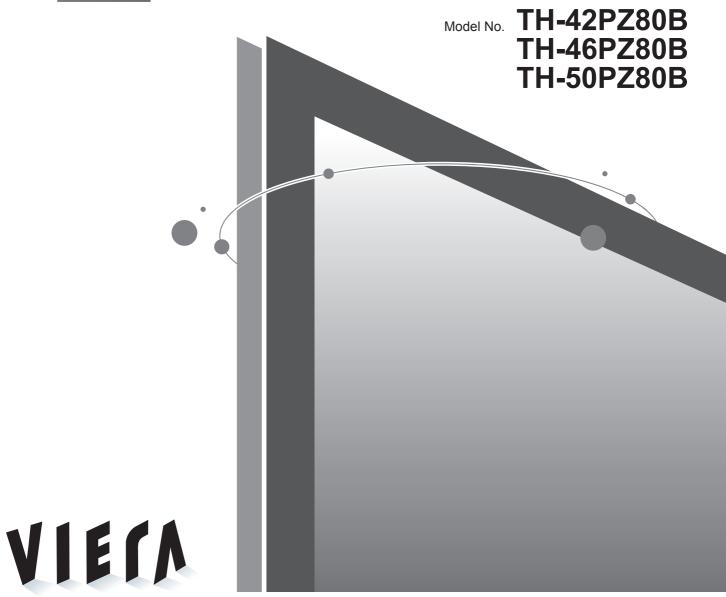


Panasonic[®]

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.

U.K. Standard

English



Turn your living room into a home theatre!

Experience an amazing level of multi-media excitement

■ Receives digital terrestrial broadcastings using an integrated DVB (Digital Video Broadcasting) tuner

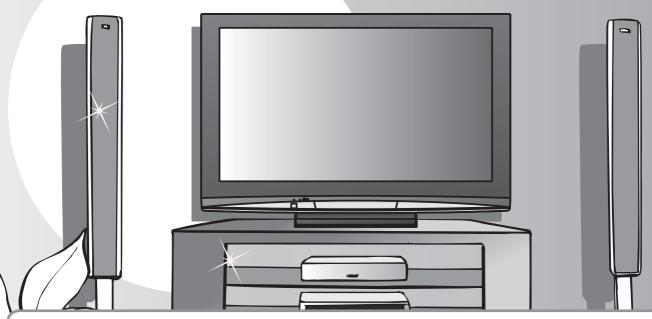
Display DVB programmes with TV Guide (p. 20) / Timer Programming (p. 40) / Register and instantly call up favourite programmes with Profile Edit (p. 32)

■ Sharp pictures with HDMI connection

Enjoy high-definition digital picture and high-quality sound by using an HDMI cable (p. 52) ● This TV incorporates HDMI[™] (Version 1.3 with x.v.Color[™]) technology.

- Links up and controls the connected equipment with "Q-Link" and "VIERA Link" Easy recording and playback, create home theatre without complicated settings, etc. (p. 44)
- Supports Audio Description signal (p. 15 and p. 26)

 This function can add an additional audio track to describe events on-screen and aids understanding and enjoyment, particularly for visually-impaired viewers.



Digital Switchover

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 programmes and some Digital TV programmes will be missing. You will need to retune your TV each time this happens to recover your digital programmes.

To retune your TV → "Auto Setup" in "Tuning Menu" (p. 35)

Cable or Satellite users should still retune the TV to continue to receive Freeview services via their aerial. (Your Analogue programme for viewing Cable or Satellite services will change to a new position.)

FULL 1920×1080_F

FULL HD

This TV uses a high definition panel to produce high definition pictures close to their original resolution.



100Hz Double Scan

100Hz Double Scan is a function of this TV that reduces large area flicker.



30,000:1 Native Contrast (1,000,000:1 Dynamic Contrast)

A wide contrast ratio will deliver pictures with a deep black level and a brighter white level for greater image depth.

x.v.Colour

x.v.Colour

"x.v.Colour" is a promotion name given to the products that have the capability to realize a wide colour space based on the xvYCC specifications.

"x.v.Colour" is a trademark.



24p Playback

Can support 1080p, 24 frames per second source materials.



0.001 msec Panel Response Time

Extremely fast response time to minimise picture lag.



V-Audio

hours.*

Utilises Panasonic's advanced Digital Amplification technology.



Lead-free display

All VIERA plasma display panels are lead-free. This reduces the impact on the environment when recycling or disposing of them in the future.



Up to 100,000 hours Plasma Panel Lifetime The Plasma display panel used in the 2008 VIERA TV range is rated for up to 100,000

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

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

Image retention and malfunctions are not taken into account.

Contents

Be	SII	re	to	R	ea.	C
	U U		LU	1 7	50	v.

Safety Precautions (Warning / Caution)	4
● Notes·····	5
Maintenance	5

Quick Start Guide

• Accessories / Options	6
Identifying Controls	9
Basic Connection	10
Auto Setup	12

Enjoy your TV!

Watching TV	14
Viewing Teletext ······	
Using TV Guide······	
Watching VCR, DVD and Satellites ····	
Watching VCK, DVD and Satellites	
Advanced Features	
Now to Use Menu Functions	24
(picture, sound quality, etc.)	
DVB Settings (DVB)	30
(pay-TV, software update)	
Editing Programmes	32
Tuning Programmes······	34
Restore Settings	36
Owner ID	37
Input Labels ······	
Displaying PC Screen on TV······	
Recording Controls	40
Viewing from SD Card (Photos)·······	42
Link Functions	44
(Q-Link / VIERA Link)	
External Equipment	50
FAQs, etc.	
1 / 140, 0101	

To abaical Information	F0
■ Technical Information ····································	52
● FAQs ·····	55
On screen messages ······	57
■ Glossary ······	58
● Index ·····	58
Licence	59
Specifications	59

Safety Precautions

Warning & Caution

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.

Power source

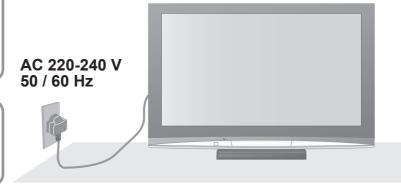
This TV is designed to operate on 220-240 V, 50 / 60 Hz AC.

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.



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 (TH-42PZ80B) / 10 amp (TH-46PZ80B, TH-50PZ80B) 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 (TH-42PZ80B) / 10 amps (TH-46PZ80B, TH-50PZ80B) 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.

Notes

Do not expose to rain or excessive moisture

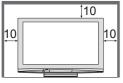
To prevent damage which might result in electric shock or fire, do not expose this TV to rain or excessive moisture. This TV must not be exposed to dripping or splashing water and objects filled with liquid, such as vases, must not be placed on top of or above the TV.

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.
- 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. 55)

■ Auto power standby function

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

■ Keep the TV away from these types of equipment

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

Maintenance

First, remove the mains plug from the socket outlet.

Display panel

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

Caution

 The surface of the display panel has been specially treated and may be easily damaged.
 Do not tap or scratch the surface with your fingernal or other has

Take care not to subject the surface to insect repellent, solvent.

Do not tap or scratch the surface with your fingernail or other hard object.

thinner, or other volatile substances (this may degrade surface quality).

Cabinet, Pedestal

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

Caution

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

Mains plug

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

Accessories / Options

Standard accessories Check that you have the accessories and items shown ☐ Remote Control ☐ Batteries for the ☐ Clamper (2) ☐ Mains Lead Remote Control (2) N2QAYB000239 TMME289 K2CT3DH00018 (TH-42PZ80B) ● R6 (UM3) ⇒ p. 8 ■ K2CT3DH00025 TH-46PZ80B TH-50PZ80B **⇒** p. 11 ☐ Operating Instructions ☐ Cleaning cloth □ Pedestal (ST-42R3-W2 / ST-50R3-W2) ☐ Pan European ■TXFPE01RLTB ■TBLX0043 (TH-42PZ80B) **Guarantee Card** ● TBLX0045 ☐ 1 Year Guarantee Registration /TH-46PZ80B ☐ CRM (Customer Relationship TH-50PZ80B TXFBL01RLTD Management)

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.

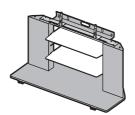
Optional accessories

Plasma TV stand

● TY-S42PZ80W (TH-42PZ80B)

TY-S46PZ80W (TH-46PZ80B)

TY-S50PZ80W (TH-50PZ80B)



Some items may not be available locally.

Wall-hanging bracket (vertical)

TY-WK42PV3W

TY-WK42PV4W



TY-WK42PR3W

TY-WK42PR4W





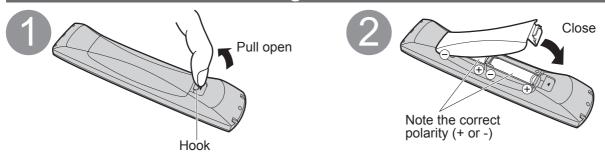
Caution

In order to maintain the unit's performance and safety, be absolutely sure to ask your dealer or a licenced contractor to secure the wall-hanging brackets.

 Carefully read the instructions accompanying the plasma TV stand or pedestal, and be absolutely sure to take steps to prevent the TV from tipping over.

 Handle the TV carefully during installation since subjecting it to impact or other forces may cause product damage.

Installing remote's batteries



Caution

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

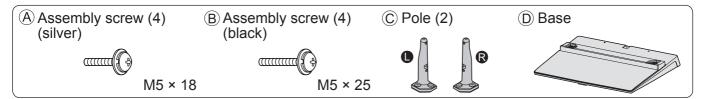
• If insufficient care is taken to ensure screws are properly tightened during assembly, the pedestal will not be strong enough to support the TV, and it might fall over and become damaged, and personal injury may result.

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.

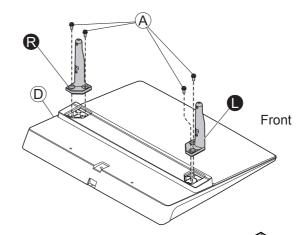
• If two or more people are not present, the TV may be dropped, and personal injury may result.



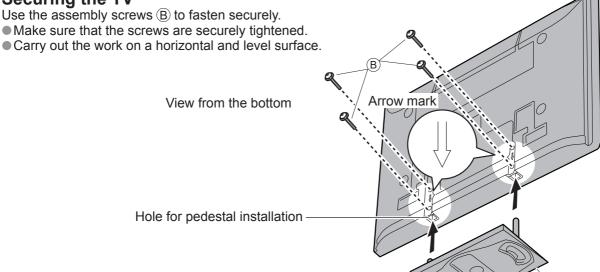
■ Assembling the pedestal

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.

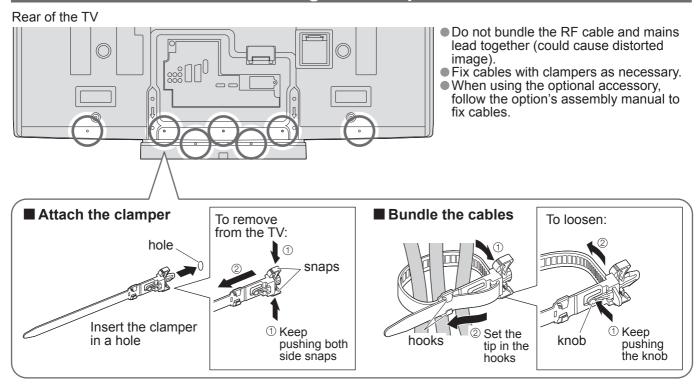


■ Securing the TV



Accessories / Options

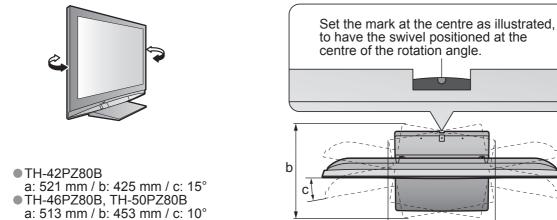
Using the clamper



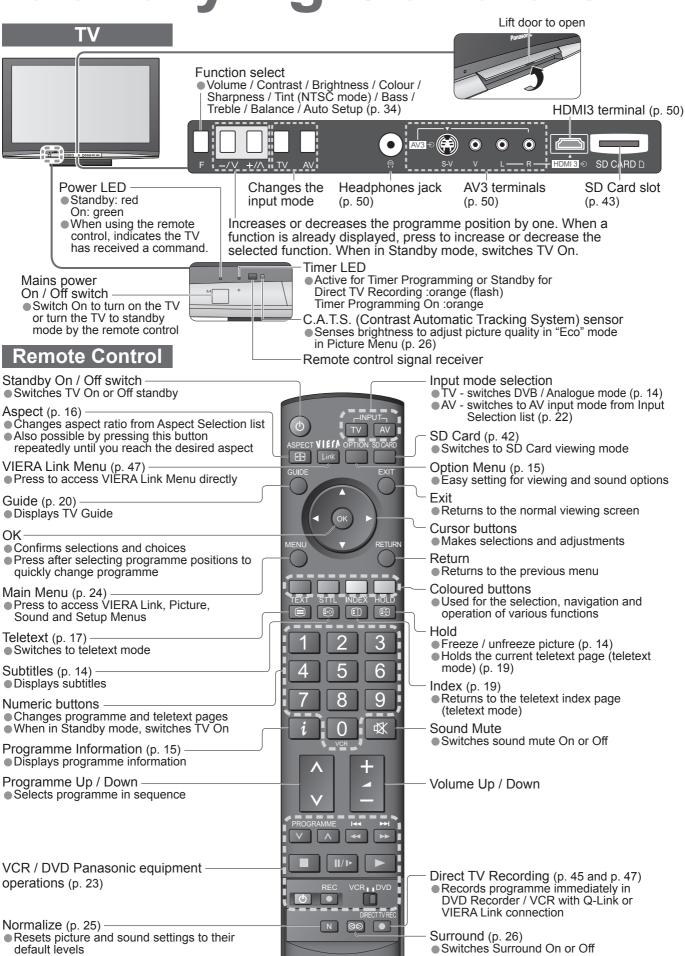
Adjust the panel to your desired angle

(View from the top)

- Ensure that the pedestal does not hang over the edge of the base even if the TV swivels to the full rotation range.
- Do not place any objects or hands within the full rotation range.



Identifying Controls



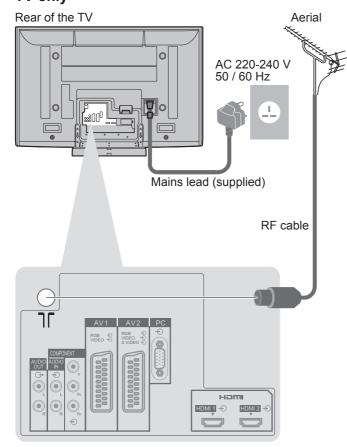
Basic Connection

External equipment and cables shown are not supplied with this TV.

Please ensure that the unit is disconnected from the mains socket before attaching or disconnecting any leads. When disconnecting the mains lead, be absolutely sure to disconnect the mains plug at the socket outlet first.

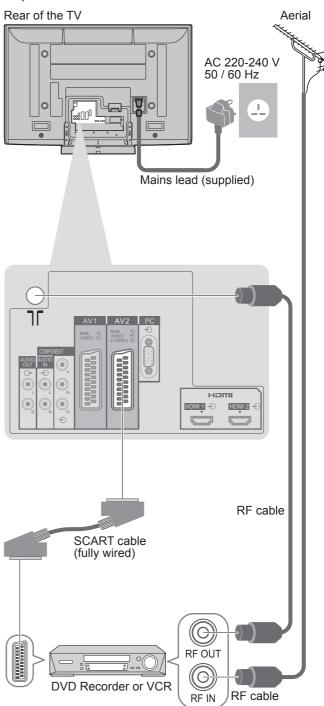
Example 1 Connecting aerial

TV only



Example 2 Connecting DVD Recorder / VCR

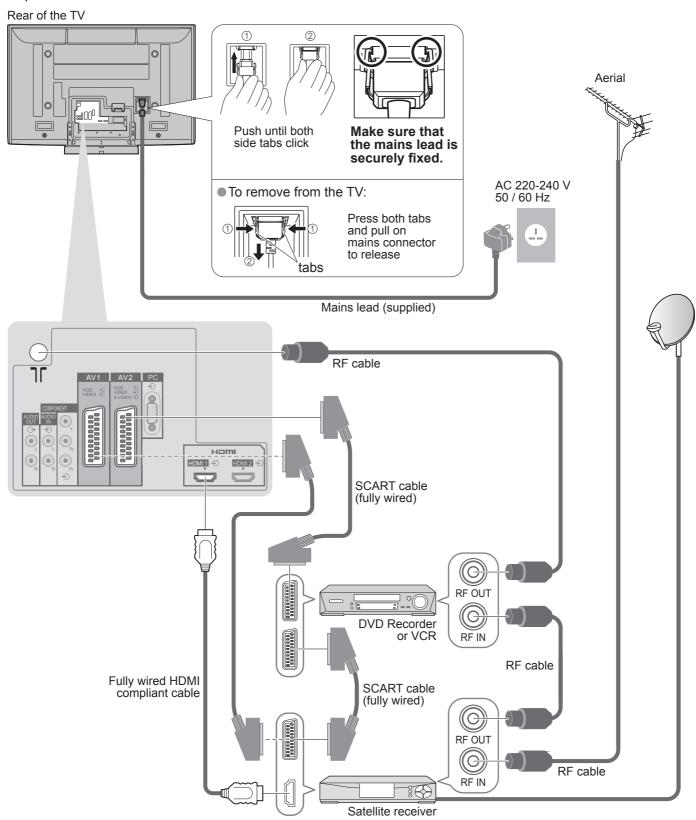
TV, DVD Recorder or VCR



- Connect to AV2 for a DVD Recorder / VCR supporting Q-Link (p. 45).
- Connect to AV1 for a Satellite receiver.
- For HDMI-compatible equipment, possible to connect to HDMI terminals (HDMI1 / HDMI2 / HDMI3) by using HDMI cable (p. 50).
- Q-Link connection ⇒ p. 44
- ■VIERA Link connection ⇒ p. 44
- Read the manual of the equipment too.

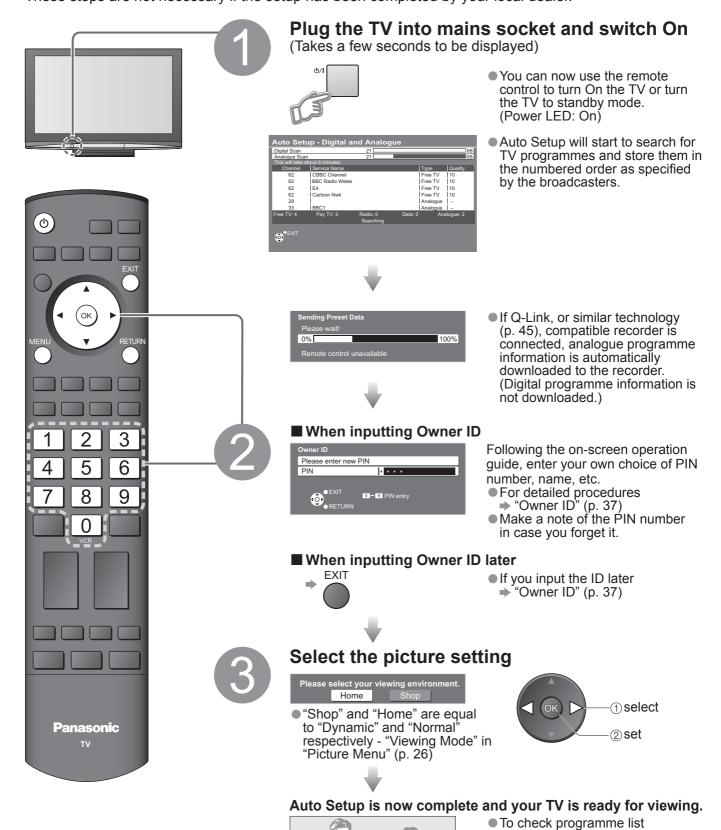
Example 3 Connecting DVD Recorder / VCR and Satellite receiver

TV, DVD Recorder / VCR and Satellite



Auto Setup

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



at-a-glance

To edit programmes

⇒ "Using TV Guide" (p. 20)

→ "Editing Programmes" (p. 32)

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

■ How to use remote control



Open the main menu



Move the cursor / select the menu



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



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

Using the On Screen **Displays**

RETURN



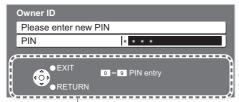
Return to the previous menu



Exit the menu system and return to the normal viewing screen

■ ON SCREEN HELP Instructions box

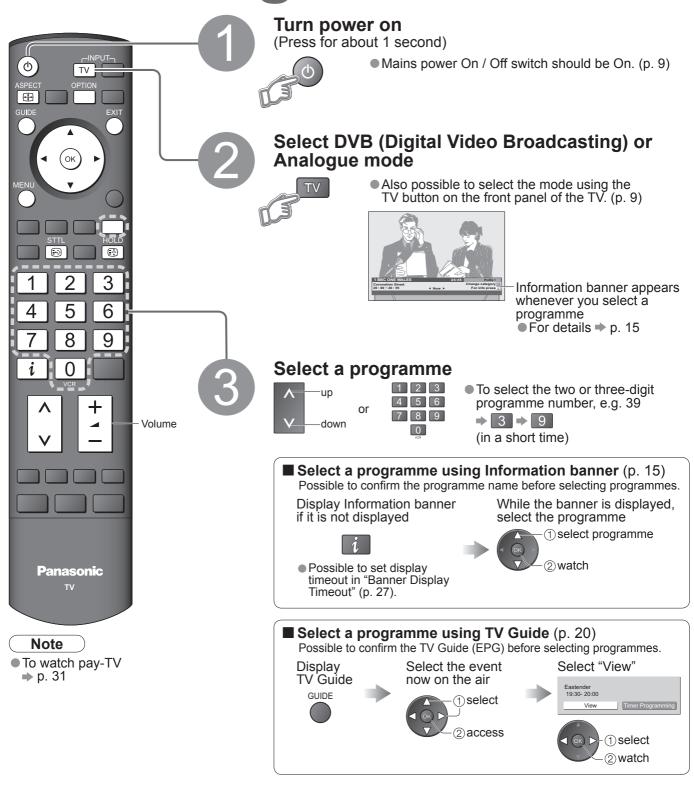
(example: Owner ID)



On-screen operation guide will help you.

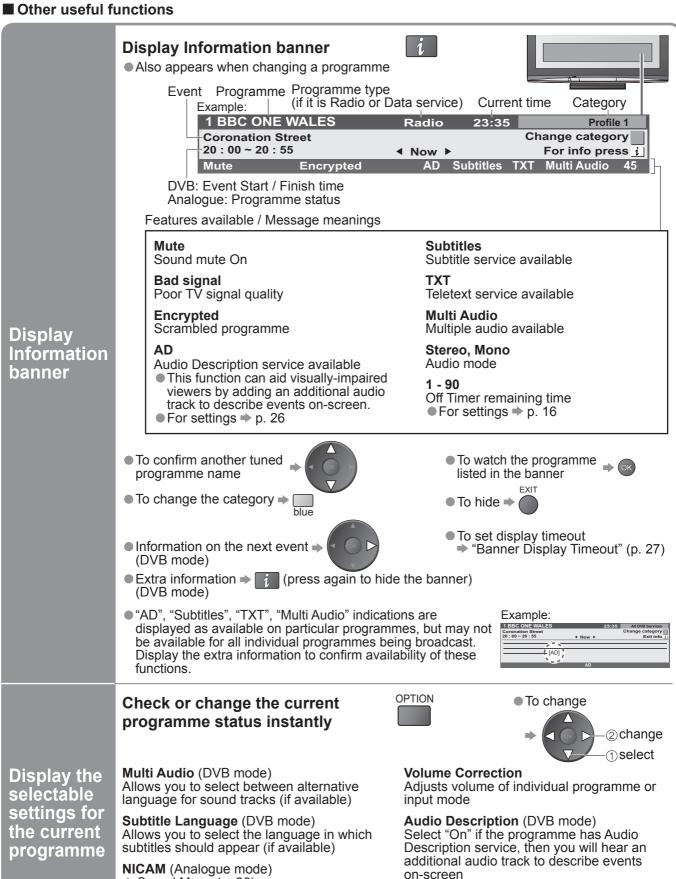
- If tuning has failed ⇒ "Auto Setup" (p. 35)
- If downloading has failed ⇒ "Q-Link Download" (p. 27)
- To initialize all settings ⇒ "Shipping Condition" (p. 36)
- If you turned the TV Off during Standby mode last time, the TV will be in Standby mode when you turn the TV On with Mains power On / Off switch.

Watching TV



■ Other useful functions

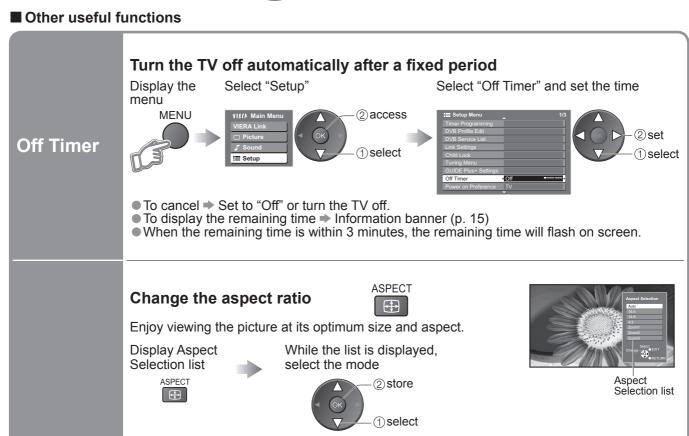
Hold	Freeze / unfreeze picture	HOLD
Display subtitles	Display / hide subtitles (if available) ■ To change the language for DVB (if available) ■ "Preferred Subtitles" (p. 27)	STTL



Also possible to change the settings in Menu list (p. 26 and p. 27).

Sound Menu (p. 26)

Watching TV



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

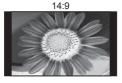


The best ratio is chosen and the picture expanded to fill the screen. For details ▶ p. 52



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

Change aspect ratio



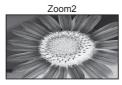
Displays the image at the standard "14:9" without distortion.



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



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



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



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

- Only "16:9" and "4:3" are available in PC mode.
- Not available when Subtitle is active in DVB mode.
- Not available in Analogue teletext mode.
- Aspect mode can be memorized separately for SD (Standard definition) and HD (High definition) signals.

Viewing Teletext

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

DVB mode

DVB teletext services

6

<u>Panasonic</u>

DVB teletext services differ greatly from analogue teletext. When you switch to a DVB teletext service, the images you see can contain graphics and text, laid out and controlled in a manner decided by the broadcaster.

You can check if the programme has teletext service.



Displayed if programme has teletext service



Switch to Teletext





How to use

In all cases, it is possible to navigate the pages using buttons on the remote control, but because the commands available must apply to all manufacturers of DVB equipment, some on screen commands may not correspond exactly to the remote control buttons.

banner

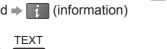
(p. 15)

For example:

- When "select" or "go" is displayed ⇒ ok
- When "◄", "▶", "▲", "▼" symbol is displayed ⇒



- When the key words are displayed on colour bar ⇒ 1 2 3
- When options with numbers are displayed → 4 5 6 7 8 9 0
- When "i" is displayed ⇒ (information)





- As soon as you switch to a DVB programme with links to a teletext service, software is downloaded in the background to enable the teletext function. This means that when switching to a DVB programme, 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, there will be a short delay before the text screen is displayed.
- While navigating DVB 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.

Viewing Teletext

Analogue mode

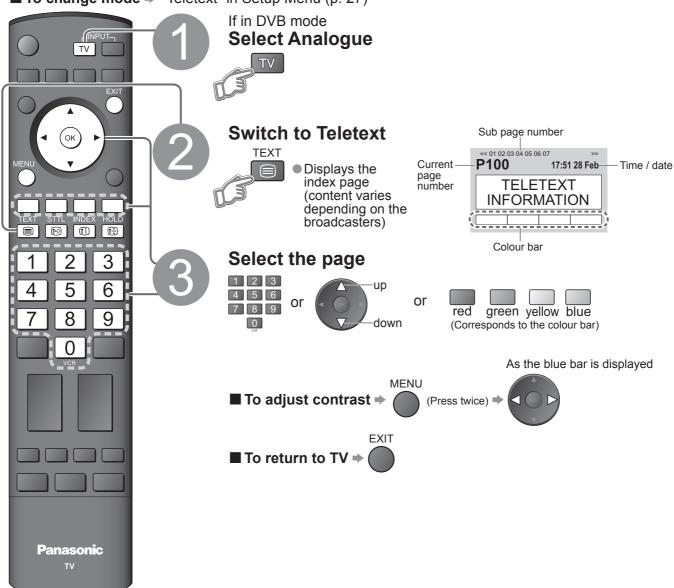
What is FASTEXT mode (default)?

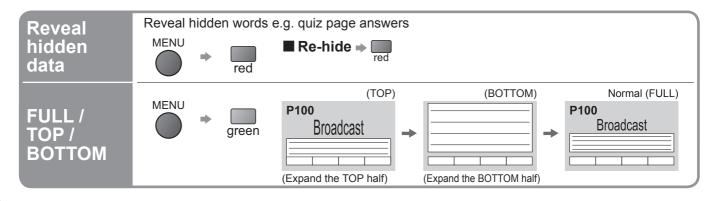
In FASTEXT mode, four differently coloured subjects are situated at the bottom of the screen. To access more information about one of these subjects, press the appropriately coloured button. This facility enables fast access to information on the subjects shown.

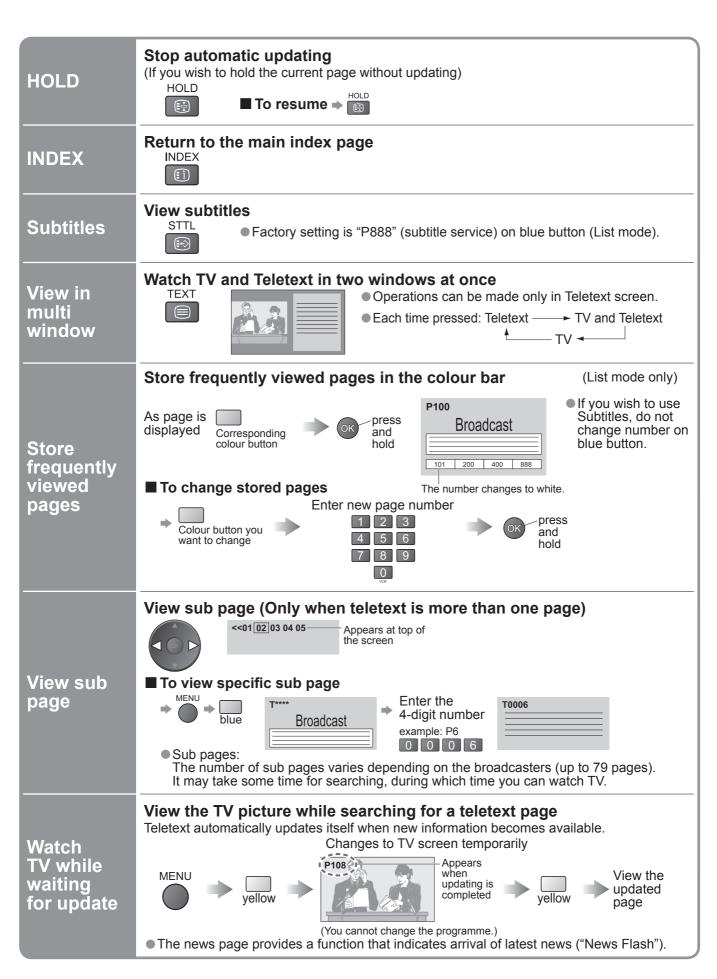
What is List mode?

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. 19)

■ To change mode → "Teletext" in Setup Menu (p. 27)







Using TV Guide

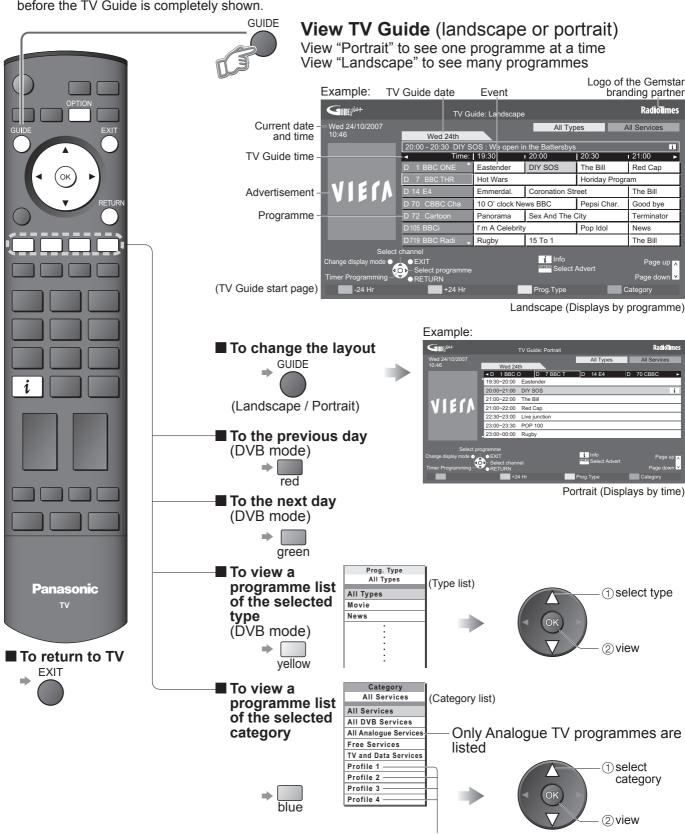
TV Guide—Electronic Programme Guide (EPG) provides an on-screen listing of the programmes currently broadcast and the forthcoming broadcasts over the next seven days (depending on the broadcasters).

This TV supports the GUIDE Plus+ system.

• The Gemstar branding partner will supply the rating informations in the event information and the recommended group in the Prog. Type list.

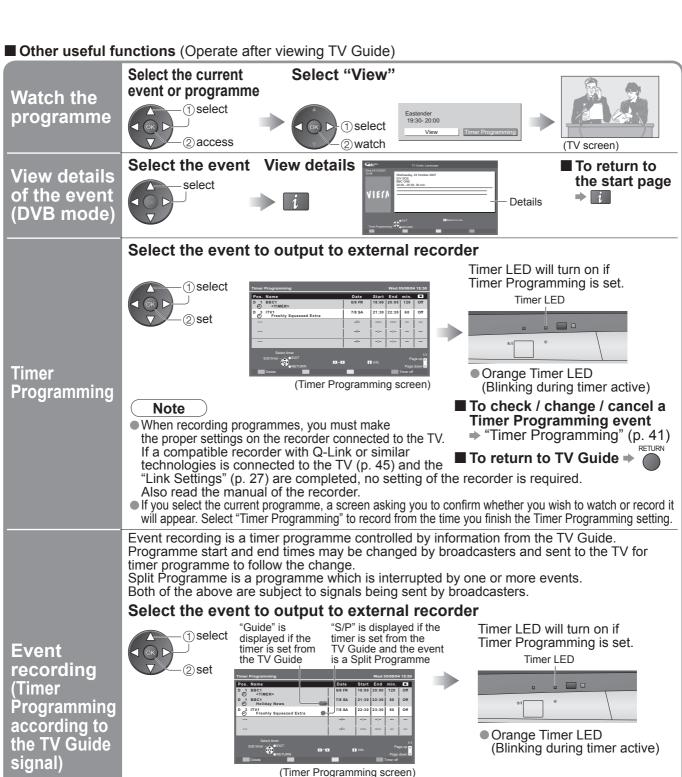
• Analogue programmes will be listed after DVB programmes. "D" means DVB programme and "A" means Analogue programme.

• When this TV is turned on for the first time, or the TV is switched off for more than a week, it may take some time before the TV Guide is completely shown.



To list favourite programmes ⇒ p. 32





- To check / change / cancel an Event recording event ⇒ "Timer Programming" (p. 41) • If you edit the Event recording after setting to record, it will no longer be performed as Event recording. The recording will be performed according to the time setting in Timer Programming.
- To return to TV Guide ⇒

Whilst making Split Programme recording, it is not possible to record any events between sections.

Enter your postcode when using this function for the first time → "Postcode" in "GUIDE Plus+ Settings" (p. 27)

If you have already entered your postcode in Owner ID (p. 12), you do not have to enter again. If you enter an incorrect postcode for your area, or no postcodes are entered, advertisement may not be displayed correctly. ■ To change advertisements

View advertisement

Display advertisement information

To display the latest advertisement, you OPTION will need to update the information.

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

Note

RETURN or Some advertisements are for future programmes. In this case it is possible to use the Event recording function. ▶ see above The information from the GUIDE Plus+ system will not be lost even if turned Off with Mains power On / Off switch.

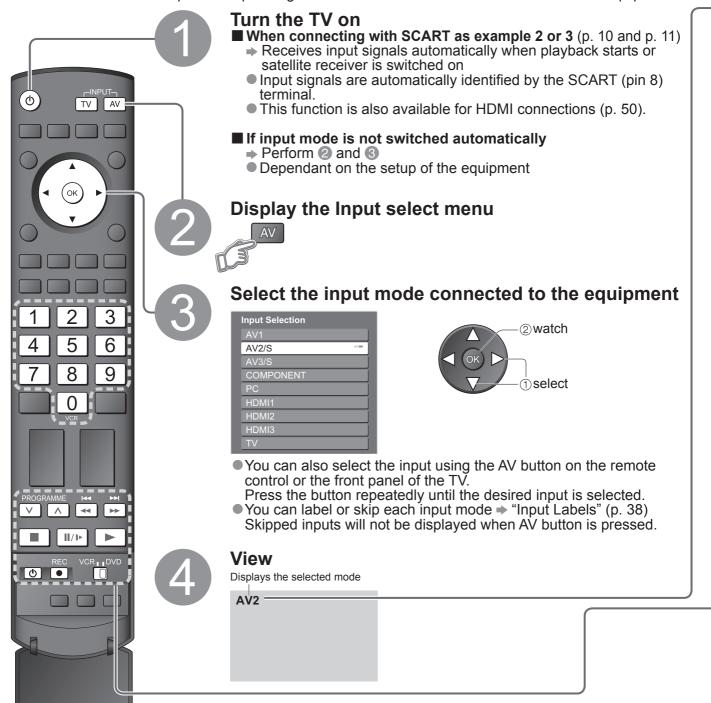
■ To return to TV Guide

Watching VCR, DVD and Satellites

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

To connect the equipment ⇒ p. 10 and p. 11

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



■ To return to TV

Note

• If the external equipment has an aspect adjustment function, set to "16:9".

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

Screen display

	Terminal	AV1	AV2	AV3	COMPONENT	РС	HDMI1	HDMI2	HDMI3
	Manual input default setting in "Input Labels"	AV1 AV1-RGB	AV2 AV2-S-Video AV2-RGB	AV3 AV3-S-Video	COMPONENT	PC	HDMI1	HDMI2	HDMI3
- 1	Auto input (EC mode or VIERA Link	EC/AV1 EC/AV1-RGB	EC/AV2 EC/AV2-S-Video EC/AV2-RGB	_	_	_	EC/HDMI1 Applicable for EC mode and VIERA Link		EC/HDMI3 Applicable for VIERA Link

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

	seed to the 17 out to directly operated with the remote dention.
VCR _{II} DVD	VCR / DVD switch* Select VCR to operate Panasonic VCR or DVD equipment Select DVD to operate Panasonic DVD equipment or Player home theatre
U	Standby Set to Standby mode / Turn on
	Play Playback videocassette / DVD
	Stop Stop the operations
 	Rewind / Skip / Search VCR: Rewind, view the picture rapidly in reverse DVD: Skip to the previous track or title Press and hold to search backward
▶	Fast-forward / Skip / Search VCR: Fast-forward, view the picture rapidly forward DVD: Skip to the next track or title Press and hold to search forward
[]/▶	Pause Pause / Resume DVD: Press and hold to play at slow speed
PROGRAMME	Programme Up / Down Select programme
REC	Record Start recording

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

- ① Set the VCR / DVD switch to the appropriate position ⇒
- 2 Press and hold U during the following operations

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



"VCR" position

p	
Equipment	Code
VCR	10 (default)
DVD	11

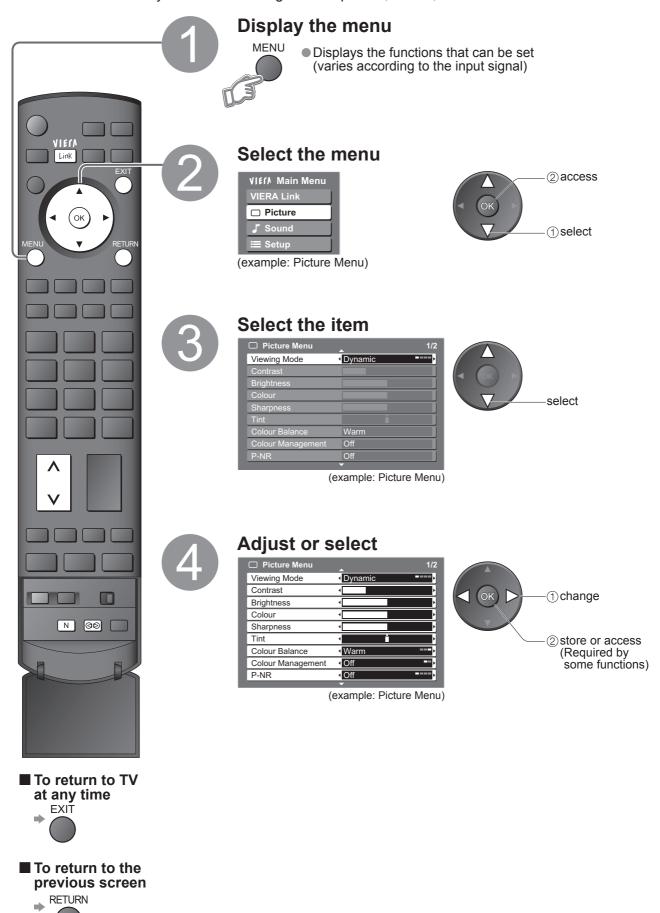
"DVD" position

Equipment	Code
DVD	70 (default)
Player home theatre	71

- 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.

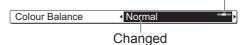
How to Use Menu Functions

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

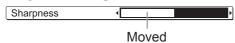


■Choose from among alternatives

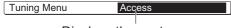
Number and positions of alternatives



■Adjust using the slide bar



■Go to the next screen



Displays the next screen

■Enter characters using alpha / numeric keys

You can input information using alpha / numeric keys.



■To change menu pages



■To reset the settings

- To reset the picture settings only⇒ "Reset to Default" in Picture Menu (p. 26)
- To reset the sound settings only
 ⇒ "Reset to Default" in Sound Menu (p. 26)
- To reset the picture and sound settings together
 - (Also volume level and aspect mode are reset)
- To initialize all settings
 - → "Shipping Condition" in Setup Menu (p. 36)

How to Use Menu Functions

■Menu list

INIG	nu iist					
Menu		Item	Adjustments / Configurations (alternatives)			
VIERA Link	Pause Live TV		Controls the connected equipment with VIEDA Link functions and are blacked			
25	Direct TV Rec VIERA Link Control		Controls the connected equipment with VIERA Link function, and enables various convenient recording, playback, etc. (p. 47 - 49)			
			You can also access VIERA Link Menu directly using the VIERA Link button on the remote control.			
E E	Speak	er Selection	Terriole control.			
	Viewin	ng Mode	Selects four different screen settings (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 In each Viewing Mode setting, Contrast, Brightness, Colour, Sharpness, Tint, Colour Balance, Colour Management and 3D-COMB can be adjusted and stored to suit your particular viewing requirement (e.g., you may require different settings for viewing sports, films, news etc.) Set for each input signal Changes will be stored automatically			
פ		ast, Brightness, r, Sharpness	Increases or decreases the levels of these options according to your personal preference			
Picture	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			
re	Colou	r Balance	Allows you to set the overall colour tone of the picture (Cool / Normal / Warm)			
	Colou	r 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-CO	MB	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		Select two different sound settings (Music / Speech) In each Sound Mode setting, Bass and Treble can be adjusted and stored to suit your particular sound requirement Changes to any settings in a mode will affect all signal sources Sound quality can be improved			
	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			
	Baland	ce	Adjusts volume level of right and left speakers			
	Headp	hone 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).			
	Volum	e Correction	Adjusts volume of individual programme or input mode			
ဟ	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.			
Sound	Preferred Multi Audio NICAM		Selects the preferred language for DVB multi audio (depending on the broadcaster) NICAM (Near Instantaneous Companded Audio Multiplex) A format for digital sound over television Reproduces stereo sound (Off / On) Off if reception is poor (FM monaural sound) Analogue mode only			
	HDMI1 / 3 Input		Select to fit the input signal (Auto / Digital / Analogue) (p. 52) Auto : Automatic detection of digital or analogue sound source Digital : HDMI cable connection Analogue : HDMI-DVI adapter cable connection HDMI input mode only HDMI2 terminal is for digital signal only No setting for HDMI2 available			
	De	Audio Description	Useful for visually-impaired viewers (Off / On) Select "On" to activate the description sound track if available			
	Audio Description Menu	Volume	Adjusts the volume for audio description			
	ng ibdi:	Speakers	Set to "On" to activate the description sound track from TV speakers (Off / On)			
	ion	Headphones	Set to "On" to activate the description sound track from headphones (Off / On)			
	Reset to Default		Press the OK button to reset the present Sound Mode to the default settings			
	116361	C Dolault	Effective to Bass, Treble, Balance, Headphone Volume and Surround			

■Menu list

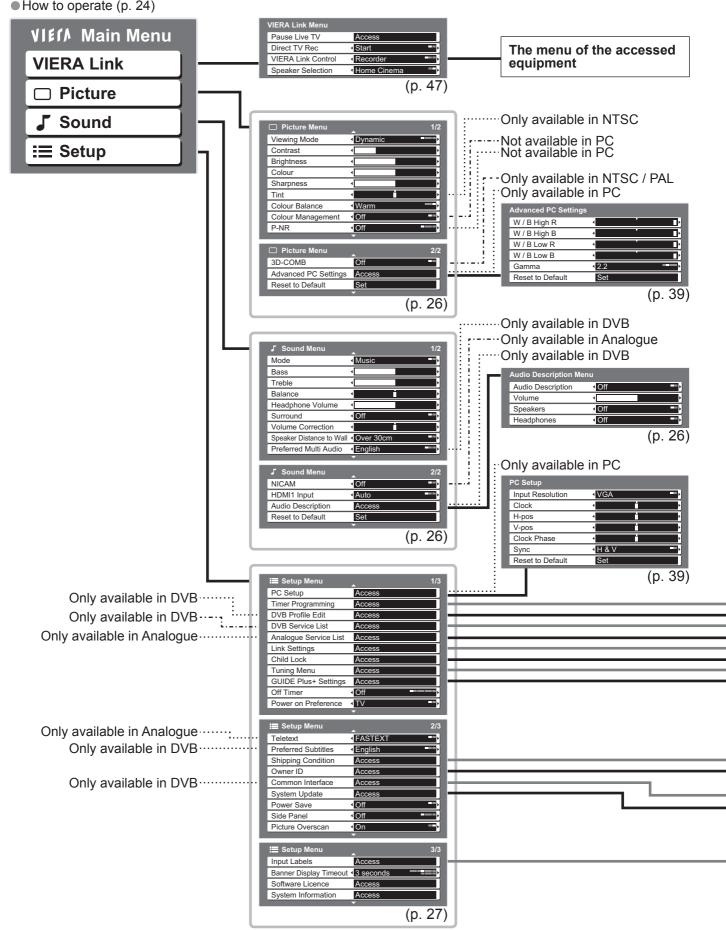
■ IVIE	nu i	IST			
Menu		Item	Adjustments / Configurations (alternatives)		
	Tim	ner Programming	Records forthcoming programmes (p. 40)		
	DV	B Profile Edit	Creates list of favourite programmes (p. 32)		
	DVB Service List		Skips the unwanted DVB programmes (p. 33)		
	Analogue Service List		Skips the unwanted Analogue programmes or edits Analogue programmes (p. 33)		
		VIERA Link	Sets to use VIERA Link functions (Off / On) (p. 46)		
	Link	Q-Link	Selects which AV terminal is to be used for data communication between this TV and a compatible recorder (AV1 / AV2) (p. 45) Select the connected terminal to the recorder even it is not compatible with Q-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.		
		Q-Link Download	Downloads analogue programme information to a Q-Link compatible equipment connected to the TV		
	Chi	ld Lock	Locks a programme / AV input to prevent access to it (p. 33)		
		Auto Setup	Automatically sets the programmes received in the area (p. 35)		
	_	DVB Manual Tuning	Sets the DVB programmes manually (p. 35)		
	Tuning	Analogue Manual Tuning	Sets the Analogue programmes manually (p. 35)		
	g Menu	Add New DVB Services	Adds new DVB services (p. 35)		
	nu	New Service Message	Selects whether to give a notification message when a new DVB service is found (p. 35)		
		DVB Signal Condition	Checks the DVB signal condition (p. 35)		
Se	Postcode System Information		Sets your postcode to display advertisements in the GUIDE Plus+ system (p. 20)		
Setup			Displays the system information of the GUIDE Plus+ system		
		Timer	Sets the time the TV automatically turns Off (Off / 15 / 30 / 45 / 60 / 75 / 90 minutes)		
	Power on Preference		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 (TV / AV) The external equipment must be switched on and sending a control signal for automatic switching at power on to occur.		
	Tel	etext	Analogue teletext display mode (FASTEXT / List) (p. 18)		
	Pre	ferred Subtitles	Selects the preferred language for DVB subtitles (depending on the broadcaster) ■ To display subtitles ⇒ p. 14		
	Shi	pping Condition	Resets all settings, for example, when moving house (p. 36)		
	Ow	ner ID	Inputs the owner ID (p. 37)		
	Coi	mmon Interface	Uses include to watch pay-TV (p. 31)		
		stem Update	Downloads new software to TV (p. 31)		
	Pov	wer Save	Reduces brightness of picture to economise on power consumption (Off / On)		
	Sid	e 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.		
	Inp	ut Labels	Labels or skips each input terminal (p. 38)		
	Bar	nner Display neout	Sets how long the information banner (p. 15) stays on screen • 0 (No display) to 10 sec. in 1-sec. increments		
	Sof	tware Licence	Displays the software licence information		
	System Information		Displays the system information of this TV		

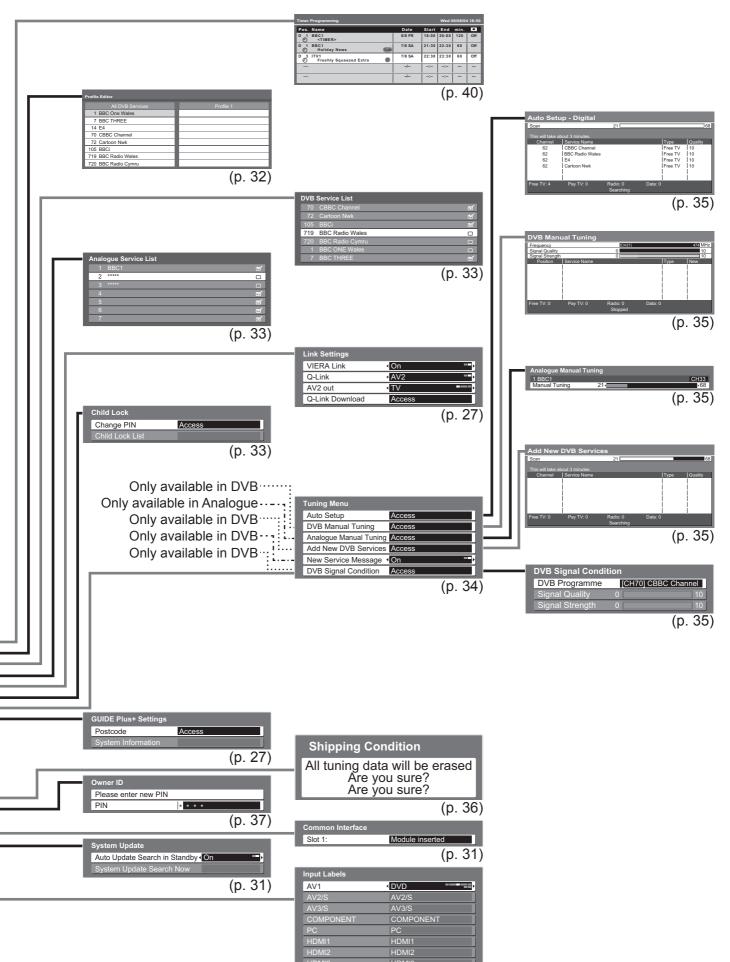
<sup>A different menu will be displayed while PC or SD Card is used. (p. 39 and p. 43)
Only available items can be selected.</sup>

How to Use Menu Functions

Overview

• How to operate (p. 24)

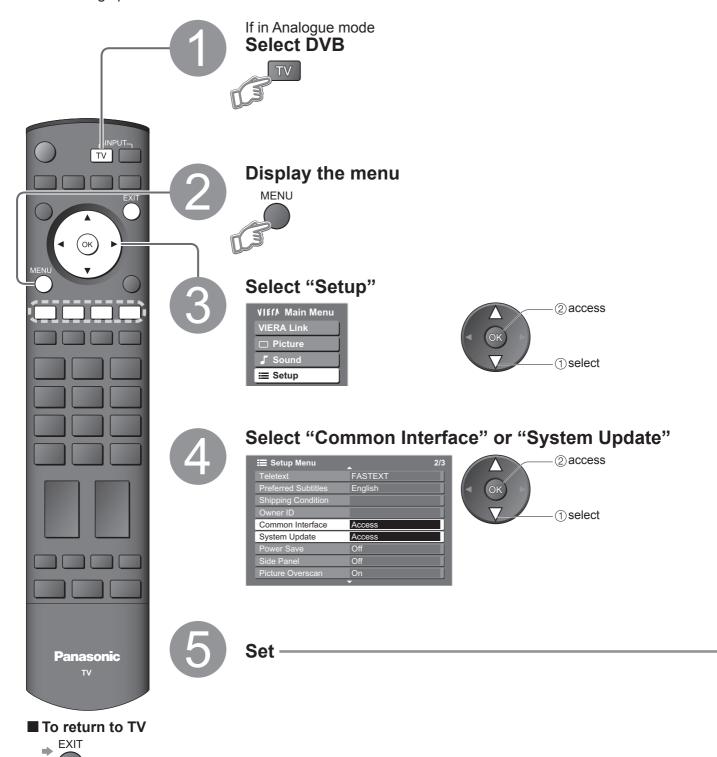




(p. 38)

DVB Settings (DVB mode)

DVB Settings provide access to various advanced features.

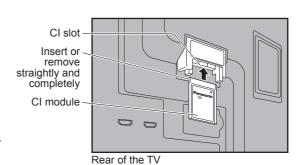


The Common Interface Module menu provides access to software contained on Common Interface (CI) Modules.

This TV receiver works only Pay TV modules complying with CI standard.

Caution

- Turn Off Mains power On / Off switch whenever inserting or removing the CI module.
- If a view card and a card reader come as a set, first insert the card reader, then insert the view card into the card reader.
- Do not insert the module up side down.



Pay-TV

Common Interface

1 Insert the CI module (optional)

- The features that appear on screén are dependent on the contents of the selected CI module.
- Normally pay-TV services will appear without ② and ③.
 If pay-TV service does not appear, perform ② and ③.
- For more details, see the manual of the CI module, or check with the broadcaster.

2 Access "Common Interface"





3 Follow the on-screen instructions

example: select, go → OK ◀▶





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

Coloured characters →



Download new software to TV. ● For details ⇒ p. 53

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.

Update TV's software system

System Update

Select "Auto Update Search in Standby" and then set "On" or "Off"





 On: Automatically performs a search in standby and downloads an update, if any software updates are available

■ To update immediately

Select "System Update Search Now"



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



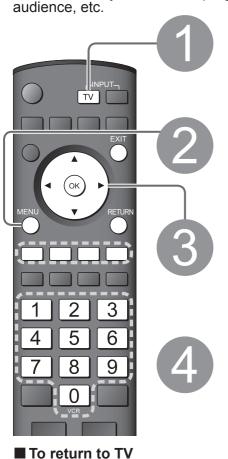
Download



 Download may take for about 20 mins.

Editing Programmes

You can make your favourite programme lists, skip unwanted programmes and control programme



Select DVB or Analogue



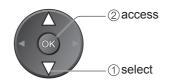
- "DVB Profile Edit" and "DVB Service List" are available in DVB mode only.
- "Analogue Service List" is available in Analogue mode only.

Display the menu

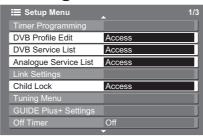


Select "Setup"

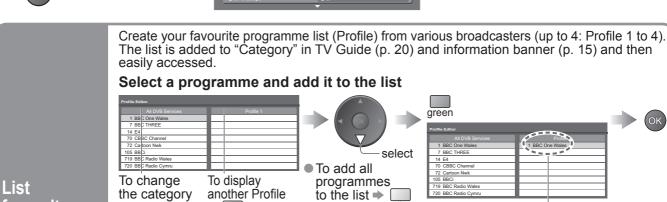




Select "DVB Profile Edit", "DVB Service List", "Analogue Service List" or "Child Lock" and set





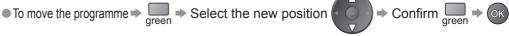


favourite programmes

DVB Profile Edit (DVB mode) ■ To edit Profile

Select the field of Profile to edit and:











A programme is added

Note

Programme numbers (known as logical channel numbers) cannot be changed, due to broadcast restrictions.

vellow

Skip unwanted programmes

DVB Service List

Analogue Service List

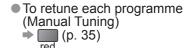
You can hide unwanted services. The deleted services cannot be displayed except in this function. Use this function to skip unwanted programmes.

- "DVB Service List" lists all tuned DVB programmes in DVB mode.
 "Analogue Service List" lists all tuned Analogue programmes in Analogue mode.

Select a service and add / delete







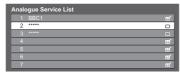
✓ :add

:delete (skip)

You can change the programme name and programme position for Analogue programmes.

- This function is available in Analogue mode.
- If a VCR is connected only with the RF cable, edit "VCR".

1 Select the programme to edit







Edit analogue programmes (Change name, Move)

Analogue Service List

② Edit

■ To change the name displayed when selecting programmes







(maximum: five characters)

■ To move the programme position

Select new position

Store









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.)

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.

Control

programme audience

Child Lock

2 Select "Child Lock List"

- ② access
- 3 Select the programme / input to be locked

Appears when the programme / input is locked





- To cancel
- Select the locked programme / input
- To lock all ⇒
- To cancel all locks ⇒ blue

■ To change the PIN number

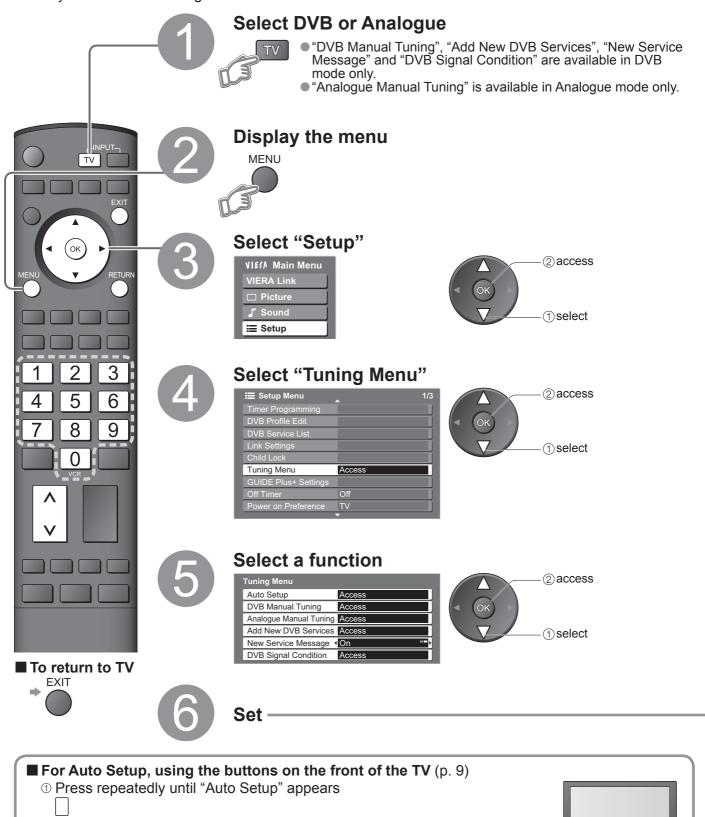
Select "Change PIN" in ② and enter a new PIN number twice.

Note

Setting "Shipping Condition" (p. 36) erases the PIN number and all settings.

Tuning Programmes

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



■ To return to TV ⇒

2 Access "Auto Setup"

Start "Auto Setup"

Automatically retune all DVB or Analogue programmes received in the area.

Only DVB programmes are retuned in DVB mode.

Only Analogue programmes are retuned in Analogue mode.
If a Child Lock PIN number (p. 33) has been set, it must be entered.

Set all DVB or Analogue programmes automatically

Auto Setup

Settings are made automatically



All the previous tuning settings are erased.

Start Auto Setup

All digital tuning data will be erase

© •RETURN

Auto Setup

- The analogue settings are downloaded to a Q-Link compatible equipment connected to the TV in Analogue mode.
- When the operation is completed, the programme at programme position "1" will be displayed.
- If tuning has not been done completely ⇒ "DVB Manual Tuning", "Analogue Manual Tuning"

Set DVB programme manually

DVB Manual Tuning

Normally use "Auto Setup" or "Add New DVB Services" to add DVB programmes to your

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



1 select channel ② search

All services found will be added to the DVB Service List.

Set Analogue programme manually

Analogue Manual Tuning

Set Analogue programme manually after Auto Setup.

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

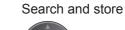


Select the programme position









① search ② store

Add DVB programme automatically

Add New **DVB Services** Any new services found will be added to the DVB Service List.



• The new service is added with the current settings saved as they are.

Display a notification message

New Service Message

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

New DVB service found! Press OK to start Auto Setup. Press EXIT to Ignore. Selecting Auto Setup will delete current Profile and Childlock settings Selecting OK (Auto Setup) will delete the current Profile and Childlock settings.

Selects a programme and checks the DVB signal condition.

Check DVB signal

DVB Signal Condition

To change the programme



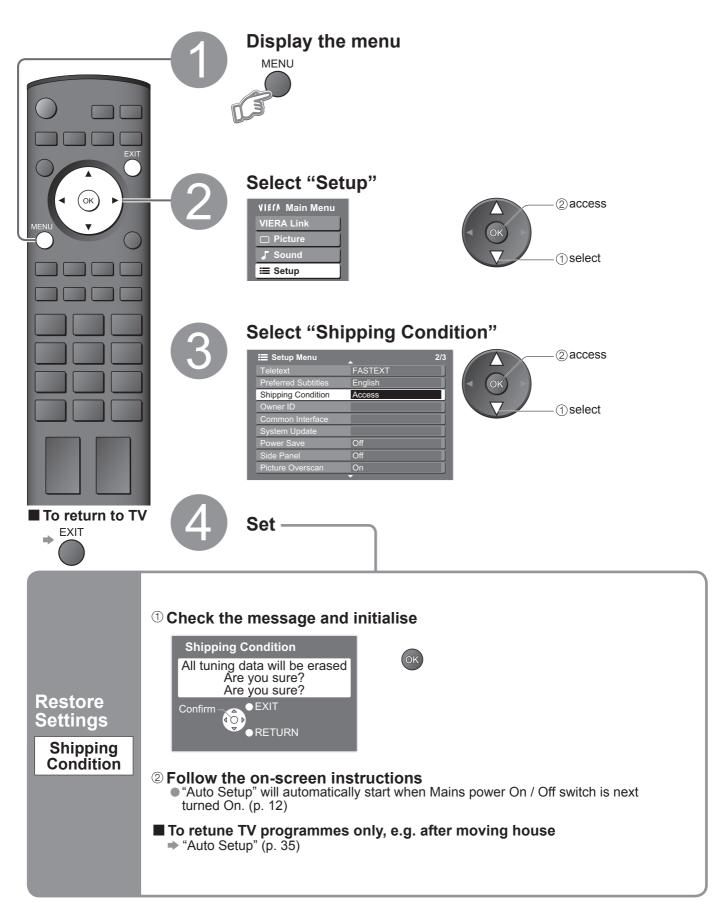
A good Signal Strength is not an indication of suitable signal for DVB reception. Please use the Signal Quality indicator as follows:

Signal Quality:

- Green bar → GoodYellow bar → Poor
- Red bar ⇒ Bad (Check the aerial)

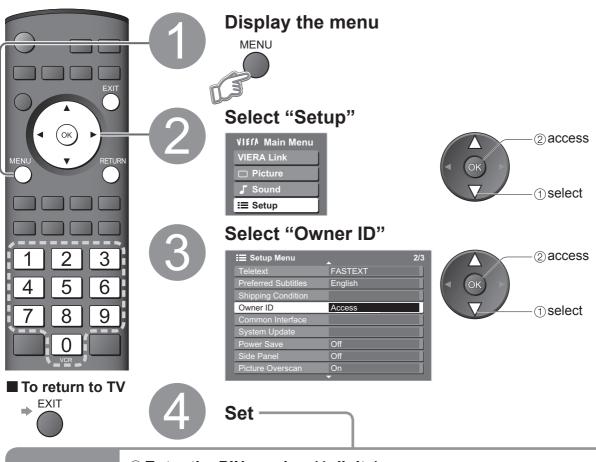
Restore Settings

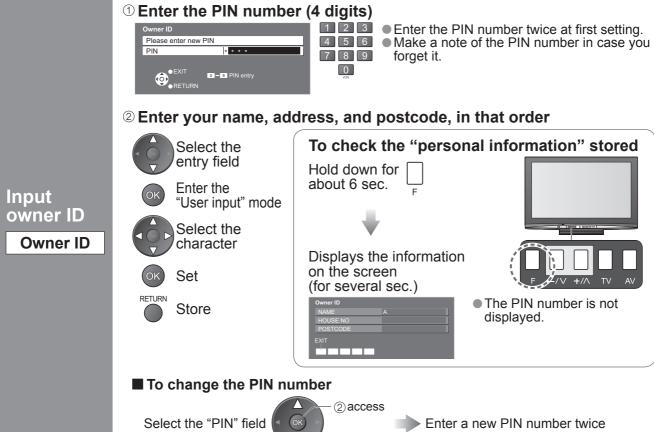
Resets the TV to its original condition, i.e. no programmes tuned in. All settings other than "Owner ID" (programmes, picture, sound quality, etc.) are reset.



Owner ID

Entry of the security code (PIN number) and "personal information" (your name, address and postcode). In the unfortunate event of theft it will help the Police to determine the owner. If you have skipped the Owner ID input in "Auto Setup" (p. 12), and input it later, start from ①. If you input the Owner ID in "Auto Setup" (p. 12), perform ④.



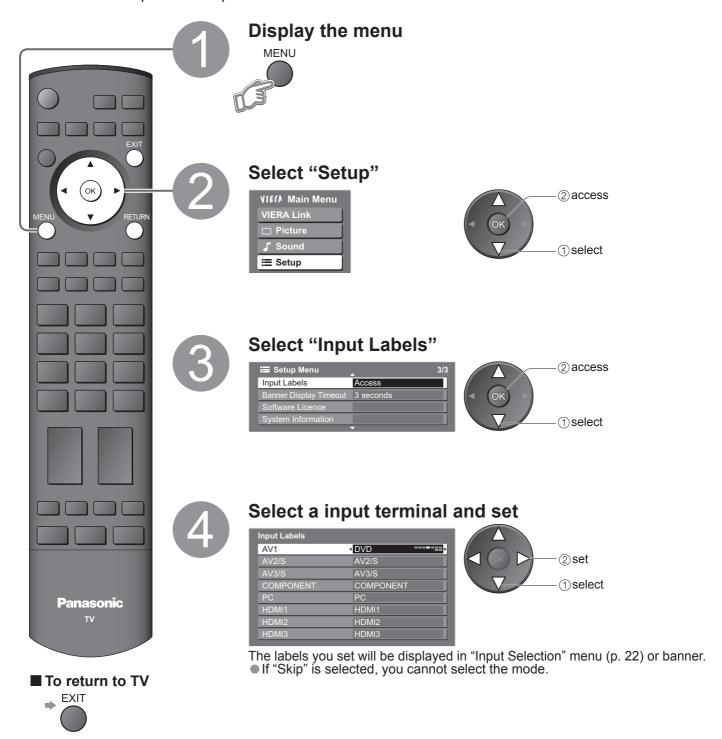


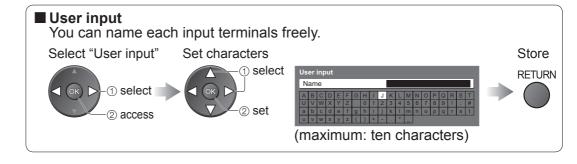
1) select

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. 22

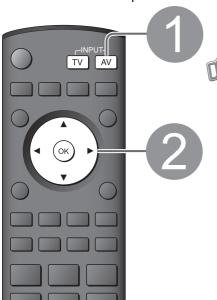




Displaying PC Screen on TV

The screen of the PC connected to the TV can be displayed on the TV. You can also listen to PC sound with the audio cable connected.

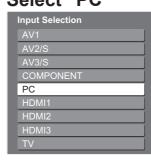
■ To connect PC ⇒ p. 50



Select the external input









- Corresponding signals ⇒ p. 54
- If "H-freq." or "V-freq." is shown in red, the signals may not be supported.

- To return to TV
 - ⇒ TV
- PC menu setting (changed as desired)
 - To make settings → "How to Use Menu Functions" 1 to 4 (p. 24)

	To make settings How to use Menu Functions to (p. 24)								
Menu	lt	em	Adjustments / Configurations (options)						
		W/B High R	White balance of bright red area						
70		W/B High B	White balance of bright blue area ① and ②						
)ic	Advanced	W/B Low R	White balance of dark red area repeatedly adjusted						
Picture	PC Settings	W/B Low B	White balance of dark blue area						
- F	Settings	Gamma	(S Curve / 2.0 / 2.2 / 2.5)						
		Reset to Default	Press the OK button to reset to the default Picture settings						
		Input Resolution	Switches to a wide view VGA (640 × 480 pixels), WVGA (852 × 480 pixels), XGA (1,024 × 768 pixels), WXGA (1,366 × 768 pixels) Options change depending on signals						
		Clock	Set to the minimum level if noise occurs						
G		H-pos	Adjusts horizontal position						
Setup	PC Setup	V-pos	Adjusts vertical position						
		Clock Phase	Eliminates flicker and distortion • Adjust after Clock adjustment • Set to the minimum level if noise occurs						
		Sync	Chooses another synchronous signal if the image is distorted (H & V / On G) H & V: by the horizontal and vertical signals from your PC On G: by the green signal from your PC (if available)						
		Reset to Default	Press the OK button to reset to the default Setup settings						

Recording Controls

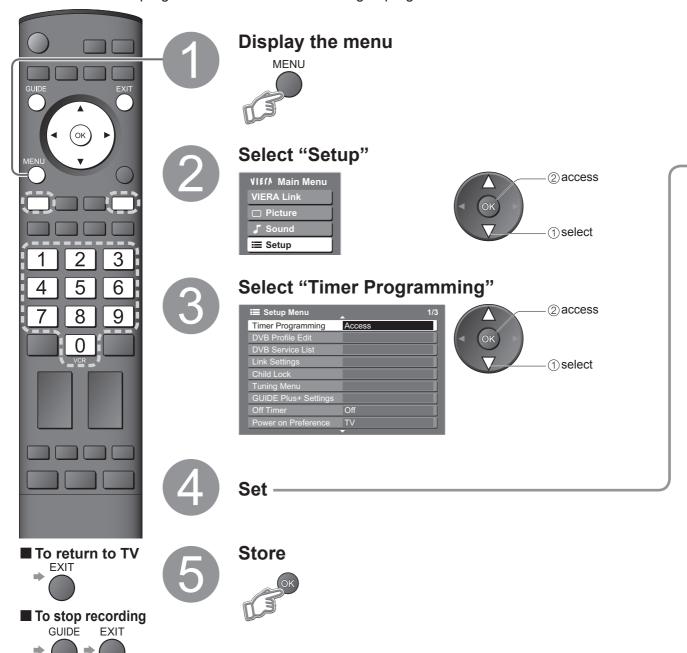
Timer Programming from Menu

The Timer programming menu allows you to choose programmes that you wish to record. At the correct time, the TV will switch on and tune to the correct programme (even if the TV is in Standby mode). TV Guide may also be used to set timer programming. (p. 20)

• If the recorder is compatible with Q-Link or similar technologies (p. 45), and setup / connection are done completely (p. 44 and p. 45), you do not need to programme the recorder – the TV will control the recording progress.

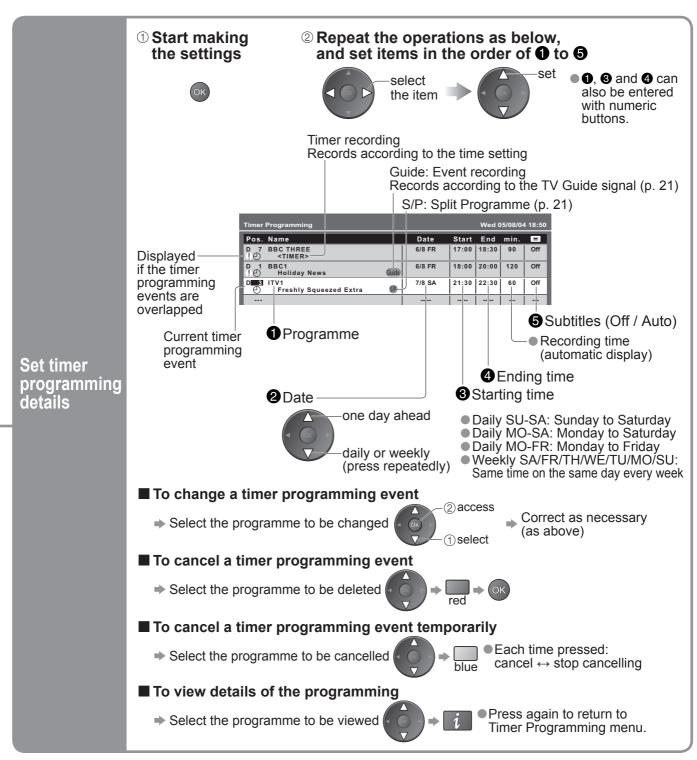
• If the recorder is not compatible with Q-Link or similar technologies, set "Q-Link" in Setup Menu (p. 27) to the connected terminal (AV1 or AV2), and make timer programming of the recorder (Read the manual of the recorder).

• "D" means DVB programme and "A" means Analogue programme.



Caution

- The TV must either be On or in standby.
- For preparations of a recorder, read the manual of the recorder.
- No other programme can be selected during recording.
- It may not be possible to record an encrypted programme (which is copy-protected).



■ Event recording (Timer Programming from TV Guide-EPG) ⇒ p. 21

Event recording is a timer programme controlled by information from the TV Guide.

Programme start and end times may be changed by broadcasters and sent to the TV for timer programme to follow the change.

Split Programme is a programme which is interrupted by one or more events.

Both of the above are subject to signals being sent by broadcasters.

■ Direct TV Recording → p. 45 and p. 47

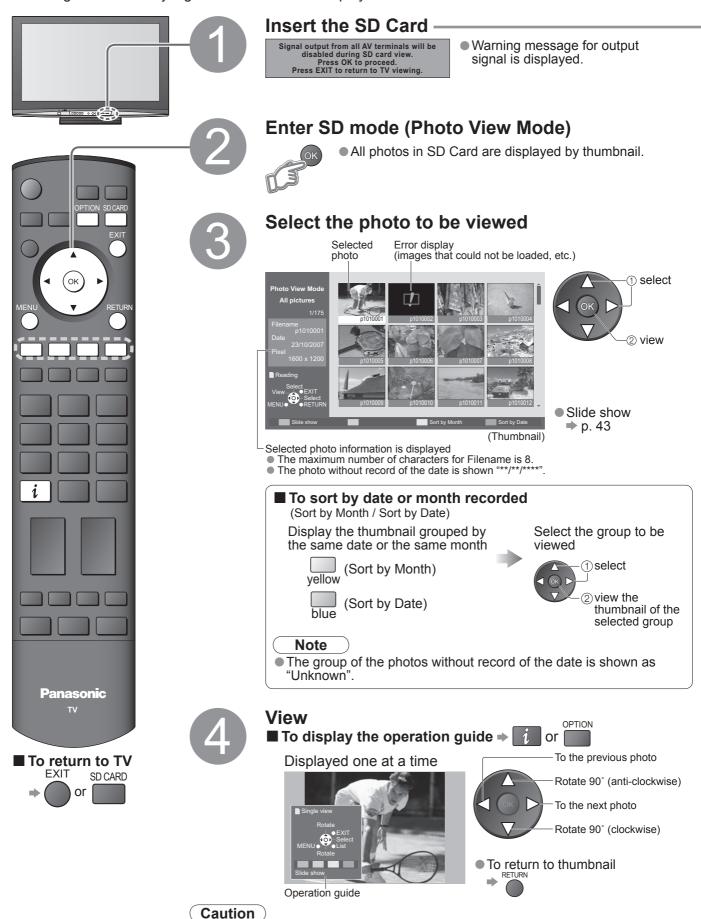
You can record the current programme to DVD Recorder / VCR immediately.

Note

- Check that the Timer LED (Orange) is lit. If not, timer programmes are not active or not stored.
- "!" will identify any timer events that have been set and overlap. If this occurs then the first event will start and finish as programmed. The next timer event can then start.
- 2 mins. before the starting time: a reminder message appears. (To remove the message → OK); To cancel the programming →
- A Timer Programming event will automatically change to the desired programme 10 seconds before the start time.
- To stop Timer Programming event directly prior to the start time, it is necessary to stop the recorder manually.
- Timer Programming will be performed even if the TV is in Pause Live TV recording (p. 47). In this case, Pause Live TV recording will be cancelled.

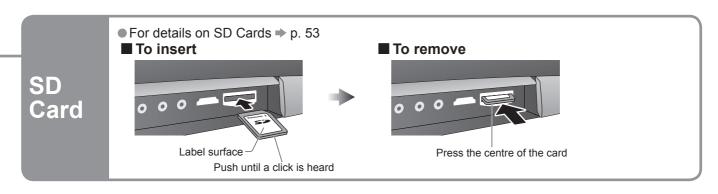
Viewing from SD Card

Still images recorded by digital cameras will be displayed.



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

(Photos)



Slide show

■ Start Slide show (operate in step ③ or ④)

① Select the photo for the first view

2 Start Slide show



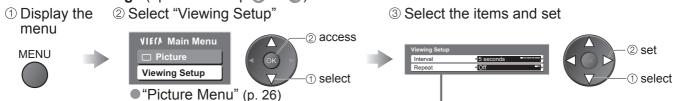




To return to Single view ⇒

Note

- A Slide show will be completed within the group from which it was started.
- Slide show settings (operate in step ③ or ④)



Menu	Item	Adjustments / Configurations (alternatives)
Set Interval		Select slide show interval (5 / 10 / 15 / 30 / 60 / 90 / 120 seconds)
	Repeat	Slide show repeat (Off / On)

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. 53.) 					
Is SD Card in?		Confirm SD Card is inserted correctly.					
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. 45) VIERA Link (HDAVI Control™) connects the TV and the equipment with VIERA Link function, and enables easy control, convenient recording, playback, etc. (p. 46 - 49) You can use Q-Link and VIERA Link functions together.

■ Summary of Q-Link and VIERA Link functions

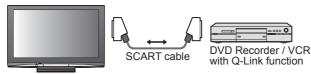
Connection	Q-Link (SCART connection)	VIERA Link (HDMI connection only)	VIERA Link (SCART and HDMI connection)
Analogue programme download	0	-	0
Easy playback***	0	0	0
Power on link***	0	0	0
Power off link***	0	0	0
Speaker control***	_	0	0
Control the menu of the connected equipment by VIERA remote control	-	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.
- ***: These features may be available even with other manufacturers' equipment supporting HDMI CEC.

Connections

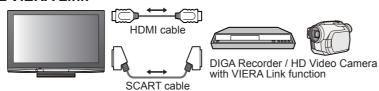
Read the manual of the equipment, too.

Q-Link



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

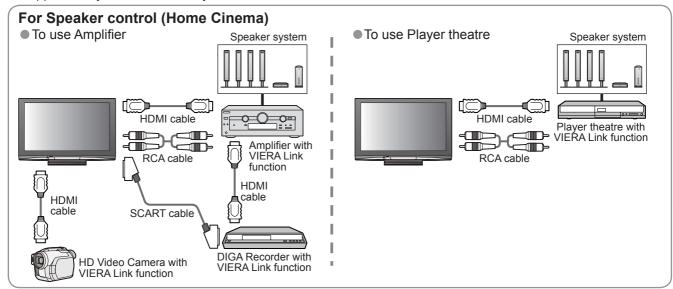
■ VIERA Link



- 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. 44

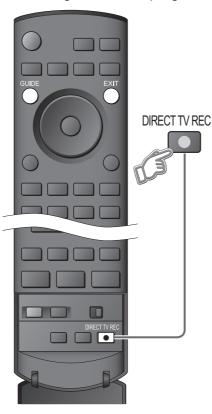
Set up the DVD Recorder / VCR. Read the manual of the equipment.

 Q-Link terminal setup in Setup Menu → "Q-Link" (p. 27), "AV1 / AV2 out" (p. 27)
 Download Analogue programme setting → "Q-Link Download" (p. 27) or "Auto Setup" in Analogue mode (p. 35) or "Auto Setup" - when first using the TV (p. 12)

■ Features available

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

Recording the current programme in DVD Recorder / VCR immediately.



Available conditions:

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

- When Direct TV Recording is performed, the recorder is automatically turned on if it is in Standby
- Changing programme or turning off the TV is available while the recorder is recording from its own tuner.
- Changing programme is not available while the recorder is recording from the TV tuner.
- Turning off the TV will stop the recording if the recording from an AV source connected to the TV.

■ To stop recording



Information / Message

Direct TV Recording -What you see

is What you

record

Recording information or if recording is not possible, a message is displayed.

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 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 DVD is not active.)

- "DATA LOGIC" (a trademark of Metz Corporation)
- "Easy Link" (a trademark of Philips Corporation)
- "Megalogic" (a trademark of Grundig Corporation)
- "SMARTLINK" (a trademark of Sony Corporation)

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. 44
- 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 Analogue programme setting → "Q-Link Download" (p. 27) or "Auto Setup" in Analogue mode (p. 35) or "Auto Setup" when first using the TV (p. 12)
- Set VIERA Link On in Setup Menu ⇒ "VIERA Link" (p. 27)
- 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. 22), and make sure that an image is displayed correctly.

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

- · for the first time
- · when adding or reconnecting equipment
- when changing setup

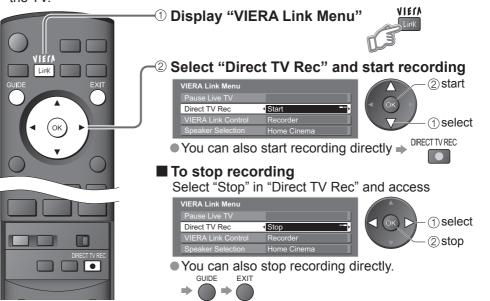
■ Features available

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	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	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.

- Recording the current programme in DIGA Recorder immediately. This function is available with DIGA Recorder which has "HDAVI Control 3" function.
- Connect DIGA Recorder with both HDMI and SCART cables to use this function.
- If you cannot operate, check the settings and the equipment ⇒ "Preparations" (p. 46)
- Changing programme or turning off the TV is available while the recorder is recording from its own tuner.
- Changing programme is not available while the recorder is recording from the TV tuner.
- Turning off the TV will stop the recording if the recording from an AV source connected to the TV.

Direct TV Recording -What you see is What you record (HDAVI Control 3)

> **Direct TV** Rec



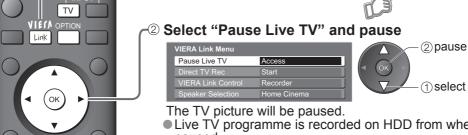
You can pause the live TV programme and resume later.

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

- This function is available with DIGA Recorder which has HDD and "HDAVI Control 3" function.
- Connect DIGA Recorder with both HDMI and SCART cables to use this function.
- If you cannot operate, check the settings and the equipment ⇒ "Preparations" (p. 46)

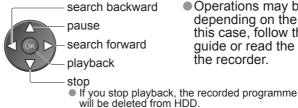
-① Display "VIERA Link Menu"

Access and pause the live TV programme



- Live TV programme is recorded on HDD from where it was paused.
- If the paused TV picture disappears after a few minutes (the paused picture will be restored)
- Follow the operation guide to operate Pause Live TV function.

■ To operate Pause Live TV



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

■ To return to Live TV

(stop playback of Pause Live TV / cancel pause) Select "Yes"



- Stop Pause Live TV? Yes
- If you stop playback or cancel pause, the recorded programme will be deleted from HDD.

Pause Live TV programme HDAVI Control 3 and Recorder with HDD

Pause Live TV

Link Functions (Q-Link VIERA Link)

■ Features available (Using VIERA Link Menu)

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

- This function is available with the equipment which has "HDAVI Control 2" or "HDAVI Control 3" function.
- If you cannot operate, check the settings and the equipment ⇒ "Preparations" (p. 46)

Access and operate the menu of the equipment



② Select "VIERA Link Control"

Display "VIERA Link Menu"



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



3 Select the equipment you want to access

"Home Cinema" means Player theatre, Recorder theatre and Amplifier.



Recorder / Player / Home Cinema / Video Camera

The type of the connected equipment is displayed.

Select the type of the equipment and access.



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

equipment by VIERA remote control

Control

of the

the menu

connected

HDAVI Control 2 (HDAVI Control 3)

VIERA Link Control If you access the invalid equipment

When the equipment with "HDAVI Control" function is connected



Recorder / Player / Home Cinema / Video Camera

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

When the equipment of other types or manufacturers is connected



Others

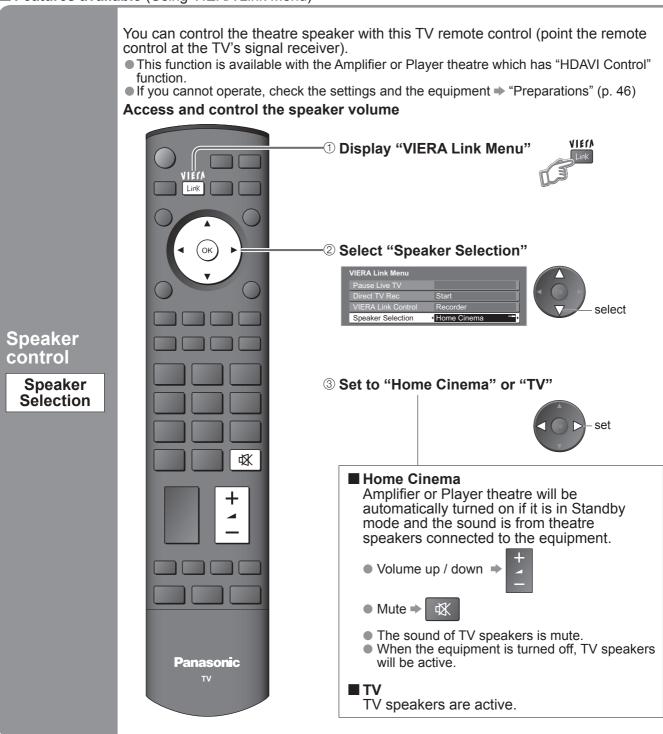
"Others" is displayed. You cannot access it. Use its own remote control to operate the equipment. 4 Operate the menu of the equipment

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

	Move the cursor / select the menu			
	Move the cursor / access / adjust			
OK	Store / set / access			
RETURN	Return to the previous menu			
EXIT	Exit the menu			
OPTION	Display the operation guide for the equipment / The same functions with the OPTION button of the equipment			
red green yellow blue	Access when the key words are displayed on colour bar			

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

■ Features available (Using VIERA Link Menu)

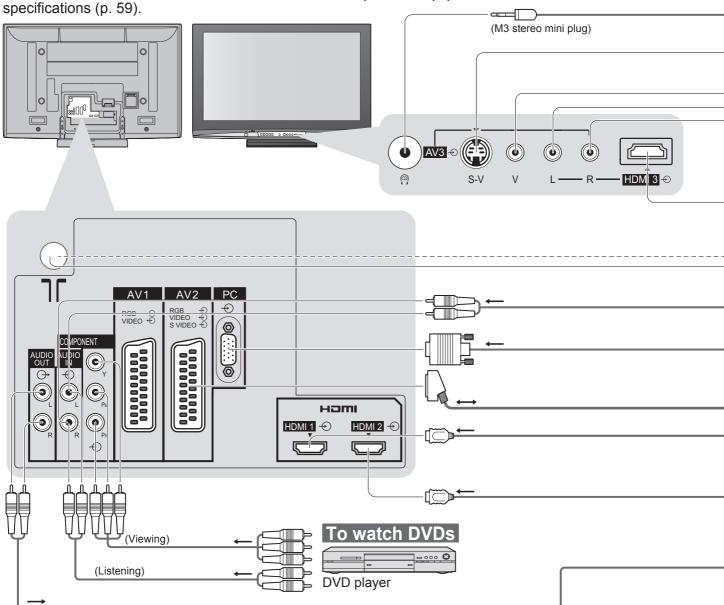


Note

- 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.
- To confirm this TV's version of HDAVI Control ⇒ "System Information" (p. 27)

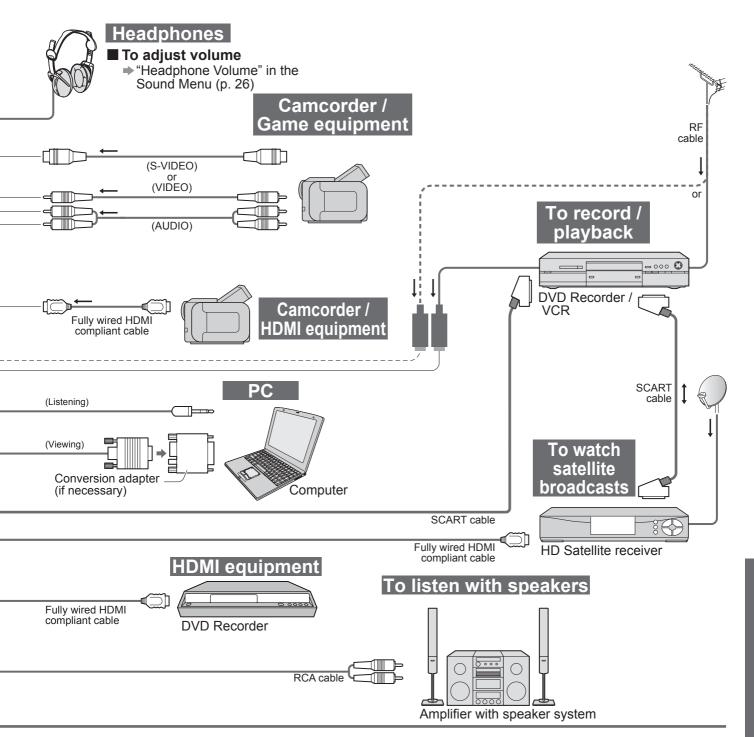
External Equipment

These diagrams show our recommendations for connection of your TV to various pieces of equipment. For other connections, consult the instructions for each piece of equipment, the table below, and the specifications (n. 59)



■ Types of connectable equipment to each terminal

Recording / Playback (equipment)	AV1	AV2	AV3 (Front of TV)	
To record / playback videocassettes / DVDs (VCR / DVD recorder)	0	0		
To watch DVDs (DVD player)		0	\circ	
To watch camcorder images (Video camera)		0	\circ	
To watch satellite broadcasts (Set top box)		0	\circ	
To play games (Game equipment)		0	\circ	
To use amplifier with speaker system				
Q-Link		0		
VIERA Link	(with HDMI)	(with HDMI)		
Direct TV Recording				



COMPONENT O P O P O	AUDIO OUT	HOMI		
	R	1	2	3
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. 16)

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

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 SCART (pin 8) or HDMI terminal				MI terminal
5	Signal name	TV	AV1	AV2	AV3	COMPONENT	AV1	AV2	HDMI1	HDMI2	HDMI3
P	AL	0	0	0	0		0	0			
P	AL 525/60	_	_	_	_		0	0			
D	VB	0	_	_	_		_	_			
M	.NTSC	_	_	_	_		0	0			_
Ν	TSC (AV input only)	_	_	_	_		0	0			
	525(480)/60i					_			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					_			0	0	0
	750(720)/60p					_			0	0	0
_	1125(1080)/50i					_			0	0	0
금	1125(1080)/60i					_		<u> </u>	0	0	0
	1125(1080)/50p					_			0	0	0
	1125(1080)/60p					_			0	0	0
	1125(1080)/24p					_			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. 50).

- 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 / 3 terminal via a DVI to HDMI adapter cable (*2)
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal (HDMI1: use COMPONENT-AUDIO terminals / HDMI3: use AV3 audio terminals).
- Audio settings can be made on the "HDMI1 / 3 Input" menu screen. (p. 26)
- Applicable audio signal sampling frequencies (2ch L.PCM): 48 kHz, 44.1 kHz, 32 kHz
- HDMI2 terminal is for digital audio signal only.
- Use with a PC is not assumed.
- If the connected equipment has an aspect adjustment function, set the aspect ratio to "16:9".
- These HDMI connectors are "type A".
- These HDMI connectors are compatible with HDCP (High-Bandwidth Digital Content Protection) copyright
- 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. 54
- This TV incorporates HDMI™ (Version 1.3 with x.v.Color™) technology.

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

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

Updating the DVB software

From time to time, a new version of software for DVB mode may become available for download to enhance the performance or operations of the TV.

A notification banner will appear when you tune to one of the BBC channels, or you can search for a new version software by using the "System Update Search Now" function (p. 31). New version 1.00 found.
Do you really want to update the software and reboot the system?
Press OK to download the new version

To start downloading press "OK", this may take up to 20 minutes to complete.

To ignore the new software press "EXIT", but this banner will keep appearing during the period of new software availability, usually 2 to 3 days.

To download any new software automatically, ensure that the "Auto Update Search in Standby" function in the System Update menu is set to "On" (p. 31).

The TV will then download new software automatically at night if it is left in standby without any timer programme in progress.

Note

During software download and update, DO NOT switch off the TV.

Data format for Card browsing

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

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

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).

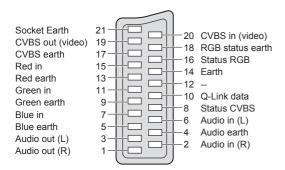
Note

- 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 (RGB, VIDEO, Q-Link)

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

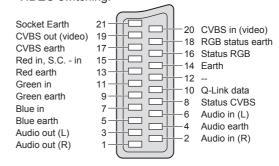


■ AV3 S-VIDEO 4 pin terminal

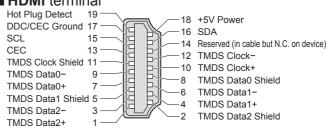


■ AV2 SCART terminal (RGB, VIDEO, S-VIDEO, Q-Link) AV2 - Pins 15 and 20 are dependent on AV2 S-VHS / VIDEO switching.

Press EXIT to Ignore



HDMI terminal



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).

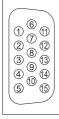
A PC adapter is not necessary for the DOS/V-compliant D-sub 15-pin connector.

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

Aspect -	4:3	1,440 × 1,080 pixels
Aspect	16:9	1,920 × 1,080 pixels

D-sub 15-pin connector signal



Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
1	R	6	GND (Ground)	11)	NC (not connected)
2	G	7	GND (Ground)	12	NC (not connected)
3	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

Mark. Applicable input signal				
Signal name	COMPONENT	HDMI		
525 (480) / 60i	*	*		
525 (480) / 60p	*	*		
625 (576) / 50i	*	*		
625 (576) / 50p	*	*		
750 (720) / 60p	*	*		
750 (720) / 50p	*	*		
1,125 (1,080) / 60i	*	*		
1,125 (1,080) / 50i	*	*		
1,125 (1,080) / 60p		*		
1,125 (1,080) / 50p		*		
1.125 (1.080) / 24p		*		

PC (D-sub 15P)

- (- 00.0 .0.)		
Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)
640 × 400 @70 Hz	31.47	70.07
640 × 480 @60 Hz	31.47	59.94
640 × 480 @75 Hz	37.50	75.00
800 × 600 @60 Hz	37.88	60.32
800 × 600 @75 Hz	46.88	75.00
800 × 600 @85 Hz	53.67	85.06
852 × 480 @60 Hz	31.44	59.89
1,024 × 768 @60 Hz	48.36	60.00
1,024 × 768 @70 Hz	56.48	70.07
1,024 × 768 @75 Hz	60.02	75.03
1,024 × 768 @85 Hz	68.68	85.00
1,280 × 1,024 @60 Hz	63.98	60.02
1,366 × 768 @60 Hz	48.39	60.04
Macintosh13" (640 × 480)	35.00	66.67
Macintosh16" (832 × 624)	49.73	74.55
Macintosh21" (1,152 × 870)	68.68	75.06

- 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 or Panasonic Customer Care Centre for assistance. For details (p. 60)

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. 26) and volume.
- Check all required SCART cables and connections are firmly in place.

Auto aspect

Auto aspect is designed to provide you with the best aspect ratio to use to fill your screen. For user control please see p. 52.

S-Video / black and white picture

Using AV button please confirm your selection is S-Video I.e. AV2/S (p. 22).

No programmes shown

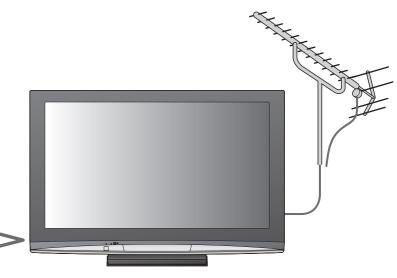


- Check the DVB transmitter.
- Adjust the direction of the aerial to another transmitter installed nearby.
- Check the analogue broadcast. If the image quality is poor, check the aerial and consult your nearest dealer.

On Screen messages - I.e. EC/AV1

You can simply clear these ⇒ Press again to redisplay.





Q-Link function does not work

Please confirm SCART cable and connection. Also please set "AV1 / AV2 out" in the Setup Menu (p. 27).

"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. 46)

Recording does not start immediately

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

Permanently lit spots on screen

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

Contrast is reduced

- Contrast is lowered in the following conditions without any user operation for a few minutes:
 - no signal in DVB or AV mode
 - selected locked programme
 - selected invalid programme
 - selected radio service
 - displayed menu
 - Digital teletext (no video contents)
 - Thumbnail or still picture in SD Card mode

FAQs

Actions Problem Set "P-NR" in the Picture Menu (to remove noise). (p. 26) Chaotic image, noisy Check nearby electrical products (car, motorcycle, fluorescent lamp). No image can be • Is "Colour" or "Contrast" in the Picture Menu set to the minimum? displayed (p. 26)Blurry or distorted image Reset programmes. (p. 35) (no sound or low volume) Turn off the TV with Mains power On / Off switch, then turn it On Unusual image is displayed Is "Sound mute" active? (p. 9) No sound is produced Is the volume set to the minimum? Sound signal reception may be deteriorated.Set "NICAM" (p. 26) in the Sound Menu to "Off". Sound level is low or sound is distorted (Analogue only) The sound is from built-in cooling fan Whirling sound is heard (not a sign of faulty operation). • Due to the digital reception technologies involved, quality of the DTV signals may be relatively low in some cases, despite good reception of analogue programmes. Check "DVB Signal Condition". (p. 35) If "Signal Quality" or "Signal Strength" are displayed in red, check Interference or frozen / disappearing If problem persists, consult your local Panasonic dealer. image in DVB Turn the TV off with the Mains power On / Off switch, then turn it On again. Set the sound setting of the connected equipment to "2ch L.PCM". Sound is unusual Check the "HDMI1 / 3 Input" setting in the Sound Menu. (p. 26) If digital sound connection has a problem, select analogue sound connection. (p. 52) Pictures from external ● Is the HDMI cable connected properly? (p. 50) ● Turn Off the TV and equipment, then turn them On again. equipment are unusual Check an input signal from the equipment. (p. 54) when the equipment is Use an equipment compliant with EIA/CEA-861/861B. connected via HDMI Off Timer function is activated. TV goes into The TV enters "Standby mode" about 30 mins. after analogue "Standby mode" broadcasting ends. The remote control • Are the batteries installed correctly? (p. 6) • Has the TV been switched On? does not work Follow the message's instructions. An error message appears If the problem persists, contact the authorized Service Centre.

On screen messages

Message	Meaning / Action	
All tuning data will be erased	• "Shipping Condition" will erase all tuning data (p. 36).	
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.	
Child Lock is active! Press OK to enter PIN	▶ • The selected programme is locked in Child Lock (p. 33).	
Feature not available	It is not possible to record these sources (COMPONENT / HDMI / PC	
Invalid operation - Please check settings and connections	 Check the Q-Link or VIERA Link connection and setting (p. 44 - 4 	
Invalid system time. Please exit!	 Cannot get the time information. Check the connection of the RF cable. 	
Max. number of Timers already set !	The maximum number of timer programming events is 15.	
New DVB Service Found! Press OK start Auto Setup Press EXIT to Ignore. Selecting Auto Setup will delete current Profile and Childlock settings	▶ • There is a new DVB service or programme.	
New version 1.90 found. Do you really want to update the software and reboot the system? Press OK to download the new version Press EXIT to Ignore	▶ • There is a new software available.	
No DVB Service found Please check aerial or local DVB service availability. Press OK to start Auto Setup	Please follow the message. If it is still failed, consult your local Panasonic dealer.	
No module inserted	Check the CI module inserted completely (p. 31).	
No Recording - Check media	▶ • The tape or disc may be "write protected", missing or damaged.	
No Recording - Already recording	▶ • The equipment may already be recording.	
No Recording - Unknown reason	 The recording may not be performed. Check the equipment. Disc or tape may be full. 	
No Service	The broadcaster has stopped the service.	
No Signal	Check the connection of the RF cable.	
PIN incorrect!	■ The PIN number you entered is wrong.	
Please check settings and connections on HDMI devices.	Communication error in VIERA Link function (p. 46).	
Please wait.	A function is in progress.	
Recording this service now	 The recorder is recording the programme signal from its own tune You can turn the TV off and leave the equipment recording in the normal way. 	
Sending Preset Data Please wait!	 Q-Link or VIERA Link programme download is in progress. 	
Shipping condition completed. TV can now be switched off.	 "Auto Setup" will automatically start when Mains power On / Off switch is next turned On. (p. 12) 	
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. 31). If this is still unsuccessful, there may not be any new software available. 	
Timer already expired !	 Starting time in Timer Programming is already past. Set correctly (p. 41). 	
Timer Event Due to Start DVB 1: BBC1 has been Programmed for recording at 20:00	This message will appear 2 minutes before timer programming event due to start.	
Timer incorrect !	 Set Start and End times in Timer Programming correctly (p. 41). 	
Tuner Locked Please stop recording to operate	 If you want to unlock, cancel Direct TV Recording (p. 45 and p. 45 or Timer Programming (p. 40). 	
Unable to download, Check Equipment	▶ • The tape or disc is active. Stop the equipment and try again.	

Glossary

DVB

Digital Video Broadcasting

DVD

Digital Versatile Disc

■ DVI

Digital Visual Interface

■ EPG

Electronic Programme Guide

■ HDMI

High-Definition Multimedia Interface

■ NTSC

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

■ RF

Radio Frequency - Signal received from terrestrial aerial

■ RGB / S-Video / 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)

■ VCR

Video Cassette Recorder

Index

	Accessories Add New DVB Services Analogue Manual Tuning Aspect Audio Description Auto Setup AV1 / AV2 out	· 16, · 15, · 12, · 27,	35 52 26 35 45
В	Banner Display Timeout ······		27
	Category list	50,	33 31 ··8 54 50
D	Direct TV Recording Download to equipment D-sub 15-pin DVB Manual Tuning DVB Profile Edit DVB Settings DVB Signal Condition DVI DVDS	· 45, · 12, · 10,	47 27 54 35 32 30 35 52 22
E	EPG External equipment 10, External input Event recording	22, ·22,	20 50 39 21
F	FAQs Free input menu	55,	56 25
	GUIDE Plus+ Settings ······		
	HDMI	· 14, · 44,	19 49
	Information banner ····· Input Labels ····· Input signal ·····		15 38 54
L	Licence		59
M	Mains Lead		40
N	New Service Message NICAM NTSC		35 26

	Owner ID	12	6 , 37
Р	PAL PC Pedestal Photo View Picture Overscan PIN number		····7 ··42 ··27
_	PIN number P-NR Power LED		
Q	Q-Link Quick Start Guide	27, 44 6	, 45 3-13
	Remote control Reset to Default RGB		·· 26 ·· 59
S	Sales and Support Information Satellite receiver SCART SD Card Shipping Condition Slide show Specifications Split Programme Subtitles Surround S-Video System Update	14	·· 59 ·· 21 , 19 ·· 26 , 53 , 53
П	Teletext Timer LED Timer Programming Tuning Menu TV Guide TV speaker Type list	·· 9, 21	, 41 ··40 ··34 ··20 ··49 ··20
U	Update the software	31	, 53 . 38
V	Video		26
	WSS Zoom		

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http://www.europe.guideplus.com/

Specifications

	•		TH-42PZ80B	TH-46PZ80B	TH-50PZ80B
Power Source			AC 220-240 V, 50 / 60 Hz	•	
Power Display Consumption panel	Average use		385 W	470 W	495 W
Standby condition			0.4 W (Without monitor out recording) 20 W (With monitor out recording)		
g D	Aspect Ratio		16:9		
ispla anel	Visible screen size		106 cm (diagonal) 922 mm (W) × 518 mm (H)	117 cm (diagonal) 1,019 mm (W) × 573 mm (H)	127 cm (diagonal) 1,106 mm (W) × 622 mm (H)
Italibol of pixolo			2,073,600 (1,920 (W) × 1,080 (H)) [5,760 × 1,080 dots]		
Sound	Speaker		160 mm × 42 mm × 2 pcs, 8 Ω		
L ŭ	Audio Outpu		20 W (10 W + 10 W), 10% THE		
Headphones			M3 (3.5 mm) stereo mini Jack	× 1	
PC signals VGA, SVGA, XGA SXGA ······ (compressed) Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz					
Band	PAL I : UHF E21-68 PAL 525/60: Playback of NTSC tape from some PAL Video recorders (VCR) or NTSC disc playback from DVD player and recorder. DVB : Digital terrestrial services via UHF aerial input. M.NTSC: Playback from M.NTSC Video recorders (VCR). NTSC (AV input only): Playback from NTSC Video recorders (VCR).			,	
Aeria	al - Rear		UHF		
Ope	rating Conditi		Temperature: 0 °C - 35 °C Humidity: 20 % - 80 % RH (non-condensing)		
ုဂ္ဂ	AV1 (Scart te		21 Pin terminal (Audio/Video in	, Audio/Video out, RGB in, Q-Li	nk)
<u>ĭ</u>	AV2 (Scart te		21 Pin terminal (Audio/Video in, Audio/Video out, RGB in, S-Video in, Q-Link)		
ne		VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)	
≗.	AV3	S-VIDEO	Mini DIN 4-pin	Y:1.0 V[p-p] (75 Ω) C:0.286	V[p-p] (75 Ω)
의 의		AUDIO L - R		0.5 V[rms]	
Connection Terminals	COMPONENT	VIDEO	Y P _B , P _R	1.0 V[p-p] (including synchro ±0.35 V[p-p]	onization)
≅		AUDIO L - R	RCA PIN Type × 2	0.5 V[rms]	
nals	Others PC	TYPE A Connectors ■ This TV supports "HDAVI Co		.Color™)	
			HIGH-DENSITY D-SUB 15PIN	R,G,B/0.7 V[p-p] (75 Ω) HD, VD/TTL Level 2.0 - 5.0 V	V[p-p] (high impedance)
	Card slot		SD Card slot × 1		
			0.5 V[rms] (high impedance)		
Dimensions (W × H × D)		H×D)	(TV only)	(With Pedestal) 1,158 mm × 747 mm × 99.7 mm (TV only)	1,244 mm × 844 mm × 387 mm (With Pedestal) 1,244 mm × 790 mm × 99.7 mm (TV only)
Mass	s		34.0 kg Net (With Pedestal) 30.0 kg Net (TV only)	40.0 kg Net (With Pedestal) 35.0 kg Net (TV only)	43.0 kg Net (With Pedestal) 38.0 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



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 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.

Sales and Support Information

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.
- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic UK Ltd.
- 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.

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

TH-42PZ80B Declaration of Conformity No. 5260, 9 January 2008

TH-46PZ80B Declaration of Conformity No. 5276, 9 January 2008

TH-50PZ80B Declaration of Conformity No. 5274, 9 January 2008

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.