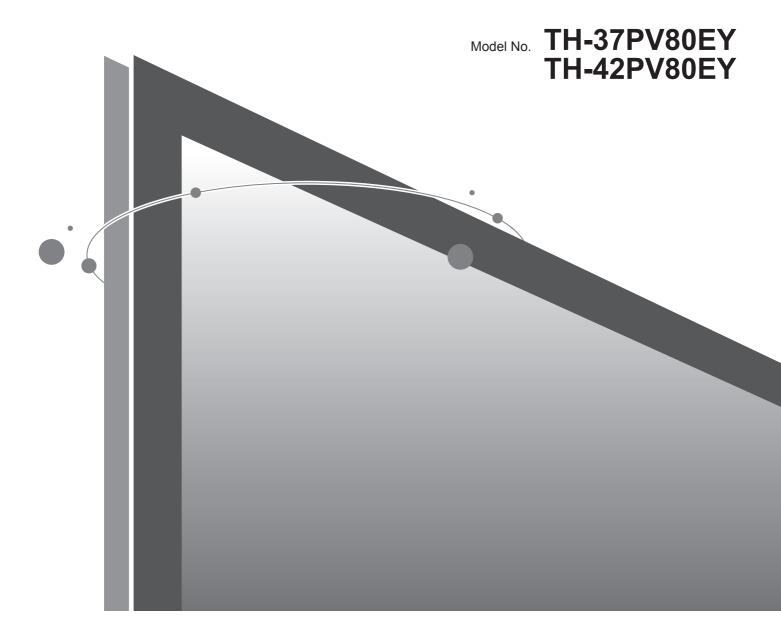


VIEſA

Operating Instructions Plasma Television









Please read these instructions before operating your set and retain them for future reference. The images shown in this manual are for illustrative purposes only. Please refer to Pan European Guarantee Card if you need to contact your local Panasonic dealer for assistance.

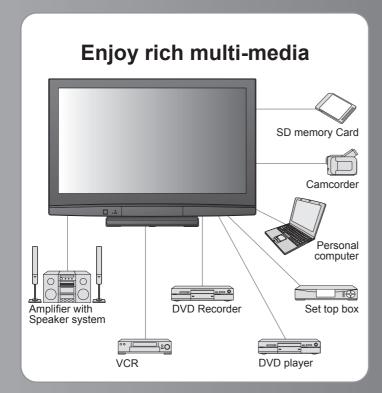




Turn your own living room into a movie theatre! Experience an amazing level of multi-



media excitement





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Enjoy your TV!

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FAQs, etc.

Safety Precautions

Handling the mains plug and lead

- Ensure that the mains plug is easily accessible at all times. The On / Off switch on this model does not fully disconnect the TV from the mains supply. Remove the mains plug from the wall socket when the TV is not used for a prolonged period of time.
- Ensure the earth pin on the mains plug is securely connected to prevent electrical shock.
- An apparatus with CLASS I construction shall be connected to a mains socket outlet with a protective earthing connection.
- Do not use any mains lead other than that provided with this TV. (This may cause fire or electrical shock.)

Do not expose to direct sunlight and other sources of heat

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

Do not place the TV on sloped or unstable surfaces

The TV may fall off or tip over.

Transport only in upright position

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

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 Panasonic 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.

WARNING: - THIS TV MUST BE EARTHED.

How to replace the fuse.

Open the fuse compartment with a screwdriver and replace the fuse.

Warning & Caution

Power source

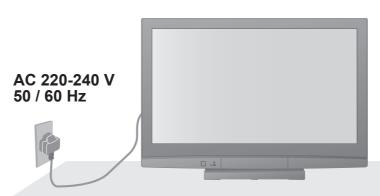
• This TV is designed to operate on 220-240 V, 50 / 60 Hz AC.

Do not remove the cover

 Do not remove the rear cover as live parts are accessible when it is removed. There are no user serviceable parts inside.

Do not expose your ears to excessive volume from the headphones

Irreversible damage can be caused.



Notes

Do not expose to rain or excessive moisture

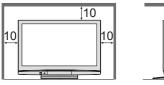
To prevent damage which might result in electric shock or fire, do not expose this TV to rain or excessive moisture. This TV must not be exposed to dripping or splashing water and objects filled with liquid, such as vases, must not be placed on top of or above the TV.

Do not block the rear ventilation openings

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

Allow sufficient space around the TV for radiated heat

Minimum distance



• When using the pedestal, keep the space between the bottom of the TV and the floor surface.

(cm)

 In case of using Wall-hanging bracket, follow the manual of it.

Use only the dedicated pedestals / mounting equipment

- Using an unapproved pedestal or other fixtures may make the TV unstable, risking injury. Be sure to ask your local Panasonic dealer to perform setup.
- Use approved pedestals / mounts (p. 6).

Do not allow children to handle SD Card

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

Do not display a still picture for a long time

This causes the image to remain on the plasma screen ("image retention").

This is not considered a malfunction and is not covered by the warranty.

Typical still images

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



To prevent image retention, contrast is lowered automatically after a few minutes if no signals are sent or no operations are performed. (p. 45)

Auto power standby function

- If no signal is received and no operation is performed in TV mode for 30 minutes, the TV will automatically go to standby mode.
- Keep the TV away from these types of equipment
 Electronic equipment
 - In particular, do not place video equipment near the TV (electromagnetic interference may distort images / sound).
 - Equipment with an infrared sensor
 - This TV also emits infrared rays (this may affect operation of other equipment).

Maintenance

First, remove the mains plug from the socket outlet.

Display panel

Regular care: Gently wipe the surface clean of dirt by using a soft cloth. Major contamination: Wipe the surface clean using a soft cloth dampened with clean water or diluted neutral detergent (1 part detergent to 100 parts water). Then, using a soft dry cloth, evenly wipe the surface clean until it is dry.

Caution

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

Cabinet, Pedestal

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

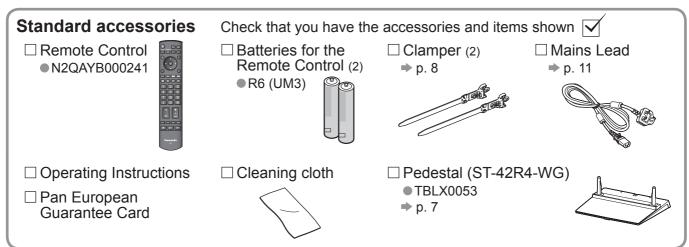
Caution

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

Mains plug

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

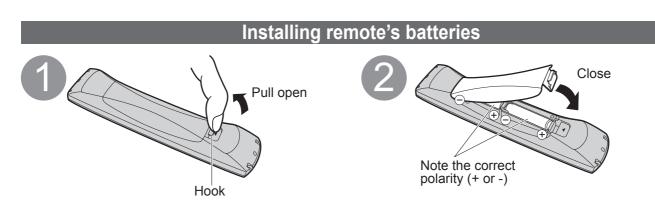
Accessories / Options



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.



- Carefully read the instructions accompanying the pedestal, and be absolutely sure to take steps to prevent the TV from tipping over.
- Handle the TV carefully during installation since subjecting it to impact or other forces may cause product damage.



Caution

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

Attaching the pedestal

Warning

Do not disassemble or modify the pedestal.

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

Caution

Do not use any other TV and displays.

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

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

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

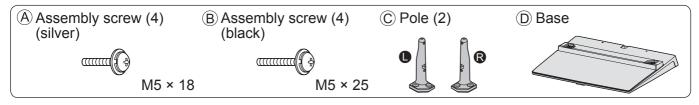
During set-up, make sure that all screws are securely tightened.

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

If the TV is knocked 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.

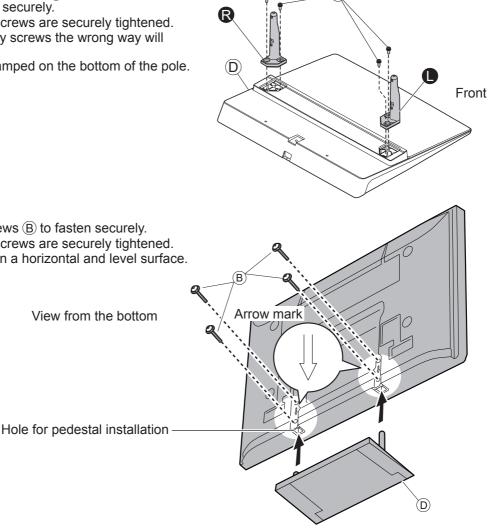
If two or more people are not present, the TV may be dropped, and personal injury may result.



Assembling the pedestal

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

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



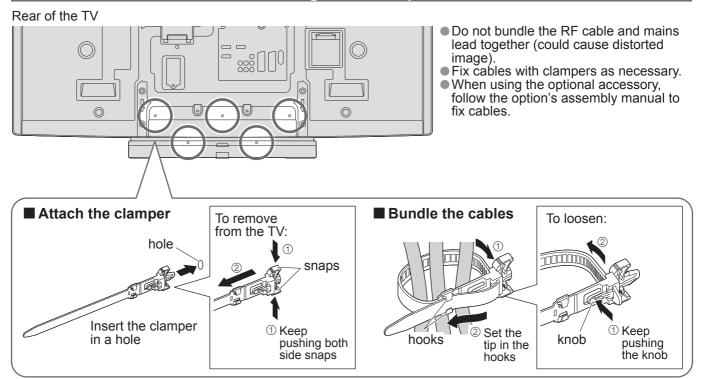
Securing the TV

Use the assembly screws (B) to fasten securely. Make sure that the screws are securely tightened. Carry out the work on a horizontal and level surface.

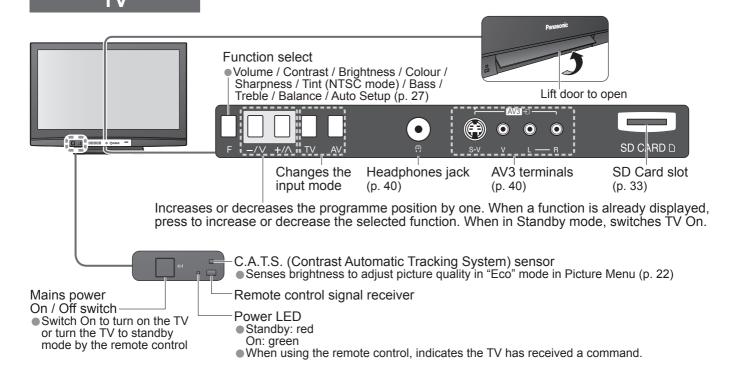
View from the bottom

Accessories / Options

Using the clamper

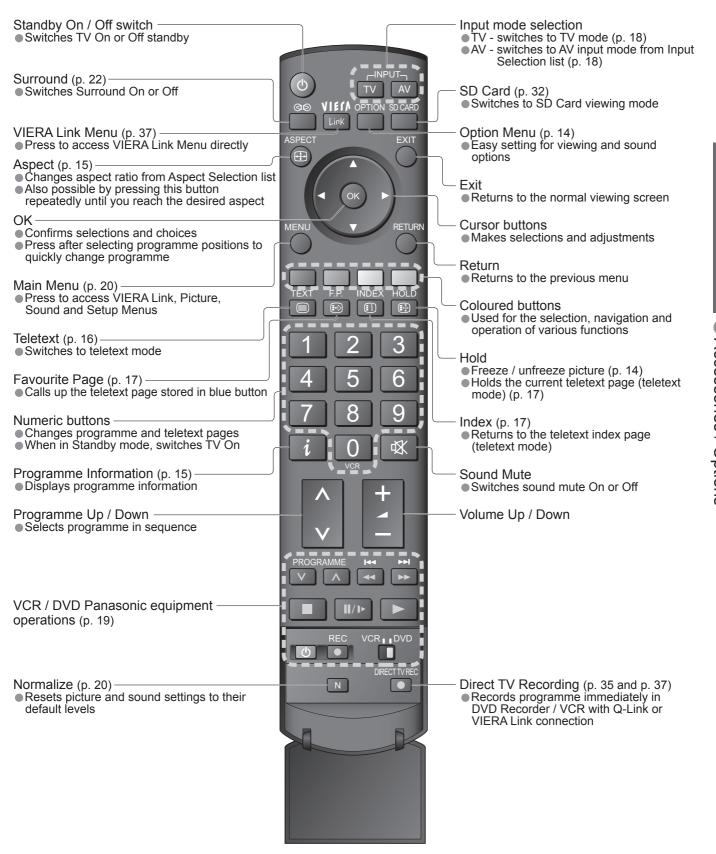


Identifying Controls



Identifying Controls

Remote Control



Basic Connection

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

Example 2 Example 1 **Connecting DVD Recorder / VCR Connecting aerial** TV only **TV, DVD Recorder or VCR** Rear of the TV Rear of the TV Aerial Aerial AC 220-240 V AC 220-240 V 50 / 60 Hz 50 / 60 Hz _ C C Mains lead (supplied) Mains lead (supplied) RF cable ٦٢ наті наті HDMI 2 HDMI 2 HDMI 1 ÷ ς Ę HDMI 3 -HDMI3 + 0 0 ۲. 0 ۲ ۲ ۲ ۲ RF cable SCART cable (fully wired) ΈG **RF OUT** G DVD Recorder or VCR

Note

- Connect to AV1 / AV2 for a DVD Recorder / VCR supporting Q-Link (p. 35).
- For HDMI-compatible equipment, possible to connect to HDMI terminals (HDMI1 / HDMI2 / HDMI3) by using HDMI cable (p. 40).

RF cable

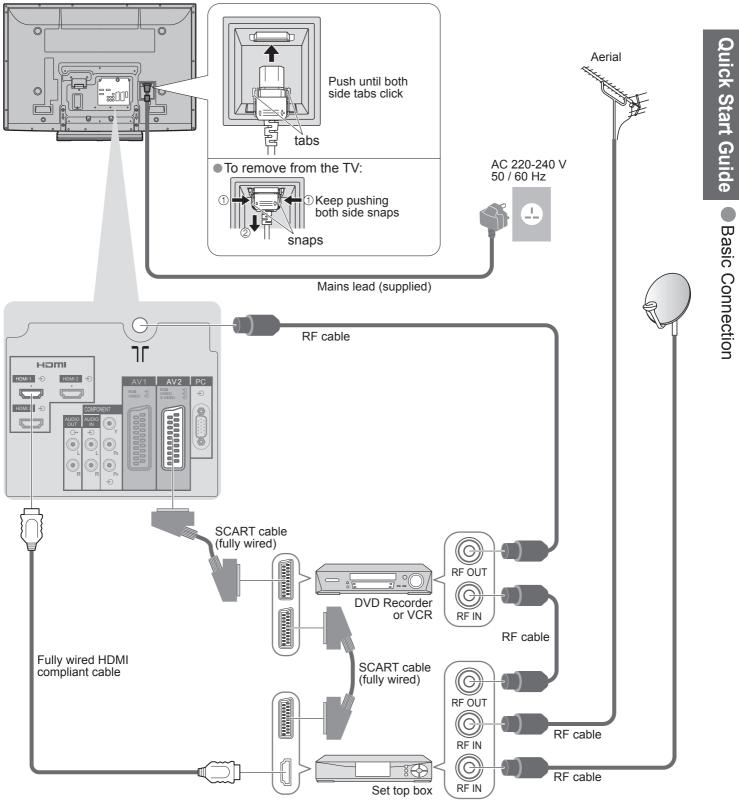
RF IN

- Q-Link connection → p. 34
 VIERA Link connection → p. 34
- Read the manual of the equipment too.

Example 3 Connecting DVD Recorder / VCR and Set top box

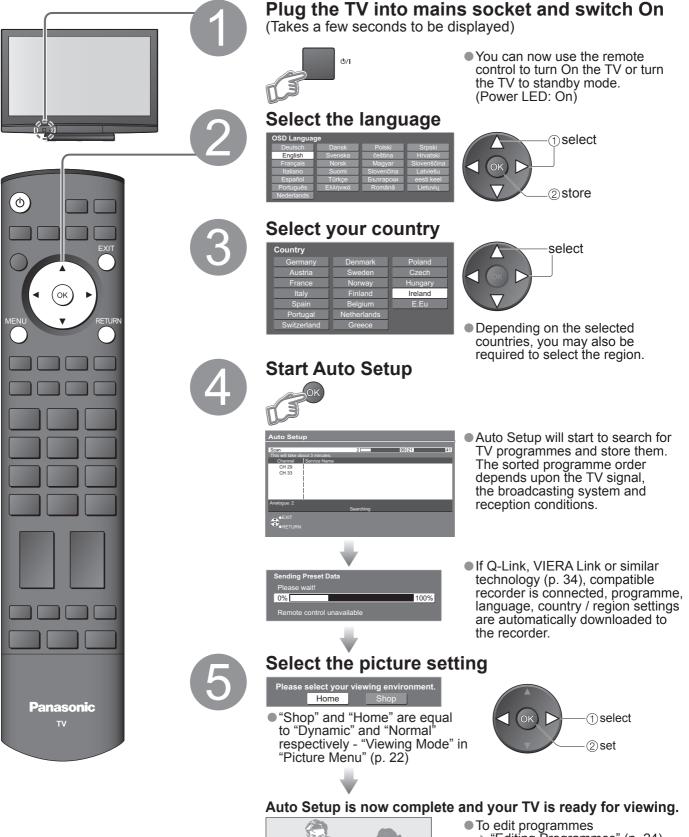
TV, DVD Recorder / VCR and Set top box

Rear of the TV



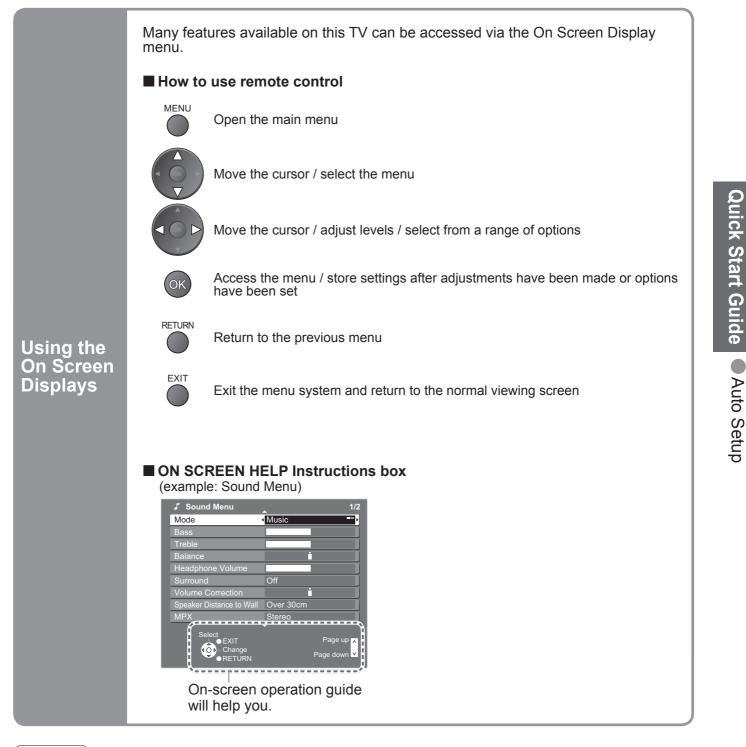
Auto Setup

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



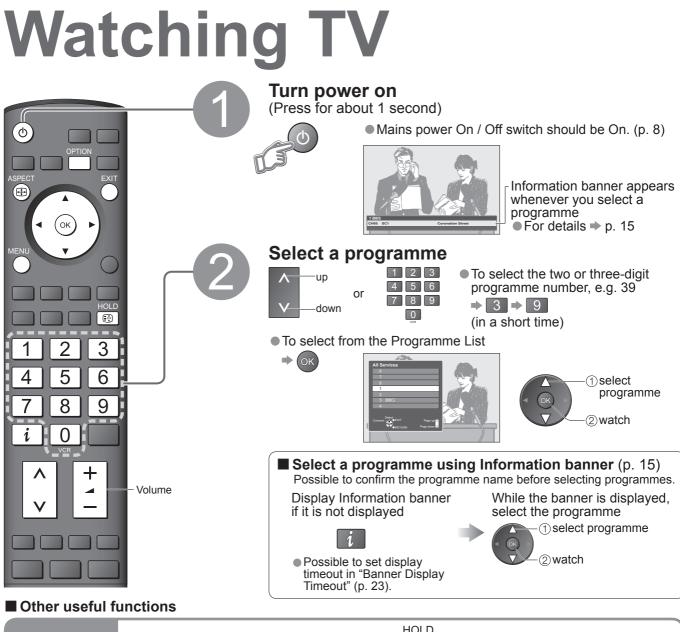


To edit programmes
 "Editing Programmes" (p. 24)



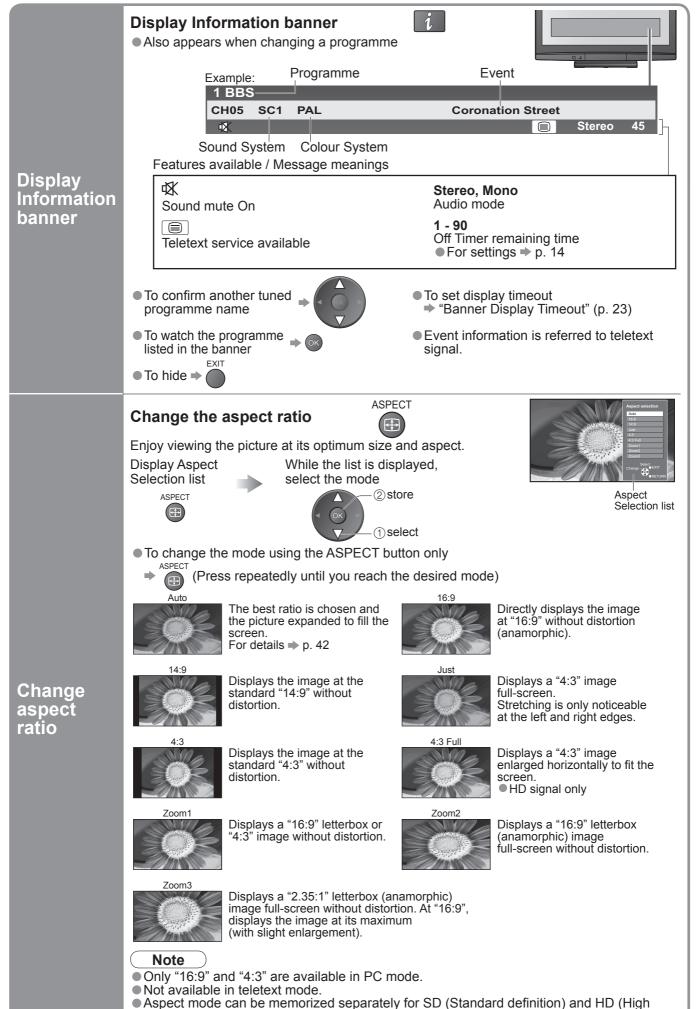
Note

- If tuning has failed ➡ "Auto Setup" (p. 27)
- If downloading has failed ⇒ "Download" (p. 23)
- If you turned the TV Off during Standby mode last time, the TV will be in Standby mode when you turn the TV On with Mains power On / Off switch.



Hold	Freeze / unfreeze picture	HOLD
Display the	Check or change the current programme status instantly	OPTION To change
selectable settings for the current programme	Teletext Character Set Sets the teletext language → Setup Menu (p. 23) MPX → Sound Menu (p. 22)	Volume Correction Adjusts volume of individual programme or input mode
	 Sound Mend (p. 22) Note Also possible to change the settings in Men 	u list (p. 22 and p. 23).
	Turn the TV off automatically after a	i fixed period
	Display the Select "Setup" menu	Select "Off Timer" and set the time
Off Timer	MENU VIERA Link Picture J Sound E Setup () Select	Service List Edt
	 To cancel ⇒ Set to "Off" or turn the TV off. To display the remaining time ⇒ Information When the remaining time is within 3 minutes 	banner (p. 15) s, the remaining time will flash on screen.

Other useful functions



definition) signals.

15

Viewing

Watching TV

Viewing Teletext

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

What is FLOF (FASTEXT) mode?

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

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

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

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

Available page up / down

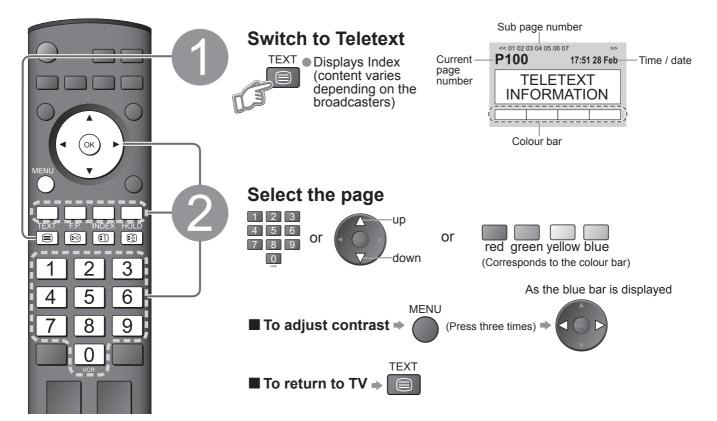
To select among subject blocks

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

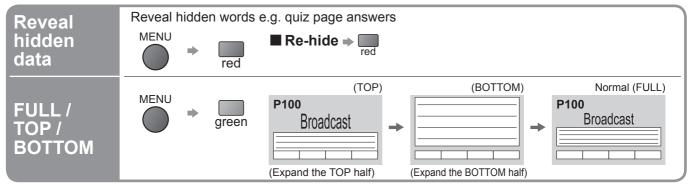
What is List mode?

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

■ To change mode → "Teletext" in Setup Menu (p. 23)



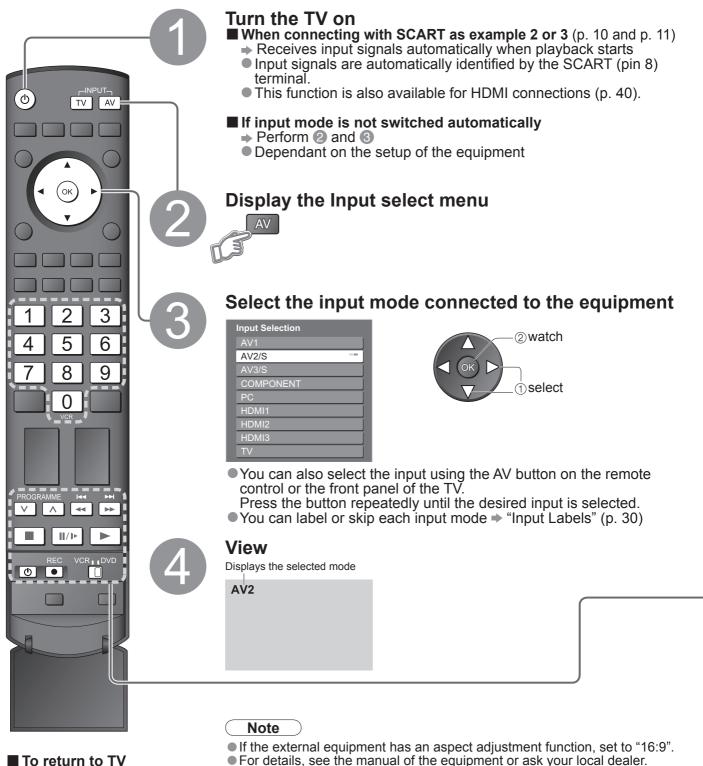
Using teletext conveniently



HOLD	Stop automatic updating (If you wish to hold the current page without updating) HOLD HOLD HOLD HOLD HOLD HOLD HOLD
INDEX	Return to the main index page INDEX
Call up a favourite page	View a favourite page stored F.P. • Call up the page stored in "blue". Image: Store of the page
View in multi window	 Watch TV and Teletext in two windows at once MENU (Press twice) Operations can be made only in Teletext screen.
Store frequently viewed pages	Store frequently viewed pages in the colour bar (List mode only) As page is Corresponding of the press and hold Broadcast isplayed Corresponding of the number changes to white. To change stored pages The number changes to white. Enter new page number Colour button you want to change of the press and hold for the press of the press and hold for the press of thep
View sub page	View sub page (Only when teletext is more than one 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. Changes to TV screen temporarily MENU yellow View the updating is completed (You cannot change the programme.) The news page provides a function that indicates arrival of latest news ("News Flash").

Watching Videos and DVDs

Connect the external equipment (VCRs, DVD equipment, etc.) and you can watch the input. ■ To connect the equipment ⇒ p. 10 and p. 11 The Remote Control is capable of operating some functions of selected Panasonic external equipment.



• For details, see the manual of the equipment or ask your local dealer.

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

	VCR / DVD switch* Select VCR to operate Panasonic VCR or DVD equipment Select DVD to operate Panasonic DVD equipment or Player home theatre
٢	Standby Set to Standby mode / Turn on
	Play Playback videocassette / DVD
	Stop the operations
44 4	Rewind / Skip / Search VCR: Rewind, view the picture rapidly in reverse DVD: Skip to the previous track or title Press and hold to search backward
*	Fast-forward / Skip / Search VCR: Fast-forward, view the picture rapidly forward DVD: Skip to the next track or title Press and hold to search forward
/▶	Pause Pause / Resume DVD: Press and hold to play at slow speed
PROGRAMME	Programme Up / Down Select programme
REC	Record Start recording

Press

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

① Set the VCR / DVD switch to the appropriate position -

② Press and hold during the following operations 1 2 3

Enter the appropriate code for the equipment to be controlled, see table below 7 8 9

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

Note

"VC

Confirm if the remote control works correctly after changing the code.
 The codes will be reset to default values if batteries are replaced.

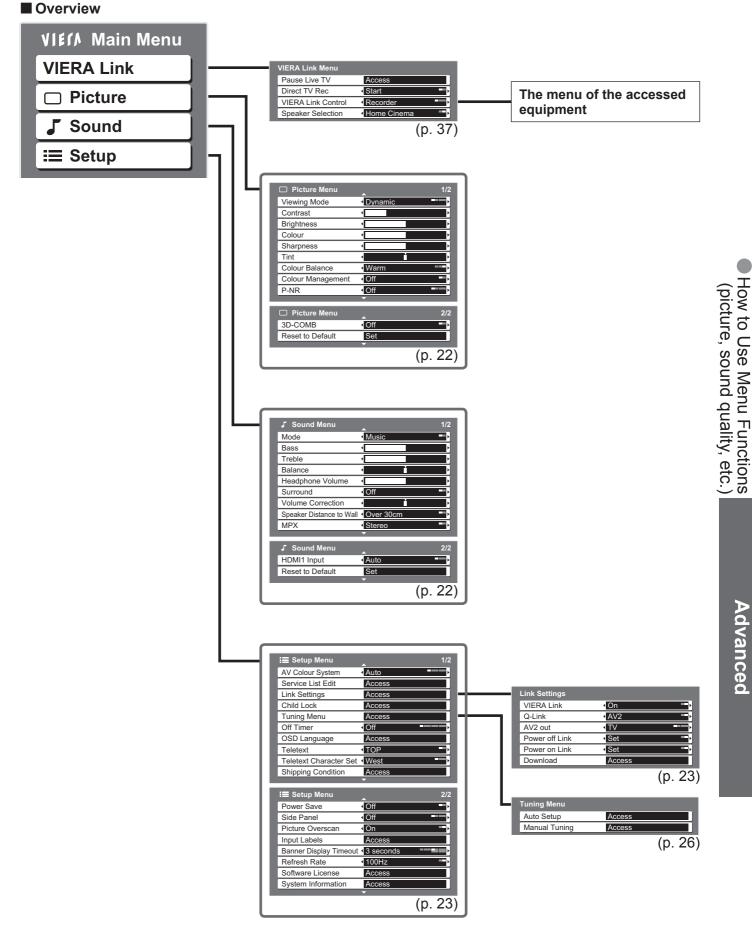
"DVD" means DVD player, DVD recorders and Recorder home theatre.
Some operations may not be possible on some equipment models.

How to Use Menu Functions

Various menus allow you to make settings for the picture, sound, and other functions. **Display the menu** MENU Displays the functions that can be set (varies according to the input signal) VIEL Link Select the menu ②access VIETA Main Menu ОК Picture Sound (1) select Setup (example: Picture Menu) Select the item Picture Menu 1/2 Dynamic Viewing Mode select (example: Picture Menu) Adjust or select 🗆 Picture Menu Viewing Mode Dynamie Contrast OK (1) change Brightness Colour Sharpness Tint 2 store or access Colour Balance Warn (Required by Colour Management < Off some functions) P-NR Off N (example: Picture Menu) Choose from among To reset the settings alternatives To reset the picture settings only "Reset to Default" Number and positions of alternatives in Picture Menu (p. 22) Normal Colour Balance To reset the sound settings only To return to TV "Reset to Default" at any time Changed in Sound Menu (p. 22) EXIT Adjust using the slide bar To reset the picture and sound settings together Sharpness Ν Also volume level and Moved To return to the aspect mode are reset previous screen Go to the next screen • To initialize all settings RETURN "Shipping Condition" ah. Tuning Menu Access in Setup Menu (p. 29) Displays the next screen To change menu Enter characters by free input menu pages You can enter names or numbers freely for some items. up Set characters Store select RETURN JK down

4 5 6 7 8 9 ! : 1 1 m n o p q r s

-② set



How to Use Menu Functions

Menu list

Menu	Item	Adjustments / Configurations (alternatives)				
	Pause Live TV	Adjustitions / Configurations (alternatives)				
VIERA Link	Direct TV Rec	Controls the connected equipment with VIERA Link function, and enables various convenient recording, playback, etc. (p. 37 - 39)				
A	VIERA Link Control	You can also access VIERA Link Menu directly using the VIERA Link button on the				
.ink	Speaker Selection	remote control.				
	Viewing Mode	Basic picture mode (Dynamic / Normal / Cinema / Eco) Dynamic : Provides enhanced picture contrast and sharpness when viewing in a bright room Normal : Recommended for viewing under normal ambient room lighting conditions Cinema : For watching movies in a darkened room producing a cinema-like picture Eco : Adjusts picture settings automatically dependent on ambient lighting conditions • Set for each input signal				
	Contrast, Brightness, Colour, Sharpness	Increases or decreases the levels of these options according to your personal preference				
σ	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				
Picture	Colour Balance	Allows you to set the overall colour tone of the picture (Cool / Normal / Warm)				
ure	Colour Management	Automatically adjusts colours to vivid ones (Off / On) ● Not valid on PC signal				
	P-NR	Picture Noise Reduction Automatically reduces unwanted picture noise and flicker noise in the contoured parts of a picture (Off / Min / Mid / Max) ● Not valid on PC signal				
	3D-COMB	Occasionally, whilst viewing still or slow moving pictures, colour patterning may be seen Set to "On" to display sharper and more accurate colours (Off / On) For PAL or NTSC signal reception only Not valid on RGB, S-Video, Component, PC, HDMI and SD Card				
	Reset to Default	Press the OK button to reset the present Picture Mode to the default settings				
	Mode	Basic sound mode (Music / Speech)				
	Bass	Increases or decreases level to enhance or minimise lower, deeper sound output				
	Treble	Increases or decreases level to enhance or minimise sharper, higher sound output				
	Balance	Adjusts volume level of right and left speakers				
	Headphone Volume	Adjusts the volume of the headphones				
	Surround	Surround sound settings (Off / On) Provides a dynamic enhancer to simulate improved spatial effects Switching is also possible by the Surround button on the remote control (p. 9).				
လ	Volume Correction	Adjusts volume of individual programme or input mode				
Sound	Speaker Distance to Wall	Adjusts the low frequency sound (Over 30cm / Up to 30cm) If the back space between the TV and wall is over 30 cm, "Over 30cm" is recommended. If the back space between the TV and wall is within 30 cm, "Up to 30cm" is recommended.				
	МРХ	Select stereo / monaural (Mono / Stereo) • Normally: Stereo • Stereo signal cannot be received: Mono • M1 / M2: Available while mono signal is transmitted				
	HDMI1 Input	Select to fit the input signal (Auto / Digital / Analogue) (p. 42) Auto : Automatic detection of digital or analogue sound source Digital : HDMI cable connection Analogue : HDMI-DVI adapter cable connection • HDMI input mode only • HDMI2 / 3 terminals are for digital signal only • No setting for HDMI2 / 3 available				
	Reset to Default	Press the OK button to reset the present Sound Mode to the default settings				

22

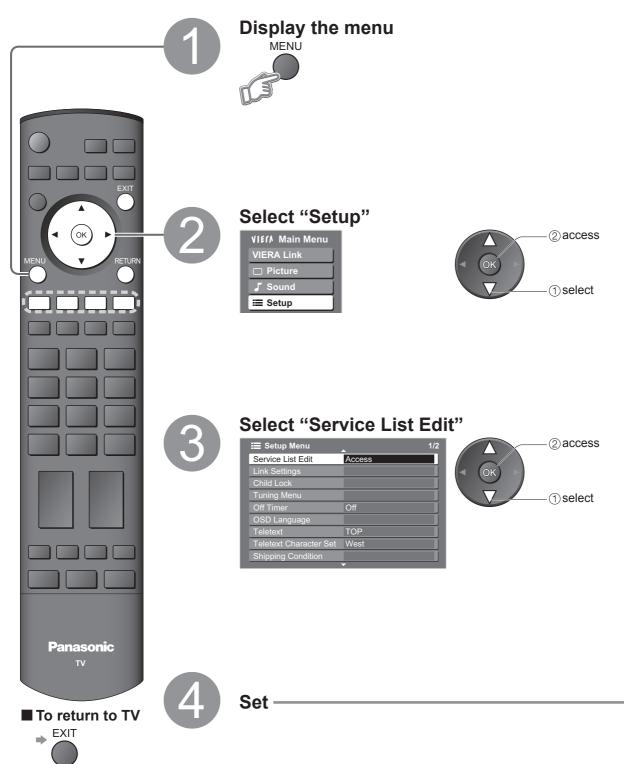
Menu list

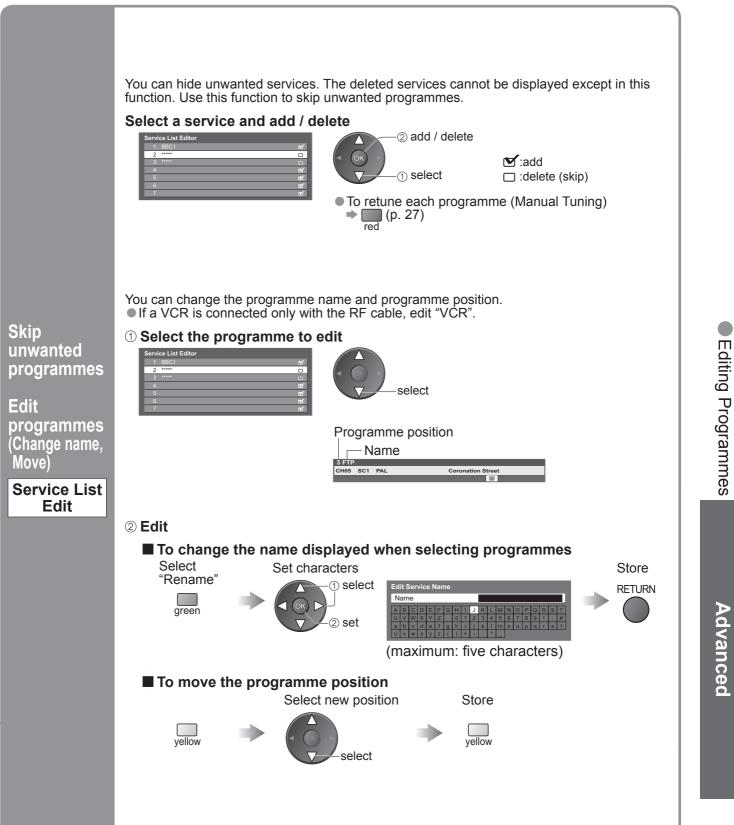
Menu	ı Item		Adjustments / Configurations (alternatives)			
	AV	Colour System	Selects optional colour system based on video signals in AV mode (Auto / PAL / SECAM / M.NTSC / NTSC)			
	Service List Edit		Skips the unwanted programmes or edits programmes (p. 25)			
		VIERA Link	Sets to use VIERA Link functions (Off / On) (p. 36)			
	F	Q-Link	Selects which AV terminal is to be used for data communication between this TV and a compatible recorder (AV1 / AV2) (p. 35) • Select the connected terminal to the recorder even it is not compatible with Q-Link.			
	Link Settings	AV1 / AV2 out	Chooses the signal to be transmitted from the TV to Q-Link (TV / AV1 / AV2 / AV3 / Monitor) Monitor: Image displayed on screen Component, PC and HDMI signals cannot be outputted.			
	sɓu	Power off Link	Sets to use Power off Link function (No / Set) (p. 35 and p. 36)			
		Power on Link	Sets to use Power on Link function (No / Set) (p. 35 and p. 36)			
		Download	Downloads programme, language, country / region settings to a Q-Link or VIERA Link compatible equipment connected to the TV			
		ild Lock	Locks a programme / AV input to prevent access to it (p. 28)			
	Tuning	Auto Setup	Automatically sets the programmes received in the area (p. 27)			
	g Menu	Manual Tuning	Sets the programmes manually (p. 27)			
Ś	Off Timer		Sets the time the TV automatically turns Off (Off / 15 / 30 / 45 / 60 / 75 / 90 minutes)			
Setup	OSD Language		Changes language for on-screen displays			
	Tel	etext	Teletext display mode (TOP (FLOF) / List) (p. 16)			
	Teletext Character Set		 Selects teletext language (West / East1 / East2) West: English, French, German, Greek, Italian, Spanish, Swedish, Turkish, etc. East1: Czech, English, Estonian, Lettish, Rumanian, Russian, Ukrainian, etc. East2: Czech, Hungarian, Lettish, Polish, Rumanian, etc. 			
	Sh	ipping Condition	Resets all settings, for example, when moving house (p. 29)			
	Po	wer Save	Reduces brightness of picture to economise on power consumption (Off / On)			
	Sic	le Panel	Increases the brightness of the side panel (Off / Low / Mid / High) The recommended setting is "High" to prevent panel "image retention".			
	Picture Overscan		 Selects the screen area displaying the image (Off / On) On : Enlarged the image to hide the edge of the image. Off : Displayed the image in the original size. Set to "On" if noise is generated on the edge of the screen. This function is available when aspect is set to Auto (16:9 signal only) or 16:9. This function can be memorized separately for SD (Standard definition) and HD (High definition) signals. 			
	Input Labels		Labels or skips each input terminal (p. 30)			
	Banner Display Timeout		Sets how long the information banner (p. 15) stays on screen ● 0 (No display) to 10 sec. in 1-sec. increments			
	Refresh Rate		Changes the image processing of the panel (depending on the input signal) (50Hz / 100Hz) Set to "100Hz" normally			
	So	ftware License	Displays the software licence information			
	Sy	stem Information	Displays the system information of this TV			

A different menu will be displayed while PC or SD Card is used. (p. 31 and p. 33)
 Only available items can be selected.

Editing Programmes

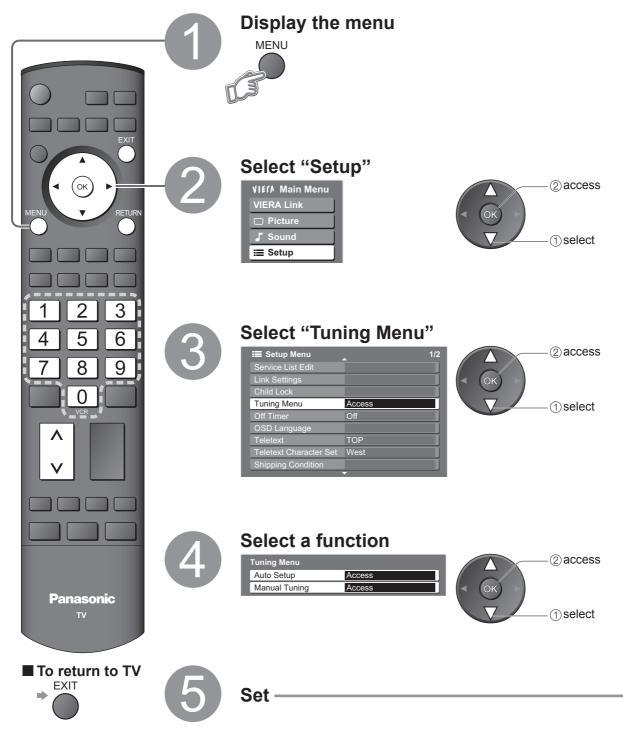
You can skip unwanted programmes or edit programmes.

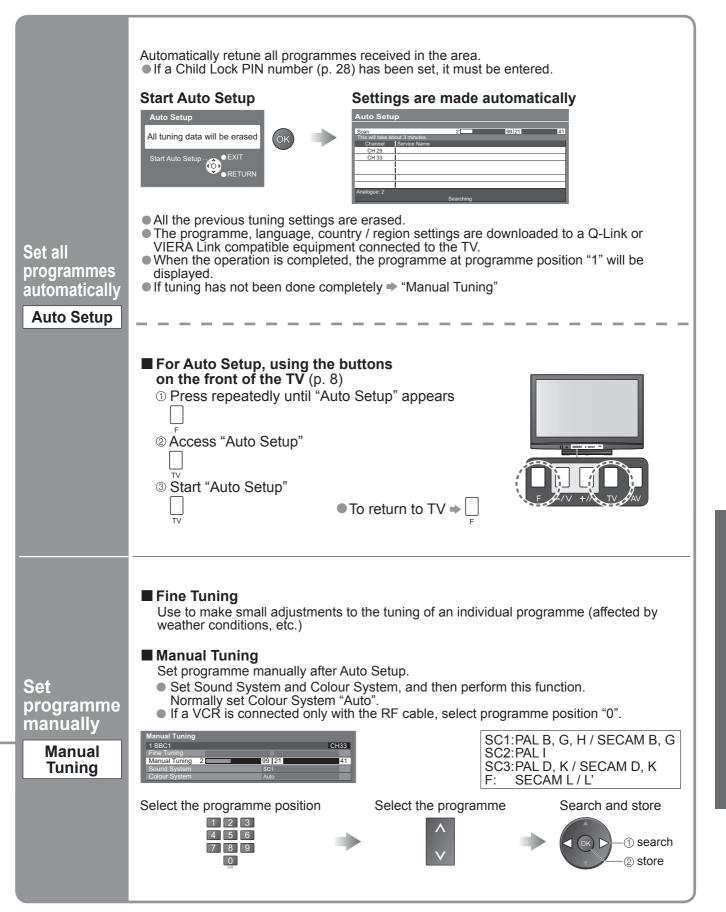




Tuning Programmes

You can retune all the TV programmes when moving house or search for new services which may have recently started broadcasting.

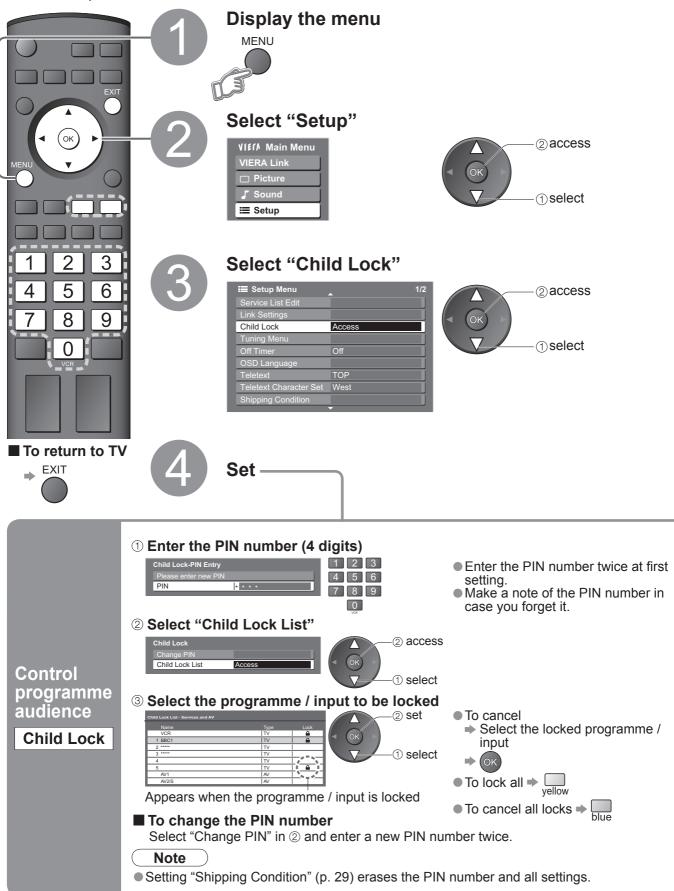




Tuning Programmes

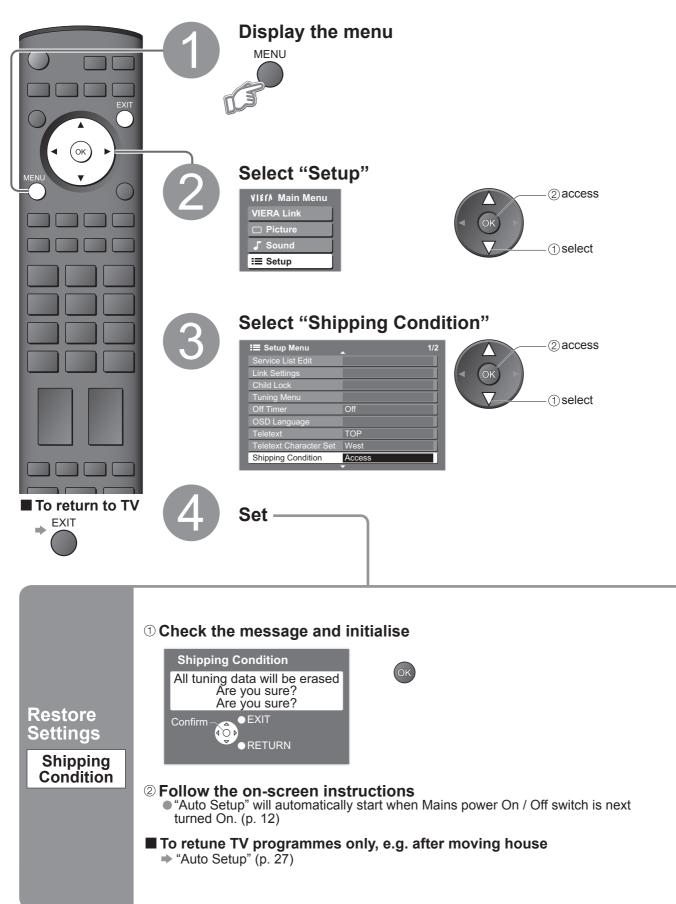
Control Programme Audience

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



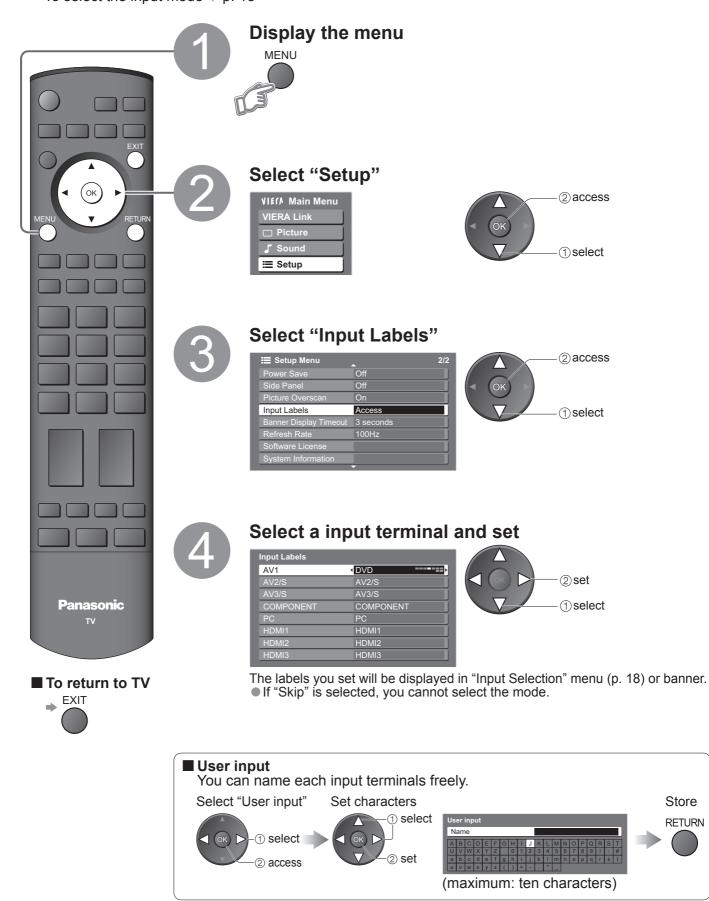
Restore Settings

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



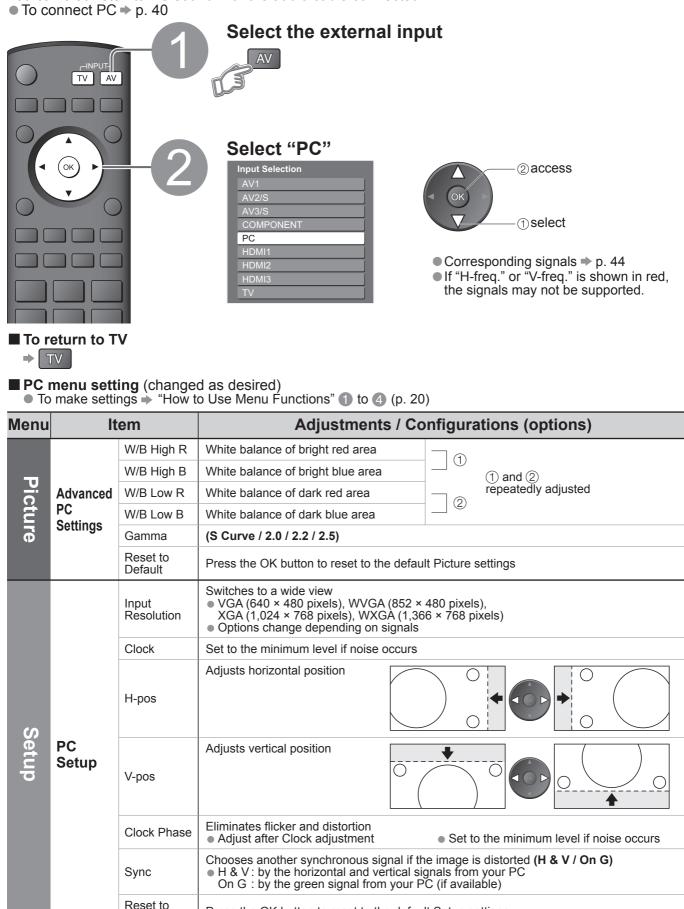
Input Labels

For easier identification and selection of the input mode, you can label each input terminals or skip terminal that is not connected to any equipment. ● To select the input mode → p. 18



Displaying PC Screen on TV

The screen of the PC connected to the TV can be displayed on the TV. You can also listen to PC sound with the audio cable connected. • To connect PC \Rightarrow p. 40



Press the OK button to reset to the default Setup settings

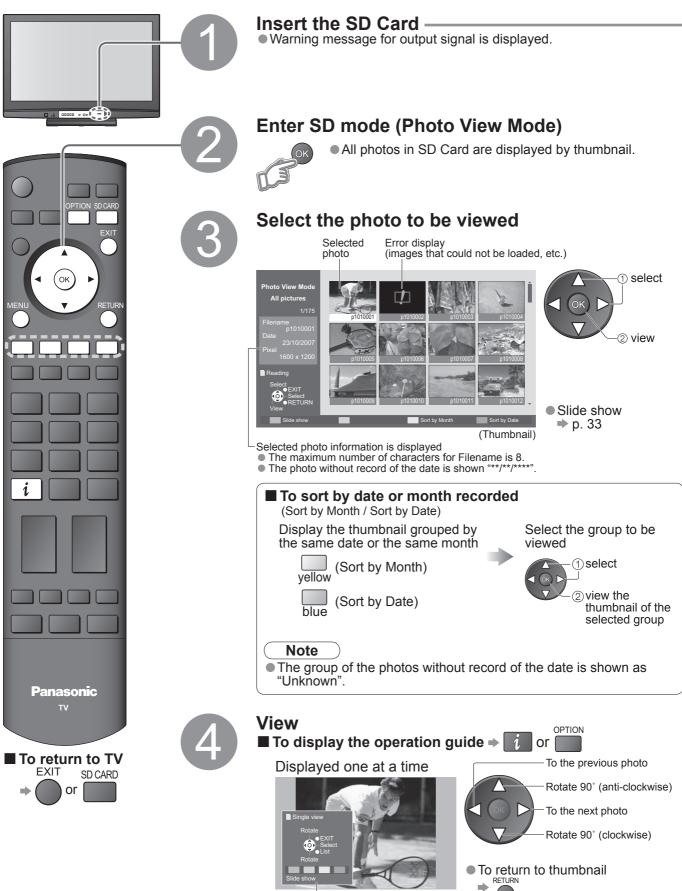
Default

Displaying PC Screen on TV Input Labels

Advanced

Viewing from SD Card

Still images recorded by digital cameras will be displayed.

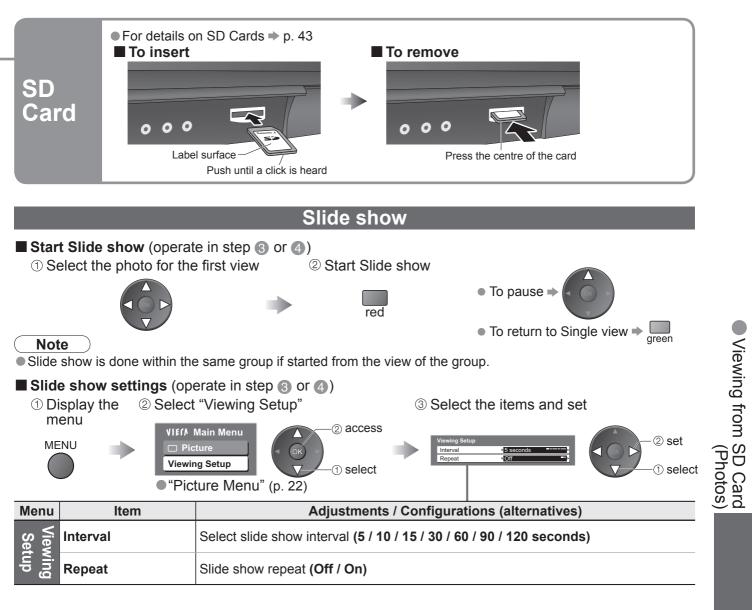


Operation guide

Caution

• During the operation, no signals are output from the monitor output terminals.

(Photos)



Cautions in handling SD Card

• Do not remove the card while the TV is accessing data (this can damage card or TV).

• Do not touch the pins on the back of the card.

Do not subject the card to a high pressure or impact.

- Insert the card in the correct direction (otherwise, card may be damaged).
- Electrical interference, static electricity, or erroneous operation may damage the data or card.
 Back up the recorded data at regular intervals in case of deteriorated or damaged data or erratic operation of the TV. (Panasonic is not liable for any deterioration or damage of recorded data.)

On screen messages

Message	Meaning / Action
Cannot read file	 The file is broken or unreadable. The TV does not support the format. (For the applicable formats and data, see p. 43.)
Is SD Card in?	● Insert a SD Card.
No valid file to play	• The card has no data.
Over 9999 pictures found	Maximum valid number of photos is 9,999.

Link Functions (Q-Link VIERA Link)

Q-Link connects the TV and DVD Recorder / VCR, and enables easy recording, playback, etc. (p. 35) VIERA Link (HDAVI Control[™]) connects the TV and the equipment with VIERA Link function, and enables easy control, convenient recording, playback, etc. (p. 36 - 39) You can use Q-Link and VIERA Link functions together.

Summary of Q-Link and VIERA Link functions

Connection Features	Q-Link (SCART connection)	VIERA Link (HDMI connection only)	VIERA Link (SCART and HDMI connection)
Preset download	0	0	0
Easy playback	0	0	0
Power on link	0	0	0
Power off link	0	0	0
Speaker control	-	0	0
Control the menu of the connected equipment by VIERA remote control	-	O*	O*
Direct TV Recording	0	-	O**
Pause Live TV programme	-	-	O**

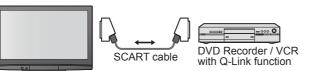
* :Available with the equipment which has "HDAVI Control 2" or "HDAVI Control 3" function.

** :Available with the equipment which has "HDAVI Control 3" function.

Connections

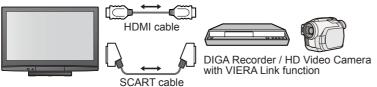
Read the manual of the equipment, too.

Q-Link



 Connect the DVD Recorder / VCR supporting Q-Link to the TV's AV1 or AV2 terminal via a fully wired SCART cable.

VIERA Link



 SCART cable Use fully wired SCART cable.

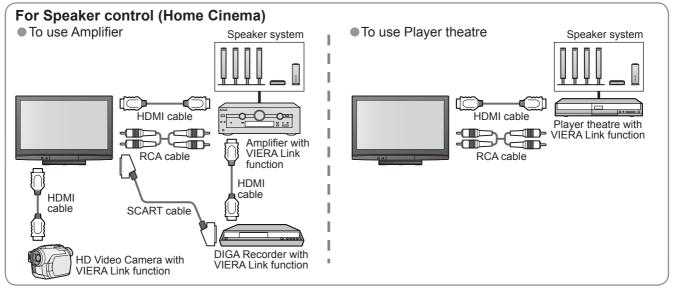
 HDMI cable
 Use fully wired HDMI compliant cable.
 Non-HDMI-compliant cables cannot be utilized.

Recommended Panasonic's HDMI cable part number:

- RP-CDHG10 (1.0 m)
- RP-CDHG15 (1.5 m)
- RP-CDHG20 (2.0 m)
- RP-CDHG30 (3.0 m)
- RP-CDHG50 (5.0 m)

 Connect the equipment supporting VIERA Link to the TV's AV1, AV2, HDMI1, HDMI2 or HDMI3 terminals via fully wired SCART and HDMI cables together.

 Some functions are available only with HDMI cable connection. But use both HDMI and SCART cables to support many features normally.



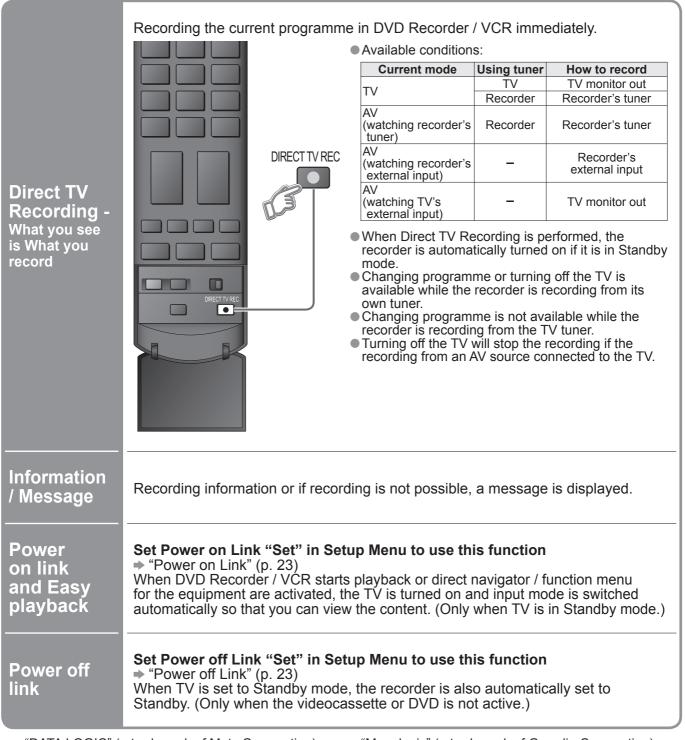
Q-Link

Preparations

- Connect the DVD Recorder / VCR with the following logos:
- "Q-Link", "NEXTVIEWLINK", "DATA LOGIC", "Easy Link", "Megalogic" or "SMARTLINK" ■ Q-Link connection → p. 34
- Set up the DVD Recorder / VCR. Read the manual of the equipment.
- Q-Link terminal setup in Setup Menu → "Q-Link" (p. 23), "AV1 / AV2 out" (p. 23)
- Download preset programme, language, country / region setting (Preset download)
 "Download" (p. 23) or "Auto Setup" (p. 27) or "Auto Setup" when first using the TV (p. 12)

Features available

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



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

Link Functions (Q-Link VIERA Link

VIERA Link "HDAVI Control™"∗

*Enjoy additional HDMI Inter-Operability with Panasonic products which have "HDAVI Control" function. This TV supports "HDAVI Control 3" 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.

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

- Some functions are not available depending on the equipment's version of HDAVI Control. Please confirm the connected equipment's version of HDAVI Control.
- VIERA Link "HDAVI Control", based on the control functions provided by HDMI which is an industry standard known as HDMI CEC (Consumer Electronics Control), is a unique function that we have developed and added. As such, its operation with other manufacturers' equipment that supports HDMI CEC cannot be guaranteed.

Please refer to individual manuals for other manufacturers' equipment supporting VIERA Link function. About applicable Panasonic equipment, consult your local Panasonic dealer or refer to the URL: www.panasonic.co.uk

Preparations

- Connect the equipment supporting VIERA Link.
- VIERA Link connection
 p. 34
- Set up the connected equipment. Read the manual of the equipment.
- For optimal recording, the settings of the recorder might be required. For details, read the manual of the recorder.
- Download preset programme, language, country / region setting (Preset download)

 "Download" (p. 23) or "Auto Setup" (p. 27) or "Auto Setup" when first using the TV (p. 12)

 Set VIERA Link On in Setup Menu → "VIERA Link" (p. 23)
- Set up the TV
 - After connection, turn the equipment on and then switch the TV on. Select the input mode to HDMI1, HDMI2 or HDMI3 (p. 18), and make sure that an image is displayed correctly.

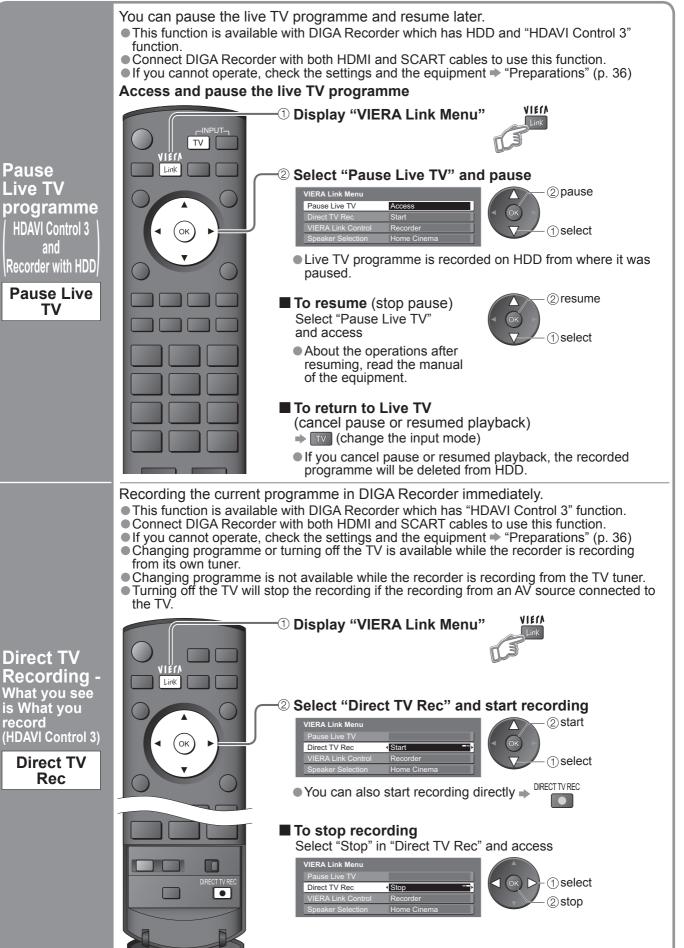
This setup should be done each time when the following conditions occur:

for the first time

- · when adding or reconnecting equipment
- when changing setup

Features available

Easy playback	Automatic Input switching - When the connected equipment is operated, input mode is switched automatically. When it is stopped operating, input mode is returned.
Power on link	Set Power on Link "Set" in Setup Menu to use this function → "Power on Link" (p. 23) When the connected equipment starts playback or direct navigator / function menu for the equipment are activated, the TV is automatically turned on. (Only when TV is in Standby mode.)
Power off link	 Set Power off Link "Set" in Setup Menu to use this function "Power off Link" (p. 23) When TV is set to Standby mode, the connected equipment is also automatically set to Standby. This function will work even if the TV enters standby mode automatically by Off Timer function or auto power standby function.

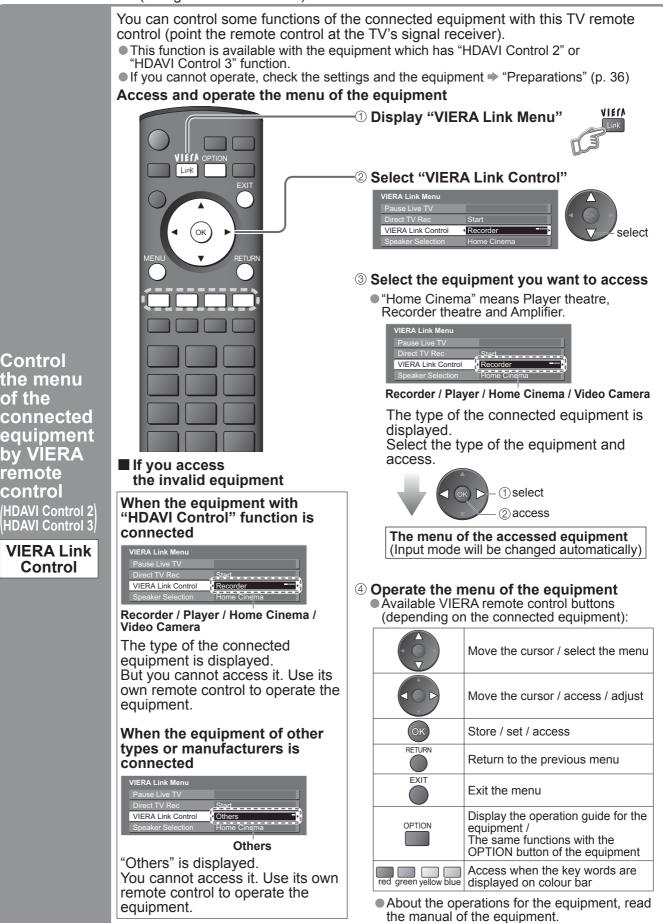


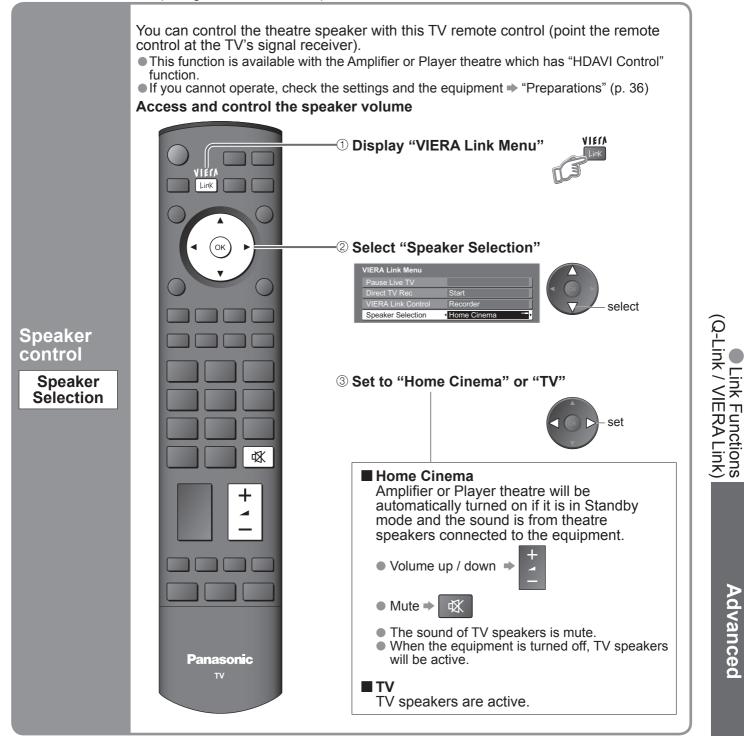
Link Functions (Q-Link / VIERA Link)

Advanced

Link Functions (Q-Link VIERA Link)

Features available (Using VIERA Link Menu)





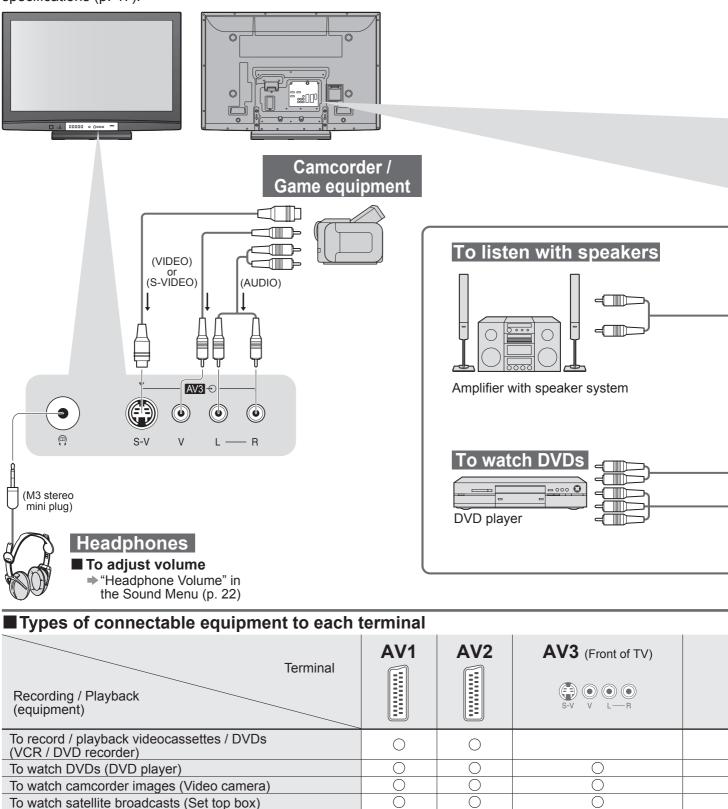
Note

- This function may not work properly depending on the connected equipment.
- Image or sound may not be available for the first few seconds when the playback starts.
- Image or sound may not be available for the first few seconds when Input mode is switched.
- Volume function will be displayed when adjusting the volume of the equipment.
- Easy playback is also available by using the remote control for Amplifier or Player theatre. Read the manual of the equipment.
- About HDMI cable for connecting Panasonic HD Video Camera, read the manual of the equipment.
- If more than one equipment of the same type are connected to the TV by HDMI cables, for example two DIGA Recorders to HDMI1 and HDMI2, VIERA Link will only be available for the lower terminal number, in this case HDMI1.
- "HDAVI Control 3" is the newest standard (current as of December, 2007) for HDAVI Control compatible equipment. This standard is compatible with conventional HDAVI equipment.

Advanced

External Equipment

These diagrams show our recommendations for how to connect the TV to your various equipment. For other connections, consult the instructions for each piece of equipment, the table below, and the specifications (p. 47).



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(with HDMI) (with HDMI)

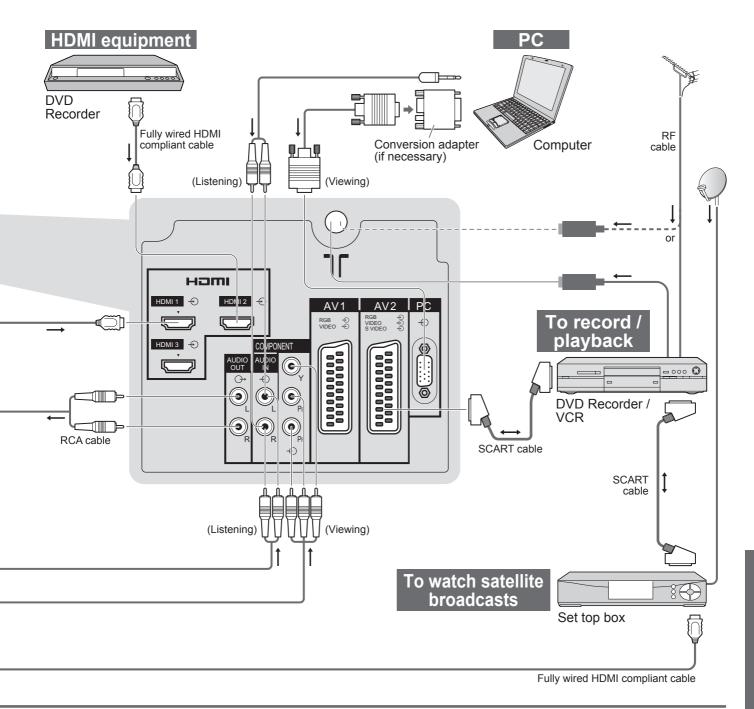
 \bigcirc

Q-Link

VIERA Link

To play games (Game equipment)

To use amplifier with speaker system



COMPONENT () () () () () () () () () ()	AUDIO OUT			
	R	1	2	3
0		0	0	0
		0	0	0
		0	0	0
	0			
		0	0	0
		0	0	0

Technical Information

Auto Aspect

The optimum size and aspect can be chosen, and you can enjoy finer images. (p. 15)

Auto

Auto aspect determines the best aspect ratio to use to fill your screen. It does this using a four step process to determine if the picture being viewed is a widescreen picture.

If Auto aspect detects a widescreen signal it switches into the appropriate 16:9 or 14:9 widescreen mode. If Auto aspect does not detect a widescreen signal then this advanced TV enhances the picture for optimum viewing pleasure.

The text shown on the screen indicates how Auto aspect determined which ratio to use:

"WIDE" appears in the top left of the screen if a widescreen identification signal (WSS) is found or a signal found through a SCART or HDMI terminal. Auto aspect switches to the appropriate 16:9 or 14:9 widescreen ratio. This function will also work in any aspect mode. "Auto" appears in the top left of the screen if black stripes above and below the picture are detected. Auto aspect chooses the best ratio and expands the picture to fill the screen. This process can take several minutes, depending on the darkness of the picture.

		Aspect Control Signal									
		Widescreen signal (WSS) Control signal through			n SCART (pin 8) or HDMI terminal						
S	Signal name	TV	AV1	AV2	AV3	COMPONENT	AV1	AV2	HDMI1	HDMI2	HDMI3
P	AL	0	0	0	0	\searrow	0	0			
P	AL 525/60	-	-	-	-		0	0			
N	I.NTSC	-	-	-	-		0	0			
Ν	TSC (AV input only)	-	-	-	-		0	0			
	525(480)/60i		_			_	\sim		0	0	0
SD	525(480)/60p					_			0	0	0
	625(576)/50i					0			0	0	0
	625(576)/50p					0			0	0	0
	750(720)/50p					-	\land		0	0	0
	750(720)/60p					—			0	0	0
	1125(1080)/50i		\sim			_			0	0	0
H	1125(1080)/60i				-			0	0	0	
ľ	1125(1080)/50p					_			0	0	0
	1125(1080)/60p					_			0	0	0
	1125(1080)/24p				\sim	_			0	0	0

Note

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

HDMI connection

HDMI (high-definition multimedia interface) allows you to enjoy high-definition digital images and high-quality sound by connecting the TV and the equipment.

HDMI-compatible equipment (*1) with an HDMI or DVI output terminal, such as a set top box or a DVD player, can be connected to the HDMI terminal using an HDMI compliant (fully wired) cable. About connections, see "External Equipment" (p. 40).

Note

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI1 terminal via a DVI to HDMI adapter cable (*2)
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal (HDMI1: use COMPONENT-AUDIO terminals).
- Audio settings can be made on the "HDMI1 Input" menu screen. (p. 22)
- Applicable audio signal sampling frequencies (2ch L.PCM): 48 kHz, 44.1 kHz, 32 kHz
- HDMI2 and HDMI3 terminals are for digital audio signal only.
- Use with a PC is not assumed.
- If the connected equipment has an aspect adjustment function, set the aspect ratio to "16:9".
- These HDMI connectors are "type A"
- These HDMI connectors are compatible with HDCP (High-Bandwidth Digital Content Protection) copyright protection.
- An equipment having no digital output terminal may be connected to the input terminal of either "COMPONENT", "S-VIDEO", or "VIDEO" to receive analogue signals.
 The HDMI input terminal can be used with only the following image signals:
- 480i, 480p, 576i, 576p, 720p, 1080i and 1080p. Match the output setting of the digital equipment.
- For details of the applicable HDMI signals, see p. 44.
- (*1): The HDMI logo is displayed on HDMI-compliant equipment.
- (*2): Enquire at your local digital equipment retailer shop.

Data format for Card browsing

Photo

: Still images recorded with digital still cameras compatible with JPEG files of DCF* and EXIF standards

Data format : Baseline JPEG (Sub-sampling 4:4:4, 4:2:2 or 4:2:0)

Max. number of files : 9,999

- Image resolution : 160 × 120 to 10,000,000
- Compliant card type (maximum capacity): SDHC Card (16 GB), SD Card (2 GB), Multi Media Card (128 MB), miniSD Card (1 GB) (requiring miniSD adapter)
- If miniSD Card is used, insert / remove it together with the adapter.
- Check the latest information on the card type at the following website. (English only)
 - http://panasonic.co.jp/pavc/global/cs/

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

Note

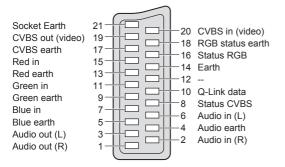
- A JPEG image modified with a PC may not be displayed.
- Images imported from a PC must be compatible with EXIF (Exchangeable Image File) 2.0, 2.1, and 2.2.
- Partly degraded files might be displayed at a reduced resolution.
- Only ".JPG" extension can be read by this TV.
- The folder and file names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

SCART, S-VIDEO and HDMI terminal information

AV1 SCART terminal

■ AV2 SCART terminal

(RGB, VIDEO, Q-Link) Suitable inputs for AV1 include RGB (Red / Green / Blue).

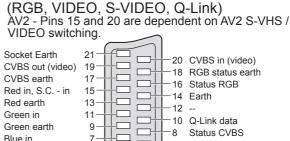


AV3 S-VIDEO 4 pin terminal

Chrominance earth -

Chrominance in

Luminance in





-4 Audio earth

HDMI terminal

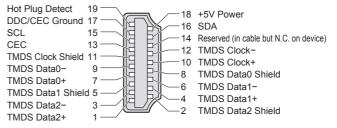
5

3

Blue earth

Audio out (L)

Audio out (R)



FAQs, etc.

Technical Information

PC connection

A PC may be connected to this TV so that the PC screen is displayed and sound is heard from the TV. PC signals that can be inputted: Horizontal scanning frequency 31 to 69 kHz; vertical scanning frequency 59 to 86 Hz (more than 1,024 signal lines could result in incorrect display of the image).

A PC adapter is not necessary for the DOS/V-compliant D-sub 15-pin connector.

Note

Some PC models cannot be connected to this TV.

• When using PC, set the colour display quality of PC to the highest position.

• For details of the applicable PC signals, see below.

Max. display resolution

Model No. Aspect	TH-37PV80EY	TH-42PV80EY		
4:3	768 × 720 pixels	768 × 768 pixels		
16:9	1,024 × 720 pixels	1,024 × 768 pixels		

D-sub 15-pin connector signal

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

Input signal that can be displayed

COMPONENT (Y, PB, PR), HDMI

* Mark: Applicable input signal

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

PC (D-sub 15P)

Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)
640 × 400 @70 Hz	31.47	70.07
640 × 480 @60 Hz	31.47	59.94
_640 × 480 @75 Hz	37.50	75.00
800 × 600 @60 Hz	37.88	60.32
800 × 600 @75 Hz	46.88	75.00
800 × 600 @85 Hz	53.67	85.06
852 × 480 @60 Hz	31.44	59.89
1,024 × 768 @60 Hz	48.36	60.00
1,024 × 768 @70 Hz	56.48	70.07
1,024 × 768 @75 Hz	60.02	75.03
<u>1,024 × 768 @85 Hz</u>	68.68	85.00
1,280 × 1,024 @60 Hz	63.98	60.02
1,366 × 768 @60 Hz	48.39	60.04
Macintosh13" (640 × 480)	35.00	66.67
Macintosh16" (832 × 624)	49.73	74.55
Macintosh21" (1,152 × 870)	68.68	75.06

Note

Signals other than above may not be displayed properly.

The above signals are reformatted for optimal viewing on your display.
 Applicable input signal for PC is basically compatible to VESA standard timing.

PC signal is magnified or compressed for display, so that it may not be possible to show fine detail with sufficient clarity.

FAQs

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

White spots or shadow images (noise)



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

Neither image nor sound is produced

- Is the TV in "AV mode"?
- Is the mains lead plugged into the socket outlet?
- Is the TV turned On?
- Check Picture Menu (p. 22) and volume.
 Check all required SCART cables and
- connections are firmly in place.

Auto aspect

Auto aspect is designed to provide you with the best aspect ratio to use to fill your screen. For user control please see p. 42.

S-Video / black and white picture

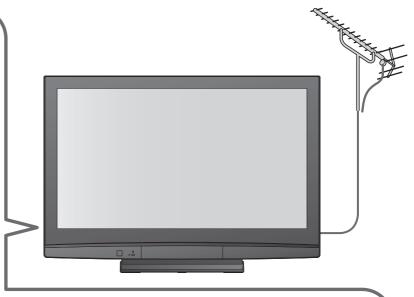
 Using AV button please confirm your selection is S-Video I.e. AV2/S (p. 18).

On Screen messages - I.e. EC/AV1

You can simply clear these Press again to redisplay.

An error message appears

Follow the message's instructions. If the problem persists, contact the authorized Service Centre.



Q-Link function does not work

Please confirm SCART cable and connection. Also please set "AV1 / AV2 out" in the Setup Menu (p. 23).

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

Confirm the connection.

 Turn the connected equipment on and then switch the TV on. (p. 36)

Recording does not start immediately

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

Permanently lit spots on screen

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

Contrast is reduced

 Contrast is lowered in the following conditions without any user operation for a few minutes:

- no signal in AV mode
- selected locked programme
- selected invalid programme
- displayed menu
- Thumbnail or still picture in SD Card mode

FAQs, etc

FAQs

	Problem	Actions
Screen	Chaotic image, noisy	 Set "P-NR" in the Picture Menu (to remove noise). (p. 22) Check nearby electrical products (car, motorcycle, fluorescent lamp).
	No image can be displayed	 Is "Colour" or "Contrast" in the Picture Menu set to the minimum? (p. 22) Check Colour System. (p. 27)
	Blurry or distorted image (no sound or low volume)	● Reset programme. (p. 27)
	Unusual image is displayed	 Turn off the TV with Mains power On / Off switch, then turn it On again.
Sound	No sound is produced	 Is "Sound mute" active? (p. 9) Is the volume set to the minimum?
	Sound level is low or sound is distorted	 Sound signal reception may be deteriorated. Set "MPX" (p. 22) in the Sound Menu to "Mono".
HDMI	Sound is unusual	 Set the sound setting of the connected equipment to "2ch L.PCM". Check the "HDMI1 Input" setting in the Sound Menu. (p. 22) If digital sound connection has a problem, select analogue sound connection. (p. 42)
IM	Pictures from external equipment are unusual when the equipment is connected via HDMI	 Is the HDMI cable connected properly? (p. 40) Turn Off the TV and equipment, then turn them On again. Check an input signal from the equipment. (p. 44) Use an equipment compliant with EIA/CEA-861/861B.
Other	TV goes into "Standby mode"	 Off Timer function is activated. The TV enters "Standby mode" about 30 mins. after broadcasting ends.
	The remote control does not work	 Are the batteries installed correctly? (p. 6) Has the TV been switched On?

Specifications

			TH-37PV80EY		TH-42PV80EY			
Power Source			AC 220-240 V, 50 / 60 Hz					
Power Consumption	Average use		235 W		255 W			
Standby condition			0.7 W					
pa Di	Aspect Ratio)	16:9					
Display panel	Visible scree	en size	94 cm (diagonal) 819 mm (W) × 457 mm (H)		106 cm (diagonal) 922 mm (W) × 518 mm (H)			
	Number of p	ixels	737,280 (1,024 (W) × 720 (H)) [3,072 × 720 dots]		786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots]			
Sound	Speaker		160 mm × 42 mm × 2 pcs, 8 Ω					
und	Audio Outpu		20 W (10 W + 10 W), 10% THD					
	Headphones		M3 (3.5 mm) stereo mini Jack ×	1				
PC s	signals		VGA, SVGA, XGA SXGA (compressed) Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz					
	Receiving Systems / Band name		PAL I UHF E21-68 / VHF Ireland channel PAL 525/60 Playback of NTSC tape from some PAL Video recorders (VCR) or NTSC disc playback from DVD player and recorder. M.NTSC Playback from M. NTSC Video recorders (VCR). NTSC (AV input only) Playback from NTSC Video recorders (VCR).					
Aeri	al - Rear		VHF / UHF					
Оре	rating Condit	ions	Temperature: 0 °C - 35 °CHumidity: 20 % - 80 % RH (non-condensing)					
C	AV1 (Scart te	erminal)	21 Pin terminal (Audio/Video in, Audio/Video out, RGB in, Q-Link)					
nno	AV2 (Scart te	erminal)	21 Pin terminal (Audio/Video in, Audio/Video out, RGB in, S-Video in, Q-Link)					
lec		VIDEO	RCA PIN Type × 1	1.0 V[p-p] (7	75 Ω)			
lior	AV3	S-VIDEO	Mini DIN 4-pin	Y:1.0 V[p-p]	(75 Ω) C:0.286 V[p-p] (75 Ω)			
		AUDIO L - R	RCA PIN Type × 2	0.5 V[rms]				
Connection Terminals	COMPONENT	VIDEO	Ү Рв, Рк	1.0 V[p-p] (ir ±0.35 V[p-p]	ncluding synchronization)			
als			RCA PIN Type × 2	0.5 V[rms]				
		HDMI1 / 2 / 3	TYPE A Connectors		upports "HDAVI Control 3" function.			
	Others	PC	HIGH-DENSITY D-SUB 15PIN	R,G,B/0.7 V HD, VD/TTL	[p-p] (75 Ω) Level 2.0 - 5.0 V[p-p] (high impedance)			
		Card slot	SD Card slot × 1					
Output AUDIO L - R		AUDIO L - R	RCA PIN Type × 2	`	nigh impedance)			
Dim	ensions(W ×	H×D)	917 mm × 665 mm × 327 mm (With Pedestal) 1,020 mm × 727 mm × 327 mm (" 917 mm × 617 mm × 95 mm (TV only) 1,020 mm × 679 mm × 95 mm (T		1,020 mm × 679 mm × 95 mm (TV only)			
Mas	Mass		24.5 kg Net (With Pedestal)28.0 kg Net (With Pedestal)22.5 kg Net (TV only)26.0 kg Net (TV only)					

Note

Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.
 This equipment complies with the EMC standards listed below. EN55013, EN61000-3-2, EN61000-3-3, EN55020, EN55022, EN55024.

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



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

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

Disposing of this product correctly will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate

waste handling. Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

For business users in the European Union

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

Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union.

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

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Customer Care Centre

- For customers within the UK : 0844 844 3852
- For customers within the Republic of Ireland: 01 289 8333
- Visit our website for product information www.panasonic.co.uk
- E-mail: customer.care@panasonic.co.uk

Direct Sales at Panasonic UK

- · Order accessory and consumable items for your product with ease and confidence by phoning our Customer Care 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.panasonic.co.uk.
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- All enquiries transactions and distribution facilities are provided directly by Panasonic UK Ltd.
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Please call 0870 240 6284 or visit www.panasonic.co.uk/guarantee.

Customer's Record

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

Model Number

Serial Number

Panasonic (U. K.) Ltd.

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