipe the surface clean using a soft dry cloth.

Major contamination: Dampen a soft cloth with clean water or water containing a small amount of neutral detergent. Then, wring the cloth and wipe the surface clean with it. Finally, wipe the surface clean with a dry cloth.

Caution

- Use care not to subject the TV's surfaces to detergent. (A liquid inside the TV could lead to product failure.)
- Use care not to subject surfaces to bug repellent, solvent, thinner, or other volatile substances (this may deteriorate the surface by peeling the paint).
- Do not allow the cabinet to make contact with a rubber or PVC substance for a long time.

Mains plug

Wipe the mains plug with a dry cloth at regular intervals. (Moisture and dust may lead to fire or electrical shock.)

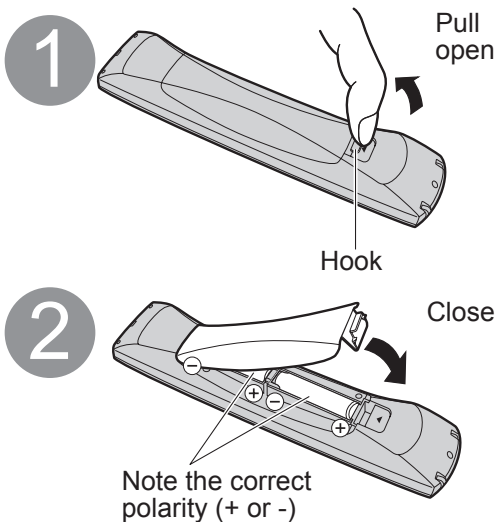
Accessories / Options

Standard accessories

Check that you have the accessories and items shown

- Remote Control Transmitter
● N2QAYB000116
- Batteries for the Remote Control Transmitter (2)
● R6 (UM3)
- Clamper (2)
- Mains Lead
- Operating Instructions
- Pan European Guarantee Card
- Pedestal (ST-42D2-WK / ST-50D2-WK)
● TBL0E0011 (TH-42PV700P)
● TBL0E0012 (TH-50PV700P)
Read the manual of the pedestal for installation.

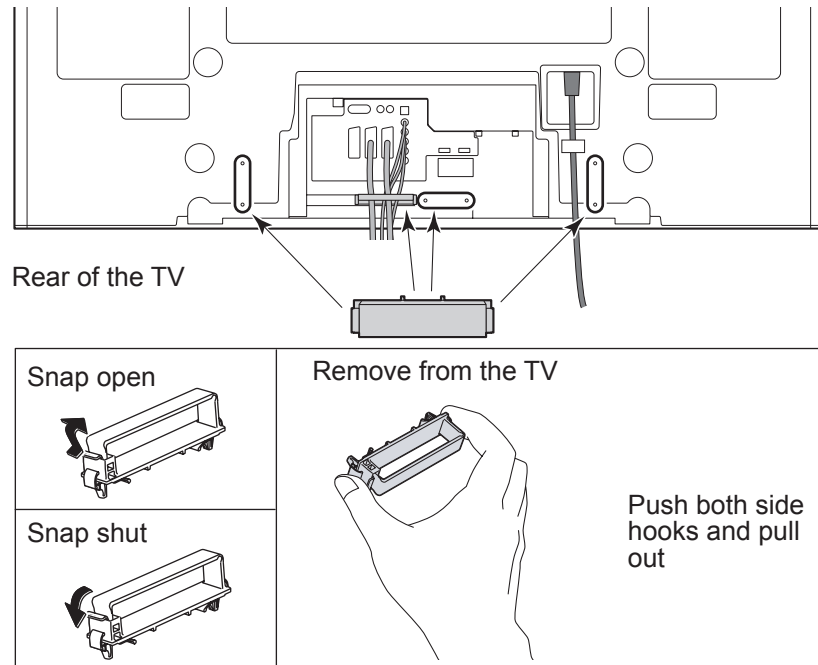
Installing remote's batteries



Caution

- Incorrect installation may cause battery leakage and corrosion, resulting in damage to the remote control.
- Do not mix old and new batteries.
- Do not mix different battery types (such as alkaline and manganese batteries).
- Do not use rechargeable (Ni-Cd) batteries.
- Do not burn or breakup batteries.

Using the clamper



- Do not bundle the RF cable and mains lead together (could cause distorted image).
- Fix cables with clampers as necessary.
- When using the optional accessory, follow the option's assembly manual to fix cables.

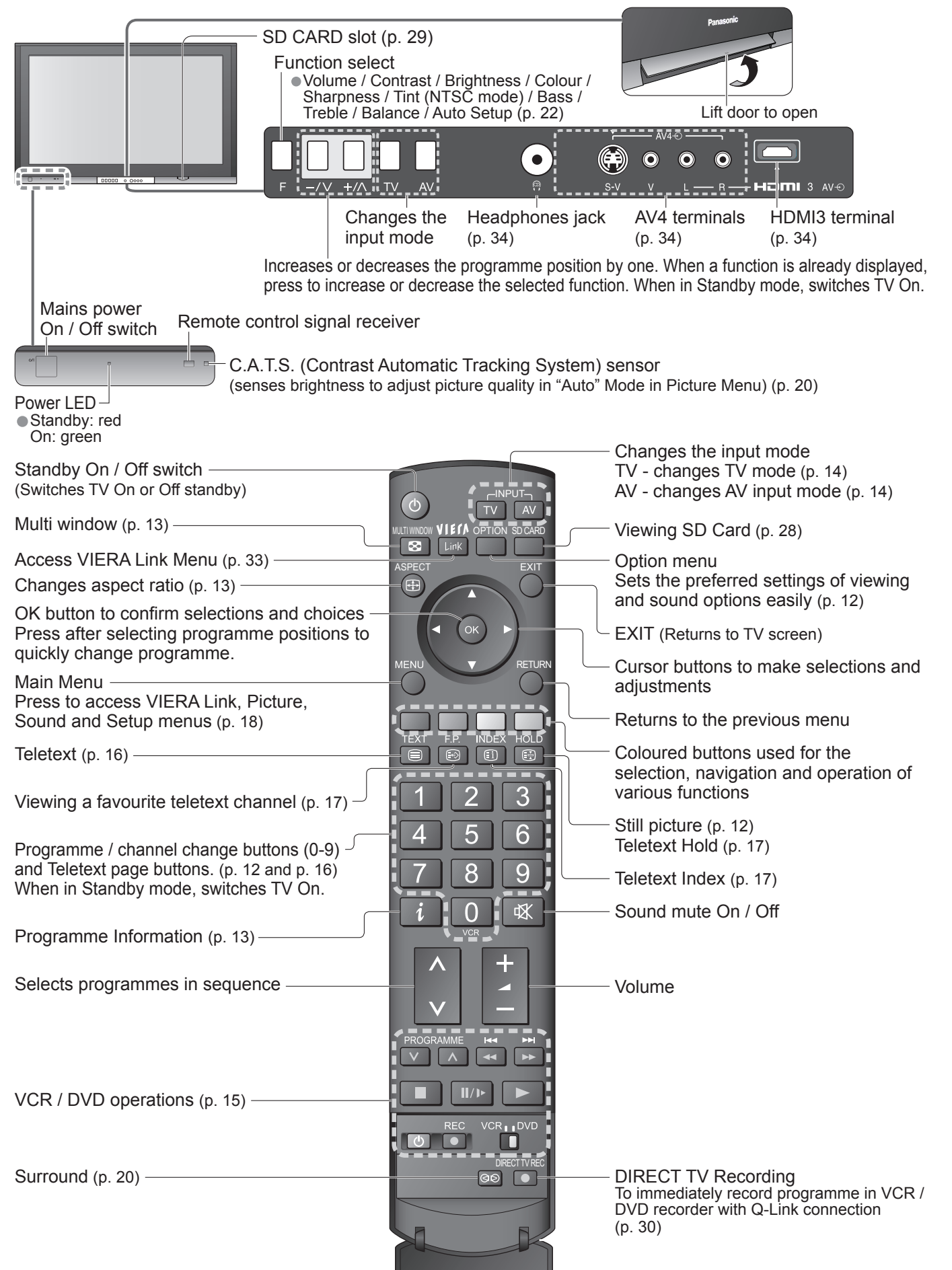
Optional accessories

- Pedestal**
 - TY-ST42D1-WG
 - TY-ST42D1-WK
 - TY-ST42D2-WG (TH-42PV700P)
 - TY-ST50D1-WG
 - TY-ST50D1-WK
 - TY-ST50D2-WG (TH-50PV700P)
- Plasma TV stand**
 - TY-S42PX700W (TH-42PV700P)
 - TY-S50PX700W (TH-50PV700P)
- Wall-hanging bracket (vertical)**
 - TY-WK42PV3W
- (angle)**
 - TY-WK42PR3W

Caution

- In order to maintain the unit's performance and safety, be absolutely sure to ask your dealer or a licenced contractor to secure the wall-hanging brackets.
- Carefully read the instructions accompanying the plasma TV stand or pedestal, and be absolutely sure to take steps to prevent the TV from tipping over.
- Handle the TV carefully during installation since subjecting it to impact or other forces may cause product damage.

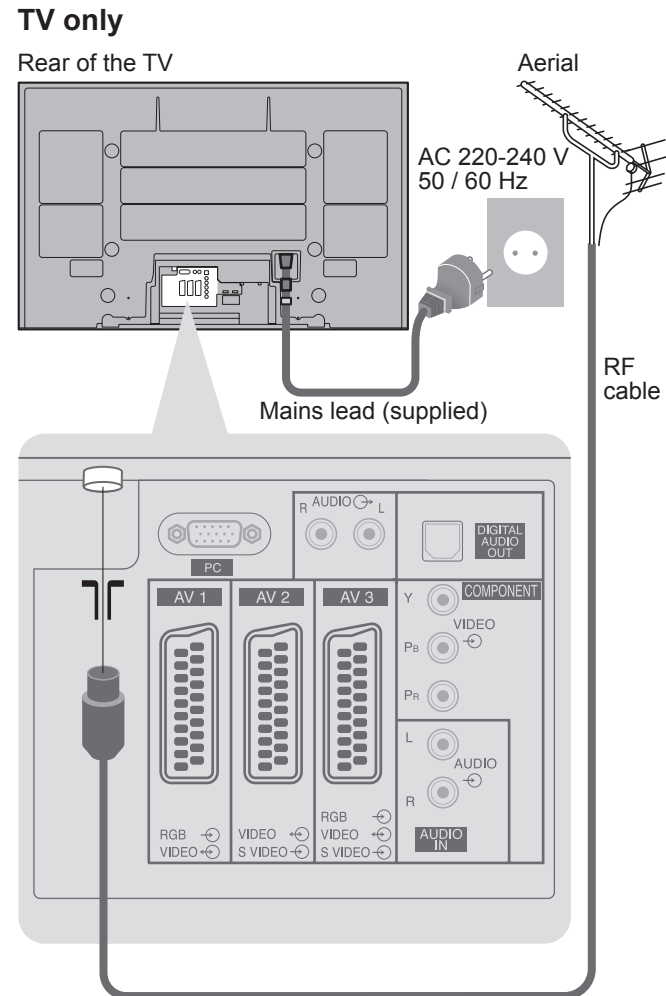
Identifying Controls



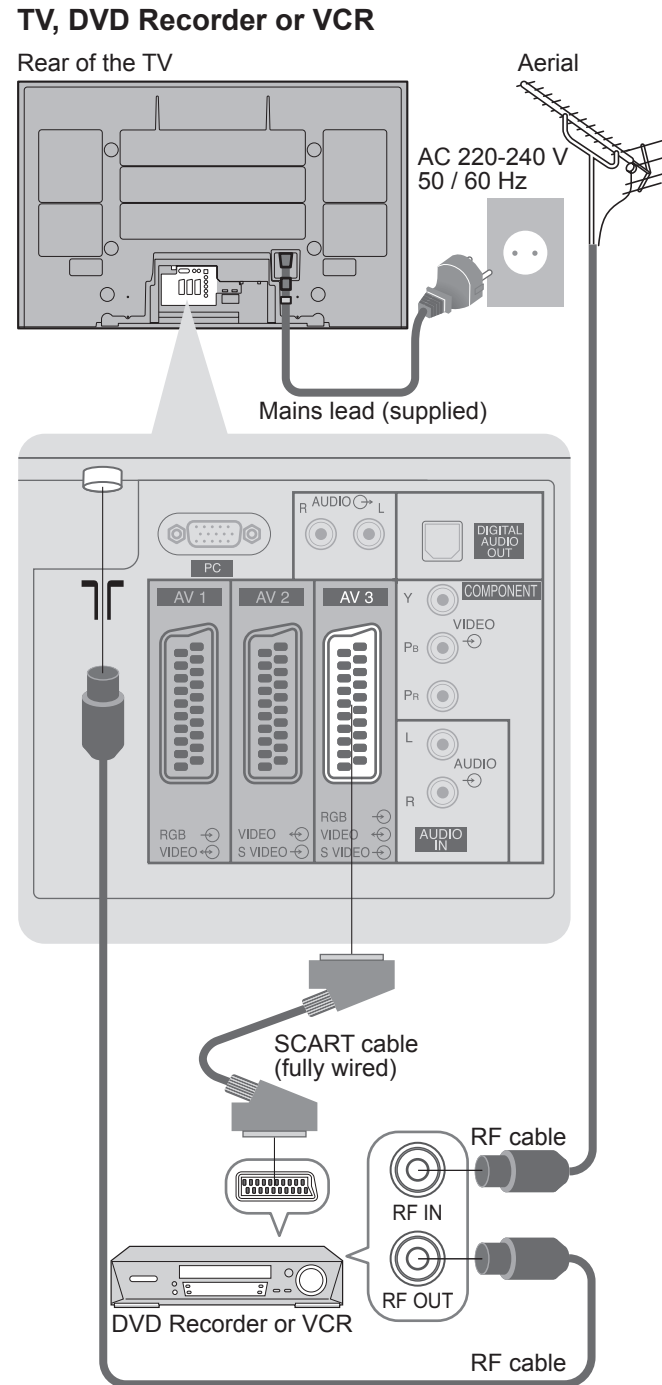
Basic Connection

External equipment and cables shown are not supplied with this TV.
Please ensure that the unit is disconnected from the mains socket before attaching or disconnecting any leads.
When disconnecting the mains lead, be absolutely sure to disconnect the mains plug at the socket outlet first.

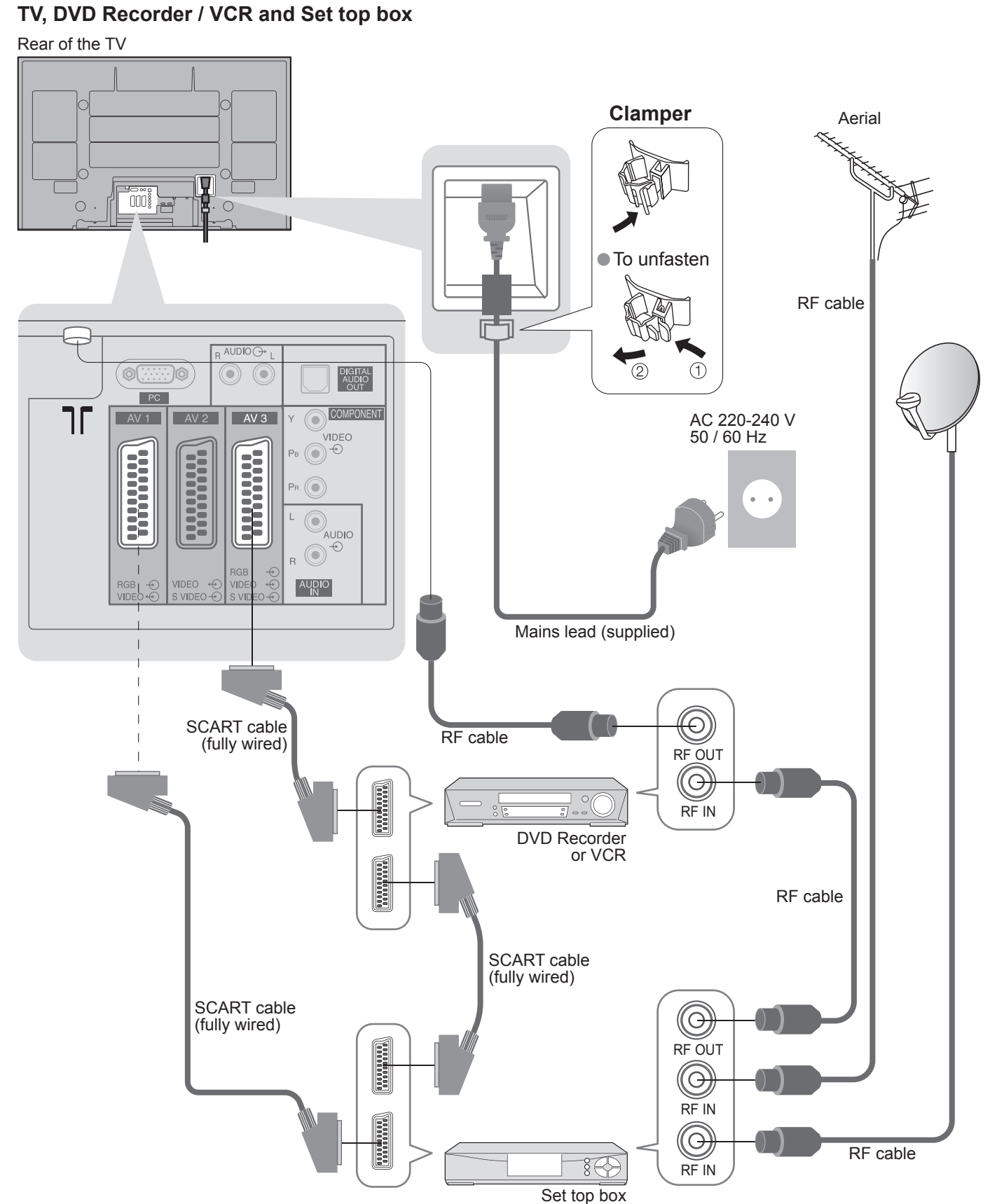
Example 1 Connecting aerial



Example 2 Connecting DVD Recorder / VCR



Example 3 Connecting DVD Recorder / VCR and Set top box

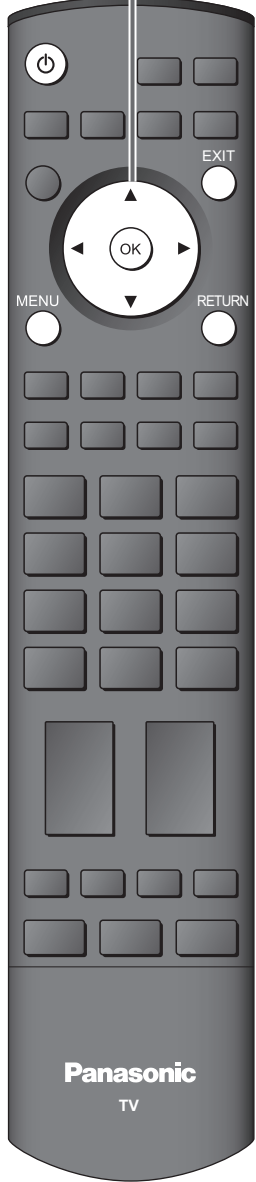


Note

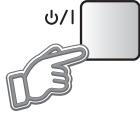
- Connect to AV2 / 3 for a DVD Recorder / VCR supporting Q-Link (p. 30).

Auto Setup

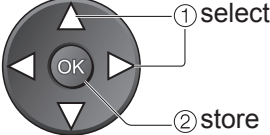
Search and store TV channels automatically.
These steps are not necessary if the setup has been completed by your local dealer.



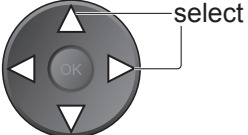
- 1 Plug the TV into mains socket and switch On**
(Takes a few seconds to be displayed)


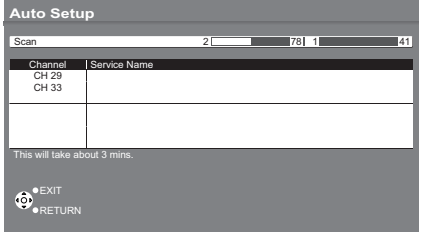

 - You can now use the remote control to turn On the TV or turn the TV to standby mode. (Power LED: On)
- 2 Select the language**

| Menüsprache | | |
|-------------|-------------|------------|
| Deutsch | Español | Nederlands |
| English | Norsk | Suomi |
| Français | Dansk | Türkçe |
| Italiano | Svenska | Português |
| Ελληνικά | Magyar | Hrvatski |
| Čeština | Български | Română |
| Slovenščina | Slovenščina | Polski |
| Srpski | | |


- 3 Select your country**

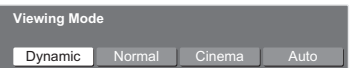
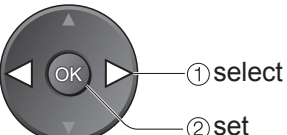
| Country | | |
|-------------|-------------|---------|
| Germany | Denmark | Poland |
| Austria | Sweden | Czech |
| France | Norway | Hungary |
| Italy | Finland | Ireland |
| Spain | Belgium | E.U. |
| Portugal | Switzerland | |
| Netherlands | Greece | |


- 4 Start Auto Setup**




 - Auto Setup will start to search for TV channels and store them. The sorted programme order depends upon the TV signal, the broadcasting system and reception conditions.

DOWNLOAD IN PROGRESS
PLEASE WAIT
Programme : 63
Remote control unavailable

 - If a compatible recording equipment with Q-Link or similar technologies (p. 30) is connected, channel information is automatically downloaded to the equipment.
- 5 Select the picture setting**


 - Also possible to change the setting in Picture Menu (p. 20)

Auto Setup is now complete and your TV is ready for viewing.

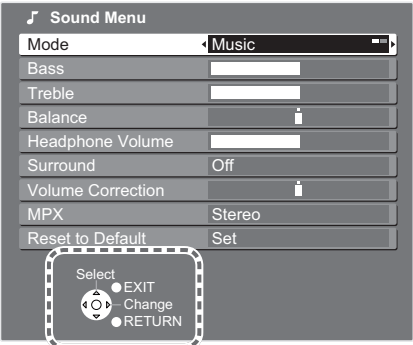

 - To edit channels
 - Editing and Setting Channels (p. 22)

Many features available on this TV can be accessed via the On Screen Display menu.

How to use remote control

- MENU** (button icon) Open the main menu
- Up/Down/Left/Right** (directional pad) Move the cursor / select the menu
- Left/Right** (directional pad) Move the cursor / adjust levels / select from a range of options
- OK** (button icon) Access the menu / store settings after adjustments have been made or options have been set
- RETURN** (button icon) Return to the previous menu
- EXIT** (button icon) Exit the menu system and return to the normal viewing screen

ON SCREEN HELP Instructions box
(example: Sound Menu)



On-screen operation guide will help you.

Note

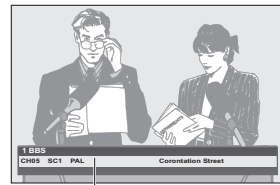
- If tuning has failed → "Auto Setup" (p. 22).
- If downloading has failed → "Download" (p. 21).
- If you turned the TV Off during Standby mode last time, the TV will be in Standby mode when you turn the TV On with Mains power On / Off switch.

Watching TV

1 Turn power on

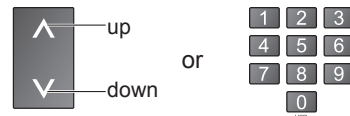


(Press for about 1 second)
 ● Mains power On / Off switch should be On.



Information banner

2 Select a channel



● To select the two-digit programme number, e.g. 39
 → 3 → 9 (in a short time)

Other useful functions (Operate after 2)

| | | |
|------|---|--|
| Hold | Freeze / unfreeze picture | |
| | Check or change the current programme status instantly | |

Display the current programme status

- To change → ② change / ① select

Teletext Language
 → Selects teletext language

MPX
 → Sound Menu (p. 20)

Volume Correction
 → Adjusts volume of individual channel or input mode

Note
 ● Also possible to change the settings in Menu list (p. 20 and p. 21).

Other useful functions (Operate after 2)

Display programme information

Display information banner

- To select another channel → →
- To hide →
- To set display timeout → "Banner Display Timeout" (p. 21)
- Appears also when changing channel.
- Programme information is referred to teletext signal.

Change the aspect ratio

Enjoy viewing the picture at its optimum size and aspect.

- To change the mode
 → Display Aspect Selection list → During the list is displayed, select the mode → Store
- To change the mode using the ASPECT button only
 → (Press repeatedly until you reach the desired mode)

View in multi window

Enjoy viewing two images at once, such as a TV programme and a DVD.

Picture-in-Picture mode (PinP)

Picture-and-Picture mode (PandP)

- Remote control operations apply to the main screen.

Operations in multi window

- To exit multi window (return to the single-screen view with main screen) →
- To change the layout, images, first show the colour bar →
- To change the layout →
- To swap →
- To exit multi window →
- To change the input mode or position of sub screen
 → Swap sub screen for main screen → Change the input mode or position by the remote control (p. 12 or p. 14) → Swap again

Watching Videos and DVDs

Connect the external equipment (VCRs, DVD equipment, etc.) and you can watch the input.
To connect the equipment (p. 8 and p. 9)
The Remote Control is capable of operating some functions of selected Panasonic external equipment.

1 Turn the TV on

- **When connecting with SCART as example 2 or 3** (p. 8 and p. 9)
 - ➔ Receives input signals automatically when playback starts
 - Input signals are automatically identified by the SCART (pin 8) terminal.
 - This function is also available for HDMI connections (p. 33).
- **If input mode is not switched automatically**
 - ➔ Perform ② and ③
 - Dependant on the setup of the equipment

2 Display the Input select menu

3 Select the input mode connected to the equipment

Input Selection

- AV1
- AV2/AV2S
- AV3/AV3S
- AV4/AV4S
- COMPONENT
- PC
- HDMI1
- HDMI2
- HDMI3
- TV

● You can also select the input using the AV button on the remote control or the front panel of the TV.
Press the button repeatedly until the desired input is selected.

● You can label or skip each input modes ➔ "Input Labels" (p. 26)

4 View
Displays the selected mode

AV2

■ **To return to TV**
➔ TV

Note

- If the external equipment has an aspect adjustment function, set to "16:9".
- For details, see the manual of the equipment or ask your local dealer.

Panasonic equipment connected to the TV can be directly operated with the remote control.

| | |
|---------------|--|
| VCR / DVD | VCR / DVD switch* Select VCR to operate Panasonic VCR or DVD equipment Select DVD to operate Panasonic DVD equipment or Player home theatre |
| | Standby Set to Standby mode / Turn on |
| | Play Playback videocassette / DVD |
| | Stop Stop the operations |
| | Rewind / Skip / Search VCR: Rewind, view the picture rapidly in reverse DVD: Skip to the previous track or title Press and hold to search backward |
| | Fast-forward / Skip / Search VCR: Fast-forward, view the picture rapidly forward DVD: Skip to the next track or title Press and hold to search forward |
| | Pause Pause / Restart DVD: Press and hold to play at slow speed |
| PROGRAMME | Programme Up / Down Select programme |
| REC | Record Start recording |

***Setting your remote control to operate Panasonic VCR, DVD, etc.**

- ① Set the VCR / DVD switch to the appropriate position ➔
- ② Press and hold during the following operations
Enter the appropriate code for the equipment to be controlled, see table below

| "VCR" position | | "DVD" position | |
|----------------|--------------|---------------------|--------------|
| Equipment | Code | Equipment | Code |
| VCR | 10 (default) | DVD | 70 (default) |
| DVD | 11 | Player home theatre | 71 |

Note

- Confirm correct operation after the code changed.
- The codes will be reset to default values if batteries are replaced.
- "DVD" means DVD player, DVD recorders and Recorder home theatre.
- Some operations may not be possible on some equipment models.

Viewing Teletext

You can enjoy teletext broadcasting, including news, weather forecasts and subtitles, if this service is provided by the broadcasters.

What is FLOF (FASTEXT) mode?

In FLOF mode, four differently coloured subjects are situated at the bottom of the screen. To access more information about one of these subjects, press the appropriately coloured button. This facility enables fast access to information on the subjects shown.

What is List mode?

In List mode, four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory. ("Store frequently viewed pages", p. 17)

■ **To change mode** → "Teletext" in Setup Menu (p. 21)

1 Switch to Teletext
 TEXT ● Displays Index (content varies depending on the broadcasters)

2 Select the page
 1 2 3
 4 5 6
 7 8 9
 0
 or up/down arrows or red green yellow blue (Corresponds to the colour bar)

■ **To adjust contrast** → MENU → [Left/Right Arrow]

■ **To return to TV** → TEXT

Sub page number: << 01 02 03 04 05 06 07 >>
 Current page number: **P100** 17:51 28 Feb Time / date
 TELETEXT INFORMATION
 Colour bar

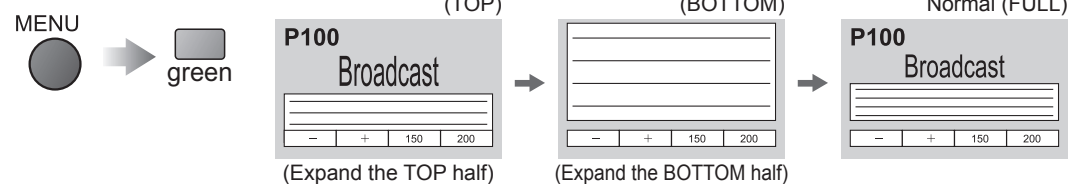
■ Using teletext conveniently

Reveal hidden data

Reveal hidden words e.g. quiz page answers



FULL / TOP / BOTTOM



HOLD
 If you wish to hold the current page without updating
Stop or resume automatic updating
 HOLD [Hold button] ■ To resume → HOLD [Hold button]

INDEX
 INDEX [Index button]

Call up a favourite pages
 F.P. [F.P. button] ● Call up the page stored in "blue".
 ● Factory setting is "P103".

View in multi window
 MULTI WINDOW [Multi Window button] ● Operations can be made only in Teletext screen.

Store frequently viewed pages in the colour bar (List mode only)
 As page is displayed [Colour bar] → [OK] press and hold → P100 Broadcast
 The number changes to white.
 ■ **To change stored pages**
 [Colour button you want to change] → Enter new page number [1-9-0] → [OK] press and hold

View sub page (Only when teletext is more than one page)
 [Left Arrow] [Right Arrow] <<01 02 03 04 05>> Appears at upper-left corner of the screen
 ■ **To view specific sub page**
 MENU → [Blue bar] → [T****] Broadcast → Enter the 4-digit number example: P6 → [0][0][0][6] T0006
 ● Sub pages: The number of sub pages varies depending on the broadcasters (up to 79 pages). It may take some time for searching, during which time you can watch TV.

Watch TV while waiting for update
 MENU → [Yellow bar] → [P108] Broadcast → Appears when updating is completed → [Yellow bar] → View the updated page
 (You cannot change the channel.)
 ● The news page provides a function that indicates arrival of latest news ("News Flash").

How to Use Menu Functions

Various menus allow you to make settings for the picture, sound, and other functions.

1 Display the menu
 MENU ● Displays the functions that can be set (varies according to the input signal)

2 Select the menu
 (example: Picture Menu)
 ● access
 ● select

3 Select the item
 (example: Picture Menu)
 ● select

4 Adjust or select
 (example: Picture Menu)
 ● change
 ● store or access (Required by some functions)

■ To return to TV at any time



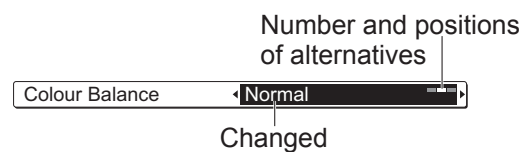
■ To return to the previous screen



Note

- To initialize all settings → "Shipping Condition" (p. 25)

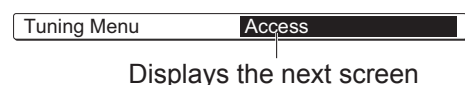
■ Choose from among alternatives



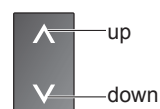
■ Adjust using the slide bar



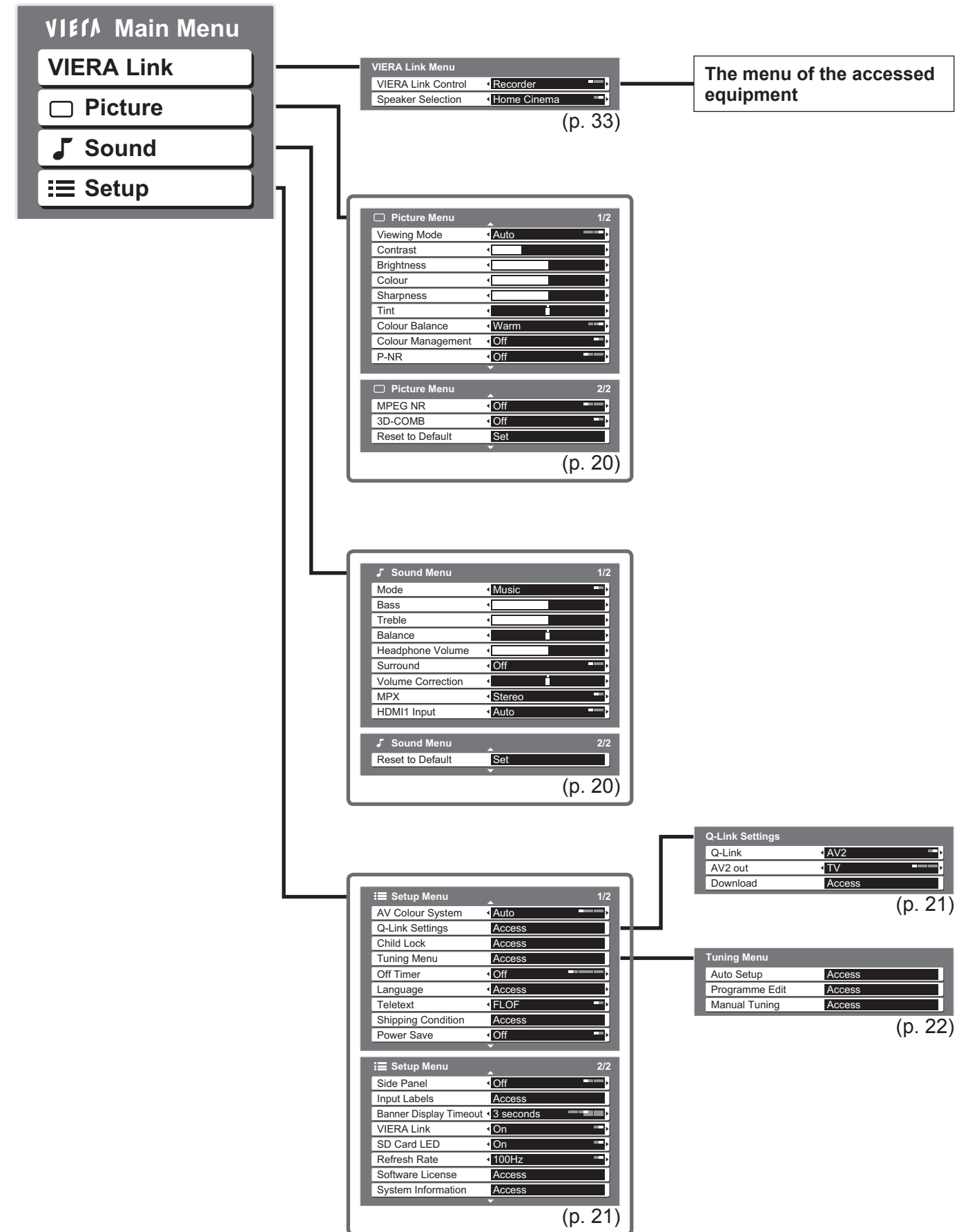
■ Go to the next screen



■ To change menu pages



■ Overview



● Only available items can be selected.

How to Use Menu Functions

Menu list

| Menu | Item | Adjustments / Configurations (alternatives) |
|------------|--|--|
| VIERA Link | VIERA Link Control | Controls the connected Panasonic equipment "Easy control only with VIERA remote control" (p. 33) "Speaker control" (p. 33) |
| | Speaker Selection | ● You can also access VIERA Link Menu directly using the VIERA Link button on the remote control. |
| Picture | Viewing Mode | Basic picture mode (Dynamic / Normal / Cinema / Auto) ● Set for each input signal |
| | Contrast, Brightness, Colour, Sharpness | Adjusts colour, brightness, etc. for each picture mode to suit your taste |
| | Tint | Adjusts tint of image ● For NTSC signal reception only |
| | Colour Balance | Chooses the colour balance of the entire image (Cool / Normal / Warm) |
| | Colour Management | Automatically adjusts colours to vivid ones (Off / On) ● Not valid on PC signal |
| | P-NR | Picture Noise Reduction Automatically reduces unwanted picture noise (Off / Normal / Dynamic / Auto) ● Not valid on HDMI or PC signal |
| | MPEG NR | Automatically reduces noise for watching DTV, DVD, VCD and SD Card (Off / Min / Mid / Max) |
| | 3D-COMB | Automatically makes still pictures and slow pictures look more vivid (Off / On) ● For PAL or NTSC signal reception only ● Not valid on RGB, S-Video, components, PC, HDMI and SD Card |
| | Reset to Default | Press the OK button to reset the present Picture Mode to the default settings |
| Sound | Mode | Basic sound mode (Music / Speech) |
| | Bass | Adjusts the output level of deep bass |
| | Treble | Adjusts the output level of high-pitch, shrill sound |
| | Balance | Adjusts volume level of right and left speakers |
| | Headphone Volume | Adjusts the volume of the headphones |
| | Surround | Surround sound settings (Off / Simulated Surround / SRS TruSurround XT) Simulated Surround: Provides a dynamic enhancer to simulate improved spatial effects SRS TruSurround XT: SRS TruSurround XT® creates a high quality surround sound effect using just two speakers from the source which can output surround encoded signals ● Switching is also possible by the Surround button on the remote control (p. 7) |
| | Volume Correction | Adjusts volume of individual channel or input mode |
| | MPX | Select stereo / monaural (Mono / Stereo) ● Normally: Stereo ● Stereo signal cannot be received: Mono ● M1 / M2: Available while mono signal is transmitted |
| | HDMI1 / 3 Input | Select to fit the input signal (Auto / Digital / Analogue) (p. 31) Auto : Automatic detection of digital or analogue sound source Digital : HDMI cable connection Analogue : HDMI-DVI adapter cable connection ● HDMI input mode only ● HDMI2 terminal is for digital signal only ● No setting for HDMI2 available |
| | | Reset to Default |

Menu list

| Menu | Item | Adjustments / Configurations (alternatives) |
|-----------------|-------------------------------|---|
| Q-Link Settings | AV Colour System | Selects optional colour system based on video signals in AV mode (Auto / PAL / SECAM / M.NTSC / NTSC) |
| | Q-Link | Selects which AV terminal is to be used for data communication between this TV and a compatible recording equipment (AV2 / AV3) (p. 30) |
| | AV2 / AV3 out | Chooses the signal to be transmitted from the TV to Q-Link (TV / AV1 / AV2 / AV3 / AV4 / Monitor) ● Monitor: Image displayed on screen ● Component, PC and HDMI signals cannot be outputted |
| | Download | Downloads channel information to a Q-Link compatible equipment connected to the TV |
| | Child Lock | Locks a programme channel to prevent access to it (p. 24) |
| Tuning Menu | Auto Setup | Automatically sets the channels received in the area (p. 22) |
| | Programme Edit | Edits channels (p. 23) |
| | Manual Tuning | Sets the channels manually (p. 23) |
| | Off Timer | Sets the time the TV automatically turns Off (Off / 15 / 30 / 45 / 60 / 75 / 90 minutes) |
| Language | OSD Language | Changes language for on-screen displays |
| | Teletext Language | Selects teletext language (West / East1 / East2) ● West: English, French, German, Greek, Italian, Spanish, Swedish, Turkish ● East1: Czech, English, Estonian, Lettish, Rumanian, Russian, Ukrainian ● East2: Czech, Hungarian, Lettish, Polish, Rumanian |
| | Teletext | Teletext display mode (FLOF / List) (p. 16) |
| | Shipping Condition | Resets all settings, for example, when moving house (p. 25) |
| | Power Save | Reduces brightness of picture to economise on power consumption (Off / On) |
| | Side Panel | Increases the brightness of the side panel (Off / Low / Mid / High) ● The recommended setting is "High" to prevent panel "image retention" |
| | Input Labels | Labels or skips each input terminals (p. 26) |
| | Banner Display Timeout | Sets how long the information banner (p. 13) stays on screen ● 0 (No display) to 10 sec. in 1-sec. increments |
| | VIERA Link | Sets to use VIERA Link functions (Off / On) (p. 32) |
| | SD Card LED | Lights blue LED while SD Card is inserted (Off / On) (p. 29) |
| | Refresh Rate | Changes the image processing of the panel (depending on the input signal) (50Hz / 100Hz) ● Set to "100Hz" normally |
| | Software License | Displays the software licence information |
| | System Information | Displays the system information of this TV |

- A different menu will be displayed while PC or SD Card is used. (p. 27 and p. 29)
- Only available items can be selected.

Editing and Setting Channels

The current channel settings can be changed according to your needs and reception conditions.

1 Display the menu
MENU

2 Select "Setup"
VIERA Main Menu
VIERA Link
Picture
Sound
Setup

3 Select "Tuning Menu"
Setup Menu 1/2
Q-Link Settings
Child Lock
Tuning Menu Access
Off Timer Off
Language
Teletext FLOF
Shipping Condition
Power Save Off
Side Panel Off

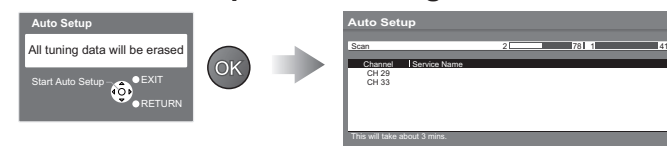
4 Select a function
Tuning Menu
Auto Setup Access
Programme Edit Access
Manual Tuning Access

5 Set

■ To return to TV
EXIT

Automatically set the channels received in the area.
If a Child Lock PIN number (p. 24) has been set, it must be entered.

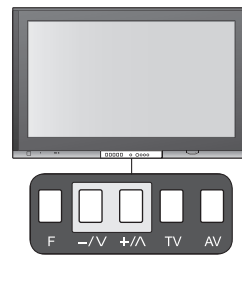
Start Auto Setup Settings are made automatically



- All previous settings are erased.
- The settings are downloaded to a Q-Link compatible equipment connected to the TV.
- When the operation is completed, the broadcast of programme number "1" will appear.
- If tuning has not done completely → "Manual Tuning"

For Auto Setup, using the buttons on the front of the TV

- ① Press repeatedly until "Auto Setup" appears
- ② Access "Auto Setup"
- ③ Start "Auto Setup"



■ To return to TV → F

Set channels automatically

Auto Setup

Edit channels

Programme Edit

- Delete
- Add
- Move
- Change name
- Change sound system
- Change colour system

Set channels manually

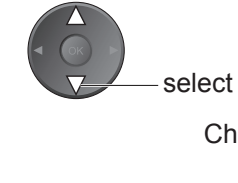
Manual Tuning

Edit the programme position settings

● To change channel number
→ "Manual Tuning"

① Select the channel to edit

| Prog. | Chan. | Name | Sound Sys. | Colour Sys. |
|-------|-------|-------|------------|-------------|
| 1 | CH33 | 1 2 3 | SC1 | Auto |
| 2 | CH21 | X Y Z | SC1 | Auto |
| 3 | CH21 | F T P | SC1 | Auto |
| 4 | CH60 | | SC1 | Auto |
| 5 | CH21 | 4 5 6 | SC1 | Auto |



| Channel | Name |
|---------|-------------------|
| 3 FTP | Coronation Street |

② Edit

- To delete → red
After confirming, press red
- To add → green
After confirming, press green
- To move → yellow
Select new position → yellow

■ To change the name of the broadcaster displayed when selecting channels

| Prog. | Chan. | Name | Sound Sys. | Colour Sys. |
|-------|-------|-------|------------|-------------|
| 1 | CH33 | 1 2 3 | SC1 | Auto |
| 2 | CH21 | X Y Z | SC1 | Auto |
| 3 | CH21 | F T P | SC1 | Auto |
| 4 | CH60 | | SC1 | Auto |
| 5 | CH21 | 4 5 6 | SC1 | Auto |

- Select the "Name" field
- red Enter the "User input" mode
- Select the character
- OK Set (Maximum: five characters)
- RETURN Store

■ To change sound system based on signals

| Prog. | Chan. | Name | Sound Sys. | Colour Sys. |
|-------|-------|-------|------------|-------------|
| 1 | CH33 | 1 2 3 | SC1 | Auto |
| 2 | CH21 | X Y Z | SC1 | Auto |
| 3 | CH21 | F T P | SC1 | Auto |
| 4 | CH60 | | SC1 | Auto |
| 5 | CH21 | 4 5 6 | SC1 | Auto |

- Select the "Sound Sys." field
 - Select sound system
- SC1 : PAL B, G, H / SECAM B, G
SC2 : PAL I
SC3 : PAL D, K / SECAM D, K
F : SECAM L / L'

■ To change colour system based on signal

● Normally, select "Auto"

| Prog. | Chan. | Name | Sound Sys. | Colour Sys. |
|-------|-------|-------|------------|-------------|
| 1 | CH33 | 1 2 3 | SC1 | Auto |
| 2 | CH21 | X Y Z | SC1 | Auto |
| 3 | CH21 | F T P | SC1 | Auto |
| 4 | CH60 | | SC1 | Auto |
| 5 | CH21 | 4 5 6 | SC1 | Auto |

- Select the "Colour Sys." field
- Select colour system

■ Fine Tuning

Use to make small adjustments to the tuning of an individual channel (affected by weather conditions, etc.)

■ Manual Tuning

Set channel manually after Auto Setup.

If a VCR is connected with only the RF cable, select programme position "0".

| Manual Tuning | Programme | Channel | Frequency | Service |
|---------------|-----------|---------|-----------|---------|
| 1 | 1 | [CH33] | | |
| 2 | 2 | 78 | 1 | 41 |

Select the programme position

Select the channel

Search and store



Control Channel Audience

You can lock specific channels and control who watches them. (When a channel is selected, a message appears; by entering the PIN number, you can watch the channel.)

- 1 Display the menu**
MENU
- 2 Select "Setup"**
VIERA Main Menu
VIERA Link
Picture
Sound
Setup
- 3 Select "Child Lock"**
Setup Menu 1/2
Q-Link Settings
Child Lock Access
Tuning Menu
Off Timer Off
Language
Teletext FLOF
Shipping Condition
Power Save Off
Side Panel Off
- 4 Set**
EXIT

Control channel audience

Child Lock

1 Enter the PIN number (4 digits)

- Enter the PIN number twice at first setting.
- Make a note of the PIN number in case you forget it.

2 Select "Service List"

3 Select the channel to be locked

Appears when the channel is locked

- To cancel
→ Select the locked channel
→ OK
- To lock all channels → yellow
- To cancel all channel locks → blue

To change the PIN number

Select "Change PIN" in 2 and enter a new PIN number twice.

Note

- Setting "Shipping Condition" (p. 25) erases the PIN number and all settings.

Restore Settings

Resets the TV to its original condition, i.e. no channels tuned in. All settings (channels, picture, sound quality, etc.) are reset.

- 1 Display the menu**
MENU
- 2 Select "Setup"**
VIERA Main Menu
VIERA Link
Picture
Sound
Setup
- 3 Select "Shipping Condition"**
Setup Menu 1/2
Q-Link Settings
Child Lock
Tuning Menu
Off Timer Off
Language
Teletext FLOF
Shipping Condition Access
Power Save Off
Side Panel Off
- 4 Set**
EXIT

Restore Settings

Shipping Condition

1 Check the message and initialise

2 Follow the on-screen instructions

- "Auto Setup" will automatically start. (p. 10)

To re-tune TV channels only, e.g. after moving house

- "Auto Setup" (p. 22)

Input Labels

For easier identification and selection of the input mode, you can label each input terminals or skip terminal that is not connected to any equipment.
(To select the input mode → p. 14)

1 Display the menu
MENU

2 Select "Setup"
VIERA Main Menu
VIERA Link
Picture
Sound
Setup

3 Select "Input Labels"
Setup Menu 2/2
Input Labels Access
Banner Display Timeout 3 seconds
VIERA Link On
SD Card LED On
Refresh Rate 100Hz
Software License
System Information

4 Select a input terminal and set
Input Labels
AV1 DVD
AV2/AV2S AV2/AV2S
AV3/AV3S AV3/AV3S
AV4/AV4S AV4/AV4S
COMPONENT COMPONENT
PC PC
HDMI1 HDMI1
HDMI2 HDMI2
HDMI3 HDMI3

■ To return to TV
EXIT

The labels you set will be displayed in "Input Selection" menu (p. 14) or banner.
● If "Skip" is selected, you cannot select the mode.

■ User input

You can name each input terminals freely.

Select "User input" → Set characters → Store RETURN

(maximum: ten characters)

Displaying PC Screen on TV

The screen of the PC connected to the TV can be displayed on the TV.
You can also listen to PC sound with the audio cable connected. To connect PC (p. 34)

1 Select the external input
AV

2 Select "PC"
Input Selection
AV1
AV2/AV2S
AV3/AV3S
AV4/AV4S
COMPONENT
PC
HDMI1
HDMI2
HDMI3
TV

● Corresponding signals (p. 39)
● If "H-freq." or "V-freq." is shown in red, the signals may not be supported.

■ To return to TV
TV

■ PC menu setting (changed as desired)

● To make settings → "How to Use Menu Functions" ① to ④ (p. 18)

| Menu | Item | Adjustments / Configurations (options) |
|---------|-----------------------------------|--|
| Picture | Advanced PC Settings | W/B High R White balance of bright red area |
| | | W/B High B White balance of bright blue area |
| | | W/B Low R White balance of dark red area |
| | | W/B Low B White balance of dark blue area |
| | Gamma (2.0 / 2.2 / 2.5 / S Curve) | |
| Setup | Input Resolution | Switches to a wide view ● VGA (640 × 480 pixels), WVGA (852 × 480 pixels), XGA (1,024 × 768 pixels), WXGA (1,366 × 768 pixels) ● Options change depending on signals |
| | Clock | Set to the minimum level if noise occurs |
| | H-pos | Adjusts horizontal position |
| | V-pos | Adjusts vertical position |
| | Clock Phase | Eliminates flicker and distortion ● Adjust after Clock adjustment ● Set to the minimum level if noise occurs |
| | Sync | Chooses another synchronous signal if the image is distorted (H & V / On G) ● H & V : by the horizontal and vertical signals from your PC On G : by the green signal from your PC (if available) |

● Other items → p. 20 and p. 21

Q-Link Functions

Q-Link connects the TV and VCR / DVD recorder, enables easy recording and playback.

■ Condition

- Use the VCR / DVD recorder with the following logos: "Q-Link", "NEXTVIEWLINK", "DATA LOGIC", "Easy Link", "Megalogic", or "SMARTLINK"
- Connect the equipment to this TV's AV2 or AV3 terminal via a "fully-wired" SCART cable. (p. 34)
- Q-Link terminal setup in Setup menu (Q-Link, AV2 / AV3 out). (p. 21)

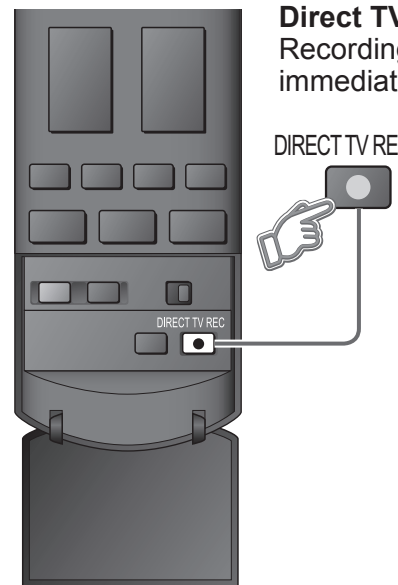
■ Download channel settings

- Perform Auto Setup. (p. 22)
When first using this TV, see "Auto Setup". (p. 10)
- Perform download to the equipment. (p. 21)

■ Features available

Some recording equipments are not applicable. Read the manuals of the equipment.

What you see is What you record



Direct TV Recording:

Recording the current programme in VCR / DVD recorder immediately.

- When Direct TV Recording is performed, the recording equipment is automatically turned on if it is in Standby mode.
- The recording equipment is recording from its own tuner. You can turn the TV off during recording.
- If you turn the TV off during recording from an AV source, the recording will be stopped.

Information / Message

Recording information or if recording is not possible, a message is displayed. (Only when the programme number is "0" or "AV mode" for some equipment.)

Power on link and Easy playback

When VCR or DVD recorder starts playback or direct navigator / function menu for the equipment are activated, the TV is turned on and input mode is switched automatically so that you can view the content. (Only when TV is in Standby mode.)

Power off link

When TV is set to Standby mode, the recording equipment is also automatically set to Standby. (Only when the videocassette or DVD is not active.)

- "DATA LOGIC" (a trademark of Metz Corporation)
- "Easy Link" (a trademark of Philips Corporation)

- "Megalogic" (a trademark of Grundig Corporation)
- "SMARTLINK" (a trademark of Sony Corporation)

Read the manuals of the equipment too.

HDMI Functions

HDMI (high-definition multimedia interface) allows you to enjoy high-definition digital images and high-quality sound by connecting the TV and the equipment. HDMI-compatible equipment (*1) with an HDMI or DVI output terminal, such as a set top box or a DVD player, can be connected to the HDMI terminal using an HDMI compliant (fully wired) cable. About connections, see "External Equipment" (p. 34).

Note

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI1 terminal via a DVI to HDMI adapter cable (*2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal (HDMI1: use COMPONENT-AUDIO terminals / HDMI3: use AV4 audio terminals).
- Audio settings can be made on the "HDMI1 / 3 Input" menu screen. (p. 20)
- Applicable audio signal sampling frequencies (2ch L.PCM): 48 kHz, 44.1 kHz, 32 kHz
- HDMI2 terminal is for digital audio signal only.
- Use with a PC is not assumed.
- If the connected equipment has an aspect adjustment function, set the aspect ratio to "16:9".
- These HDMI connectors are "type A".
- These HDMI connectors are compatible with HDCP (High-Bandwidth Digital Content Protection) copyright protection.
- An equipment having no digital output terminal may be connected to the input terminal of either "Component", "S-VIDEO", or "Video" to receive analogue signals.
- The HDMI input terminal can be used with only the following image signals: 480i, 480p, 576i, 576p, 720p, 1080i and 1080p. Match the output setting of the digital equipment.
- For details of the applicable HDMI signals, see p. 39.

(*1): The HDMI logo is displayed on HDMI-compliant equipment.
(*2): Enquire at your local digital equipment retailer shop.

■ Summary of Control functions

Connecting with an HDMI cable to Panasonic equipment with VIERA Link function, you can control the equipment (p. 32). You can use VIERA Link and Q-Link functions together.

| Function | Connection | VIERA Link and Q-Link (HDMI) | VIERA Link only (HDMI) | Q-Link only (SCART) |
|---|------------|------------------------------|------------------------|---------------------|
| Easy playback | | ○ | ○ | ○ |
| Power on link | | ○ | ○ | ○ |
| Power off link | | ○ | ○ | ○ |
| Speaker control | | ○ (not via SCART) | ○ | - |
| Easy control only with VIERA remote control | | ○ (not via SCART) | ○ | - |
| Direct TV Recording | | ○ (not via HDMI) | - | ○ |
| Channel download | | ○ (not via HDMI) | - | ○ |

HDMI Functions

VIERA Link "HDAVI Control"™*

*Enjoy additional HDMI Inter-Operability with Panasonic products which have "HDAVI Control" function. This TV supports "HDAVI Control 2" function.

Connections to some Panasonic equipment (DVD Recorder DIGA, HD Video Camera, Player theatre, Amplifier, etc.) with HDMI cables allow you to interface them automatically.

The equipment with "HDAVI Control" function enables the following operations:

- Easy playback (p. 33)
- Power on link (p. 33)
- Power off link (p. 33)
- Speaker control (p. 33)

In addition, the equipment with "HDAVI Control 2" function enables the following operation:

- Easy control only with VIERA remote control (p. 33)

These features are limited to models incorporating Panasonic's "HDAVI Control" and "VIERA Link". VIERA Link "HDAVI Control", based on the control functions provided by HDMI which is an industry standard known as HDMI CEC (Consumer Electronics Control), is a unique function that we have developed and added. As such, its operation with other manufacturers' equipment that supports HDMI CEC cannot be guaranteed.

Refer to individual manuals for compatibility information. About applicable equipment, consult your local Panasonic dealer.

■ HDMI cable

This function needs an HDMI compliant (fully wired) cable. Non-HDMI-compliant cables cannot be utilized.

It is recommended that you use Panasonic's HDMI cable. Recommended part number:

- RP-CDHG15 (1.5 m)
- RP-CDHG30 (3.0 m)
- RP-CDHG50 (5.0 m)

■ Preparations

Setup the equipment to enable this function. Read the manuals of the equipment.

About connections, see "External Equipment" (p. 35). Read the manuals of the equipment too.

■ For the first time / When adding new equipment, reconnecting equipment or changing setup

After connection turn the equipment on and then switch the TV on.

Select the input mode to HDMI1, HDMI2 or HDMI3 (p. 14), and make sure that an image is displayed correctly.

1 Display the menu
Press the MENU button.

2 Select "Setup"
Use the directional keys to navigate to Setup in the VIERA Main Menu.

3 Select "VIERA Link"
Use the directional keys to navigate to VIERA Link in the Setup Menu.

4 Set to "On" (default is On)
Use the directional keys to set VIERA Link to On.

Easy control only with VIERA remote control

You can control some functions of the connected Panasonic equipment with this TV remote control (point the remote control at the TV's signal receiver).

- If you cannot access the menu, check the settings and the equipment (p. 32).

Access the menu of the equipment

- 1 Display "VIERA Link Menu" →
- 2 Select "VIERA Link Control" →
- 3 Select the equipment you want to access →
- 4 Operate the menu of the equipment →

① Display "VIERA Link Menu" →

② Select "VIERA Link Control"

select

③ Select the equipment you want to access

① select

② access

- 4 Operate the menu of the equipment →

- Example:

| DVD Recorder DIGA | HD Video Camera | Player theatre |
|-------------------|-----------------|----------------|
| | | |

- About the operations for the equipment, read the manual of the equipment.

- Available VIERA remote control buttons: (depending on the connected equipment)

| | |
|--|--|
| | Move the cursor / select the menu |
| | Move the cursor / access / adjust |
| | Store / Set / Access |
| | Return to the previous menu |
| | Exit the menu |
| | The same functions with the OPTION button of the equipment |
| | Access when the key words are displayed on colour bar |

Easy playback

Automatic Input switching-When the connected Panasonic equipment is operated, input mode is switched automatically. When it is stopped operating, input mode is returned.

Power on link

When the connected Panasonic equipment starts playback or direct navigator / function menu for the equipment are activated, the TV is automatically turned on. (Only when TV is in Standby mode.)

Power off link

When TV is set to Standby mode, the connected Panasonic equipment is also automatically set to Standby.
● This function will work even if the TV enters standby mode automatically by Off Timer function or auto power standby function.

Speaker control

You can control the theatre speaker with TV's remote control. This function is available when Panasonic Amplifier or Player theatre is connected.

- If you cannot access the menu, check the settings and the equipment (p. 32).

- 1 Display "VIERA Link Menu" →
- 2 Select "Speaker Selection" →
- 3 Set to "Home Cinema" or "TV" →

② Select "Speaker Selection"

select

③ Set to "Home Cinema" or "TV"

set

■ Home Cinema

Adjustment for equipment (automatically turned on if it is in Standby mode).

Volume up / down →

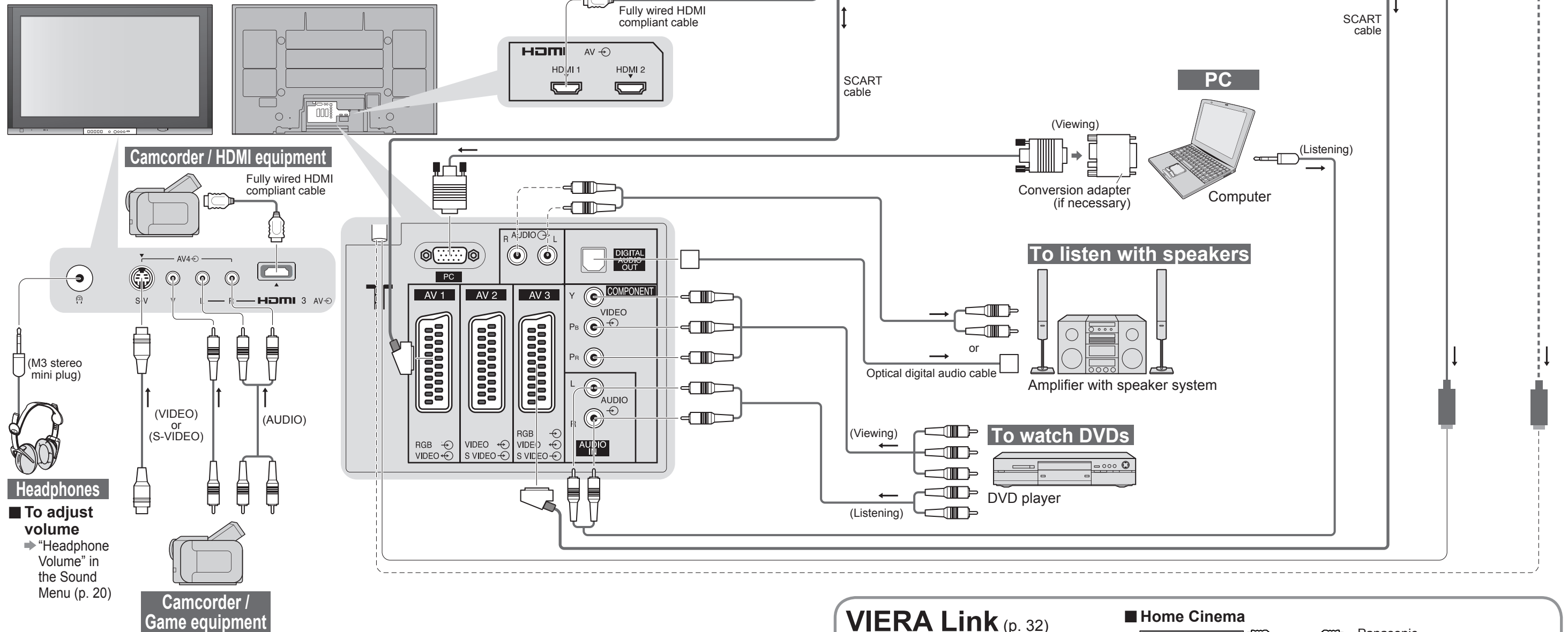
Mute →

- The sound of TV speakers is mute.
- When the equipment is turned off, TV speakers will be active.

■ TV
TV speakers are active.

External Equipment

These diagrams show our recommendations for how to connect the TV to your various equipment. For other connections, consult the instructions for each piece of equipment, the table below, and the specifications (p. 43).



Types of connectable equipment to each connector

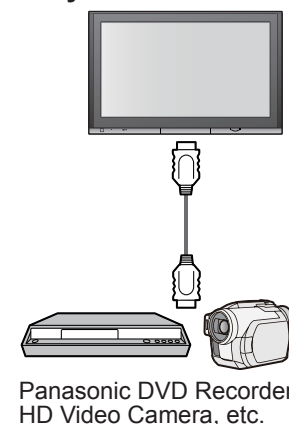
| Connector | AV1 | AV2 | AV3 | AV4 (Front of TV) | COMPONENT | DIGITAL AUDIO OUT | HDMI | | | |
|---|-----|-----|-----|----------------------|-------------------------|-------------------|------|---|---|--|
| | | | | | Y Pb Pr L R | | 1 | 2 | 3 | |
| Recording / Playback (equipment) | | | | | | | | | | |
| ■ To record / playback videocassettes / DVDs (VCR / DVD recorder) | ○ | ○ | ○ | | | | | | | |
| ■ To watch DVDs (DVD player) | ○ | ○ | ○ | ○ | ○ | | ○ | ○ | ○ | |
| ■ To watch camcorder images (Video camera) | ○ | ○ | ○ | ○ | | | ○ | ○ | ○ | |
| ■ To watch satellite broadcasts (Set top box) | ○ | | ○ | ○ | | | ○ | ○ | ○ | |
| ■ To play games (Game equipment) | ○ | | ○ | ○ | | | | | | |
| ■ To use amplifier with speaker system | | | | | | ○ | | | | |
| ■ Q-Link | | ○ | ○ | | | | | | | |
| ■ Direct TV Recording | | ○ | ○ | | | | | | | |
| ■ VIERA Link | | | | | | | ○ | ○ | ○ | |

○: Recommended Connection

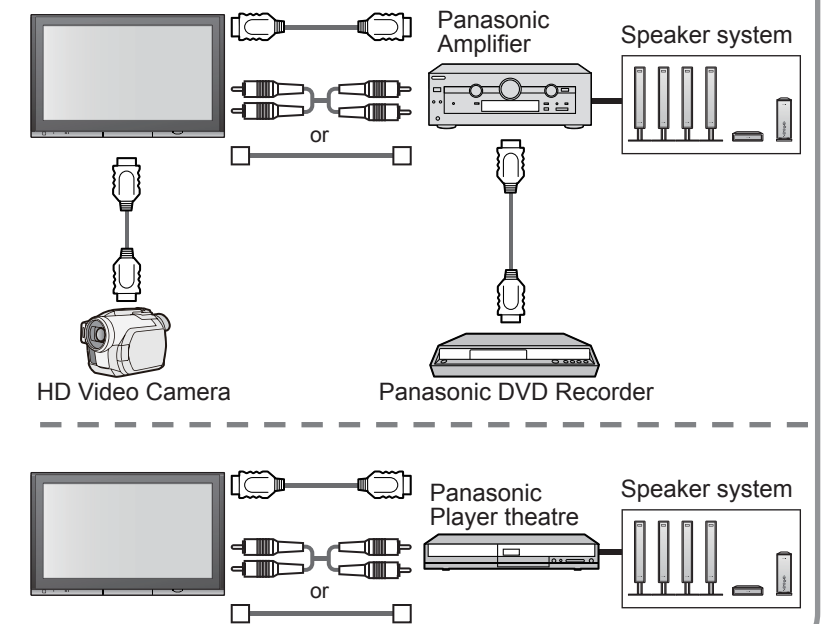
VIERA Link (p. 32)

- Use fully wired HDMI compliant cable.
- Read the manuals of the equipment too.

Easy playback, Easy control only with VIERA remote control



Home Cinema



Technical Information

Data format for Card browsing

- Photo : Still images recorded with digital still cameras compatible with JPEG files of DCF* and EXIF standards
- Data format : Baseline JPEG (Sub-sampling 4:4:4, 4:2:2 or 4:2:0)
- Max. number of files : 9,999
- Image resolution : 160 × 120 to 10,000,000
- Compliant card type (maximum capacity): SDHC Card (4 GB), SD Card (2 GB), Multi Media Card (128 MB), miniSD Card (1 GB) (requiring miniSD adapter)
 - If miniSD Card is used, insert / remove it together with the adapter.
 - Check the latest information on the card type at the following website. (English only)
http://panasonic.co.jp/pavc/global/cs/

*DCF (Design rule for camera file system): Unified standard established by Japan Electronics and Information Technology Industries Association (JEITA).

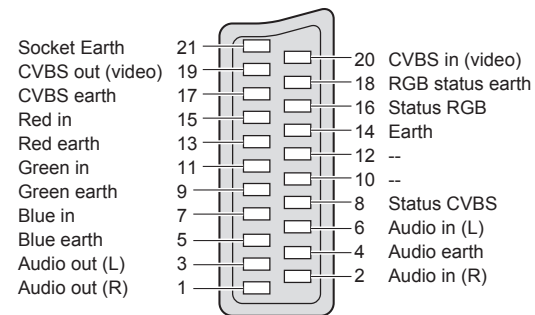
Note

- A JPEG image modified with a PC may not be displayed.
- Images imported from a PC must be compatible with EXIF (Exchangeable Image File) 2.0, 2.1, and 2.2.
- Partly degraded files might be displayed at a reduced resolution.
- Only ".JPG" extension can be read by this TV.
- The folder and file names may be different depending on the digital camera used.
- Do not use two-byte characters or other special codes.
- The card may become unusable with this TV if file or folder names are changed.

SCART, S-VIDEO and HDMI terminal information

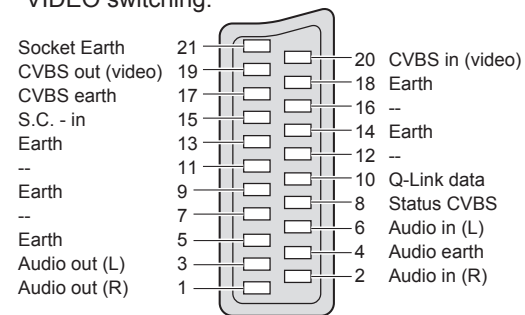
AV1 SCART terminal (RGB, VIDEO)

Suitable inputs for AV1 include RGB (Red / Green / Blue).



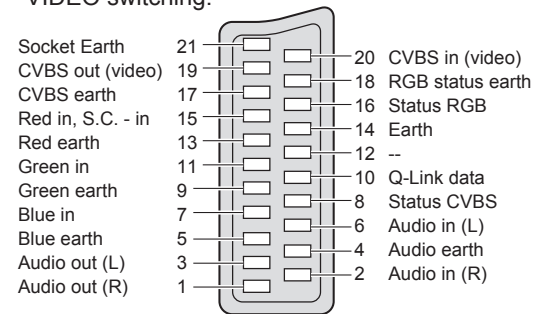
AV2 SCART terminal (VIDEO, S-VIDEO, Q-Link)

AV2 - Pins 15 and 20 are dependent on AV2 S-VHS / VIDEO switching.

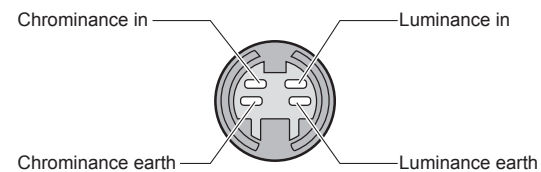


AV3 SCART terminal (RGB, VIDEO, S-VIDEO, Q-Link)

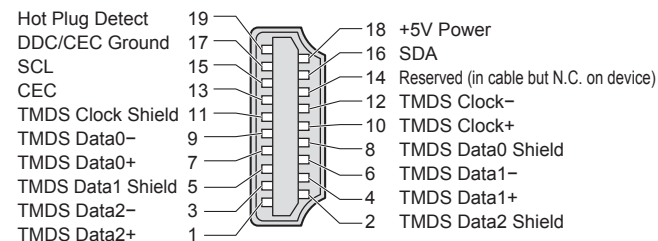
AV3 - Pins 15 and 20 are dependent on AV3 S-VHS / VIDEO switching.



AV4 S-VIDEO 4 pin terminal



HDMI terminal



PC connection

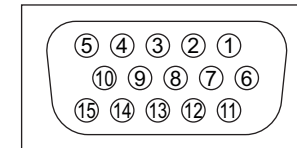
- A PC may be connected to this TV so that the PC screen is displayed and sound is heard from the TV.
- PC signals that can be inputted: Horizontal scanning frequency 31 to 69 kHz; vertical scanning frequency 59 to 86 Hz (more than 1,024 signal lines could result in incorrect display of the image).
 - A PC adapter is not necessary for the DOS/V-compliant D-sub 15-pin connector.

Note

- Some PC models cannot be connected to this TV.
- When using PC, set the colour display quality of PC to the highest position.
- For details of the applicable PC signals, see below.
- Max. display resolution

| Aspect | Model No. | TH-42PV700P | TH-50PV700P |
|--------|-----------|--------------------|--------------------|
| 4:3 | | 768 × 768 pixels | 1,024 × 768 pixels |
| 16:9 | | 1,024 × 768 pixels | 1,366 × 768 pixels |

D-sub 15-pin connector signal



| Pin No. | Signal Name | Pin No. | Signal Name | Pin No. | Signal Name |
|---------|--------------------|---------|--------------------|---------|--------------------|
| ① | R | ⑥ | GND (Ground) | ⑪ | NC (not connected) |
| ② | G | ⑦ | GND (Ground) | ⑫ | NC (not connected) |
| ③ | B | ⑧ | GND (Ground) | ⑬ | HD |
| ④ | NC (not connected) | ⑨ | NC (not connected) | ⑭ | VD |
| ⑤ | GND (Ground) | ⑩ | GND (Ground) | ⑮ | NC (not connected) |

Input signal that can be displayed

COMPONENT (Y, P_B, P_R), HDMI

* Mark: Applicable input signal

| Signal name | COMPONENT | HDMI |
|---------------------|-----------|------|
| 525 (480) / 60i | * | * |
| 525 (480) / 60p | * | * |
| 625 (576) / 50i | * | * |
| 625 (576) / 50p | * | * |
| 750 (720) / 60p | * | * |
| 750 (720) / 50p | * | * |
| 1,125 (1,080) / 60i | * | * |
| 1,125 (1,080) / 50i | * | * |
| 1,125 (1,080) / 60p | * | * |
| 1,125 (1,080) / 50p | * | * |

PC (D-sub 15P)

| Signal name | Horizontal frequency (kHz) | Vertical frequency (Hz) |
|----------------------------|----------------------------|-------------------------|
| 640 × 400 @70 Hz | 31.47 | 70.07 |
| 640 × 480 @60 Hz | 31.47 | 59.94 |
| 640 × 480 @75 Hz | 37.50 | 75.00 |
| 800 × 600 @60 Hz | 37.88 | 60.32 |
| 800 × 600 @75 Hz | 46.88 | 75.00 |
| 800 × 600 @85 Hz | 53.67 | 85.06 |
| 852 × 480 @60 Hz | 31.44 | 59.89 |
| 1,024 × 768 @60 Hz | 48.36 | 60.00 |
| 1,024 × 768 @70 Hz | 56.48 | 70.07 |
| 1,024 × 768 @75 Hz | 60.02 | 75.03 |
| 1,024 × 768 @85 Hz | 68.68 | 85.00 |
| 1,280 × 1,024 @60 Hz | 63.98 | 60.02 |
| 1,366 × 768 @60 Hz | 48.39 | 60.04 |
| Macintosh13" (640 × 480) | 35.00 | 66.67 |
| Macintosh16" (832 × 624) | 49.73 | 74.55 |
| Macintosh21" (1,152 × 870) | 68.68 | 75.06 |

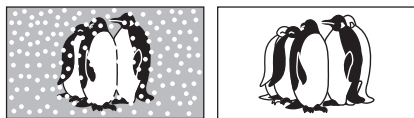
Note

- Signals other than above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.
- Applicable input signal for PC is basically compatible to VESA standard timing.
- PC signal is magnified or compressed for display, so that it may not be possible to show fine detail with sufficient clarity.

FAQs

Before requesting service or assistance, please follow these simple guides to resolve the problem. If problem still persists, please contact your local Panasonic dealer for assistance.

White spots or shadow images (noise)



- Check the position, direction, and connection of the aerial.

Neither image nor sound is produced

- Is the TV in "AV mode"?
- Is the mains lead plugged into the socket outlet?
- Is the TV turned On?
- Check Picture Menu (p. 20) and volume.
- Check all required SCART cables and connections are firmly in place.

Auto aspect

- Auto aspect is designed to provide you with the best aspect ratio to use to fill your screen. For user control please see p. 36.

S-Video / black and white picture

- Using AV button please confirm your selection is S-Video i.e. AV2/AV2S (p. 14).

On Screen messages - i.e. EC/AV1

- You can simply clear these by pressing the **i** button. Press again to redisplay.

Direct TV record / Q-Link functions not recording

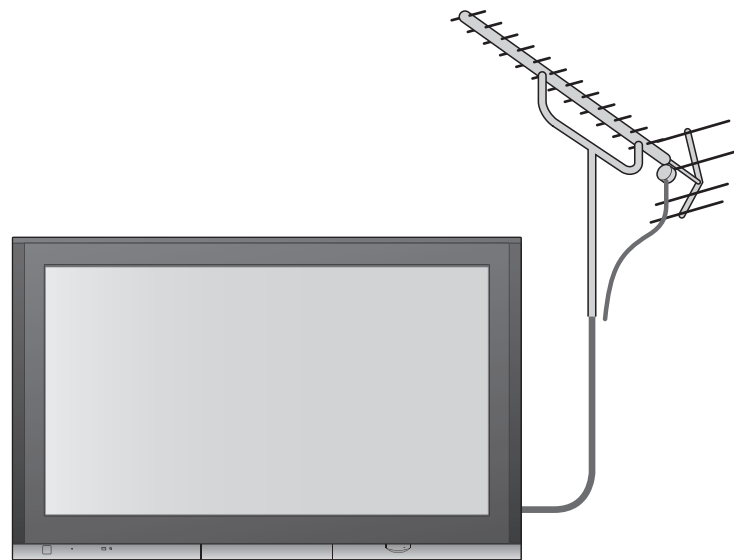
- Please confirm SCART cable and connection. Also please set "AV2 / AV3 out" in the Setup Menu (p. 21).

Permanently lit spots on screen

- Due to production process involved in this technology this may result in some pixels which are permanently lit or unlit. This is not a malfunction.

Contrast is reduced

- Contrast is lowered when the following conditions without any user operation for a few minutes:
 - no signal in AV mode
 - selected locked channel
 - selected invalid channel
 - displayed menu



| | Problem | Actions |
|--------|---|--|
| Screen | Chaotic image, noisy | <ul style="list-style-type: none"> ● Set "P-NR" in the Picture Menu (to remove noise). (p. 20) ● Check nearby electrical products (car, motorcycle, fluorescent lamp). |
| | No image can be displayed | <ul style="list-style-type: none"> ● Is "Colour" or "Contrast" in the Picture Menu set to the minimum? (p. 20) ● Check Colour system. (p. 23) |
| | Blurry or distorted image (no sound or low volume) | <ul style="list-style-type: none"> ● Reset channels. (p. 22) |
| | Unusual image is displayed | <ul style="list-style-type: none"> ● Turn off the TV with Mains power On / Off switch, then turn it on again. |
| Sound | No sound is produced | <ul style="list-style-type: none"> ● Is "Sound mute" active? (p. 7) ● Is the volume set to the minimum? |
| | Sound level is low or sound is distorted | <ul style="list-style-type: none"> ● Sound signal reception may be deteriorated. ● Set "MPX" (p. 20) in the Sound Menu to "Mono". ● Check Sound system. (p. 23) |
| | Sound is unusual | <ul style="list-style-type: none"> ● Set the sound setting of the connected equipment to "2ch L.PCM". ● Check the "HDMI1 / 3 Input" setting in the Sound Menu. (p. 20) ● If digital sound connection has a problem, select analogue sound connection. (p. 31) |
| HDMI | Pictures from external equipment are unusual when the equipment is connected via HDMI | <ul style="list-style-type: none"> ● Is the HDMI cable connected properly? (p. 34) ● Turn Off the TV and equipment, then turn them On again. ● Check an input signal from the equipment. (p. 39) ● Use an equipment compliant with EIA/CEA-861/861B. |
| Other | TV goes into "Standby mode" | <ul style="list-style-type: none"> ● Off Timer function is activated. ● The TV enters "Standby mode" about 30 min. after broadcasting ends. |
| | The remote control does not work | <ul style="list-style-type: none"> ● Are the batteries installed correctly? (p. 6) ● Has the TV been switched On? |
| | An error message appears | <ul style="list-style-type: none"> ● Follow the message's instructions. ● If the problem persists, contact the authorized Service Centre. |

