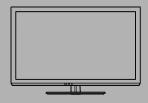
Panasonic

Model No. TX-L32X5B

Operating Instructions LCD Television





Thank you for purchasing this Panasonic product. Please read these instructions carefully before operating this product and retain them for future reference.

The images shown in this manual are for illustrative purposes only.



Features

DVB-T tuner built-in

Receives DVB (Digital Video Broadcasting) digital terrestrial broadcasts.

DVB-T2 tuner built-in [UK only]

DVB-T2 is an advanced digital terrestrial system for more efficient transmission.

Available DVB-T2 broadcasts will be tuned automatically when you perform DVB Auto Setup.

GUIDE Plus+ (p. 20) UK only

This TV supports the TV Guide services sent from the GUIDE Plus+ system.

Sharp pictures and clear sound with HDMI connection (p. 73)

Enjoy high definition digital picture and high quality sound by using an HDMI cable.

Using USB devices

Enjoy the photo, video and music in the USB Flash Memory on Media Player. (p. 52)

VIERA IMAGE VIEWER - SD Card viewer in Media Player (p. 52)

Enjoy your photos or videos recorded on an SD Card on the TV screen.

SDXC Card

This TV supports SDXC Card. SDXC is the latest standard of SD Card and a higher storage capacity card

AVCHD

It is possible to play moving pictures recorded on an SD Card or USB Flash Memory in AVCHD format. AVCHD is a high definition video recording format. (p. 71)

Timer Programming (p. 21, 43)

Timer Programming enables you to use functions such as programme reminder and programme recording to the external recorder.

Link up and control the connected equipment with "Q-Link" and "VIERA Link" (p. 60)

Q-Link and VIERA Link provide easy recording and playback, creation of a home theatre without complicated settings, etc.

VIERA TOOLS - Display special feature icons for easy accessibility (p. 28)

Special features (such as VIERA Link and Media Player) can be accessed easily by using the VIERA TOOLS button.

Dolby Digital Plus decoders

It is possible to decode Dolby Digital Plus multi-channel audio tracks and output as Dolby Digital Bitstream (multi-channel sound signal) from DIGITAL AUDIO OUT / HDMI2 (ARC function) terminals.

Owner ID (p. 49)

Owner ID is an anti-theft function. Entering the PIN number and owner's personal information will help the Police to determine the owner in the case of theft.

Supports Audio Description signal (p. 17, 32)

Audio Description (when broadcast) adds an additional soundtrack to describe events on screen (narration) and aids understanding and enjoyment, particularly for visually-impaired users.

Digital Switchover for Terrestrial broadcasts UK only

Starting in late 2007 and ending in 2012, TV services in the UK will go completely digital, TV region by TV region. If you have any questions, please call Digital UK on **08456 50 50 50** or visit **www.digitaluk.co.uk**

Digital Switchover will cover a period of several weeks. When it starts you will lose all Analogue TV channels and some Digital TV channels will be missing.

You will need to retune your TV each time this happens to recover your digital channels. Analogue channels are permanently turned off, it will not be possible to recover them.

To retune your TV ⇒ [Auto Setup] in [DVB Tuning Menu]-DVB mode (p. 38)

Users of cable or satellite boxes should still retune the TV to continue to receive Freeview channels via their aerial. (Your Analogue channel for viewing Cable or Satellite services will change to a new position.)

 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.

Transport only in upright position

Panasonic does not guarantee operation and performance of peripheral devices made by other manufacturers; and we disclaim any liability or damage arising from operation and/ or performance from usage of such other maker's peripheral devices.

This product is licensed under the AVC patent portfolio license for the personal and non-commercial use of a consumer to (i) encode video in compliance with the AVC Standard ("AVC Video") and/or (ii) decode AVC Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed to provide AVC Video. No license is granted or shall be implied for any other use.

Additional information may be obtained from MPEG LA, LLC. See http://www.mpegla.com.

Rovi Corporation and/or its subsidiaries and related affiliates are not in any way liable for the accuracy or availability of the program schedule information or other data in the Rovi Guide system and cannot guarantee service availability in your area. In no event shall Rovi Corporation and/or its related affiliates be liable for any damages in connection with the accuracy or availability of the program schedule information or other data in the Rovi Guide system.

Notice for DVB / Data broadcasting

This TV is designed to meet the standards (as of August, 2011) of digital services.

- Not all the features are available depending on the country, area, broadcaster, service provider and network environment.
- The compatibility with future services is not guaranteed.
- Check the latest information on the available services at the following website.

http://panasonic.jp/support/global/cs/tv/

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Enjoy your TV!

Basic

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Safety Precautions

Warning

■ Mains plug and lead

To help avoid risk of electrical shock, fire, damage or injury, please follow the warnings below:

- This TV is designed to operate on AC 220-240 V, 50 / 60 Hz.
- Insert the mains plug fully into the socket outlet.
- Ensure that the mains plug is easily accessible.
- Remove the mains plug when cleaning the TV.
- Do not touch the mains plug with a wet hand.



Do not damage the mains lead.

 Do not place a heavy object on the lead.



 Do not place the lead near a high temperature object.

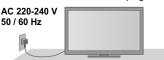


 Do not pull on the lead.
 Hold onto the mains plug body when disconnecting the plug.



- · Do not move the TV with the lead plugged into a socket outlet.
- Do not twist the lead, bend it excessively or stretch it.
- · Do not use a damaged mains plug or socket outlet.
- · Ensure the TV does not crush the mains lead.
- Do not use any mains lead other than that provided with this TV.

If you detect anything unusual, immediately switch off the mains supply switch and remove the mains plug.



IMPORTANT: THE MOULDED MAINS PLUG

FOR YOUR SAFETY, PLEASE READ THE FOLLOWING TEXT CAREFULLY.

This TV is supplied with a moulded three pin mains plug for your safety and convenience.

A 5 amp fuse is fitted in this mains plug. Shall the fuse need to be replaced, please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark 🔊 or the BSI mark 🛇 on the body of the fuse.

If the mains plug contains a removable fuse cover, you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the mains plug must not be used until a replacement cover is obtained.

A replacement fuse cover may be purchased from your local dealer.

Do not cut off the mains plug.

Do not use any other type of mains lead except the one supplied with this TV.

The supplied mains lead and moulded plug are designed to be used with this TV to avoid interference and for your safety.

If the socket outlet in your home is not suitable, get it changed by a qualified electrician. If the plug or mains lead becomes damaged, purchase a replacement from an authorized dealer.

How to replace the fuse

For plug type shown in example 1:

Lift out the removable fuse compartment with a screwdriver and replace the fuse, then refit securely into the mains plug (see example 1).

For plug type shown in example 2:

Lift open the fuse compartment, in the mains plug, with a screwdriver, and replace the fuse, then press the fuse cover down securely (see example 2).





Warning

■ Take care

To help avoid risk of electrical shock, fire, damage or injury, please follow the warnings below:

- Do not remove covers and never modify the TV yourself as live parts are accessible when they are removed. There are no user serviceable parts inside.
- Do not expose the 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 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 the TV on sloped or unstable surfaces, and ensure that the TV does not hang over the edge of the base.



- Do not insert foreign objects into the TV through the air vents.
- Do not use an unapproved pedestal / mounting equipment. Be sure to ask your local Panasonic dealer to perform the setup or installation of approved wall-hanging brackets.
- Do not apply strong force or impact to the display panel.
- This TV is designed for Table-top use.

To prevent the spread of fire, keep candles or other open flames away from this product at all times



■ Small object

This product contains possibly dangerous parts that can be breathed in or swallowed by young children accidentally.

Keep the dangerous parts out of reach of young children.

 Do not allow children to handle SD Card. As with any small object, the SD Card could be swallowed by young children. Please remove SD Card immediately after use and store out of reach of young children.





Caution

■ Ventilation

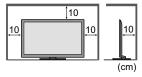
Allow sufficient space around the TV in order to help prevent excessive heat, which could lead to early failure of some electronic components.

 Ventilation should not be impeded by covering the ventilation openings with items such as newspapers, tablecloths and curtains.



 Whether you are using the pedestal or not, always ensure the vents in the bottom of the TV are not blocked and there is sufficient space to enable adequate ventilation.

Minimum distance



■ Moving the TV

Before moving the TV, disconnect all cables.

■ When not in use for a long time

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.

Remove the mains plug from the wall socket when the TV is not in use for a prolonged period of time.

■ Excessive volume

Do not expose your ears to excessive volume from the headphones. Irreversible damage can be caused.



Accessories / Options

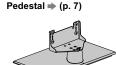
Standard accessories

Remote Control

N2QAYB000717



Batteries for the Remote Control (2) R6 (p. 8)







Operating Instructions

Production Registration Leaflet

- Accessories may not be placed all together. Take care not to throw them away unintentionally.
- 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.

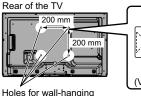
Optional accessories

Please contact your local Panasonic dealer to purchase the recommended optional accessories. For additional details, please read the manual of the optional accessories.

Wall-hanging bracket

TY-WK3L2RW





bracket installation

Depth of screw: minimum 8 mm, maximum 12 mm Diameter: M6

Screw for fixing the TV onto the wall-hanging bracket (not supplied with the TV)

View from the side)

Warning

- Using other wall-hanging brackets, or installing a wall-hanging bracket by yourself has the risk of personal injury and product damage. In order to maintain the unit's performance and safety, be sure to ask your dealer or a licensed contractor to secure the wall-hanging brackets. Any damage caused by installing without a qualified installer will void your warranty.
- · Carefully read the instructions accompanying optional accessories, and be sure to take steps to prevent the TV from falling off.
- Handle the TV carefully during installation since subjecting it to impact or other forces may cause product damage which will void your warranty.
- Do not mount the unit directly below ceiling lights (such as spotlights or halogen lights) which typically give off high heat. Doing so may warp or damage plastic cabinet parts.
- Take care when fixing wall brackets to the wall. Wall mounted equipment must not be grounded by metal within 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 for an extended period of time.

Attaching / removing 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 pedestal other than the one provided with this TV.

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 local 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.

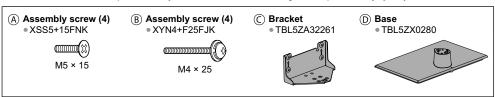
 If the TV is knocked or children climb onto the pedestal with the TV installed, the TV may fall over and personal injury may result.

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.

When removing the pedestal from the TV, do not remove the pedestal by the methods other than the specified procedure. ⇒(p. 7)

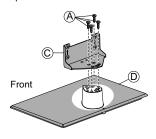
Otherwise the TV and / or pedestal may fall over and become damaged, and personal injury may result.



Assembling the pedestal

Use the assembly screws (A) to fasten the bracket (C) to the base (D) securely.

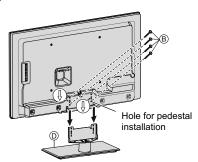
- Make sure that the screws are securely tiahtened.
- Forcing the assembly screws the wrong way will strip the threads.



Securing the TV

Use the assembly screws (B) to fasten securely.

- Tighten the four assembly screws loosely at first, then tighten them firmly to fix securely.
- Carry out the work on a horizontal and level surface.



Removing the pedestal from the TV

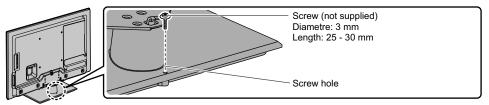
Be sure to remove the pedestal in the following way when using the wall-hanging bracket or repacking the TV.

- 1 Remove the assembly screws ® from the TV.
- 2 Pull out the pedestal from the TV.
- 3 Remove the assembly screws (A) from the bracket.

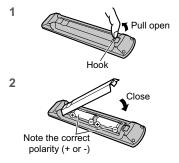
Preventing the TV from falling over

Using the fall-prevent screw hole and a screw (commercially available), securely fix the body of the pedestal to the installation surface.

• The place where the pedestal is to be fixed should be thick enough and made of hard material.



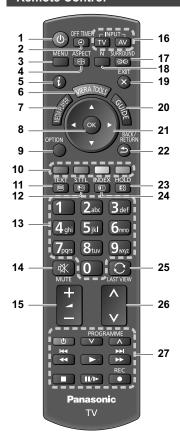
Installing / removing remote's batteries



- Incorrect installation may cause battery leakage and corrosion, resulting in damage to the remote control.
- Do not mix old and new batteries.
- Replace only with same or equivalent type. Do not mix different battery types (such as alkaline and manganese batteries).
- Do not use rechargeable (Ni-Cd) batteries.
- Do not burn or break up batteries. Batteries must not be exposed to excessive heat such as sunshine, fire, etc.
- Make sure you dispose of batteries correctly.
- Ensure batteries are replaced correctly, there is danger of explosion and fire if battery is reversed.
- Do not disassemble or modify the remote control.

Identifying Controls

Remote Control



1 Standby On / Off switch

Switches TV on or off standby.

2 OFF TIMER ⇒ (p. 17)

 Turn the TV to Standby mode automatically after a fixed period

3 [Main Menu] **→** (p. 36)

 Press to access Picture, Sound, Timer and Setup Menus.

4 Aspect ⇒ (p. 23)

Changes aspect ratio.

5 Information ⇒ (p. 21)

Displays channel and programme information.

6 VIERA TOOLS **⇒** (p. 35)

 Displays some special feature icons and accesses easily.

7 [Media Player] ⇒ (p. 41)

 Switches to SD Card and USB device viewing / listening mode

8 OK

- · Confirms selections and choices.
- Press after selecting channel positions to quickly change channel.
- Displays the Channel List.

9 [Option Menu] ⇒ (p. 22)

Easy optional setting for viewing, sound, etc.

10 Coloured buttons

(red-green-yellow-blue)

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

11 Teletext ⇒ (p. 27)

Switches to teletext mode.

12 Subtitles ⇒ (p. 23)

Displays subtitles.

13 Numeric buttons

- Changes channel and teletext pages.
- Changes channeSets characters.
- When in Standby mode, switches TV on (Press for about 1 second).

14 Sound Mute

Switches sound mute on or off.

15 Volume Up / Down

16 Input mode selection

- TV switches DVB / Analogue mode. ⇒ (p. 20)
- AV switches to AV input mode from Input Selection list. ⇒ (p. 30)

17 Surround → (p. 39)

• Switches surround sound setting

18 Normalise **→** (p. 36)

Resets picture and sound settings to their default levels

10 Fyit

Returns to the normal viewing screen.

20 TV Guide ⇒(p. 24)

21 Cursor buttons

Makes selections and adjustments.

22 Return

Returns to the previous menu / page.

23 Hold

- Freezes / unfreezes the picture. ⇒ (p. 22)
- Holds the current teletext page (teletext mode).
 (p. 28)

24 Index (p. 28)

Returns to the teletext index page (teletext mode).

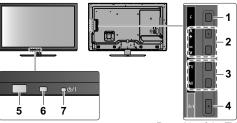
25 Last view ⇒ (p. 21)

 Switches to previously viewed channel or input mode.

26 Channel Up / Down

27 Operations for contents, connected equipment, etc. → (p. 31, 62, 74, 80, 82)

Indicator / Control panel



Rear side of the TV

1 Function select

- [Volume] / [Contrast] / [Brightness] / [Colour] / [Sharpness] / [Tint] (NTSC signal) / [Bass]* / [Treble]* / [Balance] / [Auto Setup] (p. 38) *[Music] or [Speech] mode in the Sound Menu
- 2 Channel Up / Down, Value change (when using the F button), Switching the TV on (press either button for about 1 second when in Standby mode)
- 3 Changes the input mode
- 4 Standby On / Off switch
 - Switches TV On or Off standby
 - To completely Off the TV, please switch off the wall socket or remove the mains plug from the wall socket.

5 Remote control signal receiver

- Do not place any objects between the TV remote control signal receiver and remote control.
- 6 C.A.T.S. (Contrast Automatic Tracking System)
 - Senses brightness to adjust picture quality when [C.A.T.S.] in the Picture Menu is set to [On]. ⇒ (p. 30)
- 7 Power and Timer LED

Red: Standby

Green: On

Orange: Timer Programming On

Orange (flash):

Recording of Timer Programming or Direct TV Recording in progress

Red with orange flash:

Standby with Timer Programming On or Direct TV Recording

• The LED blinks when the TV receives a command from the remote control.

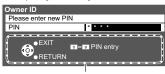
Using the On Screen Displays - Operation guide

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

■ Operation guide

Operation guide will help you to operate by using the remote control.

Example: [Owner ID]



Operation guide

■ How to use remote control



Open the main menu



Move the cursor / select from a range of options / select the menu item (up and down only) / adjust levels (left and right only)



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



Return to the previous menu



Exit the menu system and return to the normal viewing screen

Auto power standby function

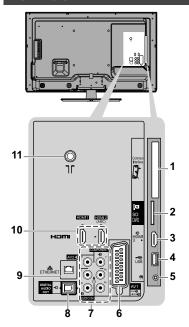
The TV will automatically go to Standby mode in the following conditions:

- · no signal is received and no operation is performed for 30 minutes in Analogue TV mode
- [Off Timer] is active in the Setup Menu (p. 18)
- · no operation is performed for the period selected in [Auto Standby] (p. 34)
- This function does not affect the recording of Timer Programming and Direct TV Recording.

Basic Connection

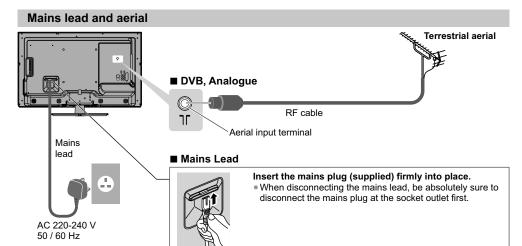
External equipment and cables shown are not supplied with this TV. Please ensure that the unit is disconnected from the mains socket before attaching or disconnecting any leads.

Terminals



- 1 Cl slot ⇒ (p. 50)
- 2 SD Card slot ⇒ (p. 52)
- 3 HDMI 3 terminal ⇒ (p. 68)
- 4 USB port ⇒ (p. 52)
- 5 Headphone jack ⇒ (p. 68)
- 6 AV1 (SCART) ⇒ (p. 12, 13)
- 7 AV2 (COMPONENT / VIDEO) ⇒ (p. 68, 69)
- 8 DIGITAL AUDIO OUT ⇒ (p. 69)
- 9 ETHERNET ⇒ (p. 46, 68)
- 10 HDMI 1 2 terminal **→** (p. 12, 13)
- 11 Terrestrial terminal ⇒ (p. 11)

Connections

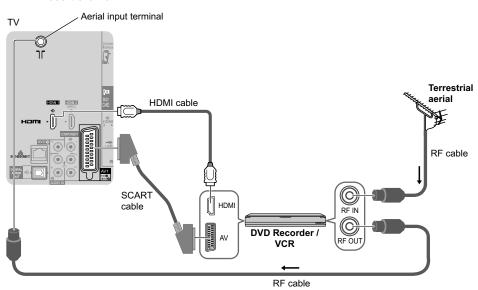


AV devices

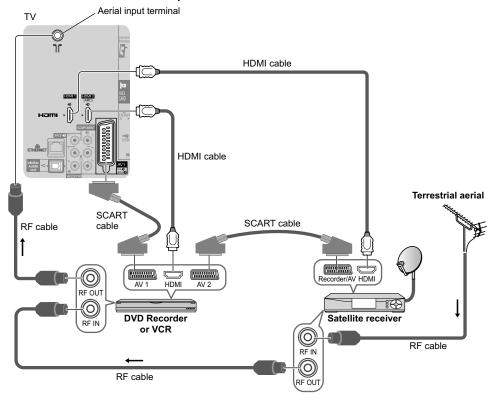
■ Player



■ DVD Recorder / VCR



■ DVD Recorder / VCR and Set top box



- Connect to the TV's AV1 for a DVD Recorder / VCR supporting Q-Link (p. 62).
- Q-Link and VIERA Link connection ⇒ (p. 60, 61)
- Please also read the manual of the equipment being connected.
- Keep the TV away from electronic equipment (video equipment, etc.) or equipment with an infrared sensor. Otherwise, distortion of image / sound may occur or operation of other equipment may be interfered.
- When using a SCART or HDMI cable, use the fully wired one.
- Check the type of terminals and cable plugs are correct when connecting.

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. 11 13) and settings (if necessary) of the connected equipment before starting Auto Setup. For details of settings for the connected equipment, read the appropriate manual.



ОK

2_{abc} 3_{def} 5_{jkl} 6_{mno} 7pgrs 8tuv 9wxz 0

Panasonic

ΤV

Plug the TV into mains socket and switch On

• Takes a few seconds to be displayed.

Select your country





Example: [UK]



Auto Setup will start to search for TV channels and store them in the numbered order as specified by the broadcasters.

 Actual number of channels may differ due to channel duplication.

Example: (Ireland)





If Q-Link or similar technology (p. 62) compatible recorder with analogue tuner is connected, analogue channel setting is automatically downloaded to the recorder. (Digital channel setting is not downloaded.)

- If downloading has failed, you can download later through the Setup
- ⇒ "Q-Link Download" (p. 33)

3 Input Owner ID



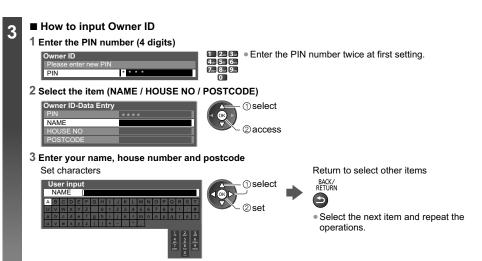
Please enter your own choice of PIN number, name, etc. to help the police to crack crime.

- Make a note of the PIN number in case you forget it. The PIN number cannot be
- You can input or change the Owner ID later. ⇒ [Owner ID] (p. 49)
- To skip this step



 This step will be skipped in the Auto Setup after [Shipping Condition] (p. 48) is performed.





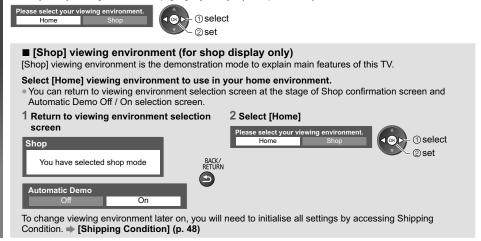
- You can set characters by using numeric buttons.
- "Characters table for numeric buttons" (p. 74)

4 Exit to go to next step

EXIT

Select [Home]

Select [Home] viewing environment (highlight [Home] in yellow) to use in your home environment.



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

If tuning has failed, check the connection of the RF cable, and then, follow the on screen instructions.

- To check channel list at-a-glance → "Using TV Guide" (p. 20)
- To edit or hide (skip) channels → "Tuning and Editing Channels" (p. 39 42)
- To retune all channels → [Auto Setup] (p. 38)
- To initialise all settings ⇒ [Shipping Condition] (p. 48)

Watching TV



Turn power on



Press for about 1 second

Select DVB or Analogue



 Also possible to select the mode by pressing the TV button on the TV (p. 10).



Information banner ⇒ (p. 17)

Select a channel



DVB channel position numbers run from 1 onwards.

Analogue channel position numbers run in the ranges 0 - 99.

 To select a two or three-digit channel position number, e.g. 399



■ Select a channel using Information banner (p. 17)

It is possible to confirm the channel name and programme information by using the Information banner before changing channels.

1 Display Information banner if it is not displayed



Volume

2 While the banner is displayed, select the channel



1 2. 3.

4... 5... 6...

■ Select a channel using TV Guide (p. 20)

It is possible to confirm the channel and programme information by using the TV Guide (EPG) before changing channels.

1 Display TV Guide

2 Select a current programme or channel



3 Select [View] (DVB mode)







To watch pay-TV ⇒ "Using Common Interface" (p. 50)

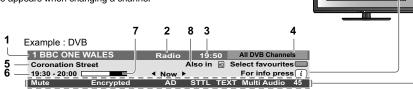
Other useful functions

Display Information banner

Display Information banner



Also appears when changing a channel



- 1 Channel position and name
- 2 Channel type ([Radio], [Data], [HDTV], etc.)
- 3 Current time
- 4 [All DVB Channels] or [Favourites1-4] (p. 38) (DVB)
 - To switch (blue)
- 5 Programme

- 6 Programme Start / Finish time (DVB) Channel number, etc. (Analogue)
- 7 Progress time indicator of the selected programme (DVB)
- 8 Same programme available as HD broadcast UK only
 - To display the extra information for details



Features available / Message meanings

[Mute] Sound mute On	[AD] UK only Audio Description service available This function can aid visually-	[TEXT] Teletext service available [Multi Audio]	
 [Bad signal]	impaired viewers by adding an additional audio track to describe	Multiple audio available	
Poor TV signal quality	events on screen. • For settings	[Stereo], [Mono], [NICAM] Audio mode	
 [Encrypted] Scrambled programme	[STLL] Subtitle service available	1 - 90 Off Timer remaining time • For settings • (p. 18)	

- To confirm another tuned channel name
- . To watch the channel listed in the banner
- Information on the next programme (DVB)





Extra information (DVB)



(Press again to hide the banner)



- To set display timeout
 - **⇒** [Banner Display Timeout] (p. 34)

• [AD], [STTL], [TEXT], [Multi Audio] indications are displayed as available on particular programmes, but may not be available for all individual programmes being broadcast. Display the extra information to confirm availability of these functions.



Last view

Switch to previously viewed channel or input mode easily



EXIT

Press again to return to the present view.

- Switching channel is not available while the recording of Timer Programming or Direct TV Recording is in progress.
- Watching less than 10 seconds is not regarded as the previously viewed channel or input mode.

Hold

Freeze / unfreeze picture



Display the selectable settings for the current status

Check or change the current status instantly



To change



[Audio Description] [UK only]

(DVB mode)

Set to [Auto] if the programme has Audio Description service, then you will hear an additional audio track to describe events on screen

- To adjust the volume for Audio Description
 - → [Audio Description Menu] (p. 32)

[Multi Audio]

(DVB mode)

Allows you to select between alternative language for sound tracks (if available)

 This setting is not memorised and it will return to the default setting once you exit the current programme.

[Monaural Audio]

(DVB mode)

Allows you to select stereo / monaural (if available)

 This setting is not memorised and it will return to the default setting once you exit the current programme.

[Subtitle Language]

(DVB mode)

Allows you to select the language in which subtitles should appear (if available)

 This setting is not memorised and it will return to the default setting once you exit the current programme.

[Teletext Character Set] Ireland only

Sets the teletext language font

⇒ [Setup Menu] (p. 33)

[Teletext Language] Ireland only

(DVB mode)

Allows you to select between alternative language for teletext (if available)

[NICAM]

(Analogue mode)

Switches NICAM sound (if available)

⇒ [Sound Menu] (p. 31)

[Volume Correction]

Adjusts volume of individual channel or input mode

Off Timer

Turn the TV to Standby mode automatically after a fixed period

(A)

Press the button repeatedly until you reach the desired time.

([Off] / [15] / [30] / [45] / [60] / [75] / [90] (minutes))

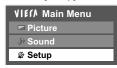
- To cancel, set to [Off] or turn the TV off.
- To confirm the remaining time → "Display Information banner" (p. 17)
- When the remaining time is within 3 minutes, the remaining time will flash on the screen.

You can also set the [Off Timer] via the [Setup] menu.

1 Display the menu



2 Select [Setup]





3 Select [Off Timer] and set the time





- To cancel ⇒ Set to [Off] or turn the TV off.
- To display the remaining time
- "Display Information banner" (p. 17)

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

Aspect

Change the aspect ratio (image size)

(H)

Enjoy viewing the image at its optimum size and aspect.

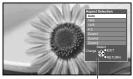
Programmes usually contain an "Aspect Control Signal" (Widescreen signal, etc.), and the TV will choose the aspect ratio automatically according to the "Aspect Control Signal" (p. 70).

■ If you would like to change the aspect ratio manually

1 Display Aspect Selection list

2 While the list is displayed,





Aspect Selection list

select the mode



 You can also change the mode only using the ASPECT button.

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 \Rightarrow (p. 70)





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



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





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





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

- Aspect is fixed to [16:9] when [Viewing Mode] is set to [Game] in the Picture Menu.
- Not available in teletext service.
- Aspect mode can be memorised separately for SD (Standard definition) and HD (High definition) signals.

Display subtitles

■ DVB mode

Display / hide subtitles (if available)



- To change the language for DVB (if available)
- → [Preferred Subtitles] (p. 33)

■ Analogue mode

Display subtitles

Hide subtitles



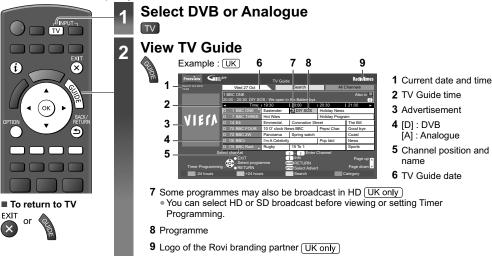


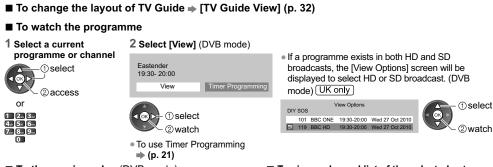
- This is the same as switching to Analogue teletext service and selecting "P888" (subtitle service).
- You cannot change the channel when this function is active.

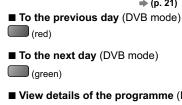
Using TV Guide

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 TV supports the GUIDE Plus+ system. UK only
- The Rovi branding partner will supply the rating information in the programme information and the recommended group in the Search list. (UK only)
- DVB and Analogue channels are displayed on the same TV Guide screen. [D] means DVB channel and [A] means Analogue channel. There will be no programme listings for Analogue channels.
- 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 TV Guide is completely shown.



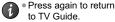


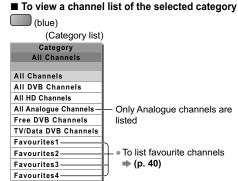


■ View details of the programme (DVB mode)

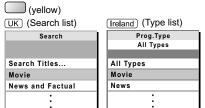


2 View details





■ To search programme types and view a channel list of the searched programmes (DVB mode)





■ To search programme titles and view a list of the searched programmes (DVB mode) UK only





2 Set characters (maximum: 19 characters)



To use numeric buttons

- 3 Start [Search] (green)
- All the programme titles including the word you set will be listed.
- Searching without any characters will list all programmes including current programmes.

① select

② store

(p. 74)

Timer Programming (DVB mode)

Timer Programming can remind you to watch a programme or record one on an external recorder.

1 Select the forthcoming programme

2 Select the function ([Ext Rec.] or [Reminder])

"Characters table for numeric buttons"

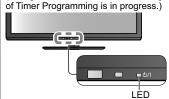


① select

LED will turn to orange if Timer Programming is set.

② set

(Orange LED will flash if the recording



[Ext Rec.] (1):

to record the programme to the external recorder [Ext Rec.]

When the start time comes, the channel will be switched automatically and the video and audio signals will be output. 2 minutes before the starting time, a reminder message appears if you are watching TV.

[Reminder] / :

to remind you to watch the programme

When you are watching TV, a reminder message appears 2 minutes before the start time. Press the OK button to switch to the programmed channel.

■ To check / change / cancel a timer programming event

"Timer Programming" (p. 43)

■ If you select a current programme

A confirmation screen asking whether you wish to watch or record the programme will appear.

Select [Timer Programming] and set [Ext Rec.] to record from the time you finish programming the timer event setting.





■ To return to TV Guide



■ If a programme exists in both HD and SD broadcasts (UK only)

The [Timer Options] screen will be displayed to select HD or SD broadcast.





(Timer Programming screen)

Timer Pro	gramr	Wed 27.10.	2010 10:46	
Function	No.	Channel Name	Date	Start End
⊕ =m kec	D	DIY SOS	West 07 Oct	(30 min.)
			-4-	 (min.)
				 (min.)

■ will be displayed if HD broadcast is set.

Note

- This function is not available in Analogue mode.
- Timer Programming reminder messages will remain displayed until one of the following occurs :
 - You press the OK button to view the programme or the EXIT button to cancel the reminder.
 - The timer programming event that the reminder is set for ends.
- No other channel can be selected while the recording of Timer Programming is in progress.
- When recording programmes, be sure to make the proper settings on the recorder connected to the TV. → (p. 43)

Guide link programming (Timer Programming from the TV Guide signal) UK only

Guide link programming is Timer Programming which is controlled by information from the TV Guide; if programme start and end times are changed by the broadcaster, the timer programming event will follow the change.

A Split Programme programming is a Guide link programming which is interrupted by one or more other programmes. Note that Guide link programming (including Split Programme programming) only works reliably if correct information is received from broadcasters.

(Timer Programming screen)

Fimer Programming Wed 27 Oct 2010 10:46							
Function		No.	Channel N	lame		Date	Start End
Ext Rec.	D	_1	BBC ONE		- 600	Wed 27 Oct	20:00 20:30 (30 min.)
₿ Reminder	D	14	E4 The Bill		GIG	Wed 27 Oct	21:00 22:30 (90 min.)
Ext Rec.	D	72	BBC 2W <timer></timer>			Wed 27 Oct	22:45 23:00 (15 min.)
ext Rec.	P	1	BBC ONE Red Cap		- 0	Thu 28 Oct	10:30 11:30 (60 min.)
						-4	-: -: (min.)
Change function 1/1							
	4	Sa RE		0-0		8	0
Delete					Subtitle	s auto	

"S/P" is displayed if the timer is set from the TV Guide and the programme is a Split Programme

"Guide" is displayed if the timer is set from the TV Guide (Guide link programming)

Example: UK



"O" or "C" will be displayed in the TV Guide if Timer Programming is set as the Guide link programming.

Note

- If you edit the start time or end time of a Guide link programming event by more than 10 minutes, it will no longer follow the broadcaster's changes to the start or end time. The start and end times will become fixed.
- Whilst making the Split Programme programming event for [Ext Rec.], you cannot record any channels between the interrupted programmes.
- The Split Programme programming event for Reminder will be cleared by pressing the OK button once to view.
- The Split Programme programming event for Reminder will switch to the programmed channel by pressing the OK button even if it is between the interrupted programmes.
- The Split Programme programming does not work if the separated parts are broadcast on different channels.

View advertisement [UK only]

Enter your postcode when using this function for the first time

- ⇒ [Guide Plus+ Postcode] in [TV Guide Settings] (p. 32)
- If you have already entered your postcode in "Auto Setup" when first using the TV (p. 14, 15), you do not have to enter it again.

If you enter an incorrect postcode for your area, or no postcode is entered, advertisements may not be displayed correctly.

Display advertisement information



- To display the latest advertisement, you will need to update the information.
 To update the information continuously, the TV must be left in Standby mode.
- To change advertisements



■ To return to TV Guide



- Some advertisements are for future programmes.
 - In this case it is possible to use the Guide link programming function.
- The advertisements displayed on the TV Guide are sent from the GUIDE Plus+ system so that they cannot be deleted manually or will not be lost even when the TV is turned Off with Mains power On / Off switch.

Viewing Teletext

You can enjoy news, weather forecasts and subtitles, etc. (depending on the broadcaster)

• The availability of teletext services for a programme is indicated by [TEXT] in the information banner.



Information banner - (p. 17)

Displayed if programme has teletext service

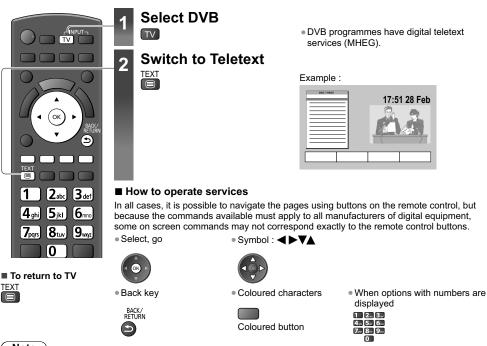
(Ireland)

Depending on the broadcaster, the digital teletext (MHEG) services may not be available. In this case, the operation of the teletext services may be the same as the analogue teletext services (p. 24).

Digital teletext (MHEG)

Digital teletext services differ greatly from analogue teletext.

When you switch to a digital teletext service, the images you see can contain graphics and text, laid out and controlled in a manner decided by the broadcaster.



- As soon as you switch to a digital channel with links to a teletext service, software is downloaded in the background to enable the teletext function. This means that when switching to a digital channel, you should wait for approximately 5 seconds before pressing the TEXT button this will allow the software to download. If you press the TEXT button before download is complete, it will be ignored and you will have to press the TEXT button again when the download is complete.
- While navigating digital teletext, you will find there is a short delay when moving between pages while the page downloads. There is often a prompt shown somewhere on the page (for example "Loading") to let you know that this is happening.

Analogue teletext

Analogue teletext services are the text information provided by the broadcasters.

The features may vary depending on the broadcasters.

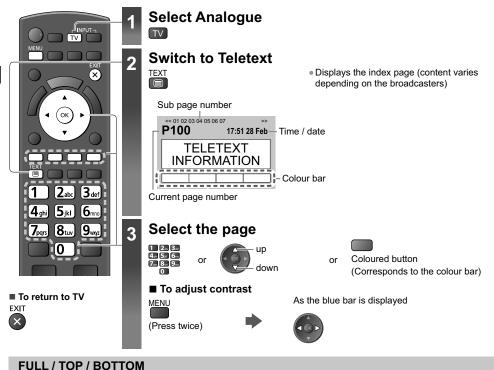
What is FASTEXT mode?

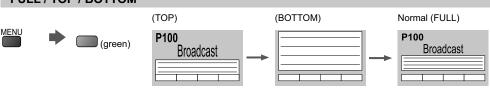
In FASTEXT mode, four differently coloured subjects are situated at the bottom of the screen. To access more information about one of these subjects, press the appropriately coloured button. This facility enables fast access to information on the subjects shown.

What is List mode?

In List mode, four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory. ▶ "Store frequently viewed pages" (p. 25)

■ To change mode → [Teletext] (p. 33)





Reveal hidden data

Reveal hidden words e.g. quiz page answers





 Press again to rehide

(Expand the TOP half)

HOLD

Stop automatic updating

(Expand the BOTTOM half)

(If you wish to hold the current page without updating)



Press again to resume

INDEX

Return to the main index page



Subtitles

View a favourite page stored



 Factory setting is "P888" (subtitle service) on the blue button (List mode).

View in multi window

Watch TV and Teletext in two windows at once





- Operations can be made only in Teletext screen.
- Each time pressed : Teletext -→ TV and Teletext

Store frequently viewed pages

Store frequently viewed pages in the colour bar (List mode only)









The number changes to white.

If you wish to use Subtitles, do not change number on blue button.

■ To change stored pages



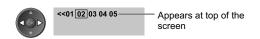
Coloured button you want to change





View sub page

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



- 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.

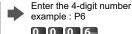
■ To view specific sub page















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.





View the updated page (vellow)

(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 through the AV input.

• To connect the equipment ⇒ (p. 11 - 13, 68 - 69)

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

"Operating the equipment with the TV remote control" (p. 27)



Turn the TV on



When connecting with SCART (p. 12, 13)

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. 73).

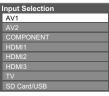
If input mode is not switched automatically

Perform 2 and 3

. Check the setup of the equipment.

2 Display the input selection menu

Select the input mode connected to the equipment





- You can also select the input using the AV button on the remote control or the side panel of the TV (except [SD Card/USB]).
- Press the button repeatedly until the desired input is selected.
- [SD Card/USB] : Switches to Media Player → "Using Media Player" (p. 53)
- You can label or skip each input mode (except [SD Card/USB]).
 - → "Input Labels" (p. 33)

Skipped inputs will not be displayed when the AV button is pressed.

■ To return to TV





Displays the selected mode

Terminal	AV1	AV2	COMPONENT	HDMI1	HDMI2	номіз
Manual input (default setting in "Input Labels")	AV1 AV1-RGB	AV2	COMPONENT	HDMI1	HDMI2	HDMI3
Auto input (EC mode or VIERA Link)	EC/AV1 EC/AV1-RGB	-	-	EC/HDMI1 Applicable for EC mode and VIERA Link	EC/HDMI2 Applicable for VIERA Link	EC/HDMI3 Applicable for VIERA Link

• If the above information is permanently displayed on the top left of the screen, press the i button to clear.

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

Operating the contents or equipment with the TV remote control

You can operate the contents in Media Player, recording functions or the connected equipment with below buttons of this TV remote control.

O	Standby Set to Standby mode / Turn on
	Play Playback videocassette / DVD / video content
	Stop Stop the operations
**	Rewind / Skip / Search VCR: Rewind, view the picture rapidly in reverse DVD / video content: Skip to the previous track, title or chapter Press and hold to search backward
₩	Fast-forward / Skip / Search VCR: Fast-forward, view the picture rapidly forward DVD / video content: Skip to the next track, title or chapter Press and hold to search forward
11/1>	Pause Pause / Resume DVD: Press and hold to play at slow speed
PROGRAMME	Channel Up / Down Select channel
REC	[Direct TV Rec] ⇒ (p. 62, 64)

How to change the code

Each type of the Panasonic equipment has its own remote control code.

To use in some features of this TV, you have to select the code "73".

Change to the appropriate code according to the equipment or features below.

Press and hold during the following operations

Enter the appropriate code, see table below







Type of the equipment, features	Code
DVD Recorder, DVD Player, Blu-ray Disc Player	70 (default)
Player theatre, Blu-ray Disc theatre	71
VCR	72
Media Player (p. 57), Direct TV Recording (p. 62, 64) Equipment using in VIERA Link (p. 66)	73

- 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 VIERA TOOLS

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

- For [VIERA Link Control] function to operate correctly, ensure the connections and settings are completed.
 - "Summary of Q-Link and VIERA Link features" (p. 60, 61), "Preparations" (p. 63)
 - After connection, turn the equipment on and then switch the TV on.
- For [Photo], [Video] and [Music] functions to operate correctly, ensure the device has photo, video or music data on it and insert it into the SD Card slot or USB port properly.
 - ⇒ "Using Media Player" (p. 53)



Display icons of the feature



Select a feature





■ Follow the operations of each feature



[VIERA Link] **→** (p. 65)



[Photo]* **→** (p. 54)



[Video]* **→** (p. 57)



[Music]* **→** (p. 59)

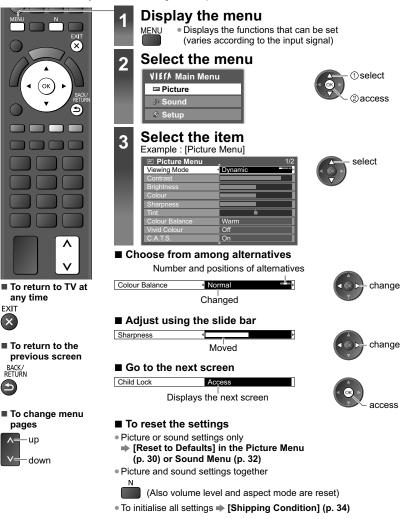
* When two or more available devices are connected, a selection screen will be displayed.
Please select the correct description and access.

Note

• If the selected feature is not available, the demonstration to explain how to use it can be displayed. Press the OK button to view the demonstration after selecting the unavailable feature.

How to Use Menu Functions

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



■ Enter characters by free input menu

You can enter names or numbers freely for some items.



Set characters one by one



Store BACK/ RETURN

- You can set characters by using numeric buttons.
- → "Characters table for numeric buttons" (p. 74)

Menu list

Menu	list		
Menu	Item	Adjustments / Configurations (alternatives)	
	Viewing Mode	Basic picture mode [Dynamic] / [Normal] / [Cinema] / [True Cinema] / [Game] In each Viewing Mode, [Contrast], [Brightness], [Colour], [Sharpness], [Tint], [Colour Balance], [Vivid Colour], [P-NR] and [3D-COMB] can be adjusted and stored to suit your particular viewing requirement. Set for each input signal. [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 with the improved performance of contrast, black and colour reproduction [True Cinema]: Precisely reproduces the original quality of the image without any revision. [Game]: Fast response signal specifically to provide suitable images for playing games Not valid on TV mode A continuous record of time spent using Game mode can be displayed in the top right of the screen. [Playing Time Display] (p. 34)	
	Contrast, Brightness, Colour, Sharpness	Increases or decreases the levels of these options according to your personal preference	
	Tint	With an NTSC signal source connected to the TV, the picture hue can be adjusted to suit your taste • For NTSC signal reception only	
	Colour Balance	Allows you to set the overall colour tone of the picture [Cool] / [Normal] / [Warm] Not valid when [Viewing Mode] is set to [True Cinema].	
	Vivid Colour	Automatically adjusts colours to vivid ones [Off] / [On]	
Picture	C.A.T.S.	Contrast Automatic Tracking System (Automatic Brightness Control function) Adjusts picture settings automatically depending on ambient lighting conditions [Off] / [On] Set to [On] to make the suitable contrast setting automatically. The default setting is [On] when [Viewing Mode] is set to [Normal].	
	P-NR	Picture Noise Reduction Automatically reduces unwanted picture noise and flicker noise in the contoured parts of a picture [Off] / [Min] / [Mid] / [Max]	
	3D-COMB	Makes still or slow moving pictures look more vivid [Off] / [On] Occasionally, whilst viewing still or slow moving pictures, colour patterning may be seen. Set to [On] to display sharper and more accurate colours. For PAL or NTSC signal reception only Not valid on RGB, Component, HDMI and Media Player	
	Screen Display	Turns the screen off when you select [Off] [Off] / [On] The sound is active even if the screen turns off. Press any buttons (except Standby) to turn the screen on. This function is effective in reducing power consumption when listening to the sound without watching the TV screen.	
	Advanced Settings DVI Input	Selects the screen area displaying the image [Off] / [On] [On]: Enlarges the image to hide the edge of the image. [Off]: Displays 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 memorised separately for SD (Standard definition) and HD (High definition) signals.	
	DVI Input Setting	Changes the black level in the image for HDMI input mode with DVI input signal manually [Normal] / [Full] When the DVI input signal from the external equipment, especially from PC, is displayed, the black level may not be suitable. In this case, select [Full]. The black level for HDMI input signal will be adjusted automatically. For HDMI input mode with DVI input signal only	
	Reset to Defaults	Press the OK button to reset the present Picture Viewing Mode to the default settings	

Menu	Item	Adjustments / Configurations (alternatives)
	Mode	Selects the basic sound mode [Music] / [Speech] / [User] The selected mode affects all input signals. [Music]: Improves sound quality for watching music videos, etc. [Speech]: Improves sound quality for watching news, drama, etc. In Music and Speech modes, you can adjust [Bass] and [Treble] settings, and those settings will be stored for each mode. [User]: Adjusts the sounds manually by using the equaliser to suit your favourite sound quality. For the User mode, [Equaliser] will appear on the Sound Menu instead of [Bass] and [Treble]. Select the [Equaliser] and adjust the frequency. [Equaliser] (see below)
	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
	Equaliser	Adjusts the frequency level to suit your favourite sound quality This function is available when [Mode] is set to [User]. Select the frequency and change the frequency level by using the cursor button. If you want to enhance the bass sound, raise the level of the lower frequency. If you want to enhance the treble sound, raise the level of the higher frequency. To reset the levels of each frequency to the default settings, select the [Reset to Defaults] by using the cursor button, and then press the OK button.
	Balance	Adjusts volume level of right and left speakers
	Headphone Volume	Adjusts the volume of the headphones
Sound	Surround	Surround sound settings [Off] / [V-Audio] [V-Audio] : Provides a dynamic enhancer of width to simulate improved spatial effects
ıd	Auto Gain Control	Automatically regulates large sound level differences between channels and inputs [Off] / [On]
	Volume Correction	Adjusts the volume of individual channel or input mode
	Speaker Distance to Wall	Compensates for the distance between the speakers and the wall [Over 30cm] / [Up to 30cm] If the distance between the TV and wall is over 30 cm, [Over 30cm] is recommended. If the distance between the TV and wall is within 30 cm, [Up to 30cm] is recommended.
	Preferred Multi Audio	 Selects the preferred language for digital channel multi audio (depending on the broadcaster) [English] / [Welsh] / [Gaelic] / [Irish]
	NICAM	Near Instantaneous Companded Audio Multiplex Reproduces NICAM stereo sound [Off] / [On] Off if reception is poor (FM monaural sound) Analogue mode only
	SPDIF Selection	SPDIF: A standard audio transfer file format Selects the initial setting for digital audio output signal from DIGITAL AUDIO OUT and HDMl2 (ARC function) terminals [Auto] / [PCM] [Auto]: Dolby Digital Plus and Dolby Digital are output as Dolby Digital Bitstream. HE-AAC (48 kHz) multi-channel is output as DTS. MPEG is output as PCM. [PCM]: Digital output signal is fixed to PCM. For DVB mode or Video mode of Media Player (p. 58) ARC (Audio Return Channel): A function of digital audio output using HDMI cable

Menu		Item	Adjustments / Configurations (alternatives)
MEHU	iteiii		Adjusts the audio level of PCM output from DIGITAL AUDIO OUT terminal as the
Sound	PCM Optical Level		initial setting [-12] / [-10] / [-8] / [-6] / [-4] / [-2] / [0] (dB) Normally, PCM sound is larger comparing with the other types of audio track. DVB mode only
	HDMI1 / 2 / 3 Input		Select to fit the input signal [Digital] / [Analogue] (p. 73) [Digital] : When sound is carried via the HDMI cable connection [Analogue] : When sound is not carried via the HDMI cable connection HDMI input mode only
	Audio Description Menu	Audio Description	UK only Narration settings for visually impaired users [Off] / [Auto] Set to [Auto] to activate the narration sound track when available on the broadcast The availability of audio description sound track is indicated by [AD] in the information banner (p. 17). DVB mode only
		Volume	UK only Adjusts the volume for Audio Description DVB mode only
		Speakers	UK only Set to [On] to activate the description sound track from TV speakers [Off] / [On] DVB mode only
		Headphones	UK only Set to [On] to activate the description sound track from headphones [Off] / [On] DVB mode only
	Reset to Defaults		Press the OK button to reset the present Sound Mode, [Balance], [Headphone Volume] and [Surround] to the default settings
	Timer Programming		Sets programme reminders and records forthcoming programmes (p. 43)
	TV Guide Settings	TV Guide View	Changes the layout of TV Guide [Normal] / [Full] / [Info] [Normal] : Default TV Guide screen [Full] : Displays channels and programmes full-screen without the operation guide [Info] : Displays details of the selected programme at the bottom without the operation guide
		GUIDE Plus+ Postcode	UK only Sets your postcode to display advertisements in the GUIDE Plus+ system (p. 22)
G		GUIDE Plus+ Information	UK only Displays the system information of the GUIDE Plus+ system
Setup	Off Timer		Sets the time until the TV automatically goes to Standby mode [Off] / [15] / [30] / [45] / [60] / [75] / [90] (minutes) (p. 18)
	Eco Navigation		Automatically sets the TV to the most suitable energy-saving mode If you press the OK button, the following items are set as below: [C.A.T.S.], [VIERA Link], [Standby Power Save], [Power Save] → [On] [Intelligent Auto Standby] → [On (No reminder)] [Auto Standby] → [2 hours]
		VIERA Link	Settings for VIERA Link functions [Off] / [On] (p. 63)
	Link Settings	AV1 out	Chooses the signal to be transmitted from the TV to Q-Link [TV] / [AV2] / [Monitor] [Monitor] : Image displayed on screen Component and HDMI signals cannot be output.

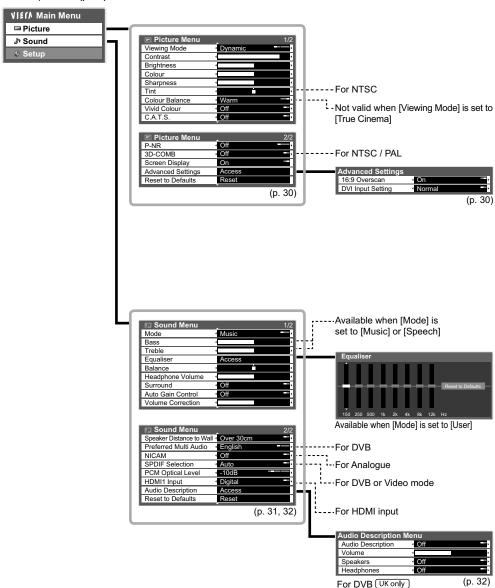
Menu		Item	Adjustments / Configurations (alternatives)
			Controls the connected equipment to reduce power consumption in Standby [Off]
	Link Settings	Standby Power Save	/ [On] (p. 64) This function is available when [VIERA Link] is set to [On].
		Intelligent Auto Standby	Makes non-watched or non-used connected equipment go into Standby mode to reduce the power consumption [Off] / [On (With reminder)] / [On (No reminder)] (p. 64) This function is available when [VIERA Link] is set to [On].
		Q-Link Download	Downloads analogue channel information to a Q-Link compatible equipment connected to the TV
	Child Lock		Applies access control for channels or AV inputs to prevent unwanted access (p. 45)
	DVB Tuning Menu	Favourites Edit	Creates a list of favourite DVB channels (p. 40)
		Channel List	Skips the unwanted DVB channels or edits DVB channels (p. 41)
		Auto Setup	Automatically searches for the DVB channels received in the area (p. 38)
		Channel Sorting by Region	(UK only) Automatically sorts tuned channels according to the available region (p. 39)
	ning	Manual Tuning	Searches for the DVB channels manually (p. 39)
	Menu	Update Channel List	Updates DVB Channel List while keeping your settings (p. 41)
		New Channel Message	Selects whether to give a notification message when a new DVB channel is found [Off] / [On] (p. 40)
		Signal Condition	Checks the DVB signal condition (p. 40)
Setup	Analogue Tuning Menu	Channel List	Skips the unwanted Analogue channels or edits Analogue channels (p. 42)
		Auto Setup	Automatically searches for the Analogue channels received in the area (p. 38)
		Manual Tuning	Searches for the Analogue channels manually (p. 42)
		Teletext	Analogue teletext display mode [FASTEXT] / [List] (p. 24)
	Display Settings		(Ireland only)
		Teletext Character Set	Selects teletext language font [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.
		Preferred Teletext	(Ireland only) Selects the preferred language for digital channel teletext service (depending on the broadcaster) [English] / [Welsh] / [Gaelic] / [Irish]
		Preferred Subtitles	Selects the preferred language for digital channel subtitles (depending on the broadcaster) [English] / [Welsh] / [Gaelic] / [Irish] To display subtitles (p. 19) provides aids in understanding and enjoyment with DVB subtitles (depending on the broadcaster).
		Input Labels	Accesses the input labels list to select the label of each input mode or set to skip unconnected one for easier identification and selection in [Input Selection] (p. 26) or banner To name each input mode freely, select [User input] and set characters (maximum 10 characters). To skip the input mode, select [Skip].

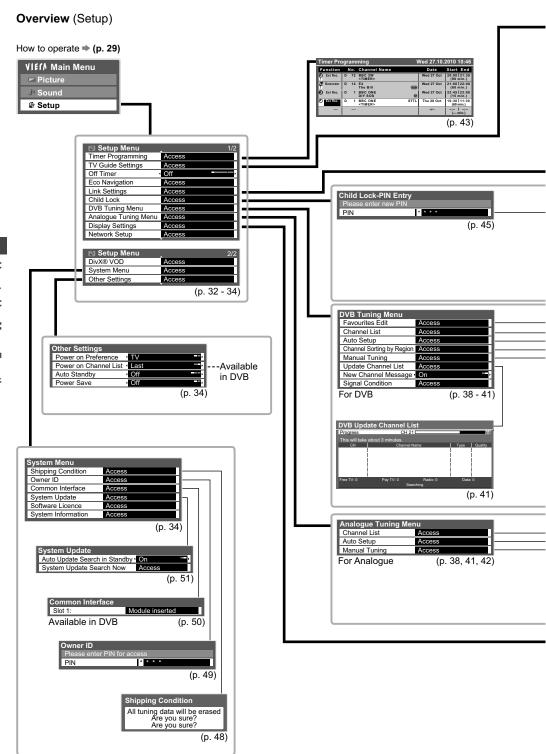
Menu	Item		Adjustments / Configurations (alternatives)
		Banner Display Timeout	Sets how long the Information banner (p. 17) stays on screen [0 (No display)] / [1] / [2] / [3] / [4] / [5] / [6] / [7] / [8] / [9] / [10] (seconds)
	Displ	Playing Time Display	Set to [On] to display a continuous record of time spent using Game mode every 30 minutes [Off] / [On] • This function is available when [Game] is selected in [Viewing Mode] • (p. 30)
	Display Settings	Radio Mode	Sets the timer for turning off the screen automatically when a radio channel is selected [Off] / [5] / [10] / [15] / [20] (seconds) The sound is active even if the screen turns off. Press any buttons except Standby, Volume Up / Down and Sound Mute buttons to turn the screen on. This function is effective in reducing power consumption when listening to a radio channel. DVB mode only
	Network Setup		Sets the network setting to use in your network environment (p. 46)
	Div	VX® VOD	Displays DivX VOD registration code (p. 72)
		Shipping Condition	Resets all settings, for example, when moving house (p. 48)
	Sy	Owner ID	Inputs the owner ID (p. 49)
(0	ystem Menu	Common Interface	Settings for watching encrypted channels (p. 50)
èetı	n Me	System Update	Downloads new software to this TV (p. 51)
þ	nu	Software Licence	Displays the software licence information
		System Information	Displays the system information of this TV
	Other Settings	Power on Preference	Automatically selects the input when the TV is turned on [TV] / [AV] Set to [TV] to view picture from TV tuner. Set to [AV] to view input from an external equipment connected to a SCART terminal, e.g. satellite receiver. The external equipment must be switched on and sending a control signal for automatic switching at power on to occur.
		Power on Channel List	Automatically selects All Channels or Favourites list in the Information banner (p. 17) when the TV is turned on [All Channel List] / [Last] Set to [All Channel List] to display all the channels. Set to [Last] to display the one you selected last time. Not available in Analogue mode
		Auto Standby	Sets the duration of time that the TV will remain On when no operation is received from the user [Off] / [2] / [4] (hours) Starting Timer Programming automatically does not affect this function. Automatic input switching with the connected equipment affects this function and time-count will be reset. The notification message will appear 3 minutes before going to Standby mode.
		Power Save	Reduces brightness of picture to economise on power consumption [Off] / [On]
	$\overline{}$	L	

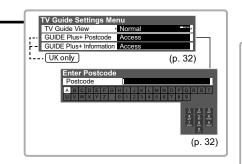
<sup>A different menu will be displayed in the mode of Media Player. (p. 52 - 59)
Only available items can be selected.</sup>

Overview (Picture, Sound)

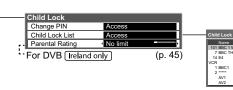
How to operate ⇒ (p. 29)

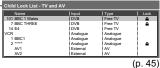


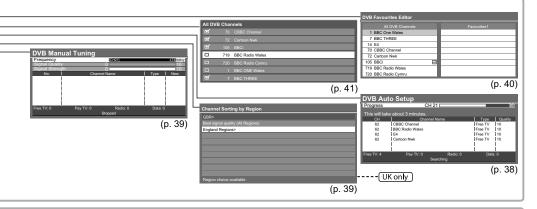




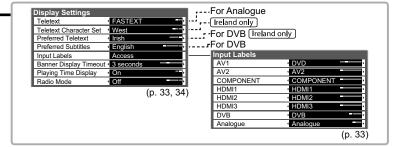












Retuning from Setup Menu

Automatically retune the channels received in the area.

- This function is available if channel tuning is already performed.
- Only the selected mode is retuned. All the previous tuning settings are erased.
- If Child Lock PIN number (p. 50) has been set, the PIN number is required.
- If tuning has not been done completely → [Manual Tuning] (p. 39, 42)

DVB or Analogue channels

Select the mode

⇒ (p. 16)

Display the menu and select [Setup]





Select [DVB Tuning Menu] or [Analogue Tuning Menu]





• The displayed item depends on the selected mode.

✓ Select [Auto Setup]

Example: DVB





Start Auto Setup (Settings are made automatically)













• The analogue settings are downloaded to a Q-Link compatible equipment connected to the TV in Analogue mode. When the operation is completed, the channel at the lowest position will be displayed.

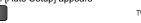
Auto setup using the buttons on the TV

For Auto Setup, using the buttons on the TV (p. 10)

1 Press the F button repeatedly until [Auto Setup] appears 2 Acce

2 Access [Auto Setup]

3 Start [Auto Setup]















Tuning and Editing Channels (DVB)

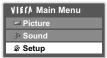
You can retune channels or make your favourite channel lists, skip unwanted channels, etc.

Select DVB



Display the menu and select [Setup]







3 Select [DVB Tuning Menu]





■ Select one of the following functions





[Auto Setup] → "Retuning from Setup Menu" (p. 38)

Sort DVB channels according to the region [Channel Sorting by Region] [UK only]

You can sort DVB channels so that those with the best signal quality, or those for your preferred region, appear nearer the top of your Channel List.

Normally, you should select [Best signal quality (All Regions)].





(select repeatedly until you reach the available region)

 If you choose to select your preferred region, you could find channels with a weaker signal appear nearer the top of your Channel List. If you have any image or sound problems, select [Best signal quality (All Regions)] instead.

Set DVB channel manually [Manual Tuning]

Normally use [Auto Setup] or [Update Channel List] to retune DVB channels.

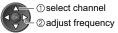
If tuning has not been done completely or for adjusting the direction of the aerial, use this function.



 All channels found will be added to the Channel List.



1 Adjust frequency for each channel



 Set where the level of [Signal Quality] becomes the maximum.



2 Search

List favourite DVB channels [Favourites Edit]

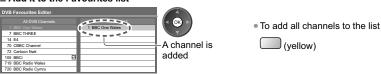
Create your favourite channel lists from various broadcasters (up to 4: [Favourites]1 to 4).

The DVB Favourites lists are available for switching in the Information banner (p. 17) and from [Category] in the TV Guide screen (p. 20).

1 Select a channel to list (-0 : Encrypted channel)



2 Add it to the Favourites list

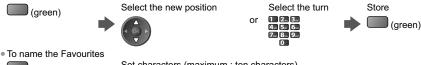


■ To edit Favourites list

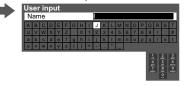
While the cursor is in the Favourites field to edit



To move the channel



Set characters (maximum: ten characters) (red)







To use numeric buttons

"Characters table for numeric buttons" (p. 74)





 Channel position numbers (known as logical channel numbers) can be swapped in Channel List. To swap the channel position number | [Channel List] (p. 41)

Check DVB signal [Signal Condition]

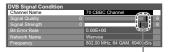
Selects a channel and checks the DVB signal condition.

A good Signal Strength is not an indication of best signal for DVB

Please use the Signal Quality indicator as follows:

[Signal Quality]:

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



To change the channel



These bars show the maximum signal value of the selected channel.

Display a notification message [New Channel Message]

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

New channels found! Press OK to update channel list. Press EXIT to ignore.

Selecting OK will perform [Update Channel

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]



■ To edit channels

You can also edit each channel in Channel List.

• To retune each channel ⇒ [Manual Tuning] (p. 39)

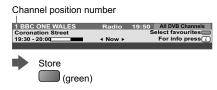
(only for the revealed channels)

To swap the channel position number (logical channel number)









Update DVB channel automatically [Update Channel List]

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

Example : UK



- Channel List is updated while keeping your settings in [Favourites Edit], [Channel List], [Child Lock], [Timer Programming], etc.
- Depending on the signal condition, the update may not work properly.

(Analogue)

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

1 Select Analogue

Display the menu and select [Setup]







Select [Analogue Tuning Menu]



▲ Select one of the following functions





- [Auto Setup]
- ⇒ "Retuning from Setup Menu" (p. 38)

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]



■ To edit channels

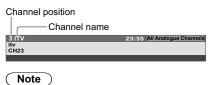
You can also edit each channel in Channel List.

- To retune each channel ([Manual Tuning]) (see below)
- (red)
- To move the channel position





- To use numeric buttons
- "Characters table for numeric buttons" (p. 74)



• If a VCR is connected only with the RF cable, edit [VCR].

Set Analogue channel manually [Manual Tuning]

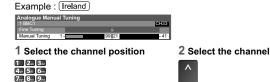
[Fine Tuning] [Ireland only]

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.

• If a VCR is connected only with the RF cable, it is recommended to select channel position [0].





Timer Programming

Timer Programming from Menu

The Timer Programming menu allows you to choose programmes that you wish to remind watching or record to the external recorder. At the correct time, the TV will tune to the correct channel automatically to record even if the TV is in Standby mode.

- TV Guide may also be used to set timer programming event (p. 21).
- Timer Programming can store up to 15 events.
- For recording using Timer Programming, the TV must be either On or in standby. For reminders to be displayed, the TV must be On.
- No other channel can be selected while the recording of Timer Programming is in progress.
- It may not be possible to record an encrypted programme (which is copy-protected).
- When recording programmes to the external recorder, be sure to make the proper settings on the recorder connected to the TV
 - If a compatible recorder with Q-Link or similar technologies is connected to the TV (p. 62) and the [Link Settings] (p. 32, 33) are correct, no setting of the recorder is required. Also read the manual of the recorder.
- If the recorder is not compatible with Q-Link or similar technologies, set the timer of the recorder in addition to the Timer Programming on the TV. For preparations of a recorder, read the manual of the recorder.
- Recordings are always in standard definition composite video via SCART, even if the original programme is in high definition.

Select the tuner you want to use (DVB or Analogue)

Display the menu and select [Setup]





3 Select [Timer Programming]





Note

- Check that the LED is orange. If not, timer programmes are not active or not stored.
- Timer Programming reminder messages will remain displayed until one of the following occurs:
 - You press the OK button to view the programme or the EXIT button to cancel the reminder.
 - The timer programming event that the reminder is set for ends.
- "!" identifies that any timer programming events have overlapped. [Ext Rec.] is given priority over [Reminder]. When two or more [Ext Rec.] overlap, the first timer programming event starts and finishes as programmed. The next timer programming event will then start.
- 2 minutes before the starting time, a reminder message appears if you are watching TV.
 - To remove the message and start the programme



 To cancel the Timer Programming



- The recording of Timer Programming will automatically change to the programmed channel a few seconds before the start time.
- To stop recording of the timer programming event, it may be necessary to stop the recorder manually.
- The recording of Timer Programming will be performed even if the TV is in Pause Live TV recording (p. 65). In this
 case, the Pause Live TV will be cancelled.

Set timer programming event details [Timer Programming]

1 Start making the settings



[Ext Rec.] 🕘 :

Records the programme to the external recorder. When the start time comes, the channel will be switched automatically and the video and audio signals will be output. 2 minutes before the starting time, a reminder message appears if you are watching TV.

2 Select the function ([Ext Rec.] or [Reminder])



[Reminder] / :

Reminds you to watch the programme. When you are watching TV, a reminder message appears 2 minutes before the start time. Press the OK button to switch to the programmed

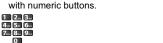
3 Set the channel, date and time (repeat the operations as below)



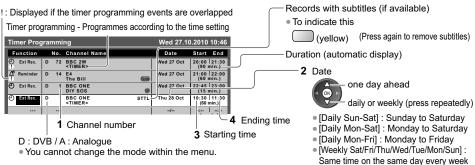




. 1. 3 and 4 can also be entered with numeric buttons.







UK only

Guide: Guide link programming - Programmes according to the TV Guide signal (p. 22)

SP: Split Programme programming (p. 22)

• These functions are not available in Analogue mode.

Guide link programming is Timer Programming which is controlled by information from the TV Guide; if programme start and end times are changed by the broadcaster, the timer programming event will follow the change. A Split Programme programming is a Guide link programming which is interrupted by one or more other programmes.

Note that Guide link programming (including Split Programme programming) only works reliably if correct information is received from broadcasters.

■ To change a timer programming event

Select the programme to be changed

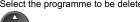




Correct as necessary (as above)

■ To cancel a timer programming event Select the programme to be deleted

(red)







■ To record with subtitles (if available)

Select the programme to record with subtitles





(vellow) Each time pressed :

auto ← → off

■ To cancel a timer programming event temporarily Select the programme to be cancelled



(blue) • Each time pressed :

cancel ← ► stop cancelling

■ To view details of the programming (only for Guide link programming) (UK only)

Select the programme to be viewed





Press again to return to Timer Programming menu.

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.

Display the menu and select [Setup]









Select [Child Lock]





Control channel audience [Child Lock]

1 Enter the PIN number (4 digits)





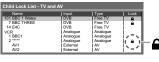
- Enter the PIN number twice at first setting.
- Make a note of the PIN number in case you forget it.

2 Select [Child Lock List]





3 Select the channel / input to be locked





Appears when the channel / input is locked

To cancel Select the locked channel / input





 To cancel all locks (yellow)

 To jump to the top of the next input (blue)

■ To change the PIN number

1. Select [Change PIN]





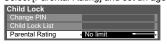
2. Enter a new PIN number twice 1 2. 3.

4, 5, 6. 7... 8... 9...

■ To set Parental Rating (Ireland only)

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. 48) erases the PIN number and all settings.

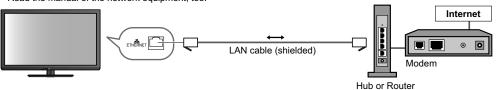
Setup for Internet Connection

To update the TV's software without internet connection ⇒ "Updating the TV Software" (p. 51)

Network connections

Connect the TV and the Broadband network equipment (modem, hub or router) by using a LAN cable.

- If you do not have a Broadband network services, please consult your retailer for assistance.
- Confirm the terms and conditions of the contracts with your Internet Service Provider (ISP) or telecommunications company.
- Set up and connect any equipment required for the network environment.
- Read the manual of the network equipment, too.



Note

- Depending on the ISP or telecommunications company, the required equipment and the internet connection
 procedure are different. Ensure that you use the network equipment that are authorized by your ISP and
 telecommunications company.
- You cannot make settings for the network equipment on this TV. You may be required to make settings on your computer.
- Depending on the terms and conditions of the contracts with your ISP or telecommunications company, additional fees may be charged or multiple connections to the internet may be impossible.
- Please contact your ISP or telecommunications company if you require further assistance regarding the network equipment.

[Network Setup]

Ensure the connections are completed before starting Network Setup.

1 Display the menu and select [Setup]





Select [Network Setup]



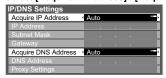


Connect to the network [Network Setup]

1 Select [IP/DNS Settings] and set the items



■ To set [Acquire IP Address] / [Acquire DNS Address]
Select [Acquire IP Address] / [Acquire DNS Address] and set to [Auto]





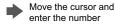
- The available settings are displayed automatically.
- For most users, the recommended method of connection to your network is by using [Auto] feature.

Manual settings

DNS₁

If you wish to set these functions manually, select [Manual]. Select [IP Address], [Subnet Mask], [Gateway], [Primary DNS] or [Secondary









2 Select [Proxy Settings] and set the items





After settings, return to [Network Setup] screen



■ To set [Proxy]

• This is the address of the relay server that is connected to the target server instead of the browser and sends data to the browser. Setting is required if specified by the provider.











3. Store BACK/ RETURN

To use numeric buttons

"Characters table for numeric buttons" (p. 74)

■ To set [Proxy Port]

- This number is also specified by the provider with the Proxy address.
- 1. Select [Proxy Port]





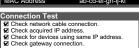


2. Move the cursor and enter the number



3 Select [Connection Test] and access to test









The test is successful and the TV is connected to the network.

Performs automatic testing of the network connection for the TV. (It takes a while to test.)



Check the settings and connections, and then perform this function again.

Update TV's software

Accesses the specific web site to update TV's software and search if any software updates are available.

Select [Software Update]





Follow the on screen instructions

Note

[MAC Address]

MAC address is a unique address that identifies hardware in the network. (for information only)

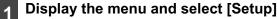


Shipping Condition

Resets the TV to its original condition, i.e. no channels tuned in.

All settings other than [Owner ID] are reset (channels, picture, sound settings, etc.).

To retune TV channels only, e.g. after moving house → "Retuning from Setup Menu" (p. 38)







Select [System Menu]



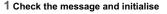


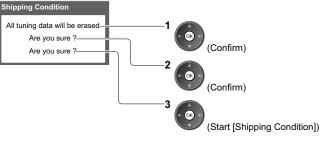
Select [Shipping Condition]





Restore Settings [Shipping Condition]





2 Follow the on screen instructions

Reset to Factory Shipping Condition
Completed.

TV will automatically restart.

Do not turn off

[Auto Setup] will automatically start
 → (p. 14)

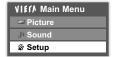
Owner ID

Entry of the PIN number and personal information (your name, address and postcode). In the unfortunate event of theft, the Owner ID will help the Police to determine the owner.

Display the menu and select [Setup]









Select [System Menu]





Select [Owner ID]





Input owner ID [Owner ID]

1 Enter the PIN number (4 digits)



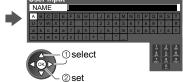


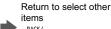
- Enter the PIN number twice at first setting.
- Make a note of the PIN number in case you forget it. The PIN number cannot be reset.

2 Select the item (NAME / HOUSE NO / POSTCODE) and set characters









BACK/ RETURN

 Select the next item and repeat the operations.

- To use numeric buttons
- "Characters table for numeric buttons" (p. 74)

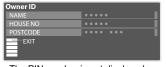
3 Exit the menu



■ To check the personal information stored Hold down for about









• The PIN number is not displayed.

■ To change the PIN number

1. Select [PIN]









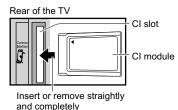
Using Common Interface

The Common Interface Module menu provides access to software contained on Common Interface (CI) Modules. This TV works only for Pay TV modules complying with CI standard.

- This function is not available for BskyB's Sky channels.
- Video and audio signals may not be output depending on broadcasts or services.

Caution

- Turn Off Mains power On / Off switch whenever
 - inserting or removing the CI module.
- If a viewing card and a card reader come as a set, first insert the card reader, then insert the viewing 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.
- Follow the instructions that came with the viewing card to tune in the encrypted channels. If encrypted channels do not appear, perform the below to verify the card is recognised by the TV.
- For more details, see the manual of the CI module, or check with the broadcaster.



Display the menu and select [Setup]





Select [System Menu]





Select [Common Interface]





Access Common Interface and follow the on-screen instructions





• On-screen instructions may not correspond to the remote control buttons.

Updating the TV Software

A new version of software may be released for download to enhance the performance or operations of the TV. In DVB mode, a notification banner will appear when one of the BBC channels is turned to if a new available software is found.

To download



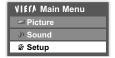
(Press the EXIT button not to download)

You can update new software automatically or update manually.

Display the menu and select [Setup]









Select [System Menu]





Select [System Update]





Update TV's software system [System Update]

■ To update automatically

Select [Auto Update Search in Standby] and set to [On]





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]. The notification banner will keep appearing during the period of new software availability, usually 2 to 3 days.

- Automatically performs a search in standby and downloads an update, if any software updates are available.
- The automatic updating is performed at night under the following conditions:
 - Standby (TV turned Off with the remote control)
 - Recording of Timer Programming or Direct TV Recording is not in progress.

■ To update immediately

1 Select [System Update Search Now]





2 Searches for an update (for several minutes) and displays a corresponding message if any

3 Download

Note

- Download may take up to 60 minutes.
- During software download and update, DO NOT perform any operations on the TV or switch Off the TV.

Using Media Player

Media Player allows you to enjoy photo, video or music recorded on an SD Card or USB Flash Memory. VIERA IMAGE VIEWER is the function of the easy viewing for photos or videos recorded on an SD Card on the TV screen by simply inserting into the SD Card slot.

Photo mode:

Still pictures recorded by digital cameras will be displayed. Movie mode:

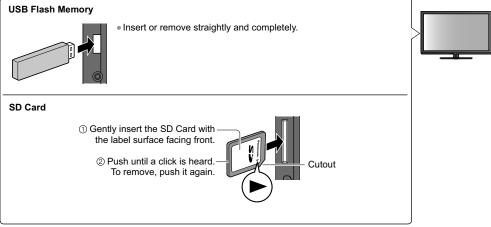
Moving pictures recorded by digital video cameras will be played back.

Music mode:

Digital music data will be played back.

- During the operation, audio signal is output from AV1, DIGITAL AUDIO OUT and HDMI2 (ARC function) terminals. But no video signals are output. AV1 can output audio signal if [AV1 out] is set to [Monitor] in the Setup Menu (p. 32). To use HDMI2 with ARC function, connect an amplifier that has ARC function (p. 61) and set to use theatre speakers
- [Date] shows the date on which the recording was made by the recording equipment. The file without record of the date is shown "**/**/****
- 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.
- Partly degraded files might be displayed at a reduced resolution.
- Picture setting may not work depending on the conditions.
- The folder and file names may be different depending on the digital camera or digital video camera used.

■ To insert or remove the SD Card / USB Flash Memory



- For the information of the devices → "Devices for playing back" (p. 73)
- For the supported file format → "Supported file format in Media Player" (p. 71, 72)

Starting Media Player

Insert the SD Card or USB Flash Memory to the TV

→ (p. 52)

2 Confirm the message and start Media Player

•You can also start by pressing the following button.





AV ⇒ "Watching External Inputs" (p. 26)

Select the device to access





• If only one device is connected, this step will be skipped.

Select the content





[Photo] **→** (p. 54) [Video] **→** (p. 57) [Music] **→** (p. 59)

5 Enjoy Media Player
Example: Thumbnail - [All photos]



To display the information of the highlighted content



Selected device name

Note

- You can also access each mode directly by using VIERA TOOLS. ⇒ (p. 28)
- Select the appropriate device and content for playing back each file.
- You can use the following buttons during playback. Set the code of the remote control to "73" (p. 27).



Change the device

You can change to the other device directly in the same mode if two or more devices are connected.

1 While the thumbnail is displayed, display the device selection

(vellow)

2 Select the device to access





Selected device name

Change the contents

You can switch to the other mode of Media Player from the thumbnail view.

• The mode can be switched in the current device.

While the thumbnail is displayed, display the contents selection



2 Select the contents





Photo mode

Photo mode will read all ".jpg" extension files in the SD Card or USB Flash Memory.

The thumbnail of all the photos in the SD Card or USB Flash Memory will be displayed.

Example: Thumbnail - [All photos]



- : Error display
- To change the back ground music ⇒ "Photo Settings" (p. 56)
- To display the information of the highlighted photo





File number / Total file number

■ To sort by folder, recorded date or recorded month

1 Display the view selection



2 Select the sort type

Folder view
Sort by Date
Sort by Month

1) select

② access

[Folder view]:

Displays the thumbnail grouped by folder

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

Sort by Datel

Displays the thumbnail grouped by the same date

• The group of the photos without recorded date is shown as [Unknown].

[Sort by Month] :

Displays the thumbnail grouped by the same month

• The group of the photos without recorded date is shown as [Unknown].

3 Select one of the sorted groups to display the thumbnail of the selected group





2 thumbnail of the selected group

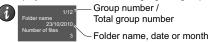
• To return to the thumbnail of all photos







To display the information of the highlighted group



[Single view] - Photos are displayed one at a time.

Select the file from the thumbnail of photos to be viewed



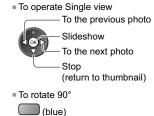
Example:



To display / hide the operation guide



To return to thumbnail



Operation guide

[Slideshow] - Slideshow will complete when all photos have been viewed within the present thumbnail.

1 Select the file from the thumbnail of photos for the first view



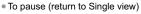




-select

• To display / hide the operation guide







To return to thumbnail BACK/ RETURN



Photo Settings

Setup the settings for Photo mode.

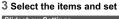
1 Display the option menu



2 Select [Slideshow Settings]

access





Slideshow Settings	
Frame	· Off
Colour Effect	· Off
Transition Effect	Fade
Aspect	Original
Burst Playback	Off
Interval	5 seconds
Repeat	√ On ===
Back Ground Music	



Menu	lu Item Adjustments / Configurations (alternatives)				
Sli	Frame	Selects the frame type of the slideshow [Off] / [Multi] / [Collage] [Multi] : 9 photos are displayed orderly at once. [Collage] : Each photo is displayed at a random position and random scale.			
Slideshow	Colour Effect	Selects the colour effect of photos on Single view and Slideshow [Off] / [Sepia] / [Gray scale]			
ow Settings	Transition Effect	Selects the transition effect for switching the photo during the slideshow [Off] / [Fade] / [Slide] / [Dissolve] / [Motion] / [Random] [Fade] : The next photo fades in gradually. [Slide] : The next photo slides and appears from the left side. [Dissolve] : Each photo is dissolved when switching to the next photo. [Motion] : Each photo is displayed with an effect of enlarging, reducing, moving up or moving down. [Random] : Each transition is selected at random. • This function is available when [Frame] is set to [Off].			

Menu	Item	Adjustments / Configurations (alternatives)			
	Aspect	Selects whether enlarged or normal viewing on Single view and Slideshow [Original] / [Zoom] This function is not available when [Frame] is set to [Collage]. This function is not available when [Transition Effect] is set to [Motion]. Depending on the photo size, it may not be fully enlarged to fill the screen, e.g. portrait style picture.			
	Burst Playback	Selects whether to display burst photos in a fast-paced slideshow mode [Off] / [On] • This function is not available when [Transition Effect] is set to [Motion].			
	Interval	Selects slideshow interval [5] / [10] / [15] / [30] / [60] / [90] / [120] (seconds) This function is not available when [Transition Effect] is set to [Motion].			
	Repeat	Slideshow repeat [Off] / [On]			
Slideshow Settings	Back Ground Music	Selects the back ground music during Ph [Off] / [Type1] / [Type2] / [Type3] / [Use of [Type1]] / [Type2] and [Type3] are the fix [User] : Music data in the device register To register the music 1. Select the music file Depending on the condition of the device, select folders until you reach the desired music file. Back Ground Music of [Depended of [De	ref.] / [Auto] red music each installed in this TV. red by yourself will be played back. 2. Select [File] or [Folder] Register Slideshow BGM? File Folder ① select ② set [File]: The selected music file will be registered as back ground music. [Folder]: All the music in the folder which contains the selected music file will be registered as back ground music. the device which has the registered music ed. der of the device will be played back		

- Note
 Picture quality may become lower depending on the slideshow settings.
 Picture setting may not work depending on the slideshow settings.

Video mode

Supported file formats ⇒ (p. 71)

The thumbnail of video titles in the SD Card or USB Flash Memory will be displayed.

Example: Thumbnail - [Title view]



Title view The preview will start when the title is highlighted if it supports a preview.

- To turn off the preview ⇒ "Video Setup" (p. 58)
- To display the information of the highlighted title

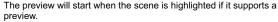


- : Error display
- : The file does not support thumbnail view.
- To view the scenes of the title

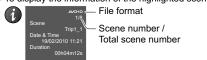
Select the title

Example: Thumbnail - [Scene view]





- To turn off the preview
- ⇒ "Video Setup" (p. 58)
- To display the information of the highlighted scene





■ Playback from Title view

Playback of the selected title will start.

- 1 Select the title

2 Start playback



(red)

■ Playback from the selected scene in the title (SD-Video or AVCHD)

Playback will start from the selected scene to the end of the title.

- To repeat playback ⇒ "Video Setup" (p. 58)
- 1 Select the title ① select ②access

2 Select the scene select

3 Start playback (red)

• The structure of titles and scenes may vary depending on the digital video camera used.

■ How to operate in the playback

Example: Playback



Operation guide Information banner

- To display / hide the operation guide and information banner
- i
- To operate the playback



 You can also use the following buttons. Set the code of the remote control to "73" (p. 27)









| | | | | | | |



 To change aspect ASPECT



 \oplus

To the next title / scene

To the previous title /



 To return to thumbnail BACK/ RETURN



■ To change the content → "Change the contents" (p. 53)

Video Setup

Setup the settings for Video mode.

1 Display the option menu in the thumbnail view



2 Select [Video Setup]





3 Select the items and set





Menu	Item	Adjustments / Configurations (alternatives)
Video Se	Video Preview	Sets to start the preview of the title or scene in the thumbnail view [Off] / [On] Image may not be displayed for an instant in the thumbnail view. Set the preview [Off] to resolve this.
Setup	Repeat	Playback repeat within the title [Off] / [On]

Confirm or change the current status

You can confirm or change the current status of the content.

Menu items and selectable options vary depending on the content.

1 Display the option menu during playback



Manu

2 Select [Video Setup]

Option Menu Video Setup



3 Select the items and set

② set



nfigurations (alternatives)
stable sound tracks (if available) nange the sound.
nlarged without distortion ıll-screen

IVICIIU	iteiii	Adjustinents / Configurations (alternatives)
Video	Multi Audio	Allows you to select between selectable sound tracks (if available) It may take several seconds to change the sound.
eo Setup	Aspect Change	[Aspect1]: Displays the content enlarged without distortion [Aspect2]: Displays the content full-screen [Original]: Displays the content original size • You can also change the aspect using the ASPECT button. • Aspect change may not work depending on the content.

Adjustments / Co

Audio output Settings

You can enjoy the multi-channel sound via an amplifier connected to DIGITAL AUDIO OUT or HDMI2 (ARC function) terminal.

To confirm or change the current sound status ⇒ (see above)

1 Display the menu



2 Select [Sound] VIETA Main Menu



3 Select [SPDIF Selection] and set



Menu Item		Item	Adjustments / Configurations (alternatives)
	Sound	SPDIF Selection	SPDIF: A standard audio transfer file format Selects the initial setting for digital audio output signal from DIGITAL AUDIO OUT and HDMI2 (ARC function) terminals [Auto] / [PCM] [Auto]: Dolby Digital is output as Dolby Digital Bitstream. MPEG is output as PCM. [PCM]: Digital output signal is fixed to PCM.

Music mode

Supported file formats ⇒ (p. 72)

The thumbnail of music folders in the SD Card or USB Flash Memory will be displayed.

Example: Thumbnail - [Folder view]



• To display the information of the highlighted folder



Folder number / Total folder number

■ Playback from Folder view

All the files in the selected folder will be played back.





2 Start playback



■ Playback from File view

Selected file will be played back.

1 Select the folder ① select ② access









To display the information of the highlighted file



select

File number / Total file number

■ How to operate in the playback

Example: Playback



To display / hide the operation guide



To operate the playback



To the previous track



To the next track



 To return to thumbnail BACK/ RETURN



■ To change the content → "Change the contents" (p. 53)

Music Setup

Setup the setting for Music mode (only available in the thumbnail view).

1 Display the option menu



2 Select [Music Setup] Option Menu Music Setup



3 Set





Music Setup Menu

[Folder]: Playback repeat within the selected folder [One] :Playback repeat of the selected one file

Link Functions (Q-Link / VIERA Link)

Q-Link connects the TV and DVD Recorder / VCR, and enables easy recording, playback, etc. ⇒ (p. 62) 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. 63 - 67) You can use Q-Link and VIERA Link functions together.

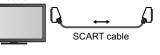
- This TV supports "HDAVI Control 5" function. But available features are depending on the connected equipment's version of HDAVI Control. Please read the manual of the equipment to confirm the version.
- VIERA Link features may be available even with other manufacturers' equipment supporting HDMI CEC.

Summary of Q-Link and VIERA Link features

Q-Link (SCART connection)

Connected equipment Features	DVD Recorder / VCR with Q-Link function
Analogue channel download	0
Easy playback	0
Power on link	0
Power off link	0
Direct TV Recording	0





DVD Recorder / VCR with Q-Link function

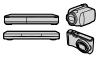
- Use fully wired SCART cable.
- Connect the DVD Recorder / VCR supporting Q-Link to the TV's AV1 terminal via a SCART cable.

VIERA Link (HDMI connection)

Connected equipment Features	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
Analogue channel download	_	_	_
Easy playback	0	0	0
Power on link	0	0	0
Power off link	0	0	0
Reduce unnecessary power consumption in Standby	○*³	* 3	_
Auto standby for unnecessary equipment	○*3	○*3	_
Pause Live TV programme	○ *3 *4	_	_
Direct TV Recording	○*3	_	_
Control the menu of the connected equipment by VIERA remote control	○ *1	○ *1	○* 1
Speaker control	-	_	_

Connection





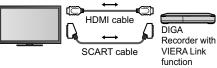
DIGA Recorder / DVD Player / Blu-ray Disc Player / HD Video Camera / LUMIX Camera with VIERA Link function

- Use fully wired HDMI compliant cable.
- Connect the equipment supporting VIERA Link to the TV's HDMI1, HDMI2 or HDMI3 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)

Connected equipment Features	DIGA Recorder with VIERA Link function
Analogue channel download	0
Easy playback	0
Power on link	0
Power off link	0
Reduce unnecessary power consumption in standby	○*³
Auto standby for unnecessary equipment	○ *3
Pause Live TV programme	O*2 *4
Direct TV Recording	O*2
Control the menu of the connected equipment by VIERA remote control	O*1
Speaker control	_

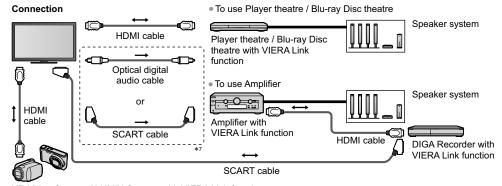
Connection



- Use a fully wired HDMI compliant cable.
- Connect the equipment supporting VIERA Link to the TV's HDMI1. HDMI2 or HDMI3 terminal via an HDMI cable
- Use a fully wired SCART cable.
- Connect the equipment supporting VIERA Link to the TV's AV1 terminal via a SCART cable.

VIERA Link (HDMI and Audio out connections)

Connected equipment Features	Player theatre with VIERA Link function	Blu-ray Disc theatre with VIERA Link function	Amplifier with VIERA Link function
Analogue channel download	_	_	_
Easy playback	○*5	O*5	_
Power on link	0	0	_
Power off link	0	0	0
Reduce unnecessary power consumption in Standby	_	○ *3	_
Auto standby for unnecessary equipment	O*3 *6	O*3 *6	O*3
Pause Live TV programme	-	_	_
Direct TV Recording	_	_	_
Control the menu of the connected equipment by VIERA remote control	* 1	○* 1	_
Speaker control	0	0	0



HD Video Camera / LUMIX Camera with VIERA Link function

- Use fully wired HDMI compliant cable.
- Connect the equipment supporting VIERA Link to the TV's HDMI2 or HDMI3 terminal via an HDMI cable.
- Use fully wired SCART cable.
- If you use a SCART cable for audio output, connect the equipment supporting VIERA Link to the TV's AV1 terminal and set [AV1 out] to [Monitor] in the Setup Menu (p. 32).
- Use the optical digital audio 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 or later" function.
- *4: Available with a DIGA Recorder which has HDD.
- *5: While playing a disc.
- *6: Except for watching a disc.
- *7: If the connected equipment has "HDAVI Control 5" function, you do not have to use this audio cable (Optical digital audio cable or SCART cable). In this case, connect the equipment to the TV's HDMI2 terminal via an HDMI cable.

VIERA Link Control of compatible equipment ⇒[VIERA Link Control] (p. 65 - 66)

Table below displays maximum number of compatible equipment that can be controlled by VIERA Link Control. This
includes connections to equipment already connected to the TV.

For example, DIGA Recorder connected to Amplifier which is connected to the TV via an HDMI cable.

Type of the equipment	Maximum number
Recorder (DIGA Recorder, etc.)	3
Player (DVD Player, Blu-ray Disc Player, HD Video Camera, LUMIX Camera, Digital Camera, Player theatre, Blu-ray Disc theatre, etc.)	3
Audio system (Player theatre, Blu-ray Disc theatre, Amplifier, etc.)	1
Tuner (Set top box, etc.)	4

Q-Link

Preparations

- Connect the DVD Recorder / VCR with the following logos:
- "Q-Link", "NEXTVIEWLINK", "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)"
- Q-Link connection ⇒ (p. 60)
- 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 → [AV1 out] (p. 32)
- Download Analogue channel setting * "Analogue channel download" (see below)

Features available

Analogue channel download

Analogue channel settings can be downloaded to a recorder with an analogue tuner (where Analogue is still broadcast). Digital channel settings are not downloaded.

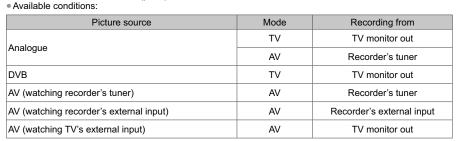
- To download the Analogue channel settings
 - **⇒** [Q-Link Download] (p. 33), [Auto Setup] (p. 14, 38)

Direct TV Recording - What you see is What you record

Recording the current programme on a DVD Recorder / VCR immediately.

• Set the code of the remote control to "73" (p. 27).





- When Direct TV Recording is performed, the recorder is automatically turned on if it is in Standby mode.
- You can change channel or turn the TV off 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



Unlock the tuner

Tuner Locked
Press EXIT to unlock and stop recording



Power on link and Easy playback

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

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 works even if the TV enters Standby mode automatically by auto power standby function.

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 5" 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. 60, 61).

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. 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.
- For information about applicable Panasonic equipment, consult your local Panasonic dealer or refer to www.panasonic.co.uk

Preparations

- Connect the equipment supporting VIERA Link.
- VIERA Link connection ⇒ (p. 60, 61)
- Use fully wired HDMI compliant cable. Non-HDMI-compliant cables cannot be utilised.

Recommended Panasonic's HDMI cable part number:

- RP-CDHS15 (1.5 m) RP-CDHS30 (3.0 m) RP-CDHS50 (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 Analogue channel setting * "Analogue channel download" (see below)
- Set [VIERA Link] to [On] in the Setup Menu. → [VIERA Link] (p. 32)
- Set up the TV.

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

Select the input mode from HDMI1, HDMI2 or HDMI3 (p. 26), 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

Analogue channel download

Analogue channel settings can be downloaded to a recorder with an analogue tuner (where Analogue is still broadcast). Digital channel settings are not downloaded.

- To download the Analogue channel settings
 - **▶** [Q-Link Download] (p. 33), [Auto Setup] (p. 14, 38)

Easy playback

Automatic input switching - When the connected equipment is operated (during playback or menu operations, etc.), the input mode is switched automatically. When playback is stopped or menus are exited, the input mode returns to the original setting.

Power on link

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

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 auto power standby function.

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. 33)

The power consumption in Standby mode of the connected equipment is controlled higher or lower in synchronisation 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 of the connected equipment is automatically minimised.

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

 This function is effective if the connected equipment can change the power consumption in Standby mode and is set to higher consumption.

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. 33)

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, the connected equipment will go into Standby mode / or 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 before the connected equipment turns to
- This function may not work properly depending on the connected equipment. If required, set to [Off].

Direct TV Recording - What you see is What you record [Direct TV Rec]

Records the current programme in the DIGA Recorder immediately.

- If you connect a variety of recorders including other manufacturers' recorders at the same time, connect the DIGA Recorder to the TV's lower HDMI terminal number. For example, if you use HDMI1 and HDMI2 for two recorders, connect the DIGA Recorder to HDMI1.
- If you cannot operate, check the settings and the equipment.
- ⇒ "Summary of Q-Link and VIERA Link features" (p. 60, 61), "Preparations" (p. 63)
- To record the programme which DIGA Recorder does not support, SCART connection is required and the programme is recorded by Q-Link function (p. 62).
- Depending on the programme, SCART connection may be required to record.
- You can change channel or turn the TV off while the recorder is recording from its own tuner.
- You can not change channel while the recorder is recording from the TV tuner.

Display [VIERA TOOLS] and select [VIERA Link]









Select [Direct TV Rec] and start recording





 You can also start recording directly when the code of the remote control is "73" (p. 27).



■ To stop recording

Select [Stop] in [Direct TV Rec]





You can also stop recording directly.

Unlock the tuner





Tuner Locked Press EXIT to unlock Any timer programme in progress will also be delete



Pause Live TV programme [Pause Live TV]

You can pause the current TV programme and resume later.

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

- This function is available with a DIGA Recorder which has HDD.
- If you connect a variety of recorders including other manufacturers' recorders at the same time, connect the DIGA Recorder which has HDD to the TV's lower HDMI terminal number. For example, if you use HDMI1 and HDMI2 for two recorders, connect the 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. 60, 61), "Preparations" (p. 63)

1 Displa

Display [VIERA TOOLS] and select [VIERA Link]





2 Select [Pause Live TV] and pause

The TV picture will be paused.





- The current TV programme is recorded on HDD from where it was paused.
- If the paused TV picture disappears after a few minutes, press OPTION button to restore the pause picture.
- Follow the operation guide to operate [Pause Live TV] function.

■ To operate [Pause Live TV]



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

- programme will be deleted from HDD.
- To return to current 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.

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 pointing 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. 60, 61), "Preparations" (p. 63)
- For details of the operations for the connected equipment, read the manual of the equipment.

Display [VIERA TOOLS] and select [VIERA Link]





Select [VIERA Link Control]



Select the equipment to access

Select the type of the connected equipment and access.





[Recorder] / [Player] / [Home Cinema] / [Video Camera] / [LUMIX] / [Digital Camera] / [Other]

- The displayed item may vary depending on the connected equipment.
- [Home Cinema] means Player theatre, Blu-ray Disc theatre or Recorder theatre.
- [Other] means Tuner set top box.

The menu of the accessed equipment will be displayed.

(Input mode will be changed automatically)

Operate the menu of the equipment

• Set the code of the remote control to "73" (p. 27).

Follow the operation guide

To display the operation guide



If other manufacturers' equipment is accessed, Setup / Contents Selection menu may be displayed.

Available VIERA remote control buttons depend on the connected equipment.

Note

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

■ If multiple recorders or players are connected



The number is given from the TV's lower HDMI terminal number connected to the same type equipment. For example, two recorders to HDMI2 and HDMI3, in this case the recorder connected to HDMI2 is displayed as [Recorder1], and the recorder connected to HDMI3 is displayed as [Recorder2].



The type of the connected equipment is displayed.

Although you can access the connected equipment, you cannot operate it.

Use its own remote control to operate the equipment.

Speaker control [Speaker Selection]

You can control the theatre speaker with this TV remote control pointing 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. 60, 61), "Preparations" (p. 63)

Display [VIERA TOOLS] and select [VIERA Link]









2 Select [Speaker Selection]



Set to [Home Cinema] or [TV]



[Home Cinema]:

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

Volume up / down



Mute



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

[TV]:

TV speakers are active.

Multi-channel sound

If you want to enjoy the multi-channel sound (e.g. Dolby Digital 5.1ch) via an Amplifier, connect it with HDMI cable and Optical digital audio cable (p. 61), and then select [Home Cinema]. If your Amplifier has "HDAVI Control 5" function, you only need to connect it with HDMI cable to the TV's HDMI2 terminal.

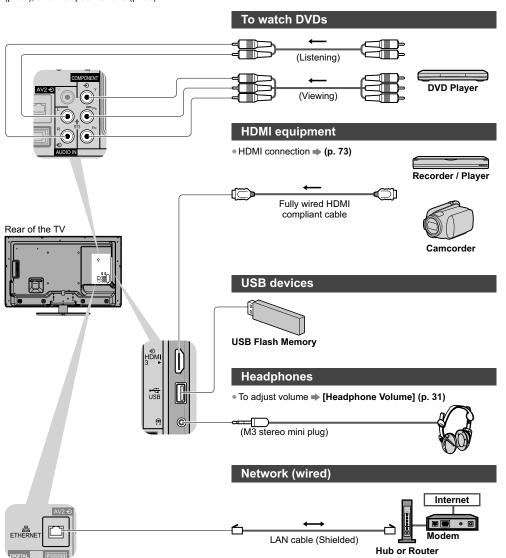
To enjoy the sound from the DIGA Recorder in multi-channel sound, connect an HDMI cable from the DIGA Recorder to the Amplifier (p. 61).

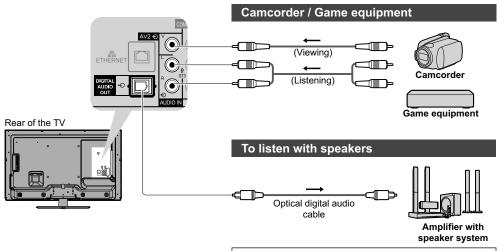
Note

- 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.
- "HDAVI Control 5" is the newest standard (as of November, 2011) 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. 34)

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 basic connection (p. 11 - 13), the table (p. 69), and the specifications (p. 83).





To enjoy the sound from the external equipment in multi-channel sound (e.g. Dolby Digital 5.1ch), connect the equipment to the amplifier.

For the connections, read the manuals of the equipment and amplifier.

Types of connectable equipment to each terminal

	Terminal				
	AV1	AV2	COMPONENT	DIGITAL AUDIO OUT	HDMI 1 - 3
Recording / Playback (equipment)		LO R	(AV2)		
To record / playback videocassettes / DVDs (VCR / DVD Recorder)	0				
To watch satellite broadcasts (Set top box)	0	0			O*1
To watch DVDs (DVD Player)	0	0	0		0
To watch camcorder images (Video camera)	0	0			0
To play games (Game equipment)	0	0			0
To use amplifier with speaker system				0	* 2
Q-Link	0				
VIERA Link	(with HDMI)				0
Direct TV Recording	0				0

[:] Recommended Connection

^{*1:} Use HDMI1 for automatic input switching.

^{*2:} Use HDMl2 for connecting an amplifier. This connection is applicable when using an amplifier that has ARC (Audio Return Channel) function.

Technical Information

Auto Aspect

The optimum size and aspect can be chosen automatically, and you can enjoy finer images. → (p. 19)

■ 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.

		Aspect Control Signal			
Input terminal	Input signal format	Widescreen signal (WSS)	Control signal through SCART (pin8) / HDMI terminal		
	DVB	0			
RF	PAL I	0			
IXI	PAL 525/60 6.0 MHz	_			
	M.NTSC 6.0 MHz	-			
AV1 / AV2 (Composite)	PAL	0	0		
	PAL 525/60	-	0		
	M.NTSC	_	0		
	NTSC	-	0		
	525 (480) / 60i, 60p	_			
COMPONENT	625 (576) / 50i, 50p	0			
	750 (720) / 60p, 50p	_			
	1,125 (1,080) / 60i, 50i	-			
HDMI1 HDMI2 HDMI3	525 (480) / 60i, 60p	-	0		
	625 (576) / 50i, 50p	_	0		
	750 (720) / 60p, 50p	-	0		
	1,125 (1,080) / 60i, 50i	-	0		
	1,125 (1,080) / 60p, 50p, 24p	_	0		

■ Auto mode

Auto mode determines the best aspect ratio to fill the screen using a four step process (WSS, Control signal through SCART / HDMI terminal, Letterbox detection or Justify to fill the screen).

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.

Supported file format in Media Player

■ Photo

Format	File extension	Image resolution (pixel)	Details / Restrictions
JPEG	.jpg	8 × 8 to 30,719 × 17,279	DCF and EXIF standards Sub-sampling: 4:4:4, 4:2:2, 4:2:0 Progressive JPEG is not supported.

■ Video

Container	File extension	Video codec	Audio codec	Details / Restrictions	
AVCHD	.mts	H.264	Dolby Digital	AVCHD Standard Ver. 2.0 (AVCHD Progressive) The data may not be available if a folder structure on the device is modified.	
SD-Video	.mod	MPEG1 MPEG2	Dolby Digital MPEG Audio	SD-Video Standard Ver. 1.31 (Entertainment Video Profile) The data may not be available if a folder structure on the device is modified.	
AVI	.avi .divx	DivX3 DivX4 DivX5 DivX6 H.264 BP/MP/HP MPEG1 MPEG2 MPEG4 SP/ASP VC-1 Windows Media Video Ver. 9	AAC ADPCM Dolby Digital Dolby Digital Plus DTS core HE-AAC LPCM MPEG Audio MP3 WMA	 Certified to play DivX HD video file in Media Player For details of DivX ⇒ (p. 72) Some subtitles or chapter functions may 	
MKV	.mkv	DivX3 DivX4 DivX5 DivX6 H.264 BP/MP/HP MPEG1 MPEG2 MPEG4 SP/ASP	AAC Dolby Digital Dolby Digital Plus DTS core HE-AAC MPEG Audio MP3	not be available.	
MP4	.f4v .m4v .mp4	DivX3 DivX4 DivX5 DivX6 H.264 BP/MP/HP MPEG1 MPEG2 MPEG4 SP/ASP	AAC Dolby Digital Dolby Digital Plus HE-AAC MPEG Audio MP3	This TV supports this container recorded by Panasonic products. For details, read the manual of the products.	
ASF	.asf .wmv	DivX3 DivX4 DivX5 DivX6 MPEG4 SP/ASP VC-1 Windows Media Video Ver. 9	AAC Dolby Digital Dolby Digital Plus HE-AAC LPCM MP3 WMA	Copy-protected files cannot be played back.	

■ Music

Codec	File extension	Restrictions
MP3	.mp3	_
AAC	.m4a	Copy-protected files cannot be played back.
WMA	.wma	Copy-protected files cannot be played back. WMA Lossless is not supported.

Note

- Some files may not be played back even if they fulfil these conditions.
- Do not use two-byte characters or other special codes for data.
- The device may become unusable with this TV if the file or folder names are changed.

DivX

DivX Certified® to play DivX® HD (H.264/MKV) video up to 1080p HD including premium content. ABOUT DIVX VIDEO:

DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos.

■ Subtitle text file of DivX

Subtitles format - MicroDVD, SubRip, TMPlayer

- The DivX video file and subtitles text file are inside the same folder, and the file names are the same except for the file extensions
- If there are more than one subtitles text files inside the same folder, they are displayed in the following order of priority: ".srt", ".sub", ".txt".
- To confirm or change the current subtitle status while playing DivX content, press the OPTION button to display Option Menu.
- Depending on the methods used to create the file or the state of recording, only parts of the subtitles may be displayed, or the subtitles may not be displayed at all.

Note

- Depending on how you make SD Card or USB Flash Memory, files and folders may not be displayed in the order you numbered.
- Depending on how you create the files and the structure of folders, the files and folders may not be displayed.
- When there are many files and folders, operation may take time to complete or some files may not be displayed or playable.

ABOUT DIVX VIDEO-ON-DEMAND:

This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in the Setup Menu. Go to vod.divx.com for more information on how to complete your registration.

■ To show DivX VOD registration code

- **▶ [DivX® VOD]** (p. 34)
- If you want to generate the new registration code, you have to deregister the current registration code. After playing DivX VOD content once, the confirmation screen to deregister will be displayed in [DivX® VOD] in the Setup Menu. If you press the OK button on the confirmation screen, the deregistration code will be generated and you will not be able to play any contents that you purchased using the current registration code.
 - You will obtain the new registration code by pressing the OK button on the deregistration code screen.
- If you purchase DivX VOD content using a registration code different from this TV's code, you will not be able to play
 this content. ([Your device is not authorized to play this DivX protected video.] is displayed.)

■ Regarding DivX content that can only be played a set number of times

Some DivX VOD content can only be played a set number of times.

When you play this content, the remaining number of plays is displayed. You cannot play this content when the number of remaining plays is zero. ([This DivX rental has expired.] is displayed.)

- When playing this content, the number of remaining plays is reduced by one in the following conditions:
 - If you exit the current application.
 - · If you play the other content.
 - If you go to the next or previous content.

Devices for playing back

■ SD Card

Card format:

SDXC Card - exFAT

SDHC Card / SD Card - FAT16 or FAT32

Compliant card type (maximum capacity):

SDXC Card (64 GB), SDHC Card (32 GB), SD Card (2 GB), miniSD Card (2 GB) (requiring miniSD adaptor)

- If miniSD Card is used, insert / remove it together with the adaptor.
- Check the latest information on the card type at the following website. http://panasonic.jp/support/global/cs/tv/
- Use an SD Card which meets SD standards. If not, it may cause the TV to malfunction.

■ USB Flash Memory (for playing back in Media Player)

USB Flash Memory format: FAT16, FAT32 or exFAT

• A USB HDD formatted by PC is not supported in Media Player.

Note

- Data modified with a PC may not be displayed.
- Do not remove the device while the TV is accessing data. Otherwise this can damage device or TV.
- Do not touch the pins on the device.
- Do not subject the device to a high pressure or impact.
- Insert the device in the correct direction. Otherwise this can damage device or TV.
- Electrical interference, static electricity, or erroneous operation may damage the data or device.
- 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.

HDMI connection

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

VIERA Link (HDAVI Control 5)

▶ [VIERA Link] (p. 63)

Audio Return Channel*2

(HDMI2 terminal only)

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 DVD player, a set top box or game equipment, can be connected to the HDMI terminal using an HDMI compliant (fully wired) cable.

For more information about connections ⇒ (p. 12 - 13, 68)

■ Applicable HDMI features

- Input audio signal:
- 2ch Linear PCM (sampling frequencies 48 kHz, 44.1 kHz, 32 kHz)
- Input video signal:
 - "Input signal that can be displayed" (p. 74)
 - Match the output setting of the digital equipment.
- Input PC signal:
- multiple "Input signal that can be displayed" (p. 74)

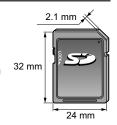
Match the output setting of the PC.

■ DVI connection

If the external equipment has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adaptor cable*3. When the DVI to HDMI adaptor cable is used, connect the audio cable to the audio input terminal (use AV2 audio terminals).

Note

- Audio settings can be made on [HDMI1 / 2 / 3 Input] in the Sound Menu. (p. 32)
- 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.
- Equipment having no digital output terminal may be connected to the input terminal of component or video to receive analogue signals.
- This TV incorporates HDMI™ technology.
- *1: The HDMI logo is displayed on HDMI-compliant equipment.
- *2: Audio Return Channel (ARC) is a function to send digital sound signals via an HDMI cable.
- *3: Enquire at your local digital equipment retailer shop.



USB connection

- It is recommended to connect the USB Flash Memory to the TV's USB port directly.
- Some USB devices or USB HUB may not be used with this TV.
- You cannot connect any devices by using USB card reader.
- Additional information for USB devices may be on the following website. http://panasonic.jp/support/global/cs/tv/

Input signal that can be displayed

■ COMPONENT (Y, PB, PR), HDMI

Signal name	COMPONENT	HDMI
525 (480) / 60i, 60p	0	0
625 (576) / 50i, 50p	0	0
750 (720) / 60p, 50p	0	0
1,125 (1,080) / 60i, 50i	0	0
1,125 (1,080) / 60p, 50p, 24p		0

: Applicable input signal

■ PC (from HDMI terminal)

Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)	
640 × 480 @60 Hz	31.47	60.00	
1,280 × 720 @60 Hz	45.00	60.00	
1,920 × 1,080 @60 Hz	67.50	60.00	

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

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 show fine detail with sufficient clarity.

Characters table for numeric buttons

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

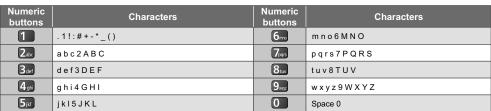




Press the numeric button repeatedly until you reach the desired character.

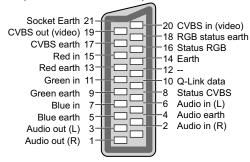
- The character is set automatically if you leave for 1 second.
- You can also set the character by pressing the OK button or other numeric buttons within 1 second.
- The characters may vary depending on the input items.



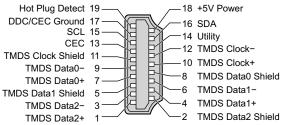


SCART and HDMI terminal information

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



HDMI terminal



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.

Block noise, frozen or disappearing image occurs in DVB mode / White spots or shadow image (ghosting) occurs in Analogue mode / Some channels cannot be tuned

- Check the position, direction and connection of the aerial.
- Check [Signal Condition] (p. 40). If [Signal Quality] is displayed in red, the DVB signal is weak.
- Check your postcode area is able to receive the Freeview channels at www.freeview.co.uk
- Digital signals may be relatively low to prevent interference with analogue signals for the period of Digital Switchover. Check the schedule of Digital Switchover at www.digitaluk.co.uk
- 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.
- 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.
- Turn the TV off with the Mains power On / Off switch, and then on again.
- If problem persists, consult your local dealer or service provider for the availability of services.

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 local dealer.

Neither image nor sound is produced

- Check the TV is turned on.
- Check the mains lead is plugged into the TV and the socket outlet.
- Check the TV is in AV mode.
- Check the correct input mode is selected.
- Check the Picture Menu (p. 30) and volume.
- Check all required 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. 70)
- Press the ASPECT button if you would like to change the aspect ratio manually.
 (p. 19)

Black and white picture

Check that the output of the external equipment matches the input of the TV.
 When connecting with SCART, ensure the output setting of the external equipment is not S-Video.

Input mode, i.e. EC/AV1 remains on the screen

ullet Press the i button to clear it.

Press again to redisplay.

Q-Link function does not work

Confirm SCART cable and connection.

Also set [AV1 out] in the Setup Menu. → (p. 32)

[VIERA Link] function does not work and an error message appears

- Confirm the connection. ⇒ (p. 60, 61)
- Turn the connected equipment on and then switch the TV on. → (p. 63)

Recording does not start immediately

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

There may be red, blue, green and black spots on the screen

• This is a characteristic of liquid crystal panels and is not a problem. The liquid crystal panel is built with very high precision technology giving you fine picture details. Occasionally, a few non-active pixels may appear on the screen as a fixed point of red, green, blue or black. Please note this does not affect the performance of your LCD.

Problem		Actions		
Screen	Chaotic image, noisy	 Set [P-NR] in the Picture Menu (to remove noise). ⇒ (p. 30) Check nearby electrical products (car, motorcycle, fluorescent lamp). 		
	No image can be displayed	 Is [Contrast], [Brightness] or [Colour] in the Picture Menu set to the minimum? → (p. 30) Please also refer to "Neither image nor sound is produced" → (p. 76) 		
	Blurry or distorted image (no sound or low volume)	 Reset channels. ⇒ (p. 38) Please also refer to "Neither image nor sound is produced" ⇒ (p. 76) 		
	Unusual image is displayed	■ Turn the TV Off with Mains power On / Off switch, then turn it On again. ■ If the problem persists, initialise all settings. ⇒ [Shipping Condition] (p. 48)		
Sound	No sound is produced	 Is Sound Mute active? → (p. 9) Is the volume set to the minimum? Is Speaker Selection (VIERA Link) set to [TV]? Please also refer to "Neither image nor sound is produced" → (p. 76) 		
pl	Sound level is low or sound is distorted	 Sound signal reception may be deteriorated. Set [NICAM] (p. 31) in the Sound Menu to [Off]. (Analogue only) Please also refer to "Neither image nor sound is produced"		
Digital Channel	No programmes shown on TV Guide	 Reset channels. ⇒ (p. 38) Check the digital transmission by contacting Digital UK on 08456 50 50 50 or at www. digitaluk.co.uk Check the analogue broadcast (if still available in your area). Consult an aerial engineer to check the alignment of your aerial. 		
hannel	Cannot find a channel you have previously watched	 The channel may broadcast for part of the day. Check the channel in the TV Guide. → (p. 20) Channel position numbers may be changed by broadcasters. Reset channels. → (p. 38) 		
	Sound is unusual	 Set the sound setting of the connected equipment to "2ch L.PCM". Check the [HDMI1 / 2 / 3 Input] setting in the Sound Menu. → (p. 32) If digital sound connection has a problem, select analogue sound connection. → (p. 73) 		
HDMI	Pictures from external equipment are unusual when the equipment is connected via HDMI	 Check the HDMI cable is connected properly. → (p. 68) Turn the TV and equipment Off, then turn them On again. Check an input signal from the equipment. → (p. 74) Check the output resolution of the equipment. Use equipment compliant with EIA/CEA-861/861D. 		
Cannot connect to the network Cannot connect to the network administrat set an IP address manual The router may be using Confirm the MAC Address If the problem persists, co		Check the LAN cable is connected properly.		
	The TV does not switch On	 Press and hold the standby On / Off switch on the remote control for about 1 second if Power LED is red. Check the mains lead is plugged into the TV and the socket outlet. The fuse in the mains plug may have blown. Replace it with one of an identical rating (p. 4) 		
	The TV goes into Standby mode	 Auto power standby function is activated.		
Other	The remote control does not work or is intermittent	 Are the batteries installed correctty? ⇒ (p. 8) 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 about 7 m and a 30 degree angle of the front of the TV). Situate the TV so that sunshine or other sources of bright light do not shine on the TV's remote control signal receiver. 		
	Parts of the TV become hot	Even when the temperature of parts of the front, top and rear panels has risen, these temperature rises do not cause any problems in terms of performance or quality.		

Problem		Actions	
	The LCD panel moves slightly when it is pushed with a finger Clattered sound might be heard	 There is some flexibility around the panel to prevent damage to the panel. The panel might move slightly when it is pushed with a finger, and clattered sound might be heard. This is not a malfunction. 	
Other	Overcurrent error message appears	The connected USB device might cause this error. Remove the device and turn the TV off with Mains power On / Off switch, then turn it on again. Check foreign objects are not inside the USB port.	
	An error message appears	Follow the message's instructions. If the problem persists, contact your local Panasonic dealer or the authorised Service Centre.	

On screen messages

Message	Meaning / Action		
All tuning data will be erased	 [Shipping Condition] will erase all tuning data ⇒ (p. 48) 		
Are you sure ?	Confirm correct operation.		
Are you sure you want to delete this timer? Press OK to delete timer. Press RETURN to return.	Confirm correct operation.		
Bad signal	 The signal is weak. Check the aerial is plugged in properly. It may be necessary to have an aerial installer check the signal and aerial alignment. Reset channels. → (p. 38) 		
Child Lock is active! Press OK to enter PIN.	The selected channel is locked in Child Lock (p. 45). You must enter the PIN number before the channel will be displayed.		
Feature not available.	 It is not possible to record from COMPONENT or HDMI. Connect the recorder to the TV using a fully wired SCART cable for recording from the TV tuner. Confirm Q-Link or VIERA Link settings ⇒ (p. 60 - 63) 		
Feature not available. Press OK to view how it works.	The selected feature on VIERA TOOLS is not available. Press the OK button to view the demonstration to explain how to use it.		
Found new software version ***. Press OK to start update (may take over 40 mins) or press EXIT to ignore and you can update when TV is in standby	There is a new software available.		
Invalid operation - Please check settings and connections.	• Check the Q-Link or VIERA Link connection and setting • (p. 60 - 63)		
Invalid system time. Please exit!	Cannot get the time information and cannot edit Timer Programming screen. Check the connection of the RF cable.		
Invalid system time, Timer Programming will not work. Please press TV button on remote control and check time display on Banner	Cannot get the time information. If there is no time displayed on the Information banner, check the connection of the RF cable.		
Max. number of timers already set!	The maximum number of timer programming events is 15.		
New channels found! Press OK to update channel list. Press EXIT to ignore.	There may be new channels available. This message will appear each time a change is made by the broadcasters. This message can be deactivated by setting [New Channel Message] to Off in [DVB Tuning Menu]. Selecting OK will perform [Update Channel List].		

Message	Meaning / Action			
No channel found. Please check aerial or local signal availability. Press OK to start Auto Setup.	Follow the on screen instructions. Please also refer to p. 76. If channels are still not found, consult your local Panasonic dealer.			
No module inserted	Check the CI module is inserted completely (p. 50).			
No recording - Already recording	The equipment may already be recording.			
No recording - Check media	• The tape or disc may be "write protected", full, missing or damaged.			
No recording - Playing	The equipment may be playing the tape or disc.			
No recording - Unknown reason	The recording may not be performed. Check the equipment.			
No service	The broadcaster has stopped the service. Check the channel in the TV Guide. (p. 20)			
No signal	The TV cannot detect the signal. Check the connection of the RF cable.			
Overcurrent error on USB device occurred. Please remove the USB device, and switch off the TV by mains power switch.	The connected USB device might cause overcurrent error. Follow the onscreen instructions. Check if foreign objects are inside the USB port.			
PIN incorrect!	The PIN number you entered is wrong.			
Please check settings and connections on HDMI devices.	Communication error in VIERA Link function (p. 63).			
Please wait.	A function is in progress.			
Recording this channel now	 The recorder is recording the programme from its own tuner. You can turn the TV off and leave the equipment recording in the normal way. 			
Reset to Factory Shipping Condition Completed.	 [Auto Setup] will automatically start when Mains power On / Off switch is next turned On. (p. 14) 			
Sending Preset Data	Q-Link or VIERA Link channel download is in progress.			
Software successfully updated. Press EXIT to continue.	The software updating is finished.			
Software update failed. Please try again later. Press EXIT to continue.	Perform [System Update Search Now] in System Update (p. 51). If this is still unsuccessful, there may not be any new software available.			
The device is not directly connected to the TV. The device may not work correctly.	Please do not connect the device via a USB HUB.			
This timer will not follow the TV Guide information. Press OK to continue, RETURN to restore original timer.	If you edit the start time or end time of Guide link programming by more than 10 minutes, it will no longer be performed as Guide link programming. The programming will be performed according to the time setting.			
Timer already expired !	 The starting time in Timer Programming has already passed. Set the timer correctly (p. 44). 			
Timer Event Due to Start ***:*** has been programmed for External recording at **:**	This message will appear 2 minutes before timer programming event for external recording due to start.			
Timer incorrect !	Set the start and end times in Timer Programming correctly (p. 44).			
Timer overlap. Press OK to keep, RETURN to edit.	Timer programming events are overlapped. Press the OK button to keep the overlapped setting. [Ext Rec.] is given priority over [Reminder]. When two or more [Ext Rec.] overlap, the first timer programming event starts and finishes as programmed. The next timer programming event can then start.			
Tuner Locked Press EXIT to unlock and stop recording	 If you want to unlock the tuner, cancel Direct TV Recording (p. 62, 64) or the recording of Timer Programming (p. 44). 			
Unable to download, please check equipment	The tape or disc is active. Stop the equipment and try again.			

■ Media Player

Message	Meaning / Action
Cannot read file	The file is broken or unreadable. Check applicable data format. (p. 71, 72)
No Device Inserted	Confirm the SD Card or USB device is inserted correctly.
No valid file to play	The card has no data.
This operation is not possible	The selected operation is not available.

■ Network

Message	Meaning / Action
Ethernet cable not connected	 Check the connection of the LAN cable. If you use a hub, also check the light on the hub is lit. The LAN cable might be defective.

Glossary

DVI

Digital Visual Interface - A high quality video interface standard to connect to the display

EPG

Electronic Programme Guide - A digital guide showing scheduled programmes

ETHERNET

One of the popular standards of LAN

HDMI

High-Definition Multimedia Interface - A digital audio and video interface for transmitting uncompressed digital signals on a single cable

LAN

Local Area Network

MAC Address

Media Access Control Address

NICAM

Near Instantaneous Companded Audio Multiplex - A format for digital sound over television

NTSC

National Television System Committee - One of the television signals used in USA, etc.

RF

Radio Frequency - Signal received from terrestrial aerial

RGB / Video

Choose between these three video formats depending on personal preference and equipment requirement (RGB - Red, Green and Blue)

SCART

21 pin connection used for video, audio and switching signals (Also known as Euro SCART and Peritel)

Shop viewing environment

Shop viewing environment is the demonstration mode to explain main features of this TV in an easy understandable way. This mode will work if you select [Shop] in "Auto Setup" (p. 15).

SPDIF

A standard audio transfer file format

USB

Universal Serial Bus - An interface specification to connect devices

VCR

Video Cassette Recorder

Maintenance

First, remove the mains plug from the socket outlet.

Display panel, Cabinet, Pedestal

Regular care:

Gently wipe the surface of the display panel, cabinet, or pedestal by using a soft cloth to clean the dirt or fingerprints.

For stubborn dirt:

First clean the dust on the surface. Dampen a soft cloth with clean water or diluted neutral detergent (1 part detergent to 100 parts water). Wring the cloth and wipe the surface. Finally, wipe away all the moisture.

Caution

- Do not use a hard cloth or rub the surface too hard, otherwise this may cause scratches on the surface.
- Take care not to subject the TV's surfaces to water or detergent. Liquid inside the TV could lead to product failure.
- Take care not to subject the surfaces to insect repellent, solvent, thinner or other volatile substances. This may degrade surface quality or cause peeling of the paint.
- The surface of the display panel is specially treated and may be easily damaged. Take care not to tap or scratch the surface with your fingernail or other hard objects.
- Do not allow the cabinet and pedestal to make contact with a rubber or PVC substance for a long time. This may degrade surface quality.

Mains plug

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

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Specifications

Model No.			TX-L32X5B			
Power source		AC 220-240 V, 50 / 60 Hz				
Panel		LED LCD panel				
Dimensions (W × H × D))	761 mm × 517 mm × 230 mm (With Pedestal) 761 mm × 463 mm × 53 mm (TV only)			
Mass	.		10.5 kg Net (With Pedestal) 8.5 kg Net (TV only)			
ဟ	Speaker	(75 mm × 22 mm) × 2		8Ω		
Sound	Audio output 20 W (10 W + 10 W)		20 W (10 W + 10 W)			
<u> </u>	Headphones		M3 (3.5 mm) stereo m	ini Jack × 1		
			DVB-T / T2 PAL I	Digital terrestrial services. UHF E21 - 68		
		F	PAL 525/60 M.NTSC	Playback of NTSC tape from some PAL Video recorders (VCR) or NTSC disc playback from DVD player and recorder. Playback from M.NTSC Video recorders (VCR).		
			NTSC (AV input only)	Playback from NTSC Video recorders (VCR).		
	iving systems / I name		DVB-T	Digital terrestrial services.		
Duni	iu name		PAL I	VHF A - J UHF E21 - E69 CATV S1 - S20 CATV S21 - S41 (Hyperband)		
		Ireland	PAL 525/60 M.NTSC	Playback of NTSC tape from some PAL Video recorders (VCR) or NTSC disc playback from DVD player and recorder. Playback from M.NTSC Video recorders (VCR).		
	NTSC (AV input only)			Playback from NTSC Video recorders (VCR).		
Aeria	al input		UK UHF [reland) VHF / UHF		
Oper	ating conditions		Temperature: 0 °C - 3 Humidity: 20 % - 80 %	85 °C % RH (non-condensing)		
	AV1 input / outpu	t	SCART (Audio/Video in, Audio/Video out, RGB in, Q-Link)			
	AV2 input		VIDEO	RCA PIN Type × 1 1.0 V[p-p] (75 Ω)		
			AUDIO L - R	RCA PIN Type × 2 0.5 V[rms]		
Conn	COMPONENT inp	ut	Y 1.0 V[p-p] (including synchronisation) Pв, PR ±0.35 V[p-p]			
Connection terminals	HDMI 1 / 2 / 3 inpo	ut	TYPE A Connectors HDMI2 : Audio Return Channel • This TV supports "HDAVI Control 5" function.			
minals	Card slot		SD Card slot × 1 Common Interface slot (complies with CI Plus) × 1			
	ETHERNET		RJ45, IEEE802.3 10BASE-T / 100BASE-TX			
	USB		USB2.0 DC 5 V, Max. 500 mA			
	DIGITAL AUDIO OUT		PCM / Dolby Digital / DTS, Fibre optic			

Note

- Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.
- For the information of power consumption, display resolution, etc., please refer to Product fiche.
- This equipment complies with the EMC standards listed below.
 EN55013, EN61000-3-2, EN61000-3-3, EN55020, EN55022, EN55024

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.

Sales and Support Information

Customer Communications Centre

- For customers within the UK: 0844 844 3899
- For customers within Ireland: 01 289 8333
- · For further support on your product, please visit our website: www.panasonic.co.uk

Direct Sales at Panasonic UK

- Order accessory and consumable items for your product with ease and confidence by phoning our Customer Communications Centre.
- Monday Thursday 9:00am 5:30pm, Friday 9:30am 5:30pm (Excluding public holidays)
- Or go on line through our Internet Accessory ordering application at www.pas-europe.com.
- · Most major credit and debit cards accepted.
- · All enquiries transactions and distribution facilities are provided directly by Panasonic UK.
- · It couldn't be simpler!
- Also available through our Internet is direct shopping for a wide range of finished products. Take a browse on our website for further details.



Declaration of Conformity (DoC)

Authorized Representative: Panasonic Testing Centre

Panasonic Marketing Europe GmbH

Winsbergring 15, 22525 Hamburg, Germany

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

F0212-0

Panasonic UK, a branch of Panasonic Marketing Europe GmbH

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Web Site: http://panasonic.net