



Panasonic®

Operating Instructions Plasma Television

Model No. **TX-P37C10E**
TX-P37C10ES
TX-P42C10E
TX-P42C10ES
TX-P50C10E

VIERA

VIERA
Link



VIERA
IMAGE VIEWER



DVB®



HD
ready

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

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.

Please refer to Pan European Guarantee Card if you need to contact your local Panasonic dealer for assistance.

English



TQB0E0824U

Turn your own living room into a movie theatre!

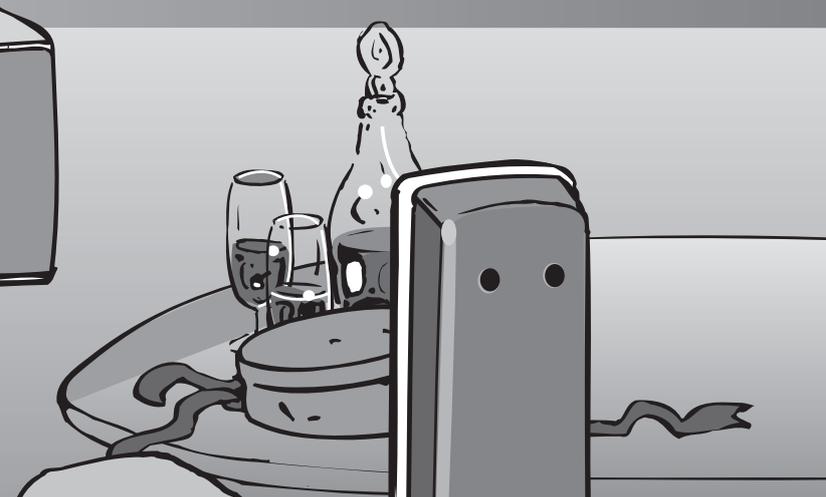
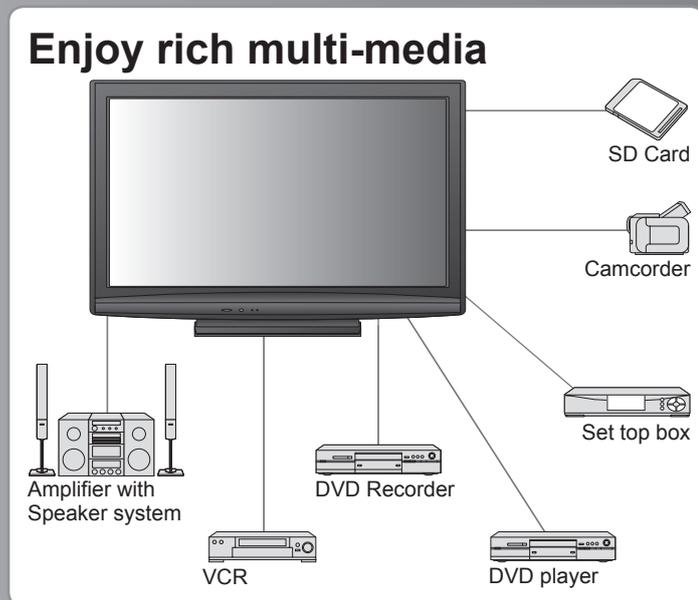
Experience an amazing level of multi-



Notice for DVB functions

- Any functions related to DVB (Digital Video Broadcasting) will work in areas where DVB-T (MPEG2) digital terrestrial broadcasting are received. Consult your local dealer with coverage areas.
- DVB functions may not be available in some countries.
- Some functions may not be available in some countries.
- This TV has the capability for DVB specifications. But future DVB services cannot be guaranteed.

media excitement



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Enjoy your TV!

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Up to 100,000 hours Plasma Panel Lifetime

The Plasma display panel used in the 2009 VIERA TV range is rated for up to 100,000 hours.*

*This measurement is based on the time taken for the brightness of the panel to reduce to half of its maximum level.

The time taken to reach this level may vary depending on the image content and the environment where the TV is used.

Image retention and malfunctions are not taken into account.

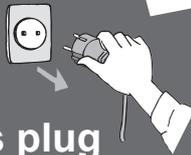
Safety Precautions

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 earth 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



Power source

- This TV is designed to operate on 220-240 V, 50 / 60 Hz AC.

Do not remove covers NEVER modify the TV yourself

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

- Do not remove the rear cover as live parts are accessible when it is removed. There are no user serviceable parts inside.
- Have the TV checked, adjusted, or repaired at your local Panasonic dealer.

Do not expose to rain or excessive moisture

- To prevent damage which might result in electric shock or fire, do not expose this TV to rain or excessive moisture. This TV must not be exposed to dripping or splashing water and objects filled with liquid, such as vases, must not be placed on top of or above the TV.

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 allow any objects to 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 pedestals / mounting equipment

- Using an unapproved pedestal or other fixtures may make the TV unstable, risking injury. Be sure to ask your local Panasonic dealer to perform setup.
- Use approved pedestals / 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 the TV is not going to be used for a long period of time, remove the mains plug

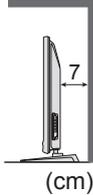
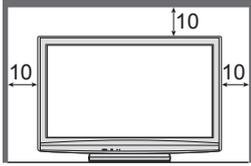
- This TV will still consume some power even in the Off mode, as long as the mains plug is still connected to a live socket outlet.

■ 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



- When using the pedestal, keep the space between the bottom of the TV and the surface where the TV is set.
- In case of using Wall-hanging bracket, follow the manual of it.

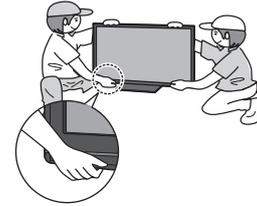
■ Do not block the rear air vents

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

■ Do not expose your ears to excessive volume from the headphones

- Irreversible damage can be caused.

■ The TV is heavy. Handle the TV by 2 or more people. Support as shown to avoid injury by the TV tipping or falling.



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. 59)

■ Auto power standby function

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

■ Keep the TV away from these types of 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 (1 part detergent to 100 parts water). Then, using a soft dry cloth, evenly wipe the surface clean until it is dry.

Caution

- Do not tap or scratch the surface with your fingernail or other hard object.
- Take care not to subject the surface to insect repellent, solvent, thinner, or other volatile substances (this may degrade surface quality).

Cabinet, Pedestal

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

- Take care not to subject the TV's surfaces to detergent (a liquid inside the TV could lead to product failure).
- Take care not to subject surfaces to insect repellent, solvent, thinner, or other volatile substances (this may deteriorate the surface by peeling the paint).
- Do not allow the cabinet and pedestal 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

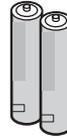
Standard accessories

Check that you have the accessories and items shown

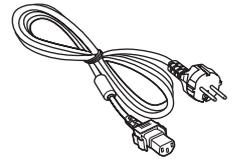
- Remote Control
- N2QAYB000328



- Batteries for the Remote Control (2)
- R6 (UM3)



- Mains Lead
- ➔ p. 11



- Operating Instructions

- Cleaning cloth
- (TX-P37C10E)
- (TX-P42C10E)
- (TX-P50C10E)



- Pedestal
- ➔ p. 7

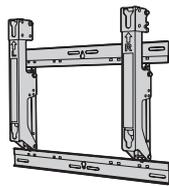


- Pan European Guarantee Card

- This product contains possibly dangerous parts (such as plastic bags), that can be breathed in or swallowed by young children accidentally. Keep these parts out of reach of young children.

Optional accessories

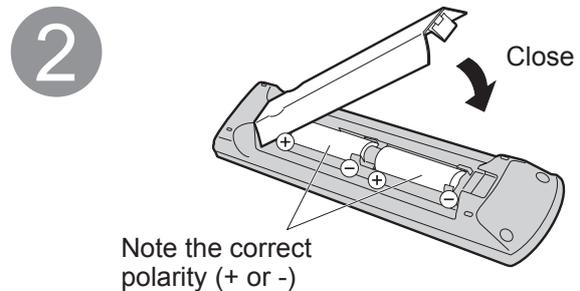
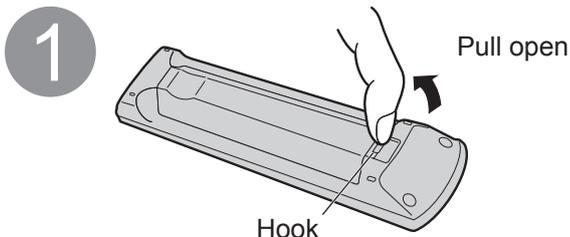
- Wall-hanging bracket
- TY-WK4P1RW



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 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.
- Take care when fixing wall brackets to the wall. Always ensure that there are no electrical cables or pipes in the wall before hanging bracket.
- To prevent fall and injury, remove the TV from its fixed wall position when it is no longer in use.

Installing / removing 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.
- Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

Attaching the pedestal

Warning

Do not disassemble or modify the pedestal.

- Otherwise the TV may fall over and become damaged, and personal injury may result.

Caution

Do not use any other TV and displays.

- Otherwise the TV may fall over and become damaged, and personal injury may result.

Do not use the pedestal if it becomes warped or physically damaged.

- If you use the pedestal while it is physically damaged, personal injury may result. Contact your nearest Panasonic dealer immediately.

During set-up, make sure that all screws are securely tightened.

- If insufficient care is taken to ensure screws are properly tightened during assembly, the pedestal will not be strong enough to support the TV, and it might fall over and become damaged, and personal injury may result.

Ensure that the TV does not fall over.

- If the TV is knocked over or children climb onto the pedestal with the TV installed, the TV may fall over and personal injury may result.

Two or more people are required to install and remove the TV.

- If two or more people are not present, the TV may be dropped, and personal injury may result.

Ⓐ Assembly screw (4)
(silver)

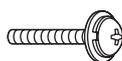
- XYN5+F18FN



M5 × 18

Ⓑ Assembly screw (4)
(black)

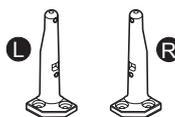
- THEL061N
(TX-P37C10E, TX-P42C10E,
TX-P37C10ES, TX-P42C10ES)
- THEL060N
(TX-P50C10E)



M5 × 25

Ⓒ Pole (2)

- R : TBLA3685
- L : TBLA3686
(TX-P37C10E, TX-P42C10E,
TX-P37C10ES, TX-P42C10ES)
- R : TBLA3679
- L : TBLA3680
(TX-P50C10E)



Ⓓ Base

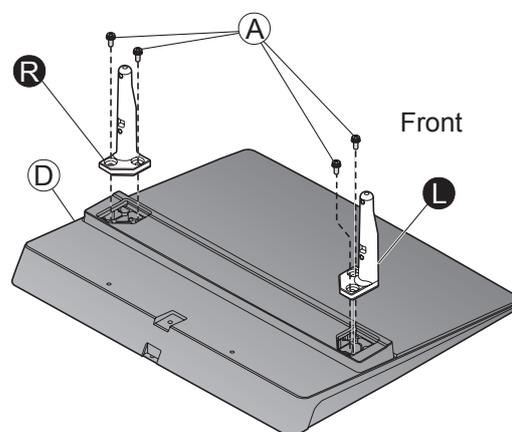
- TBLX0096
(TX-P37C10E
TX-P42C10E)
- TBLX0127
(TX-P37C10ES
TX-P42C10ES)
- TBLX0089
(TX-P50C10E)



Assembling the pedestal

Use the four assembly screws Ⓐ to fasten the left and right poles to the base securely.

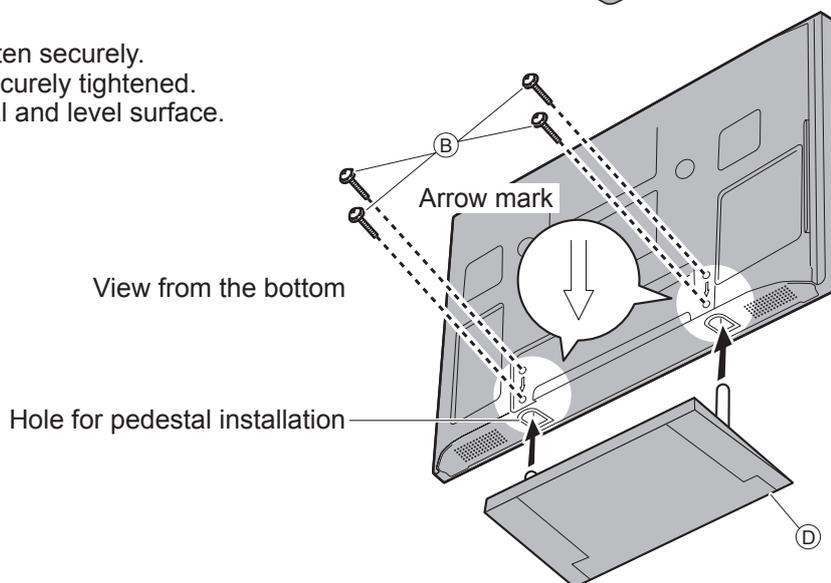
- Make sure that the screws are securely tightened.
- Forcing the assembly screws the wrong way will strip the threads.
- "L" or "R" mark is stamped on the bottom of the pole.



Securing the TV

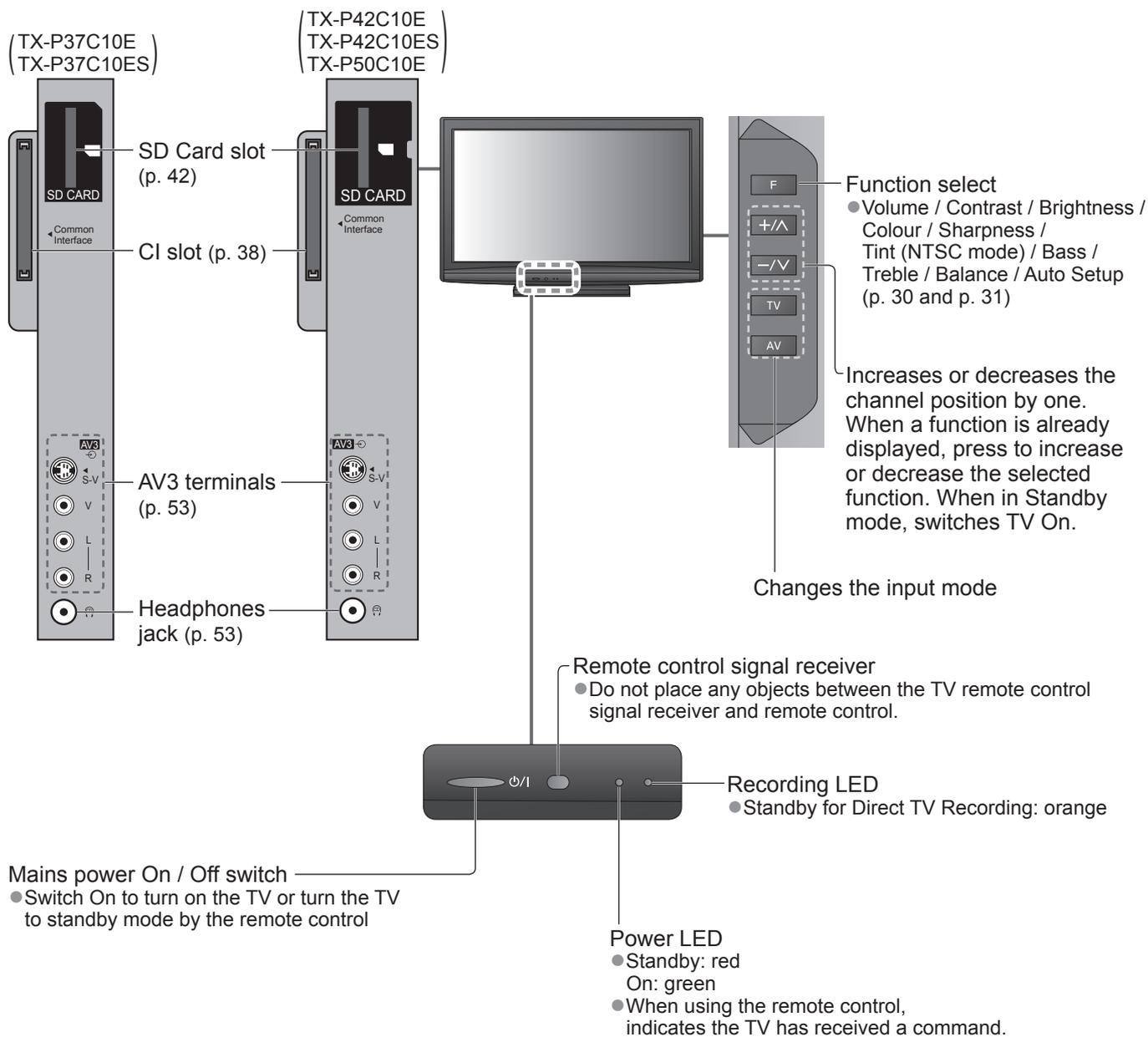
Use the assembly screws Ⓑ to fasten securely.

- Make sure that the screws are securely tightened.
- Carry out the work on a horizontal and level surface.



Identifying Controls

TV



Remote Control

VIERA IMAGE VIEWER (p. 42)

- Switches to SD Card viewing mode

Standby On / Off switch

- Switches TV On or Off standby

Aspect (p. 16)

- Changes aspect ratio from Aspect Selection list
- Also possible by pressing this button repeatedly until you reach the desired aspect

Main Menu (p. 24)

- Press to access Picture, Sound and Setup Menus

Channel / Programme Information (p. 15)

- Displays channel and programme information

VIERA Link Menu (p. 48)

- Accesses VIERA Link Menu

OK

- Confirms selections and choices
- Press after selecting channel positions to quickly change channel

Option Menu (p. 17)

- Easy setting for viewing and sound options

Coloured buttons

- Used for the selection, navigation and operation of various functions

Teletext (p. 20)

- Switches to teletext mode

Subtitles (p. 16)

- Displays subtitles

Numeric buttons

- Changes channel and teletext pages
- Sets characters
- When in Standby mode, switches TV On

Sound Mute

- Switches sound mute On or Off

Volume Up / Down

Input mode selection

- TV - switches DVB-T / Analogue mode (p. 14)
- AV - switches to AV input mode from Input Selection list (p. 22)

Direct TV Recording (p. 46 and p. 48)

- Records programme immediately in DVD Recorder / VCR with Q-Link or VIERA Link connection

Normalise (p. 24)

- Resets picture and sound settings to their default levels

Exit

- Returns to the normal viewing screen

VIERA TOOLS (p. 41)

- Displays some special feature icons and accesses easily

Guide (p. 18)

- Displays TV Guide

Cursor buttons

- Makes selections and adjustments

Return

- Returns to the previous menu / page

Hold

- Freeze / unfreeze picture (p. 15)
- Holds the current teletext page (teletext mode) (p. 20)

Index (p. 21)

- Returns to the teletext index page (teletext mode)

Surround (p. 27)

- Switches Surround sound

Channel Up / Down

- Selects channel in sequence

Connected equipment operations (p. 23 and p. 50)

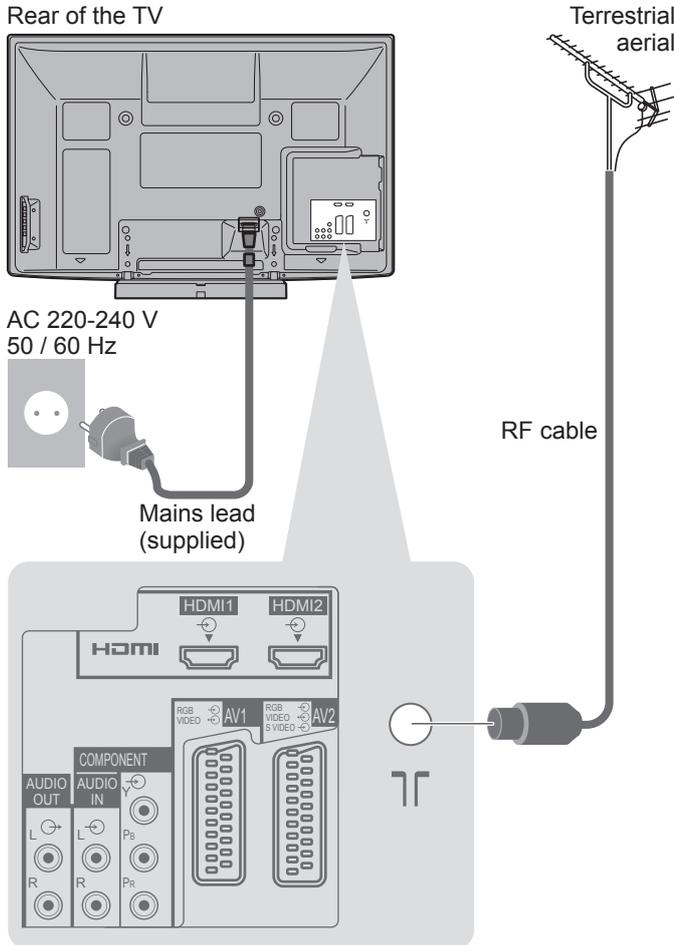


Basic Connection

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.

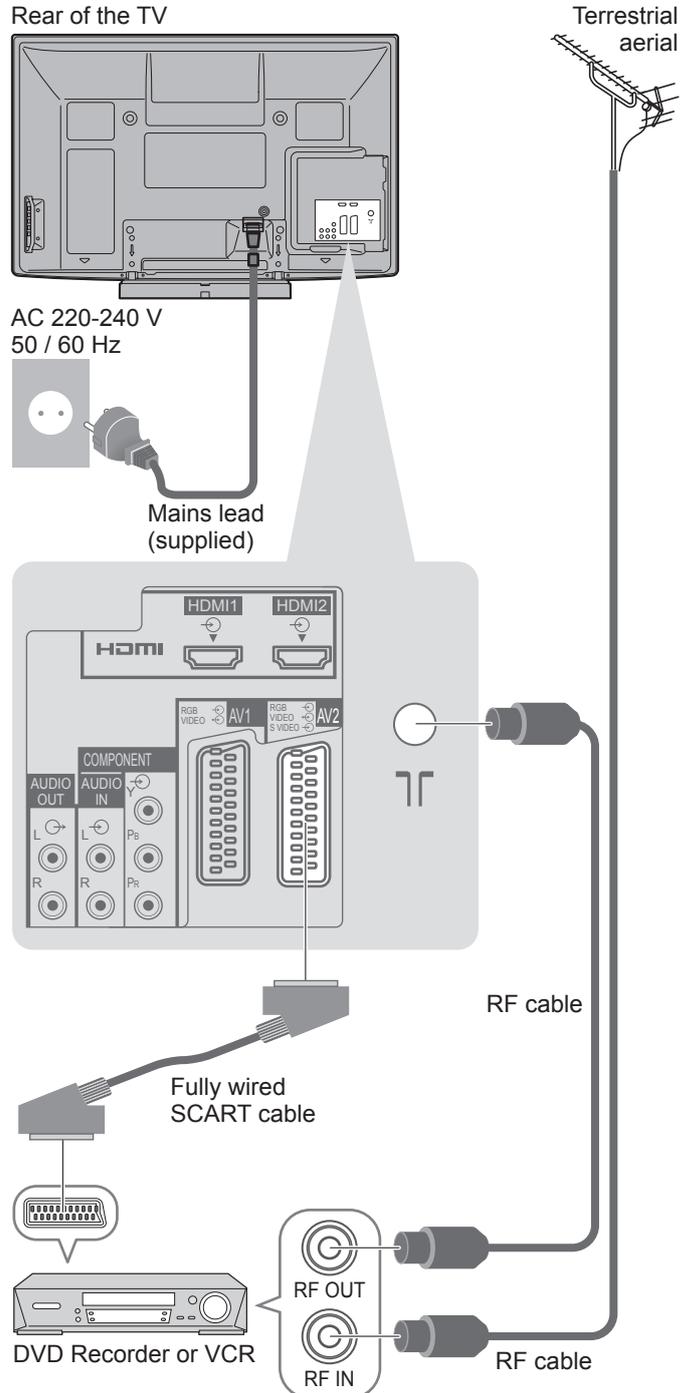
Example 1 Connecting aerial

TV only



Example 2 Connecting DVD Recorder / VCR

TV, DVD Recorder or VCR



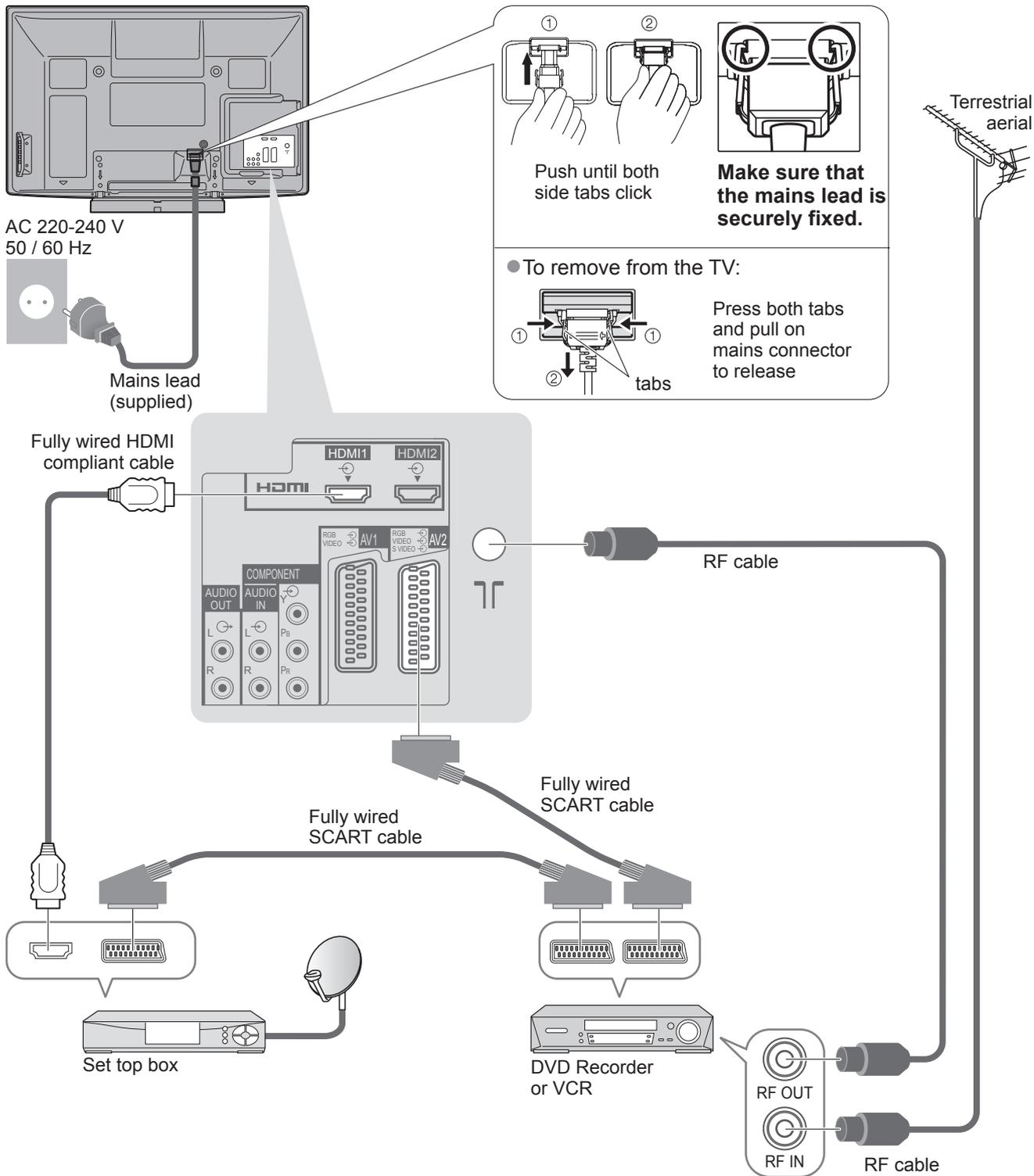
Note

- Connect to the TV's AV1 / AV2 for a DVD Recorder / VCR supporting Q-Link (p. 46).
- For HDMI-compatible equipment, possible to connect to HDMI terminals (HDMI1 / HDMI2) by using HDMI cable (p. 52).
- Q-Link connection → p. 44
- VIERA Link connection → p. 44 and p. 45
- Read the manual of the equipment too.

Example 3 Connecting DVD Recorder / VCR and Set top box

TV, DVD Recorder / VCR and Set top box

Rear of the TV



Auto Setup

Search and store TV channels automatically.

- These steps are not necessary if the setup has been completed by your local dealer.
- Please complete connections (p. 10 and p. 11) and settings (if necessary) of the connected equipment before starting Auto Setup. For details of settings for the connected equipment, read the manual of the equipment.

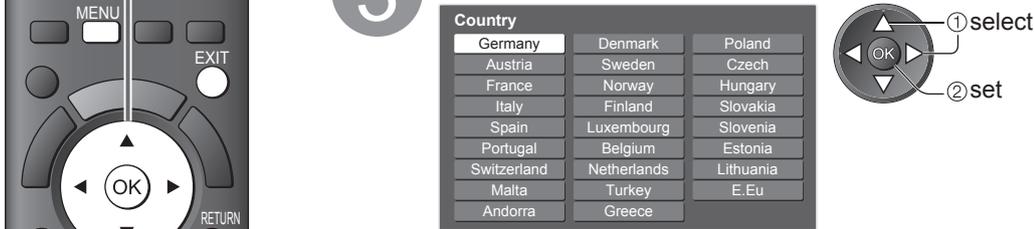
1 Plug the TV into mains socket and switch On (Takes a few seconds to be displayed)



2 Select the language

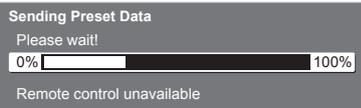


3 Select your country



Auto Setup starts

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



- If Q-Link, VIERA Link or similar technology (p. 46) compatible recorder is connected, channel, language, country / region settings are automatically downloaded to the recorder.
- If downloading has failed, you can download later by the menu item. ➔ "Download" (p. 28)

4 Select "Home"



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



- To check channel list at-a-glance ➔ "Using TV Guide" (p. 18 and p. 19)
- To edit channels ➔ "Tuning and Editing Channels" (p. 32 - 35)

Using the On Screen Displays

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

■ How to use remote control



Move the cursor / select the menu item



Move the cursor / adjust levels / select from a range of options



Access the menu / store settings after adjustments have been made or options have been set



Return to the previous menu



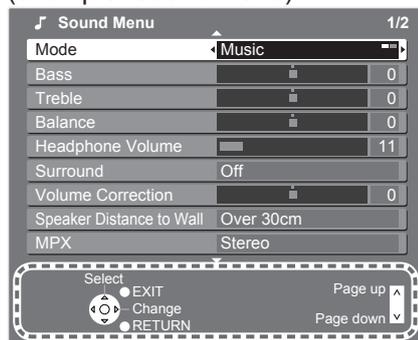
Open the main menu



Exit the menu system and return to the normal viewing screen

■ ON SCREEN HELP Instructions box - Operation guide

(example: Sound Menu)



Operation guide will help you.

Note

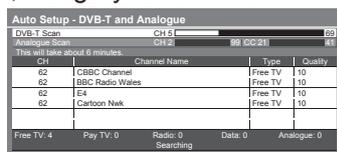
- If tuning has failed → “Auto Setup” (p. 30 and p. 31)
- To initialize all settings → “Shipping Condition” (p. 39)
- If you turned the TV Off during Standby mode last time, the TV will be in Standby mode when you turn the TV On with Mains power On / Off switch.

■ Auto Setup varies depending on the country you select

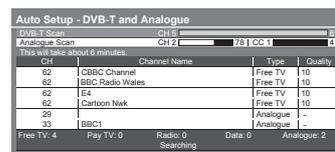
- Region Selection (if you select “Finland”)



- DVB-T Auto Setup (if you select a country except “Portugal”, “Poland”, “Hungary” and “E.Eu”)



- Analogue Auto Setup



■ If you select “Shop” by mistake

Return to viewing environment selection by pressing the RETURN button.

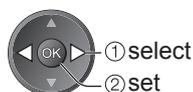


Select “Home”



Auto Setup is complete

- If you set to “Off” or “On” in this menu the TV will be in “Shop” viewing environment. To return to “Home” viewing environment initialise all settings by accessing Shipping Condition.



→ “Shipping Condition” (p. 39)

Watching TV



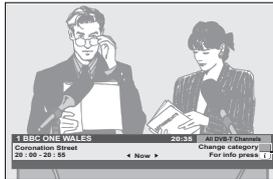
1 Turn power on
(Press for about 1 second)

- Mains power On / Off switch should be On. (p. 8)

2 Select the DVB-T or Analogue mode

TV

- The selectable modes vary depending on the country you select (p. 12).



Information banner appears whenever you select a channel

- For details → p. 15

- Also possible to select the mode pressing the TV button repeatedly on the remote control or side panel of the TV. (p. 8)

3 Select a channel

↑ up or 1 2 3
↓ down or 4 5 6
7 8 9
0

- To select a more than two-digit channel position number, e.g. 399
→ 3 → 9 → 9

- To select from the Channel List



Note

- To watch pay-TV
→ "Using Common Interface"
(p. 38)

■ Select a channel using Information banner (p. 15)
Possible to confirm the channel name and programme before changing channels.
Display Information banner if it is not displayed

While the banner is displayed, select the channel

① select channel
② watch

- Possible to set display timeout in "Banner Display Timeout" (p. 29).

■ Select a channel using TV Guide (p. 18)
Possible to confirm the TV Guide (EPG or Channel List) before changing channels.
● This function may not be available in some countries.

Display TV Guide → Select the channel

① select
② watch

Other useful functions

Hold

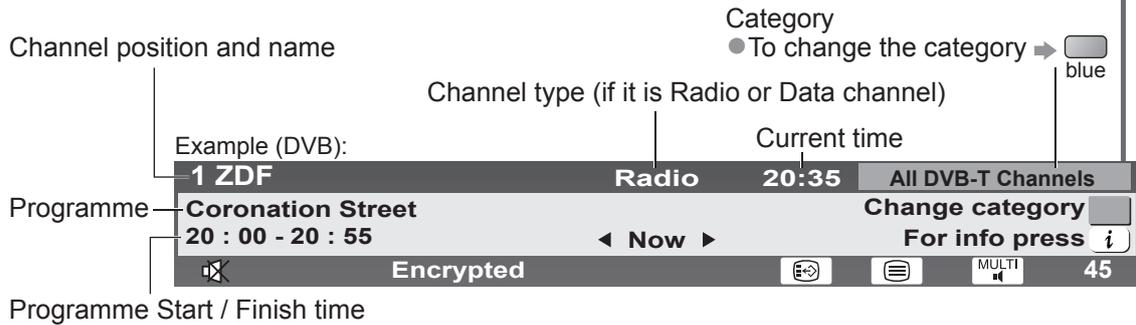
Freeze / unfreeze picture



Display Information banner

Display Information banner

● Also appears when changing a channel



Example (Analogue):



- To confirm another tuned channel name →
- To watch the channel listed in the banner →
- Information on the next programme (DVB) →
- To hide →
- Extra information (DVB) → (press again to hide the banner)
- To set display timeout → "Banner Display Timeout" (p. 29)

Features available / Message meanings

- Sound mute On
- Bad signal**
Poor TV signal quality
- Encrypted**
Scrambled programme
- Subtitle service available
- Teletext service available
- Multiple audio available
- Multiple video available
- Stereo, Mono**
Audio mode
- 1 - 90**
Off Timer remaining time
- For settings → p. 17

Watching TV

Other useful functions

Display subtitles

Display / hide subtitles (if available)

- To change the language for DVB (if available)
 - ➔ "Preferred Subtitles" (p. 29)



Note

- If you press the STTL button in Analogue mode, it switches to teletext service and calls up a favourite page (p. 21). Press the EXIT button to return to TV mode.

Aspect

Change the aspect ratio (image size)



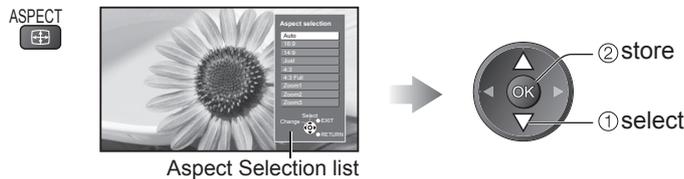
Enjoy viewing the image at its optimum size and aspect.

Normally programmes have the Aspect Control Signal (Widescreen signal, etc.), and the TV will choose the aspect ratio automatically according to the Aspect Control Signal (p. 54).

If you would like to change the aspect ratio manually

Display Aspect Selection list

While the list is displayed, select the mode



- To change the mode using the ASPECT button only
 - ➔ ASPECT (Press repeatedly until you reach the desired mode)

Auto



The best ratio is chosen and the image expanded to fill the screen.
For details ➔ p. 54

16:9



Directly displays the image at 16:9 without distortion (anamorphic).

4:3 Full



Displays a 4:3 image enlarged horizontally to fit the screen.
● HD signal only

14:9



Displays the image at the standard 14:9 without distortion.

Zoom1



Displays a 16:9 letterbox or 4:3 image without distortion.

Just



Displays a 4:3 image full-screen. Stretching is only noticeable at the left and right edges.

Zoom2



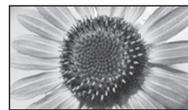
Displays a 16:9 letterbox (anamorphic) image full-screen without distortion.

4:3



Displays the image at the standard 4:3 without distortion.

Zoom3



Displays a 2.35:1 letterbox (anamorphic) image full-screen without distortion. At 16:9, displays the image at its maximum (with slight enlargement).

Note

- Only "16:9" and "4:3 Full" are available in HD channels.
- Not available when the subtitle function is active.
- Not available in teletext service.
- Aspect mode can be memorized separately for SD (Standard definition) and HD (High definition) signals.

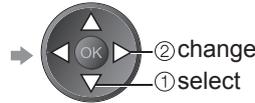
■ Other useful functions

Display the selectable settings for the current programme

Check or change the current programme status instantly



● To change



Multi Video (DVB mode)
Allows you to select the image (if available)

Multi Audio (DVB mode)
Allows you to select between alternative language for sound tracks (if available)

Sub Channel (DVB mode)
Allows you to select the multifeed programme - sub channel (if available)

Subtitle Language (DVB mode)
Allows you to select the language in which subtitles should appear (if available)

Teletext Character Set
Sets the teletext language
➔ Setup Menu (p. 29)

Teletext Language (DVB mode)
Allows you to select between alternative language for teletext (if available)

MPX (Analogue mode)
➔ Sound Menu (p. 27)

Volume Correction
Adjusts volume of individual channel or input mode

Note

● Also possible to change the settings in Menu list (p. 26 - 29).

Off Timer

Turn the TV off automatically after a fixed period

Display the menu



Select "Setup"



Select "Off Timer" and set the time



- To cancel ➔ Set to "Off" or turn the TV off.
- To display the remaining time ➔ Information banner (p. 15)

Note

● When the remaining time is within 3 minutes, the remaining time will flash on the screen.

Using TV Guide

TV Guide—Electronic Programme Guide (EPG) provides an on-screen listing of the programmes currently broadcast and the forthcoming broadcasts over the next seven days (depending on the broadcasters).

- This function varies depending on the country you select (p. 12).
- DVB-T and Analogue channels are displayed on the same TV Guide screen.
Analogue channels will be listed after DVB-T channels but there will be no programme listings. “D” means DVB-T channel and “A” means Analogue channel.
- When this TV is turned on for the first time, or the TV is switched off for more than a week, it may take some time before the TV Guide is completely shown.



1 Select the mode
TV

2 View TV Guide
GUIDE

- To change the layout (Landscape / Portrait) view “Landscape” to see many channels view “Portrait” to see one channel at a time

TV Guide time: Example: Wed 24/10/2007 10:46

Current date and time: Wed 24th

TV Guide date: Wed 24th

Programme: All Types All Channels

| | | |
|----------------|---------------------|-------------------------------------|
| 1 BBC ONE | 20:00 - 20:30 | DIY SOS : We open in the Battersbys |
| D 1 BBC ONE | 20:00 | Eastender |
| D 7 BBC THREE | | Hot Wars |
| D 14 E4 | | Emmerdal, Coronation Street |
| D 70 BBC FOUR | 10 O'clock News BBC | Pepsi Char. Good bye |
| D 72 BBC 2W | Panorama | Spring watch |
| D 105 BBC1 | I'm A Celebrity | Pop Idol |
| D 719 BBC Radi | Rugby | 15 To 1 |

Advertisements: VIERSA

Navigation: Select channel, EXIT, Select programme, View, RETURN, +24 hours, -24 hours, Prog.Type, Category, Page up, Page down

Layout: Landscape (Displays by channel) Channel position and name

Example: TV Guide: Portrait

Wed 24/10/2007 10:46

Wed 24th

All Types All Channels

| | | | |
|-------------|---------------|----------|---------------|
| D 1 BBC ONE | D 7 BBC THREE | D 14 E4 | D 70 BBC FOUR |
| 19:30-20:00 | Eastender | | |
| 20:00-20:30 | DIY SOS | The Bill | Red Cap |
| 20:30-21:00 | The Bill | | |
| 21:00-22:00 | Red Cap | | |
| 22:30-23:00 | Live Junction | | |
| 23:00-23:30 | POP 100 | | |
| 23:00-00:00 | Rugby | | |

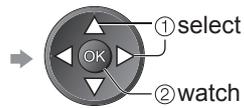
Navigation: Select programme, EXIT, Select channel, View, RETURN, +24 hours, -24 hours, Prog.Type, Category, Page up, Page down

Layout: Portrait (Displays by time)

■ To the previous day (DVB mode)
red

■ To the next day (DVB mode)
green

■ To watch the programme
Select the programme or channel



■ To view details of the programme (DVB mode)
Select the programme



■ To return to TV
EXIT

■ To view a channel list of the selected type (DVB mode)
yellow

Prog.Type: All Types (Type list)

| |
|-----------|
| All Types |
| Movie |
| News |
| ... |

Navigation: ① select type, ② view

■ To view a channel list of the selected category
blue

Category: All Channels (Category list)

| |
|-----------------------|
| All Channels |
| All DVB-T Channels |
| All Analogue Channels |
| Free Channels |
| Pay Channels |
| TV |
| Radio |
| Favourites1 |
| Favourites2 |
| Favourites3 |
| Favourites4 |

Navigation: ① select category, ② view

Only Analogue channels are listed

To list favourite channels → p. 33

■ **Depending on the country you select, this TV supports the GUIDE Plus+ system in DVB-T or Analogue mode**

The postcode entry or update is required. Follow the message's instructions.

- Also possible to setup manually from the Setup Menu
 - ➔ "Update" / "Postcode" in "GUIDE Plus+ Settings" (p. 29)
- Enter your postcode when using this function for the first time. If you enter an incorrect postcode for your area, or no postcodes are entered, advertisement may not be displayed correctly.

Display advertisement information

OPTION



- To change advertisements ➔



- To return to TV Guide ➔



- To display the latest advertisement ➔ "Update" in "GUIDE Plus+ Settings" (p. 29)

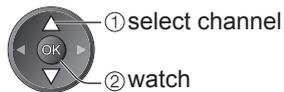
Note

- To update the information continuously, the TV must be left in Standby mode at night.

■ **Depending on the country you select, TV Guide may not be supported**

In this case, Channel List will appear.

| All Analogue Channels | |
|-----------------------|-----------------|
| 6 | Cartoon Nwk |
| 7 | BBC Radio Wales |
| 8 | BBC Radio Cymru |
| 1 | BBC ONE Wales |
| 2 | BBC THREE |
| 3 | BBCi |
| 4 | CBBC Channel |



Viewing Teletext

Teletext services are the text information provided by the broadcasters. The features may vary depending on the broadcasters.

What is FLOF (FASTTEXT) 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 TOP mode? (in case of TOP text broadcasting)

TOP is a particular improvement of the standard teletext service that results in an easier search and effective guide.

- Fast overview of the teletext information available
- Easy to use step-by-step selection of the topical subject
- Page status information at the bottom of the screen

Available page up / down →  
red green

To select among subject blocks → 
blue

To select next subject within the subject block
(After the last subject, it moves to the next subject block.) → 
yellow

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. 21)

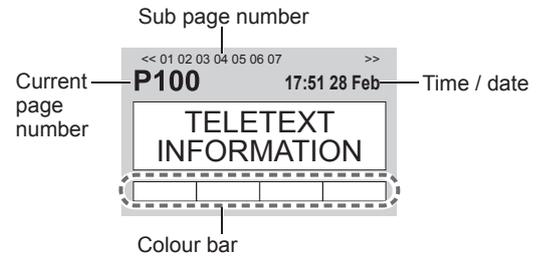
■ To change mode → "Teletext" in the Setup Menu (p. 29)



1 Switch to Teletext
 ● Displays the index page (content varies depending on the broadcasters)

2 Select the page
 or  up/down
 or  (Corresponds to the colour bar)

■ To adjust contrast →  (Press three times) → 
 ■ To return to TV → 



Reveal hidden data
 Reveal hidden words e.g. quiz page answers
 MENU →  ● To rehide → 

FULL / TOP / BOTTOM
 MENU →  (TOP) → (BOTTOM) → Normal (FULL)
 (Expand the TOP half) → (Expand the BOTTOM half)

HOLD
Stop automatic updating
 (If you wish to hold the current page without updating)
 HOLD →  ● To resume → 

INDEX

Return to the main index page



Call up a favourite page

View a favourite page stored



- Call up the page stored on the blue button (List mode).
- Factory setting is "P103".

View in multi window

Watch TV and Teletext in two windows at once



(press twice)



Select Picture and text On or Off



- Operations can be made only in Teletext screen.

Store frequently viewed pages

Store frequently viewed pages in the colour bar

(List mode only)

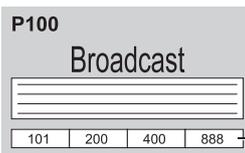
As page is displayed



Corresponding coloured button



press and hold



The number changes to white.

■ To change stored pages



Coloured button you want to change



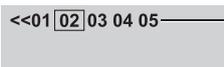
Enter new page number



press and hold

View sub page

View sub page (Only when teletext is more than one page)



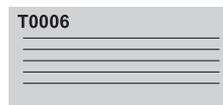
Appears at top of the screen

■ To view specific sub page



Enter the 4-digit number
example: P6

0 0 0 6



- 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

View the TV picture while searching for a teletext page

Teletext automatically updates itself when new information becomes available.



Changes to TV screen temporarily
Appears when updating is completed



View the updated page



(You cannot change the channel.)

- The news page provides a function that indicates arrival of latest news ("News Flash").

Watching External inputs

Connect the external equipment (VCRs, DVD equipment, etc.) and you can watch the input.

● To connect the equipment → p. 10, 11 and 52

The Remote Control is capable of operating some functions of selected external equipment.

1 Turn the TV on

- **When connecting with SCART as example 2 or 3** (p. 10 and p. 11)
 - 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. 52).
- **If input mode is not switched automatically**
 - Perform ② and ③
 - Check the setup of the equipment.

2 Display the Input select menu

AV

3 Select the input mode connected to the equipment

Input Selection

- AV1
- AV2/S
- AV3/S
- COMPONENT
- HDMI1
- HDMI2
- TV

- You can also select the input using the AV button on the remote control or the side panel of the TV. Press the button repeatedly until the desired input is selected.
- In order to switch between AV2/AV3 and AV2S/AV3S, move the indicator by pressing left and right cursor button.
- You can label or skip each input mode → “Input Labels” (p. 37)
Skipped inputs will not be displayed when the AV button is pressed.

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.

Operating the equipment with the TV remote control

The equipment connected to the TV can be directly operated with the below buttons of this TV remote control.

| | |
|---|--|
|  | 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 / Resume DVD: Press and hold to play at slow speed |
|  | Channel Up / Down Select channel |
|  | Record Start recording |

■ How to change the code for the type of the equipment

Each type of the Panasonic equipment has its own remote control code.
Please change the code according to the equipment you want to operate.
If you operate the connected equipment in VIERA Link (p. 50), select the code "73".

Press and hold  during the following operations

Enter the appropriate code,  → Press 

| Type of the equipment | Code |
|---|--------------|
| DVD Recorder, DVD Player | 70 (default) |
| Player theatre, Blu-ray Disc theatre | 71 |
| VCR | 72 |
| The equipment using in VIERA Link → "VIERA Link Control" (p. 50) | 73 |

Note

- Confirm if the remote control works correctly after changing the code.
- The codes may be reset to default values if batteries are replaced.
- Some operations may not be possible on some equipment models.

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)
 ② access
 ① select

3 Select the item

 (example: Picture Menu)
 select

4 Adjust or select

 (example: Picture Menu)
 ① change
 ② store or access (Required by some functions)

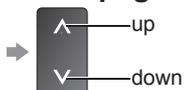
■ **To return to TV at any time**



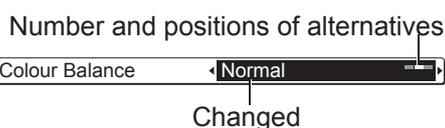
■ **To return to the previous screen**



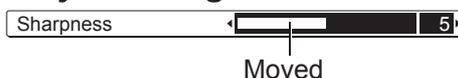
■ **To change menu pages**



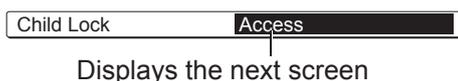
■ **Choose from among alternatives**



■ **Adjust using the slide bar**



■ **Go to the next screen**

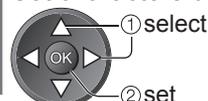


■ **Enter characters by free input menu**

You can enter names or numbers freely for some items.



Set characters one by one



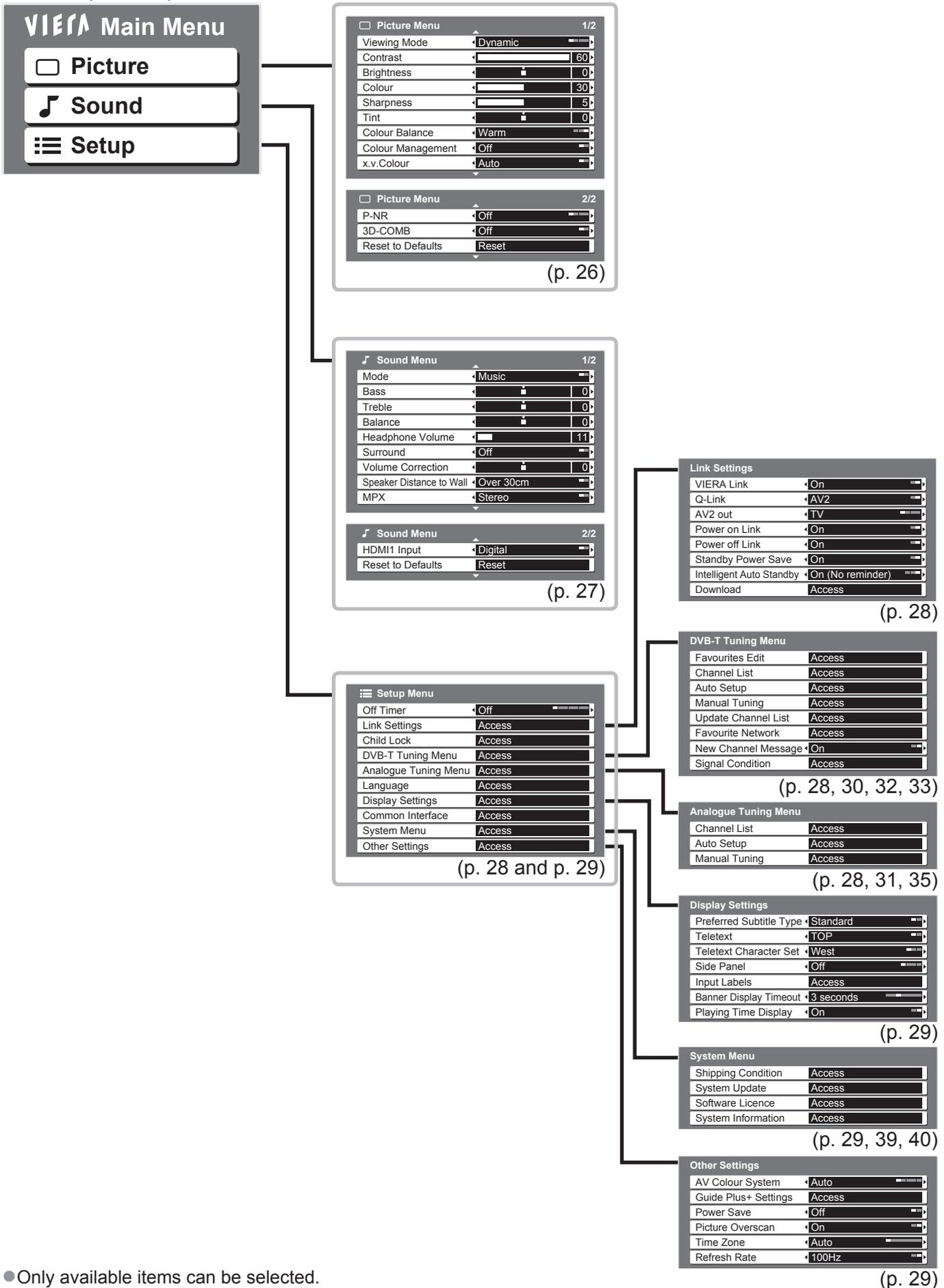
- You can set characters by using numeric buttons.
 ➔ "Characters table for numeric buttons" (p. 56)

■ **To reset the settings**

- To reset the picture settings only
 ➔ "Reset to Defaults" in the Picture Menu (p. 26)
- To reset the sound settings only
 ➔ "Reset to Defaults" in the Sound Menu (p. 27)
- To reset the picture and sound settings together
 ➔ N (Also volume level and aspect mode are reset)
- To initialize all settings
 ➔ "Shipping Condition" in the Setup Menu (p. 29)

■ Overview

● How to operate → p. 24



● Only available items can be selected.

How to Use Menu Functions

■ Menu list

| Menu | Item | Adjustments / Configurations (alternatives) |
|---------|---|---|
| Picture | Viewing Mode | <p>Basic picture mode (Dynamic / Normal / Cinema / Game)</p> <ul style="list-style-type: none"> ● Set for each input signal <p>Dynamic : Provides enhanced picture contrast and sharpness when viewing in a bright room Normal : Recommended for viewing under normal ambient room lighting conditions Cinema : For watching movies in a darkened room producing a cinema-like picture Game : Fast response signal specifically to provide suitable images for playing games</p> <ul style="list-style-type: none"> ● Not valid on TV mode ● A continuous record of time spent using Game mode can be displayed in the top right of the screen <ul style="list-style-type: none"> ➔ "Playing Time Display" (p. 29) |
| | Contrast, Brightness, Colour, Sharpness | Increases or decreases the levels of these options according to your personal preference |
| | Tint | <p>With an NTSC signal source connected to the TV, the picture hue can be adjusted to suit your taste</p> <ul style="list-style-type: none"> ● For NTSC signal reception only |
| | Colour Balance | Allows you to set the overall colour tone of the picture (Cool / Normal / Warm) |
| | Colour Management | Automatically adjusts colours to vivid ones (Off / On) |
| | x.v.Colour | <p>Increases the colour gradations (Off / Auto)</p> <ul style="list-style-type: none"> ● This is effective when watching HD moving pictures from an external equipment. ● HDMI input mode only |
| | P-NR | <p>Picture Noise Reduction</p> <p>Automatically reduces unwanted picture noise and flicker noise in the contoured parts of a picture (Off / Min / Mid / Max)</p> |
| | 3D-COMB | <p>Occasionally, whilst viewing still or slow moving pictures, colour patterning may be seen</p> <p>Set to "On" to display sharper and more accurate colours (Off / On)</p> <ul style="list-style-type: none"> ● For PAL or NTSC signal reception only ● Not valid on RGB, S-Video, Component, HDMI and SD Card |
| | Reset to Defaults | Press the OK button to reset the present Picture Viewing Mode to the default settings |

| Menu | Item | Adjustments / Configurations (alternatives) |
|--------------------------|---|--|
| Sound | Mode | Basic sound mode (Music / Speech) |
| | Bass | Increases or decreases level to enhance or minimise lower, deeper sound output |
| | Treble | Increases or decreases level to enhance or minimise sharper, higher sound output |
| | Balance | Adjusts volume level of right and left speakers |
| | Headphone Volume | Adjusts the volume of the headphones |
| | Surround | Surround sound settings (Off / V-Audio) Provides a dynamic enhancer of width to simulate improved spatial effects ● Switching is also possible by the Surround button on the remote control (p. 9). |
| | Volume Correction | Adjusts the volume of individual channel or input mode |
| | Speaker Distance to Wall | Adjusts the low frequency sound (Over 30cm / Up to 30cm) ● If the back space between the TV and wall is over 30 cm, "Over 30cm" is recommended. ● If the back space between the TV and wall is within 30 cm, "Up to 30cm" is recommended. |
| | MPX | Select stereo / monaural (Mono / Stereo) ● Normally: Stereo ● Stereo signal cannot be received: Mono ● M1 / M2: Available while mono signal is transmitted ● Analogue mode only |
| | HDMI1 Input | Select to fit the input signal (Digital / Analogue) (p. 57) 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 Defaults | Press the OK button to reset the present Sound Mode to the default settings | |

- A different menu will be displayed while SD Card is used. (p. 42)
- Only available items can be selected.

How to Use Menu Functions

■ Menu list

| Menu | Item | Adjustments / Configurations (alternatives) | |
|---------------|----------------------|---|---|
| Setup | Off Timer | Sets the time the TV automatically turns Off (Off / 15 / 30 / 45 / 60 / 75 / 90 minutes) | |
| | Link Settings | VIERA Link | Sets to use VIERA Link functions (Off / On) (p. 47) |
| | | Q-Link | Selects which AV terminal is to be used for data communication between this TV and a compatible recorder (AV1 / AV2) (p. 46) ● Select the connected terminal to the recorder even it is not compatible with Q-Link. |
| | | AV1 / AV2 out | Chooses the signal to be transmitted from the TV to Q-Link (TV / AV1 / AV2 / AV3 / Monitor) ● Monitor: Image displayed on screen ● Component and HDMI signals cannot be outputted. |
| | | Power on Link | Sets to use Power on Link function (Off / On) (p. 46 and p. 47) |
| | | Power off Link | Sets to use Power off Link function (Off / On) (p. 46 and p. 47) |
| | | Standby Power Save | Controls the power consumption in Standby mode of the connected equipment to reduce the consumption (Off / On) (p. 48) ● This function is available when "VIERA Link" is set to "On" and "Power off Link" is set to "On". |
| | | Intelligent Auto Standby | Makes non-watched or non-used connected equipment go into Standby mode to reduce the power consumption (Off / On (With reminder) / On (No reminder)) (p. 48) ● This function is available when "VIERA Link" is set to "On". |
| | | Download | Downloads channel, language, country / region settings to a Q-Link or VIERA Link compatible equipment connected to the TV |
| | Child Lock | Locks a channel / AV input to prevent access to it (p. 36) | |
| | DVB-T Tuning Menu | Favourites Edit | Creates list of favourite DVB-T channels (p. 33) |
| | | Channel List | Skips the unwanted DVB-T channels or edits DVB-T channels (p. 33) |
| | | Auto Setup | Automatically sets the DVB-T channels received in the area (p. 30) |
| | | Manual Tuning | Sets the DVB-T channels manually (p. 33) |
| | | Update Channel List | Updates DVB-T Channel List with keeping your settings (p. 32) |
| | | Favourite Network | Selects your favourite network for each broadcasters |
| | | New Channel Message | Selects whether to give a notification message when a new DVB-T channel is found (p. 32) |
| | Signal Condition | Checks the DVB-T signal condition (p. 32) | |
| | Analogue Tuning Menu | Channel List | Skips the unwanted Analogue channels or edits Analogue channels (p. 35) |
| Auto Setup | | Automatically sets the Analogue channels received in the area (p. 31) | |
| Manual Tuning | | Sets the Analogue channels manually (p. 35) | |

| Menu | Item | Adjustments / Configurations (alternatives) | | |
|-------|---------------------|--|--|---|
| Setup | Language | OSD Language | Changes language for on-screen displays | |
| | | Preferred Audio 1 / 2 | Selects the first and second preferred language for DVB multi audio (depending on the broadcaster) | |
| | | Preferred Subtitles 1 / 2 | Selects the first and second preferred language for DVB subtitles (depending on the broadcaster) ● To display subtitles → p. 16 | |
| | | Preferred Teletext | Selects the preferred language for DVB teletext service (depending on the broadcaster) | |
| | Display Settings | Preferred Subtitle Type | Selects the preferred subtitle type (Standard / Hard of Hearing) ● "Hard of Hearing" provides aids in understanding and enjoyment with DVB subtitles (depending on the broadcaster). ● "Preferred Subtitles 1 / 2" in "Language" are given priority. | |
| | | Teletext | Teletext display mode (TOP (FLOF) / List) (p. 20) | |
| | | Teletext Character Set | Selects teletext language (West / East1 / East2) ● West: English, French, German, Greek, Italian, Spanish, Swedish, Turkish, etc. ● East1: Czech, English, Estonian, Lettish, Rumanian, Russian, Ukrainian, etc. ● East2: Czech, Hungarian, Lettish, Polish, Rumanian, etc. | |
| | | 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 terminal (p. 37) | |
| | | Banner Display Timeout | Sets how long the Information banner (p. 15) stays on screen (0 (No display) / 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 seconds) | |
| | | Playing Time Display | Set to "On" to display a continuous record of time spent using Game mode (Off / On) ● This function is available when "Game" is selected in "Viewing Mode" (p. 26). | |
| | System Menu | Common Interface | Uses include to watch pay-TV (p. 38) | |
| | | Shipping Condition | Resets all settings, for example, when moving house (p. 39) | |
| | | System Update | Downloads new software to TV (p. 40) | |
| | | Software Licence | Displays the software licence information | |
| | Other Settings | System Information | Displays the system information of this TV | |
| | | GUIDE Plus+ Settings | AV Colour System | Selects optional colour system based on video signals in AV mode (Auto / PAL / SECAM / M.NTSC / NTSC) |
| | | | Update | Performs the update of the GUIDE Plus+ schedule and advertising informations for the GUIDE Plus+ system (p. 19) |
| | | | Postcode | Sets your postcode to display advertisements in the GUIDE Plus+ system (p. 19) |
| | | | System Information | Displays the system information of the GUIDE Plus+ system |
| | | Power Save | Reduces brightness of picture to economise on power consumption (Off / On) | |
| | | Picture Overscan | Selects the screen area displaying the image (Off / On) On : Enlarged the image to hide the edge of the image. Off : Displayed the image in the original size. ● Set to "On" if noise is generated on the edge of the screen. ● This function is available when aspect is set to Auto (16:9 signal only) or 16:9. ● This function can be memorized separately for SD (Standard definition) and HD (High definition) signals. | |
| | Time Zone | Adjusts the time data ● The time data will be corrected based on GMT. ● Set to "Auto" to adjust the time automatically according to your area. | | |
| | Refresh Rate | Changes the image processing of the panel (depending on the input signal) (50Hz / 100Hz) ● Set to "100Hz" normally | | |

- A different menu will be displayed while SD Card is used. (p. 42)
- Only available items can be selected.

Viewing
● How to Use Menu Functions (picture, sound quality, etc.)

Retuning from Setup Menu

Auto Setup retunes all channels automatically.

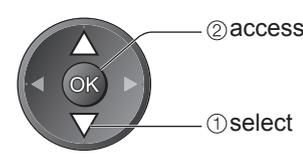
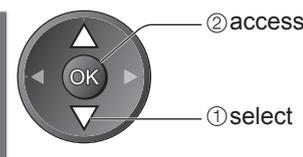
DVB-T channels

Automatically retune all the DVB-T channels received in the area.

- This function is available if DVB-T channel tuning is already performed.
- Only DVB-T channels are retuned.
- All the previous tuning settings are erased.
- If a Child Lock PIN number (p. 36) has been set, it must be entered.



- 1 Select DVB-T**
TV
- 2 Display the menu**
MENU
- 3 Select "Setup"**
Main Menu
Picture
Sound
Setup
- 4 Select "DVB-T Tuning Menu"**
Setup Menu
Off Timer Off
Link Settings
Child Lock
DVB-T Tuning Menu Access
Language
Display Settings
Common Interface
System Menu
Other Settings

To return to TV
EXIT

For Auto Setup, using the buttons on the side panel of the TV (p. 8)

① Press repeatedly until "Auto Setup" appears

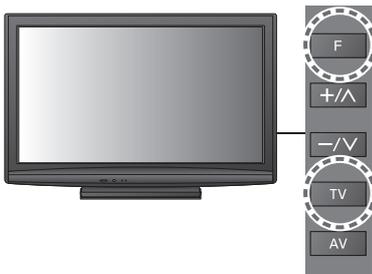
F

② Access "Auto Setup"

TV

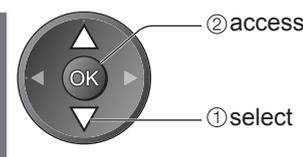
③ Start "Auto Setup"

TV



● To return to TV → F

- 5 Select "Auto Setup"**
DVB-T Tuning Menu
Favourites Edit
Channel List
Auto Setup Access
Manual Tuning
Update Channel List
New Channel Message On
Signal Condition



- 6 Start Auto Setup**

DVB-T Auto Setup
All DVB-T tuning data will be erased

OK

| DVB-T Auto Setup | | | | |
|---------------------------------|-----------------|-----------|----------|---------|
| Progress | | CH 5 | 69 | |
| This will take about 3 minutes. | | | | |
| Ch | Channel Name | Type | Quality | |
| 62 | CBBC Channel | Free TV | 10 | |
| 62 | BBC Radio Wales | Free TV | 10 | |
| 62 | E4 | Free TV | 10 | |
| 62 | Cartoon Nwk | Free TV | 10 | |
| Free TV: 4 | | Pay TV: 0 | Radio: 0 | Data: 0 |
| Searching | | | | |

Settings are made automatically

- Depending on the country you select (p. 12), "Region Selection" is required → p. 13
- The channel, language, country / region settings are downloaded to a Q-Link or VIERA Link compatible equipment connected to the TV.

When the operation is completed, the channel at channel position "1" will be displayed.

Note

- If tuning has not been done completely
→ "Manual Tuning" (p. 33)

Analogue channels

Automatically retune all the Analogue channels received in the area.

- Only Analogue channels are retuned.
- All the previous tuning settings are erased.
- If a Child Lock PIN number (p. 36) has been set, it must be entered.



1 Select Analogue
TV

2 Display the menu
MENU

3 Select "Setup"
Main Menu
Picture
Sound
Setup

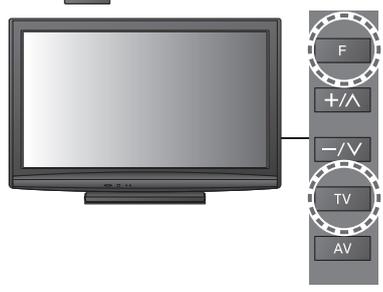
4 Select "Analogue Tuning Menu"
Setup Menu
Off Timer Off
Link Settings
Child Lock
Analogue Tuning Menu Access
Language
Display Settings
Common Interface
System Menu
Other Settings

■ To return to TV



■ For Auto Setup, using the buttons on the side panel of the TV (p. 8)

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



● To return to TV → F

5 Select "Auto Setup"
Analogue Tuning Menu
Channel List
Auto Setup Access
Manual Tuning



6 Start Auto Setup

Analogue Auto Setup
All analogue tuning data will be erased

OK →

Analogue Auto Setup

Scan will take about 3 minutes. CH 2 | 78 | CC 1 | 41

| CH | Channel Name |
|-------|--------------|
| CH 29 | |
| CH 29 | |

Analogue: 2 Searching

Settings are made automatically

- The channel, language, country / region settings are downloaded to a Q-Link or VIERA Link compatible equipment connected to the TV.

When the operation is completed, the channel at channel position "1" will be displayed.

- Note**
- If tuning has not been done completely
→ "Manual Tuning" (p. 35)

Tuning and Editing Channels

(DVB)

You can retune channels or make your favourite channel lists, skip unwanted channels, etc.

- 1 Select DVB-T**
TV
- 2 Display the menu**
MENU
- 3 Select "Setup"**

| | |
|-----------|--|
| Main Menu | |
| Picture | |
| Sound | |
| Setup | |
- 4 Select "DVB-T Tuning Menu"**

| | |
|-------------------|--------|
| Setup Menu | |
| Off Timer | Off |
| Link Settings | |
| Child Lock | |
| DVB-T Tuning Menu | Access |
| Language | |
| Display Settings | |
| Common Interface | |
| System Menu | |
| Other Settings | |
- 5 Select one of the following functions and set**

| | |
|---------------------|--------|
| DVB-T Tuning Menu | |
| Favourites Edit | Access |
| Channel List | Access |
| Auto Setup | Access |
| Manual Tuning | Access |
| Update Channel List | Access |
| New Channel Message | On |
| Signal Condition | Access |

● The function items vary depending on the country you select (p. 12).
 ● "Retuning from Setup Menu" (p. 30)

To return to TV
EXIT

Update DVB channel automatically **Update Channel List**

You can add new channels, delete removed channels, update channel name and position automatically to Channel List.



- Channel List is updated with keeping your settings in Favourites Edit, Channel List, Child Lock, etc.

Display a notification message **New Channel Message**

Selects whether to give a notification message when a new DVB channel is found. (Off / On)

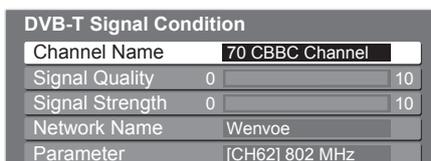


- Selecting OK will perform "Update Channel List".

Check DVB signal **Signal Condition**

Selects a channel and checks the DVB signal condition.

- To change the channel →



A good Signal Strength is not an indication of suitable signal for DVB reception. Please use the Signal Quality indicator as follows:

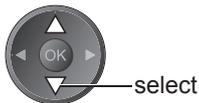
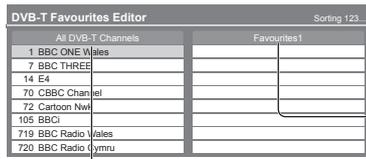
Signal Quality:

- Green bar → Good
- Yellow bar → Poor
- Red bar → Bad (Check the Terrestrial aerial)

List favourite DVB channels **Favourites Edit**

Create your favourite channel lists from various broadcasters (up to 4: Favourites1 to 4). The DVB Favourites lists are available from "Category" in the Information banner (p. 15) and the TV Guide (p. 18).

① Select a channel to list

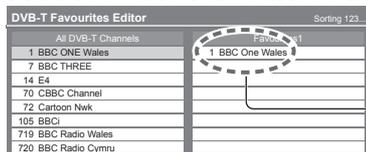


To sort channel names in alphabetical order → blue

To display other Favourites → green

To change the category → red

② Add it to the Favourites list



A channel is added

To add all channels to the list → yellow

Note

Channel position numbers can be swapped in Channel List.

■ To edit Favourites list



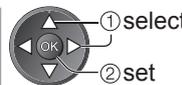
Select the field of Favourites to edit and:

To delete the channel → OK

To delete all channels → yellow

To name the Favourites → red

Set characters one by one



You can set characters by using numeric buttons.
→ "Characters table for numeric buttons" (p. 56)

To move the channel → green

Select the new position → OK

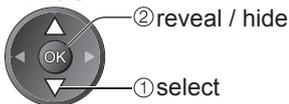
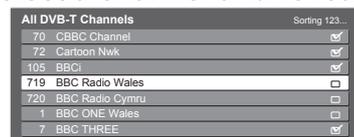
Confirm → green

③ Store → RETURN → OK

Skip unwanted DVB channels, Edit DVB Channels **Channel List**

You can hide unwanted DVB channels. The hidden channels cannot be displayed except in this function. Use this function to skip unwanted channels.

Select a channel and reveal / hide



: reveal
 : hide (skip)

To reveal all channels → yellow

■ To edit channels

You can also edit each channel in Channel List.

To change the category → red

To swap the channel position (if available) → green → Enter the new position number



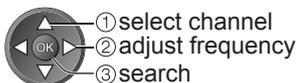
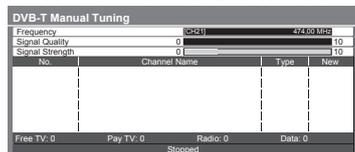
To move the channel position (if available) → green → Select the new position → OK



To sort channel names in alphabetical order → blue

Set DVB channel manually **Manual Tuning**

Normally use "Auto Setup" or "Update Channel List" to retune DVB channels. If tuning has not been done completely or for adjusting the direction of the aerial, use this function.
● All channels found will be added to the Channel List.



Set where the level of "Signal Quality" becomes the maximum.

Tuning and Editing Channels

(Analogue)

You can retune channels or skip unwanted channels, edit channels etc.

1 Select Analogue
TV

2 Display the menu
MENU

3 Select "Setup"
Main Menu
Picture
Sound
Setup

4 Select "Analogue Tuning Menu"
Setup Menu
Off Timer Off
Link Settings
Child Lock
Analogue Tuning Menu Access
Language
Display Settings
Common Interface
System Menu
Other Settings

5 Select one of the following functions
Analogue Tuning Menu
Channel List Access
Auto Setup Access
Manual Tuning Access

■ To return to TV
EXIT

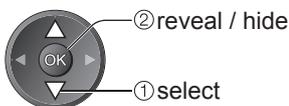
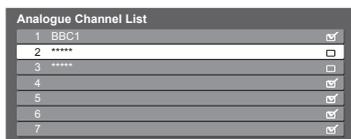
➔ "Retuning from Setup Menu" (p. 31)

6 Set

Skip unwanted Analogue channels, Edit Analogue channels Channel List

You can hide unwanted Analogue channels.
The hidden channels cannot be displayed except in this function. Use this function to skip unwanted channels.

Select a channel and reveal / hide



- : reveal
- : hide (skip)

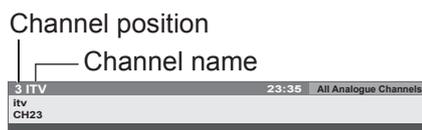


To edit channels

You can also edit each channel in Channel List.



Select a channel to edit and:



- To retune each channel (Manual Tuning) → (see below)

- To move the channel position → → Select the new position → → Store

- To rename the channel name → → Set characters one by one →
 - You can set characters by using numeric buttons. → "Characters table for numeric buttons" (p. 56)

Note

- If a VCR is connected only with the RF cable, edit "VCR".

Set Analogue channel manually Manual Tuning

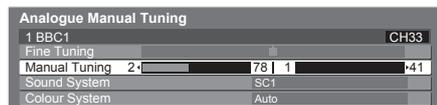
Fine Tuning

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

Manual Tuning

Set Analogue channel manually after Auto Setup.

- Set Sound System and Colour System, and then perform this function. Normally set Colour System "Auto".
- If a VCR is connected only with the RF cable, select channel position "0".



SC1: PAL B, G, H / SECAM B, G
SC2: PAL I
SC3: PAL D, K / SECAM D, K
F: SECAM L, L'

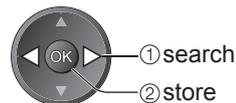
Select the channel position



Select the channel



Search and store



Child Lock

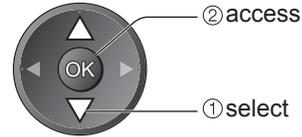
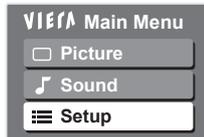
You can lock specific channels / AV input terminals and control who watches them. When the locked channel / input is selected, a message appears; by entering the PIN number, you can watch it.



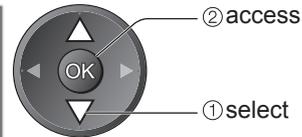
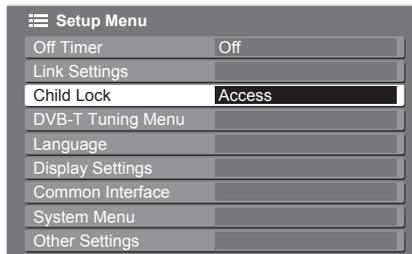
1 Display the menu



2 Select "Setup"



3 Select "Child Lock"



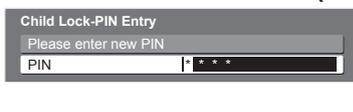
■ To return to TV



4 Set

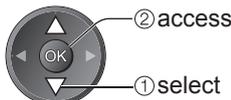
Control channel audience **Child Lock**

1 Enter the PIN number (4 digits)



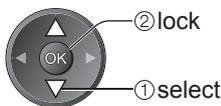
- Enter the PIN number twice at first setting.
- Make a note of the PIN number in case you forget it.
- "0000" may be stored as the default PIN number which depends on the country you select (p. 12).

2 Select "Child Lock List"



3 Select the channel / input to be locked

| Name | Input | Type | Lock |
|-----------------|----------|----------|------|
| 4 BBC ONE Wales | DVB-T | FreeTV | |
| 7 BBC THREE | DVB-T | FreeTV | 🔒 |
| 14 EA | DVB-T | FreeTV | |
| VCR | Analogue | Analogue | |
| 1 BBC1 | Analogue | Analogue | |
| 2 **** | Analogue | Analogue | |
| AV1 | External | AV | |
| AV2S | External | AV | |

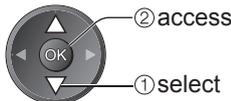


- To cancel → Select the locked channel / input → OK
- To jump to the top of the next input → red
- To lock all → green
- To cancel all locks → yellow
- To sort channel names in alphabetical order → blue

Appears when the channel / input is locked

■ To change the PIN number

Select "Change PIN"



Enter a new PIN number twice

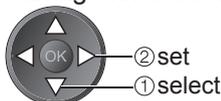


■ To set Parental Rating

- The availability of this function depends on the country you select (p. 12).

If the DVB programme has the rated information for over the selected age, you have to enter the PIN number to watch (depending on the broadcaster).

Select "Parental Rating" and set an age for the restriction of programmes.



Note

- Setting "Shipping Condition" (p. 39) erases the PIN number and all settings.

Input Labels

For easier identification and selection of the input mode, you can label each input mode or skip terminal that is not connected to any equipment.

● To select the input mode → p. 22



1 Display the menu
 MENU

2 Select "Setup"

| | |
|----------------|--|
| VIEW Main Menu | |
| Picture | |
| Sound | |
| Setup | |

② access
① select

3 Select "Display Settings"

| | |
|-------------------|--------|
| Setup Menu | |
| Off Timer | Off |
| Link Settings | |
| Child Lock | |
| DVB-T Tuning Menu | |
| Language | |
| Display Settings | Access |
| Common Interface | |
| System Menu | |
| Other Settings | |

② access
① select

4 Select "Input Labels"

| | |
|-------------------------|-----------|
| Display Settings | |
| Preferred Subtitle Type | Standard |
| Teletext | TOP |
| Teletext Character Set | West |
| Side Panel | Off |
| Input Labels | Access |
| Banner Display Timeout | 3 seconds |
| Playing Time Display | On |

② access
① select

5 Select a input terminal and set

| | |
|--------------|-----------|
| Input Labels | |
| AV1 | DVD |
| AV2/S | AV2/S |
| AV3/S | AV3/S |
| COMPONENT | COMPONENT |
| HDMI1 | HDMI1 |
| HDMI2 | HDMI2 |
| DVB-T | DVB-T |
| Analogue | Analogue |

② set
① select

The labels you set will be displayed in "Input Selection" menu (p. 22) or banner.

● If "Skip" is selected, you cannot select the mode.

■ To return to TV
 EXIT

■ User input

You can name each input mode freely.

Select "User input"

Set characters one by one

① select
② access

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|
| User input | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | | | | | | |
| U | V | W | X | Y | Z | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | # | | | | | | | | | |
| a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q | r | s | t | | | | | | |
| u | v | w | x | y | z | (|) | + | - | * | _ | | | | | | | | | | | | | | |

① select
② set

Store

RETURN

(maximum: ten characters)

● You can set characters by using numeric buttons.

➔ "Characters table for numeric buttons" (p. 56)

Using Common Interface

The Common Interface Module menu provides access to software contained on Common Interface (CI) Modules.

● This function may not be available in some countries or regions.

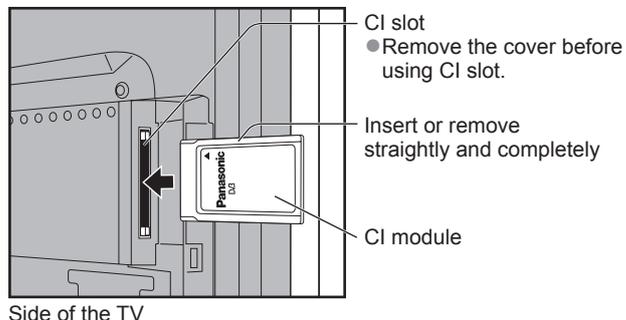
Although CI module may enable you to view some services, this TV does not guarantee all services (e.g. pay-TV).

Please use only the approved CI module by the broadcaster.

Consult your local Panasonic dealer or broadcasters for more information and conditions of the services.

Caution

- Turn Off Mains power On / Off switch whenever inserting or removing the CI module.
- If a view card and a card reader come as a set, first insert the card reader, then insert the view card into the card reader.
- Insert the module in the correct direction.



Insert the CI module (optional)

- The features that appear on screen are dependent on the contents of the selected CI module.
- Normally pay-TV channels will appear. Follow the on screen operation guide. If pay-TV channel does not appear, perform below.
- For more details, see the manual of the CI module, or check with the broadcaster.



1 Select DVB-T
TV

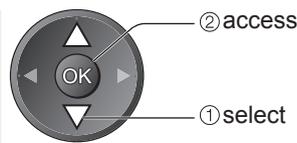
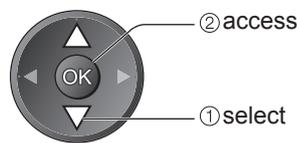
2 Display the menu
MENU

3 Select "Setup"
Main Menu
Picture
Sound
Setup

4 Select "Common Interface"
Setup Menu
Off Timer Off
Link Settings
Child Lock
DVB-T Tuning Menu
Language
Display Settings
Common Interface Access
System Menu
Other Settings

5 Access Common Interface
Common Interface
Slot 1: Module inserted

6 Follow the on screen operation guide
For example: select, go → OK



■ To return to TV



Coloured characters → red green yellow blue

● On screen operation guide may not correspond to the remote control buttons.

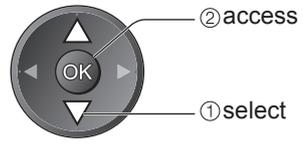
Shipping Condition

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

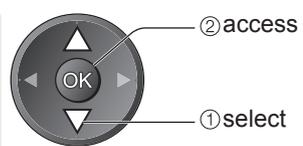


1 Display the menu
MENU

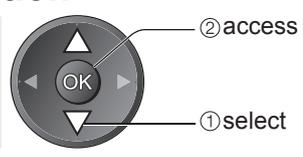
2 Select "Setup"



3 Select "System Menu"



4 Select "Shipping Condition"



To return to TV
EXIT

5 Set

Restore Settings Shipping Condition

1 Check the message and initialise

2 Follow the on-screen instructions

Reset to Factory Shipping Condition Completed.
Please switch off TV.

● "Auto Setup" will automatically start when Mains power On / Off switch is next turned On. (p. 12)

To retune TV channels only, e.g. after moving house
→ "Retuning from Setup Menu" (p. 30 and p. 31)

● Shipping Condition
● Using Common Interface

Advanced

Updating the TV Software

From time to time, a new version of software may become available for download to enhance the performance or operations of the TV.
If there is an update available, a notification banner is displayed when the channel has the update information.

- To download →
- If you choose not to download →

You can update any new software automatically or update manually.

- 1 Display the menu**
MENU
- 2 Select "Setup"**
Main Menu
Picture
Sound
Setup
- 3 Select "System Menu"**
Setup Menu
Off Timer Off
Link Settings
Child Lock
DVB-T Tuning Menu
Language
Display Settings
Common Interface
System Menu Access
Other Settings
- 4 Select "System Update"**
System Menu
Shipping Condition
System Update Access
Software Licence
System Information
- 5 Set**
EXIT

Update TV's software system **System Update**

■ **To update automatically**
Select "Auto Update Search in Standby"

- Every time you set, the TV automatically performs a search in standby and downloads an update, if any software updates are available.
- The automatic updating is performed under the following conditions:
 - Standby (TV turned Off with the remote control)
 - Recording is not in progress.

**If System Update is performed, the software will be updated (it may change TV functions).
If you do not wish to do so, set "Auto Update Search in Standby" to "Off".**

■ **To update immediately**
Select "System Update Search Now"

Searches for an update (for several mins.) and displays a corresponding message if any →

Note

- Download may take for about 60 mins.
- During software download and update, DO NOT switch Off the TV.
- The message might be the notification beforehand. In this case, the schedule information (the date that the new version can be used) will appear. You can set the reservation for update. The update will not start when the TV is set to Off.

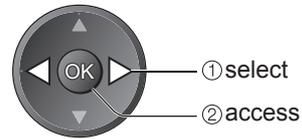
How to Use VIERA TOOLS

You can access some special features easily by using the VIERA TOOLS function.



1 Display icons of the feature

2 Select a feature



3 Follow the operations of each feature

- VIERA Link Control → "VIERA Link Control" (p. 50)



When more than two pieces of compatible equipment are connected a selection screen will be displayed. Please select the correct description and access.

- Pause Live TV → "Pause Live TV" (p. 49)



- Slideshow → "Slideshow" (p. 43)



Slideshow will use all of the photos on the SD Card.

- Photos → "Photo View" (p. 42)



■ To return to TV



■ To remove icons

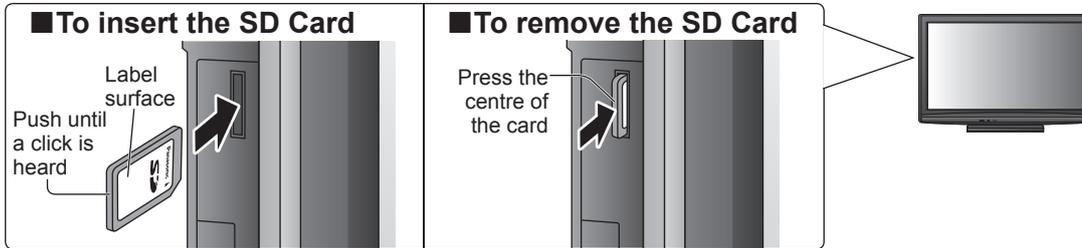


Viewing from SD Card

(VIERA IMAGE VIEWER)

Still images recorded by digital cameras will be displayed.

- During the operation, sound signal is output from AV1, AV2 and AUDIO OUT terminals. But no video signals are output.
- "Date" shows the date on which the recording was made by the digital camera or digital video camera. The file without record of the date is shown "***/**/****".
- For details on SD Cards → p. 55

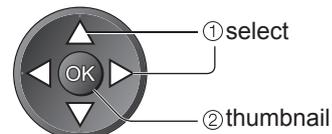


1 Insert the SD Card

2 Select "Photo View"
OK

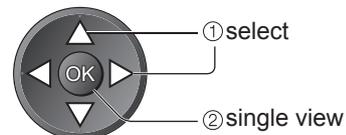
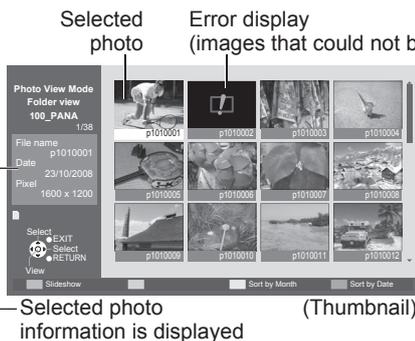
- You can also access directly by using VIERA TOOLS
→ "How to Use VIERA TOOLS" (p. 41)

3 Select the folder to display the thumbnail



- The files which are not into a folder will be collected to the folder named "I".

4 Select the file from the thumbnail to be viewed



- Slideshow → p. 43

■ To return to TV

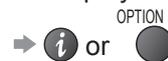


■ To return to the previous screen



Displayed one at a time

- To display / hide the operation guide



- To the previous photo
- Rotate 90° (anti-clockwise)
- To the next photo
- Rotate 90° (clockwise)

- To return to thumbnail → RETURN

Slideshow

Start Slideshow (operate in step 4)

Select the photo for the first view

Start Slideshow



To pause

To return to Single view



Note

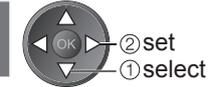
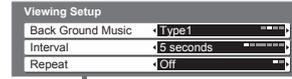
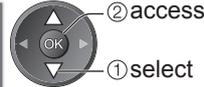
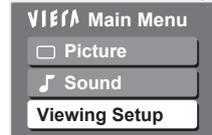
- Slideshow is done within the thumbnail.
- You can also start slideshow directly by using VIERA TOOLS → “How to Use VIERA TOOLS” (p. 41)

Slideshow settings (operate in Photo View Mode)

Display the menu

Select “Viewing Setup”

Select the items and set

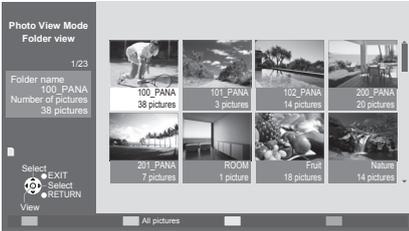


Other Items → p. 26 and p. 27

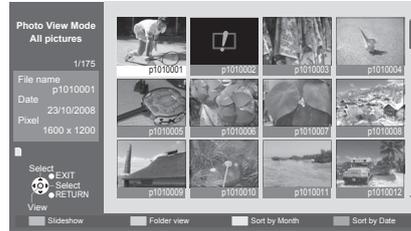
| Menu | Item | Adjustments / Configurations (alternatives) |
|---------------|-------------------|--|
| Viewing Setup | Back Ground Music | Selects the back ground music during the slideshow (Off / Type1 / Type2 / Type3) |
| | Interval | Selects slideshow interval (5 / 10 / 15 / 30 / 60 / 90 / 120 seconds) |
| | Repeat | Slideshow repeat (Off / On) |

To display all the photos

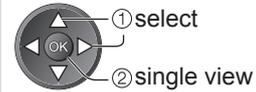
Display the thumbnail of all the photos in SD Card.



(Folder view)



(Thumbnail - All pictures)



To sort by date or month recorded

Display the list of groups sorted by the same date or the same month.

- The group of the photos without record of the date is shown as “Unknown”.



(Thumbnail)



(Sort by Month)



(Sort by Date)



Link Functions (Q-Link VIERA Link)

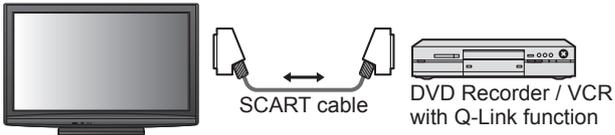
Q-Link connects the TV and DVD Recorder / VCR, and enables easy recording, playback, etc. (p. 46)
 VIERA Link (HDAVI Control™) connects the TV and the equipment with VIERA Link function, and enables easy control, convenient recording, playback, energy saving, creating home theatre, etc., without complicated setting. (p. 47 - 51)

You can use Q-Link and VIERA Link functions together.

- This TV supports "HDAVI Control 4" function. But available features are depending on the connected equipment's version of HDAVI Control. Please refer to the manual of the equipment to confirm the version.

Summary of Q-Link and VIERA Link features

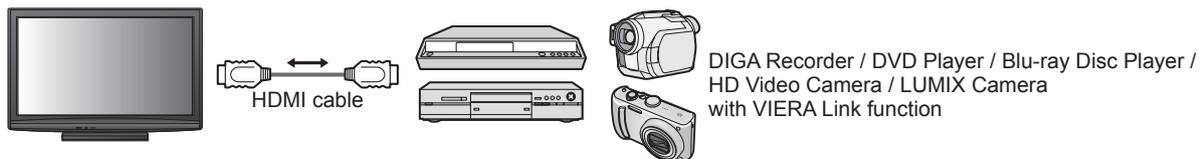
■ Q-Link (SCART connection only)

| Features | Connected equipment DVD Recorder / VCR with Q-Link function | Connection |
|---------------------|--|---|
| Preset download | ○ |  <p>● Use fully wired SCART cable. ● Connect the DVD Recorder / VCR supporting Q-Link to the TV's AV1 or AV2 terminal via a SCART cable.</p> |
| Easy playback | ○ | |
| Power on link | ○ | |
| Power off link | ○ | |
| Direct TV Recording | ○ | |

■ VIERA Link (HDMI connection only)

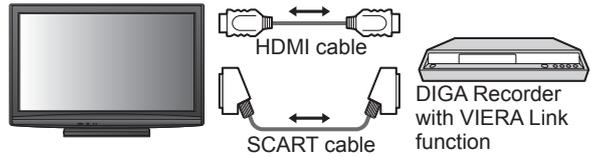
| Features | Connected equipment DIGA Recorder with VIERA Link function | DVD Player / Blu-ray Disc Player with VIERA Link function | HD Video Camera / LUMIX Camera with VIERA Link function |
|---|--|---|---|
| Preset download | ○*2 | — | — |
| Easy playback | ○ | ○ | ○ |
| Power on link | ○ | ○ | ○ |
| Power off link | ○ | ○ | ○ |
| Reduce unnecessary power consumption in standby | ○*3 | ○*3 | — |
| Auto standby for unnecessary equipment | ○*3 | ○*3 | — |
| Pause Live TV programme | ○*2 *4 | — | — |
| Direct TV Recording | ○*2 | — | — |
| Control the menu of the connected equipment by VIERA remote control | ○*1 | ○*1 | ○*1 |
| Speaker control | — | — | — |

Connection



- Use fully wired HDMI compliant cable.
- Connect the equipment supporting VIERA Link to the TV's HDMI1 or HDMI2 terminal via an HDMI cable.
- About HDMI cable for connecting Panasonic HD Video Camera or LUMIX Camera, read the manual of the equipment.

■ VIERA Link (HDMI and SCART connections)

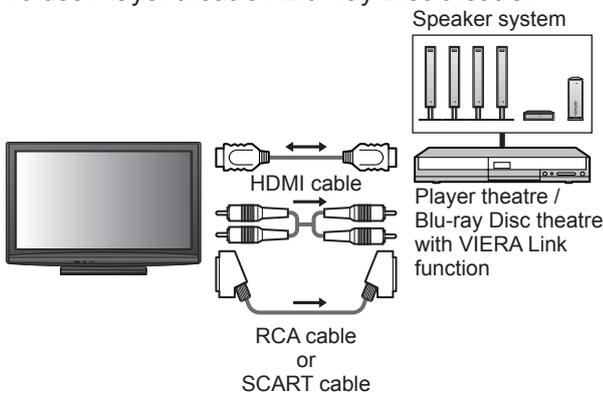
| Features | Connected equipment DIGA Recorder with VIERA Link function | Connection |
|---|--|---|
| Preset download | ○ |  <p>● Use fully wired HDMI compliant cable. ● Connect the equipment supporting VIERA Link to the TV's HDMI1 or HDMI2 terminal via an HDMI cable. ● Use fully wired SCART cable. ● Connect the equipment supporting VIERA Link to the TV's AV1 or AV2 terminal via a SCART cable.</p> |
| Easy playback | ○ | |
| Power on link | ○ | |
| Power off link | ○ | |
| Reduce unnecessary power consumption in standby | ○*3 | |
| Auto standby for unnecessary equipment | ○*3 | |
| Pause Live TV programme | ○*2 *4 | |
| Direct TV Recording | ○*2 | |
| Control the menu of the connected equipment by VIERA remote control | ○*1 | |
| Speaker control | — | |

■ VIERA Link (HDMI and Audio out connections)

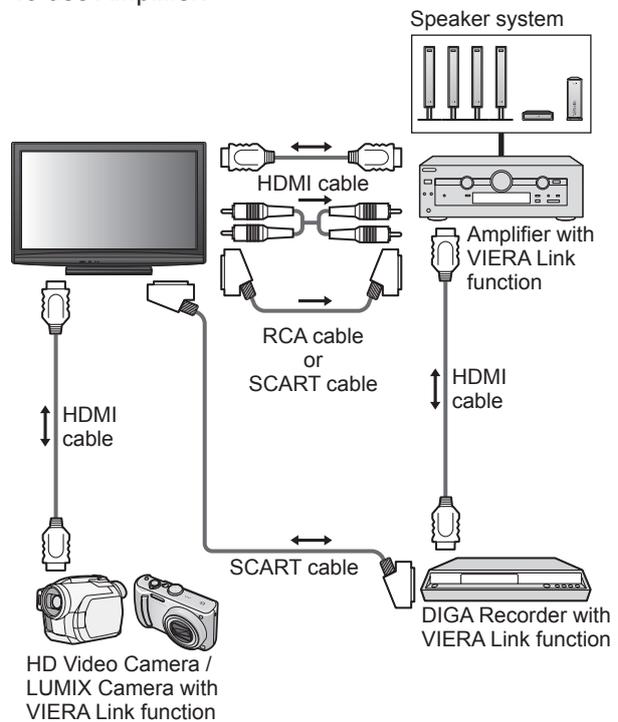
| Connected equipment | Player theatre with VIERA Link function | Blu-ray Disc theatre with VIERA Link function | Amplifier with VIERA Link function |
|---|---|---|------------------------------------|
| Features | | | |
| Preset download | — | — | — |
| Easy playback | ○*5 | ○*5 | — |
| Power on link | ○ | ○ | — |
| Power off link | ○ | ○ | ○ |
| Reduce unnecessary power consumption in standby | — | ○*3 | — |
| Auto standby for unnecessary equipment | ○*3 *6 | ○*3 *6 | ○*3 |
| Pause Live TV programme | — | — | — |
| Direct TV Recording | — | — | — |
| Control the menu of the connected equipment by VIERA remote control | ○*1 | ○*1 | — |
| Speaker control | ○ | ○ | ○ |

Connection

● To use Player theatre / Blu-ray Disc theatre:



● To use Amplifier:



- Use fully wired HDMI compliant cable.
- Connect the equipment supporting VIERA Link to the TV's HDMI1 or HDMI2 terminal via an HDMI cable.
- Use fully wired SCART cable.
- Connect the equipment supporting VIERA Link to the TV's AV1 or AV2 terminal via a SCART cable.
- Use RCA cable or SCART cable for audio output from the TV.

- *1: Available with the equipment which has "HDAVI Control 2 or later" function.
- *2: Available with the equipment which has "HDAVI Control 3 or later" function.
- *3: Available with the equipment which has "HDAVI Control 4" function.
- *4: Available with DIGA Recorder which has HDD.
- *5: while playingback a disc
- *6: except for watching a disc

Note

- VIERA Link features may be available even with other manufacturers' equipment supporting HDMI CEC.

Link Functions (Q-Link VIERA Link)

Q-Link

■ Preparations

- Connect the DVD Recorder / VCR with the following logos:
“Q-Link”, “NEXTVIEWLINK”, “DATA LOGIC”, “Easy Link”, “Megalogic” or “SMARTLINK”
- Q-Link connection → p. 44
- Use fully wired SCART cable.
- Set up the DVD Recorder / VCR. Read the manual of the recorder.
- Q-Link terminal setup in the Setup Menu → “Q-Link” (p. 28), “AV1 / AV2 out” (p. 28)
- Download preset - channel, language, country / region settings → “Preset download” (see below)

■ Features available

Preset download

Channel, language, country / region settings can be downloaded to the recorder.

- To download settings → “Download” (p. 28) or “Auto Setup” (p. 30 and p. 31) or “Auto Setup” - when first using the TV (p. 12)

Direct TV Recording - What you see is What you record

Recording the current programme in DVD Recorder / VCR immediately.

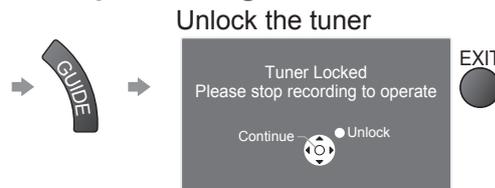


- Available conditions:

| Current mode | Using tuner | How to record |
|--|-------------|---------------------------|
| Analogue | TV | TV monitor out |
| | Recorder | Recorder's tuner |
| DVB | TV | TV monitor out |
| AV (watching recorder's tuner) | Recorder | Recorder's tuner |
| AV (watching recorder's external input) | — | Recorder's external input |
| AV (watching TV's external input) | — | TV monitor out |

- When Direct TV Recording is performed, the recorder is automatically turned on if it is in Standby mode.
- Changing channel or turning off the TV is available while the recorder is recording from its own tuner.
- Changing channel is not available while the recorder is recording from the TV tuner.

■ To stop recording



Power on link and Easy playback

Set Power on Link “On” in the Setup Menu to use this function → “Power on Link” (p. 28)

When DVD Recorder / VCR 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 the TV is in Standby mode.)

Power off link

Set Power off Link “On” in the Setup Menu to use this function → “Power off Link” (p. 28)

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

- This function will work even if the TV enters standby mode automatically by Off Timer function or auto power standby function.

- “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)

Note

- Some recorders are not applicable. Read the manual of the recorder.

VIERA Link “HDAVI Control™”*

*Enjoy additional HDMI Inter-Operability with Panasonic products which have “HDAVI Control” function. This TV supports “HDAVI Control 4” function.

Connections to the equipment (DIGA Recorder, HD Video Camera, Player theatre, Amplifier, etc.) with HDMI and SCART cables allow you to interface them automatically (p. 44 and p. 45).

These features are limited to models incorporating “HDAVI Control” and “VIERA Link”.

- Some functions are not available depending on the equipment’s version of HDAVI Control. Please confirm the connected equipment’s version of HDAVI Control.
- 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.
- Please refer to individual manuals for other manufacturers’ equipment supporting VIERA Link function.
- About applicable Panasonic equipment, consult your local Panasonic dealer.

■ Preparations

- Connect the equipment supporting VIERA Link.
- VIERA Link connection → p. 44 and p. 45
- Use fully wired HDMI compliant cable. Non-HDMI-compliant cables cannot be utilized.
Recommended Panasonic’s HDMI cable part number:
 - RP-CDHG10 (1.0 m)
 - RP-CDHG15 (1.5 m)
 - RP-CDHG20 (2.0 m)
 - RP-CDHG30 (3.0 m)
 - RP-CDHG50 (5.0 m)
- Use fully wired SCART cable.
- Set up the connected equipment. Read the manual of the equipment.
- For optimal recording, the settings of the recorder may need to be changed. For details, read the manual of the recorder.
- Download preset - channel, language, country / region settings → “Preset download” (see below)
- Set VIERA Link On in the Setup Menu → “VIERA Link” (p. 28)
- Set up the TV
 - **After connection, turn the equipment on and then switch the TV on.**
Select the input mode to HDMI1 or HDMI2 (p. 22), and make sure that an image is displayed correctly.
This setup should be done each time when the following conditions occur:
 - for the first time
 - when adding or reconnecting equipment
 - when changing setup

■ Features available

Preset download

Channel, language, country / region settings can be downloaded to the recorder.

- To download settings → “Download” (p. 28) or “Auto Setup” (p. 30 and p. 31) or “Auto Setup” - when first using the TV (p. 12)

Easy playback

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

Power on link

Set Power on Link “On” in the Setup Menu to use this function → “Power on Link” (p. 28)

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

Power off link

Set Power off Link “On” in the Setup Menu to use this function → “Power off Link” (p. 28)

When the TV is set to Standby mode, the connected 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.

Link Functions (Q-Link VIERA Link)

■ Features available

Reduce unnecessary power consumption in standby **Standby Power Save**

Set Standby Power Save “On” in the Setup Menu to use this function

➔ “Standby Power Save” (p. 28)

The power consumption in Standby mode of the connected equipment is controlled higher or lower in synchronization with the TV On / Off state to reduce the consumption.

When the TV is set to Standby mode, the connected equipment is automatically set to Standby and the power consumption in Standby mode of the connected equipment is automatically minimized.

When the TV is turned on, the connected equipment is still in Standby mode, but the power consumption is increased to make startup time early.

- This function is effective if the connected equipment can change the power consumption in Standby mode and is set to higher consumption.
- This function will work when “Power off Link” is set to “On”.

Auto standby for unnecessary equipment **Intelligent Auto Standby**

Set Intelligent Auto Standby “On (With reminder)” or “On (No reminder)” in the Setup Menu to use this function

➔ “Intelligent Auto Standby” (p. 28)

When the TV is On, non-watched or non-used connected equipment goes into Standby mode automatically to reduce the power consumption. For example, when the input mode is switched from HDMI, when Speaker Selection is changed to “TV” (except for watching a disc).

- If you select “On (With reminder)”, the on screen message will be displayed to be noticed before working this function.
- This function may not work properly depending on the connected equipment. If required, set to “Off”.

■ Features available (Using VIERA Link Menu)

Direct TV Recording - What you see is What you record **Direct TV Rec**

Recording the current programme in DIGA Recorder immediately.

- If you connect a variety of recorders including other manufacturers’ recorders at the same time, please connect DIGA Recorder to the TV’s lower HDMI terminal number. For example, if you use HDMI1 and HDMI2 for two recorders, in this case connect DIGA Recorder to HDMI1.
- If you cannot operate, check the settings and the equipment
 - ➔ “Summary of Q-Link and VIERA Link features” (p. 44 and p. 45), “Preparations” (p. 47)
- Changing channel or turning off the TV is available while the recorder is recording from its own tuner.
- Changing channel is not available while the recorder is recording from the TV tuner.

1 Display “VIERA Link Menu”

2 Select “Direct TV Rec” and start recording

| | |
|--------------------|-------------|
| VIERA Link Menu | |
| Pause Live TV | |
| Direct TV Rec | Start |
| VIERA Link Control | Recorder |
| Speaker Selection | Home Cinema |

● You can also start recording directly ➔

■ To stop recording
Select “Stop” in “Direct TV Rec” and access

| | |
|--------------------|-------------|
| VIERA Link Menu | |
| Pause Live TV | |
| Direct TV Rec | Stop |
| VIERA Link Control | Recorder |
| Speaker Selection | Home Cinema |

● You can also stop recording directly.

Unlock the tuner

➔

■ Features available (Using VIERA Link Menu)

Pause Live TV programme **Pause Live TV**

You can pause the live TV programme and resume later.

Live TV programme will be recorded on HDD of the connected DIGA Recorder.

- This function is available with DIGA Recorder which has HDD.
- If you connect a variety of recorders including other manufacturers' recorders at the same time, please connect DIGA Recorder which has HDD to the TV's lower HDMI terminal number. For example, if you use HDMI1 and HDMI2 for two recorders, in this case connect DIGA Recorder which has HDD to HDMI1.
- If you cannot operate, check the settings and the equipment
 - ➔ "Summary of Q-Link and VIERA Link features" (p. 44 and p. 45), "Preparations" (p. 47)

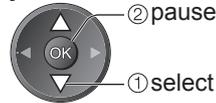
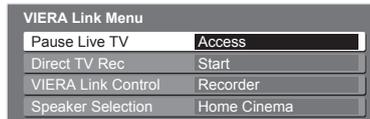
Access and pause the live TV programme



1 Display "VIERA Link Menu"



2 Select "Pause Live TV" and pause



The TV picture will be paused.

- You can also pause directly by using VIERA TOOLS
 - ➔ "How to Use VIERA TOOLS" (p. 41)
- Live TV programme is recorded on HDD from where it was paused.
- If the paused TV picture disappears after a few minutes
 - ➔ OPTION (the paused picture will be restored)
- Follow the operation guide to operate Pause Live TV function.

■ **To operate Pause Live TV**



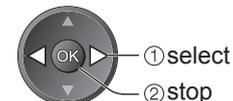
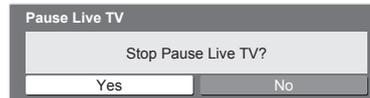
- Operations may be different depending on the recorder. In this case, follow the operation guide or read the manual of the recorder.

- If you stop playback, the recorded programme will be deleted from HDD.

■ **To return to Live TV**

(stop playback of Pause Live TV / cancel pause)

Select "Yes"



- If you stop playback or cancel pause, the recorded programme will be deleted from HDD.

Link Functions (Q-Link VIERA Link)

■ Features available (Using VIERA Link Menu)

Control the menu of the connected equipment by VIERA remote control

VIERA Link Control

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

- If you cannot operate, check the settings and the equipment
 - ➔ "Summary of Q-Link and VIERA Link features" (p. 44 and p. 45), "Preparations" (p. 47)
- For details of the operations for the connected equipment, read the manual of the equipment.

Access and operate the menu of the equipment

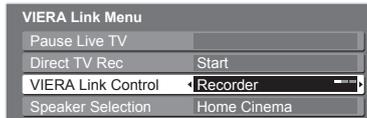


1

Display "VIERA Link Menu"

2

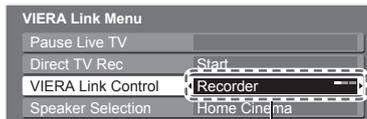
Select "VIERA Link Control"



3

Select the equipment you want to access

The type of the connected equipment is displayed. Select the type of the equipment and access.

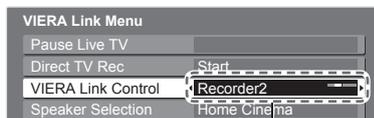


① select

② access

■ If multiple recorders or players are connected

You can connect up to three recorders or players at the same time.



Recorder1-2 / Player1-2

The number is given from the TV's lower HDMI terminal number connected to the same type equipment. For example, two recorders to HDMI1 and HDMI2, in this case the recorder connected to HDMI1 is displayed as "Recorder1", and the recorder connected to HDMI2 is displayed as "Recorder2".

■ If you access non-VIERA Link equipment



The type of the connected equipment is displayed. You can access the menu of the equipment. But you cannot operate it. Use its own remote control to operate the equipment.

Recorder / Player / Home Cinema / Video Camera / LUMIX / Other

- You can also access directly by using VIERA TOOLS
 - ➔ "How to Use VIERA TOOLS" (p. 41)
- "Home Cinema" means Player theatre, Blu-ray Disc theatre or Recorder theatre.
- "Other" means Tuner set top box.

The menu of the accessed equipment
(Input mode will be changed automatically)

4

Operate the menu of the equipment

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



① Set the code of the remote control to "73"

➔ "How to change the code for the type of the equipment" (p. 23)

② Follow the operation guide

- To display the operation guide ➔
 - If other manufacturers' equipment is accessed, Setup / Contents Selection menu may be displayed.

- When the key words are displayed on colour bar



Note

- Some operations may not be available depending on the equipment. In this case use its own remote control to operate the equipment.

■ Features available (Using VIERA Link Menu)

Speaker control **Speaker Selection**

You can control the theatre speaker with this TV remote control (point the remote control at the TV's signal receiver).

- If you cannot operate, check the settings and the equipment
 - ➔ "Summary of Q-Link and VIERA Link features" (p. 44 and p. 45), "Preparations" (p. 47)

Access and control the speaker volume

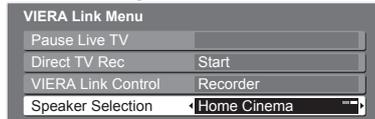


- 1
- 2
- 3

Display "VIERA Link Menu"



Select "Speaker Selection"



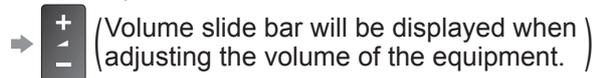
Set to "Home Cinema" or "TV"



■ Home Cinema

Player theatre, Blu-ray Disc theatre or Amplifier will be automatically turned on if it is in Standby mode and the sound is from theatre speakers connected to the equipment.

- 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.

Note

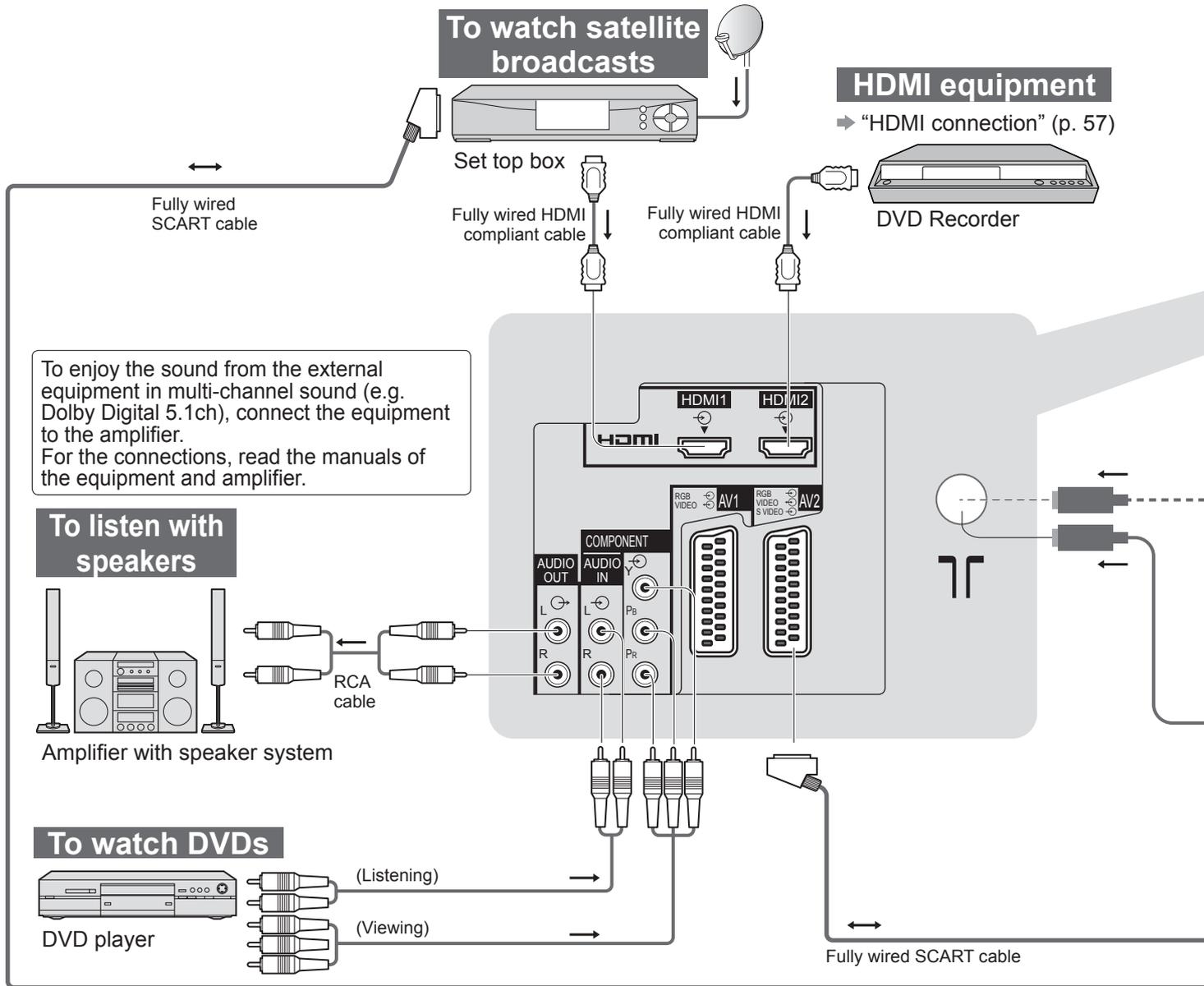
- To enjoy the sound from the DIGA Recorder in multi-channel sound, connect an HDMI cable from the DIGA Recorder to the Amplifier (p. 45).

Note

- These functions may not work properly depending on the connected equipment.
- Image or sound may not be available for the first few seconds when Input mode is switched.
- Easy playback may be available by using the remote control for Player theatre, Blu-ray Disc theatre or Amplifier. Read the manual of the equipment.
- "HDAVI Control 4" is the newest standard (current as of December, 2008) for HDAVI Control compatible equipment. This standard is compatible with conventional HDAVI equipment.
- To confirm this TV's version of HDAVI Control ➔ "System Information" (p. 29)

External Equipment

These diagrams show our recommendations for connection of your TV to various pieces of equipment. For other connections, consult the instructions for each piece of equipment, the table below, and the specifications (p. 62).

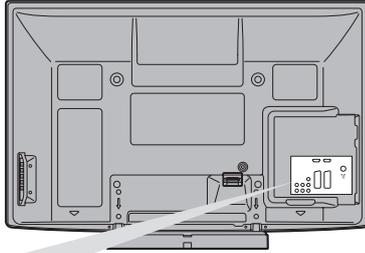


Types of connectable equipment to each terminal

| Terminal | AV1 | AV2 | AV3 (Side panel of TV) | |
|---|------------------|------------------|---------------------------|----------------------|
| Recording / Playback (equipment) | | | | 4 S-V V L R |
| 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 | ○ | ○ | | |
| VIERA Link | ○ (with HDMI) | ○ (with HDMI) | | |
| Direct TV Recording | ○ | ○ | | |

○: Recommended Connection

Rear of the TV

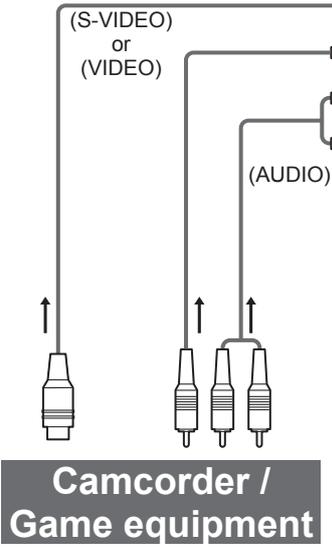


Terrestrial aerial

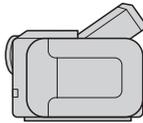


To record / playback

DVD Recorder / VCR



Camcorder / Game equipment



Headphones

To adjust volume
 → "Headphone Volume" in the Sound Menu (p. 27)

| COMPONENT | AUDIO OUT | HDMI | |
|--------------------------|--------------------------|--------------------------|--------------------------|
| | | 1 | 2 |
| | | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> |
| | <input type="checkbox"/> | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> |

Technical Information

Auto Aspect

The optimum size and aspect can be chosen automatically, and you can enjoy finer images. (p. 16)

■ Aspect Control Signal

“WIDE” will appear in the top left of the screen if a Widescreen signal (WSS) or a Control signal through SCART / HDMI terminal is found.

The aspect will switch to the appropriate 16:9 or 14:9 widescreen ratio.

This function will work in any aspect mode.

| Input terminal | Input signal format | Aspect Control Signal | |
|--|---------------------|-------------------------|---|
| | | Widescreen signal (WSS) | Control signal through SCART (pin8) / HDMI terminal |
| RF | DVB-T | ○ | |
| | PAL B, G, H, I | ○ | |
| | PAL D, K | ○ | |
| | SECAM B, G | ○ | |
| | SECAM L, L' | ○ | |
| | SECAM D, K | ○ | |
| | PAL 525/60 6.5 MHz | — | |
| | PAL 525/60 6.0 MHz | — | |
| | PAL 525/60 5.5 MHz | — | |
| | M.NTSC 6.5 MHz | — | |
| | M.NTSC 6.0 MHz | — | |
| | M.NTSC 5.5 MHz | — | |
| AV1 (Composite) AV2 (Composite or S-Video) AV3 | PAL | ○ | ○ |
| | SECAM | ○ | ○ |
| | PAL 525/60 | — | ○ |
| | M.NTSC | — | ○ |
| | NTSC | — | ○ |
| COMPONENT | 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 | — | |
| HDMI1 HDMI2 | 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 | — | ○ |
| | 1,125 (1,080) / 24p | — | ○ |

■ Auto mode

Auto mode determines the best aspect ratio to fill the screen. It does this using a four step process (WSS, Control signal through SCART / HDMI terminal, Letterbox detection, or Justify to fill the screen) to determine. This process may take several minutes, depending on the darkness of the image.

Letterbox detection: If black bands at the top and bottom of the screen are detected, Auto mode chooses the best ratio and expands the image to fill the screen.

If no aspect signals are detected, Auto mode enhances the image for optimum viewing pleasure.

Note

- The ratio varies depending on the programme, etc. If the ratio is out of the standard 16:9, black bands at the top and bottom of the screen may appear.
- If the screen size looks unusual when a widescreen-recorded programme is played back on a VCR, adjust the tracking of the VCR. Read the manual of the VCR.

SD Card

■ Cautions in handling SD Card

- Do not remove the card while the TV is accessing data (this can damage card or TV).
- Do not touch the pins on the back of the card.
- Do not subject the card to a high pressure or impact.
- Insert the card in the correct direction (otherwise, card may be damaged).
- Electrical interference, static electricity, or erroneous operation may damage the data or card.
- Back up the recorded data at regular intervals in case of deteriorated or damaged data or erratic operation of the TV. (Panasonic is not liable for any deterioration or damage of recorded data.)

■ Data format for Card browsing

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 (32 GB), SD Card (2 GB), miniSD Card (2 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

- Format the card with the recording equipment.
- The picture may not appear correctly on this TV depending on the recording equipment used.
- Display may take some time when there are many files and folders.
- This function cannot display Motion JPEG and still image not DCF formatted (i.e. TIFF, BMP).
- A data 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.
- All ".JPG" extension datas in the card will be read in Photo View Mode.
- 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 the file or folder names are changed.

■ On screen messages

| Message | Meaning / Action |
|---|--|
| Cannot read file | <ul style="list-style-type: none"> ● The file is broken or unreadable. ● The TV does not support the format. (For the applicable formats and data, see above.) |
| No SD card inserted | <ul style="list-style-type: none"> ● Confirm SD Card is inserted correctly. |
| No valid file to play | <ul style="list-style-type: none"> ● The card has no data. |
| Over 9999 pictures found (max. is 9999) | <ul style="list-style-type: none"> ● Maximum valid number of photos is 9,999. |

Technical Information

Characters table for numeric buttons

You can enter characters by using numeric buttons for free input items.

Press the numeric button repeatedly until you reach the desired character.

- 1 2 3** • The character is set automatically if you leave for one second.
- 4 5 6** • You can also set the character by pressing the OK button or other numeric buttons within one second.
- 7 8 9**
- 0**



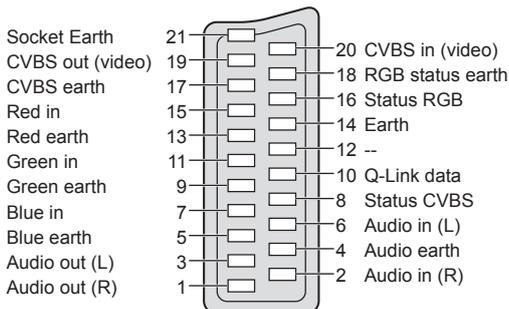
Characters table:

| Numeric buttons | The number of times to press | | | | | | | | | | |
|-----------------|------------------------------|---|---|---|---|---|---|---|---|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1 | . | 1 | ! | : | # | + | - | * | _ | (|) |
| 2 | a | b | c | 2 | A | B | C | | | | |
| 3 | d | e | f | 3 | D | E | F | | | | |
| 4 | g | h | i | 4 | G | H | I | | | | |
| 5 | j | k | l | 5 | J | K | L | | | | |
| 6 | m | n | o | 6 | M | N | O | | | | |
| 7 | p | q | r | s | 7 | P | Q | R | S | | |
| 8 | t | u | v | 8 | T | U | V | | | | |
| 9 | w | x | y | z | 9 | W | X | Y | Z | | |
| 0 | Space | 0 | | | | | | | | | |

SCART, S-VIDEO and HDMI terminal information

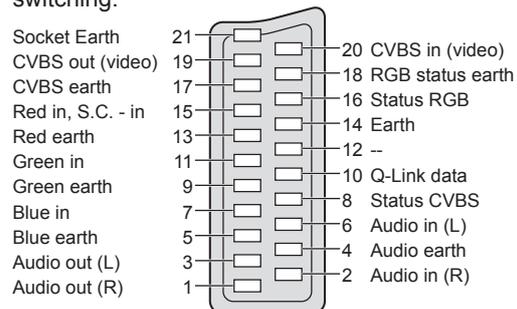
AV1 SCART terminal (RGB, VIDEO, Q-Link)

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

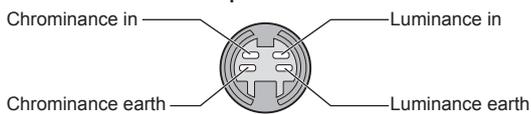


AV2 SCART terminal (RGB, VIDEO, S-VIDEO, Q-Link)

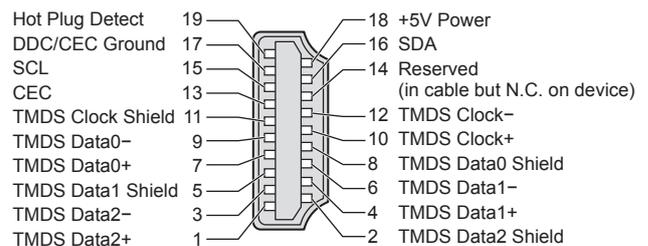
AV2 - Pins 15 and 20 are dependent on AV2 S-VHS / VIDEO switching.



AV3 S-VIDEO 4 pin terminal



HDMI terminal



HDMI connection

HDMI (high-definition multimedia interface) is the world's first complete digital consumer AV interface complying with a non-compression standard.

HDMI 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. 52).

■Applicable HDMI features

- Input audio signal: 2ch Linear PCM (sampling frequencies - 48 kHz, 44.1 kHz, 32 kHz)
- Input video signal : 480i, 480p, 576i, 576p, 720p, 1080i and 1080p
 - ➔ "Input signal that can be displayed" (p. 58)
Match the output setting of the digital equipment.
- Input PC signal : ➔ "Input signal that can be displayed" (p. 58)
Match the output setting of the PC.
- VIERA Link (HDAVI Control 4) : ➔ "VIERA Link" (p. 47)
- x.v.Colour™

■DVI connection

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).

Note

- Audio settings can be made on the "HDMI1 Input" in the Sound Menu. (p. 27)
- HDMI2 terminal is for digital audio signal only.
- 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.
- This TV incorporates HDMI™ (Version 1.3a with x.v.Colour™) technology.

(*1): The HDMI logo is displayed on HDMI-compliant equipment.

(*2): Enquire at your local digital equipment retailer shop.

Technical Information

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 | | * |
| 1,125 (1,080) / 24p | | * |

PC (from HDMI terminal)

Applicable input signal for PC is basically compatible to HDMI standard timing.

| Signal name | Horizontal frequency (kHz) | Vertical frequency (Hz) |
|---------------------|----------------------------|-------------------------|
| 640 × 480 @60 Hz | 31.47 | 60.00 |
| 750 (720) / 60p | 45.00 | 60.00 |
| 1,125 (1,080) / 60p | 67.50 | 60.00 |

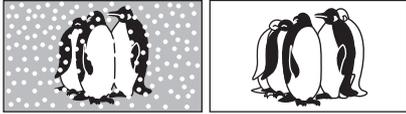
Note

- Signals other than above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.
- 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 the 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?
- Check the correct AV input mode is selected.
- Check the mains lead is plugged into the socket outlet.
- Has the TV been turned On?
- Check the Picture Menu (p. 26) 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 ratio to fill the screen. (p. 54)
- Press the ASPECT button if you would like to change the aspect ratio manually (p. 16).

S-Video / black and white picture

- Check that the output of the external equipment matches the input of the TV. If the output of the external equipment is set to S-Video, the TV must also be set to S-Video (p. 22).

No programmes shown on TV Guide

- Check the digital transmitter.
- Adjust the direction of the aerial to another transmitter installed nearby.
- Check the analogue broadcast. If the image quality is poor, check the aerial and consult your nearest dealer.



Remains channel number, input mode, etc. on the TV screen -i.e. EC/AV1

- Press the **i** button to clear these. Press again to redisplay.

Q-Link function does not work

- Confirm SCART cable and connection. Also set "AV1 / AV2 out" in the Setup Menu (p. 28).

"VIERA Link" function does not work and an error message appears

- Confirm the connection. (p. 44 and p. 45)
- Turn the connected equipment on and then switch the TV on. (p. 47)

Recording does not start immediately

- Check the settings of the recorder. For details, read the manual of the recorder.

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 in the following conditions without any user operation for a few minutes:
 - no signal in DVB or AV mode
 - selected locked channel
 - selected invalid channel
 - selected radio channel
 - displayed menu
 - Thumbnail or still picture in SD Card mode

FAQs

| | Problem | Actions |
|-----------------|--|---|
| Screen | Chaotic image, noisy | <ul style="list-style-type: none"> ● Set “P-NR” in the Picture Menu (to remove noise). (p. 26) ● 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. 26) |
| | Blurry or distorted image (no sound or low volume) | <ul style="list-style-type: none"> ● Reset channels. (p. 30 and p. 31) |
| | Unusual image is displayed | <ul style="list-style-type: none"> ● Turn the TV Off with Mains power On / Off switch, then turn it On again. ● If the problem persists, perform “Shipping Condition” (p. 39). |
| Sound | No sound is produced | <ul style="list-style-type: none"> ● Is “Sound mute” active? (p. 9) ● 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. 27) in the Sound Menu to “Off”. (Analogue only) |
| Digital Channel | <ul style="list-style-type: none"> ● Due to the digital reception technologies involved, quality of the digital signals may be relatively low in some cases, despite good reception of analogue channels. | |
| | Interference or frozen / disappearing image in DVB mode | <ul style="list-style-type: none"> ● Check “Signal Condition” (p. 32). If “Signal Quality” or “Signal Strength” are displayed in red, the signal is weak. ● Check aerial. If problem persists, consult your local dealer. ● Weather conditions will affect signal reception (heavy rain, snow, etc.), in particular in poor reception areas. Even during good weather the high pressure can cause poor reception of some channels. ● Turn the TV off with the Mains power On / Off switch, then turn it On again. |
| | Some channels cannot be tuned | <ul style="list-style-type: none"> ● Check the aerial. ● Consult your local dealer. |
| HDMI | Sound is unusual | <ul style="list-style-type: none"> ● Set the sound setting of the connected equipment to “2ch L.PCM”. ● Check the “HDMI1 Input” setting in the Sound Menu. (p. 27) ● If digital sound connection has a problem, select analogue sound connection. (p. 57) |
| | Pictures from external equipment are unusual when the equipment is connected via HDMI | <ul style="list-style-type: none"> ● Check the HDMI cable is connected properly. (p. 52) ● Turn the TV and equipment Off, then turn them On again. ● Check an input signal from the equipment. (p. 58) ● Use an equipment compliant with EIA/CEA-861/861B. |
| Other | The TV does not switch On | <ul style="list-style-type: none"> ● Check the mains lead is plugged into the socket outlet. |
| | The TV goes into “Standby mode” | <ul style="list-style-type: none"> ● Off Timer function is activated. ● The TV enters “Standby mode” about 30 mins. after analogue broadcasting ends. |
| | The remote control does not work or is intermittent | <ul style="list-style-type: none"> ● Are the batteries installed correctly? (p. 6) ● Has the TV been switched On? ● The batteries may be running low. Replace them. ● Point the remote control directly at the front of the TV (within a 30 degree angle of the front of the TV). ● Situate the TV away from sunshine or other sources of bright light not to shine on the TV’s remote control signal receiver. |
| | An error message appears | <ul style="list-style-type: none"> ● Follow the message’s instructions. ● If the problem persists, contact the authorized Service Centre. |

Licence

Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.

- DVB is a trademark of the DVB Digital Video Broadcasting Project (1991 to 1996).
- SDHC Logo is a trademark.
- HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- HDAVI Control™ is a trademark of Panasonic Corporation.
- x.v.Colour™ is a trademark.
- GUIDE Plus+ is (1) a registered trademark or trademark of, (2) manufactured under license from and (3) subject of various international patents and patent applications owned by, or licensed to, Gemstar-TV Guide International, Inc. and/or its related affiliates.



Trade Mark of the DVB Digital Video Broadcasting Project (1991 to 1996)

TX-P37C10E Declaration of Conformity No. 6168, 5 December 2008

TX-P37C10ES Declaration of Conformity No. 6625, 19 February 2009

TX-P42C10E Declaration of Conformity No. 6167, 5 December 2008

TX-P42C10ES Declaration of Conformity No. 6624, 19 February 2009

TX-P50C10E Declaration of Conformity No. 6166, 5 December 2008

Specifications

| | | TX-P37C10E TX-P37C10ES | TX-P42C10E TX-P42C10ES | TX-P50C10E | |
|--|-----------------------------|---|--|--|-----------------------|
| Power Source | | AC 220-240 V, 50 / 60 Hz | | | |
| Power Consumption | | 230 W | 245 W | 350 W | |
| Power Consumption in Standby mode | | 0.7 W (Without monitor out recording) 15 W (With monitor out recording) | | 0.5 W (Without monitor out recording) 15 W (With monitor out recording) | |
| Display panel | Aspect Ratio | 16:9 | | | |
| | Visible screen size | 94 cm (diagonal) 819 mm (W) × 457 mm (H) | 106 cm (diagonal) 921 mm (W) × 518 mm (H) | 127 cm (diagonal) 1,106 mm (W) × 622 mm (H) | |
| | Number of pixels | 737,280 (1,024 (W) × 720 (H)) [3,072 × 720 dots] | 786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots] | 1,049,088 (1,366 (W) × 768 (H)) [4,098 × 768 dots] | |
| Sound | Speaker | 160 mm × 40 mm × 2 pcs, 6 Ω | | | |
| | Audio Output | 20 W (10 W + 10 W), 10% THD | | | |
| | Headphones | M3 (3.5 mm) stereo mini Jack × 1 | | | |
| Receiving Systems / Band name | | PAL B, G, H, I, SECAM B, G, SECAM L, L' VHF E2 - E12 VHF H1 - H2 (ITALY) VHF A - H (ITALY) UHF E21 - E69 CATV (S01 - S05) CATV S1 - S10 (M1 - M10) CATV S11 - S20 (U1 - U10) CATV S21 - S41 (Hyperband) PAL D, K, SECAM D, K VHF R1 - R2 VHF R3 - R5 VHF R6 - R12 UHF E21 - E69 PAL 525/60 Playback of NTSC tape from some PAL Video recorders (VCR) DVB-T Digital terrestrial services M.NTSC Playback from M. NTSC Video recorders (VCR) NTSC (AV input only) Playback from NTSC Video recorders (VCR) ●TV signals may not be received in some areas. | | | |
| Aerial input | | VHF / UHF | | | |
| Operating Conditions | | Temperature : 0 °C - 35 °C Humidity : 20 % - 80 % RH (non-condensing) | | | |
| Connection Terminals | AV1 (SCART terminal) | 21 Pin terminal (Audio/Video in, Audio/Video out, RGB in, Q-Link) | | | |
| | AV2 (SCART terminal) | 21 Pin terminal (Audio/Video in, Audio/Video out, RGB in, S-Video in, Q-Link) | | | |
| | AV3 | VIDEO | RCA PIN Type × 1 | 1.0 V[p-p] (75 Ω) | |
| | | S-VIDEO | Mini DIN 4-pin | Y:1.0 V[p-p] (75 Ω) | C:0.286 V[p-p] (75 Ω) |
| | | AUDIO L - R | RCA PIN Type × 2 | 0.5 V[rms] | |
| | COMPONENT | VIDEO | Y | 1.0 V[p-p] (including synchronization) | |
| | | AUDIO L - R | P _B , P _R | ±0.35 V[p-p] | |
| | Others | HDMI 1 / 2 | TYPE A Connectors | HDMI™ (Version 1.3a with x.v.Colour™) | |
| Card slot | | ●This TV supports "HDAVI Control 4" function. SD Card slot × 1 | | | |
| Output | AUDIO L - R | RCA PIN Type × 2 | 0.5 V[rms] (high impedance) | | |
| Dimensions (W × H × D) | | 929 mm × 644 mm × 327 mm (With Pedestal) 929 mm × 596 mm × 100 mm (TV only) | 1,029 mm × 709 mm × 327 mm (With Pedestal) 1,029 mm × 661 mm × 100 mm (TV only) | 1,218 mm × 822 mm × 387 mm (With Pedestal) 1,218 mm × 769 mm × 100 mm (TV only) | |
| Mass | | 24.0 kg Net (With Pedestal) 22.0 kg Net (TV only) | 28.0 kg Net (With Pedestal) 26.0 kg Net (TV only) | 36.0 kg Net (With Pedestal) 34.0 kg Net (TV only) | |

Note

- Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.
- This equipment complies with the EMC standards listed below.
EN55013, EN61000-3-2, EN61000-3-3, EN55020.
- Pedestal: ST-42RF1WG / ST-42RF1WS / ST-50RF1WG (For safety approval)

MEMO

Information for Users on Collection and Disposal of Old Equipment and used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.



By disposing of these products and batteries correctly, you 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.



For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

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]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.



Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Cd

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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 _____

Panasonic Corporation

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