

Panasonic®

Operating Instructions LCD Television

Model No. **TX-26LMD70FA**
TX-32LMD70FA

VIERA



VIERA
Link

Q-Link

DVB®

TOP
TEXT

HD
ready

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

English

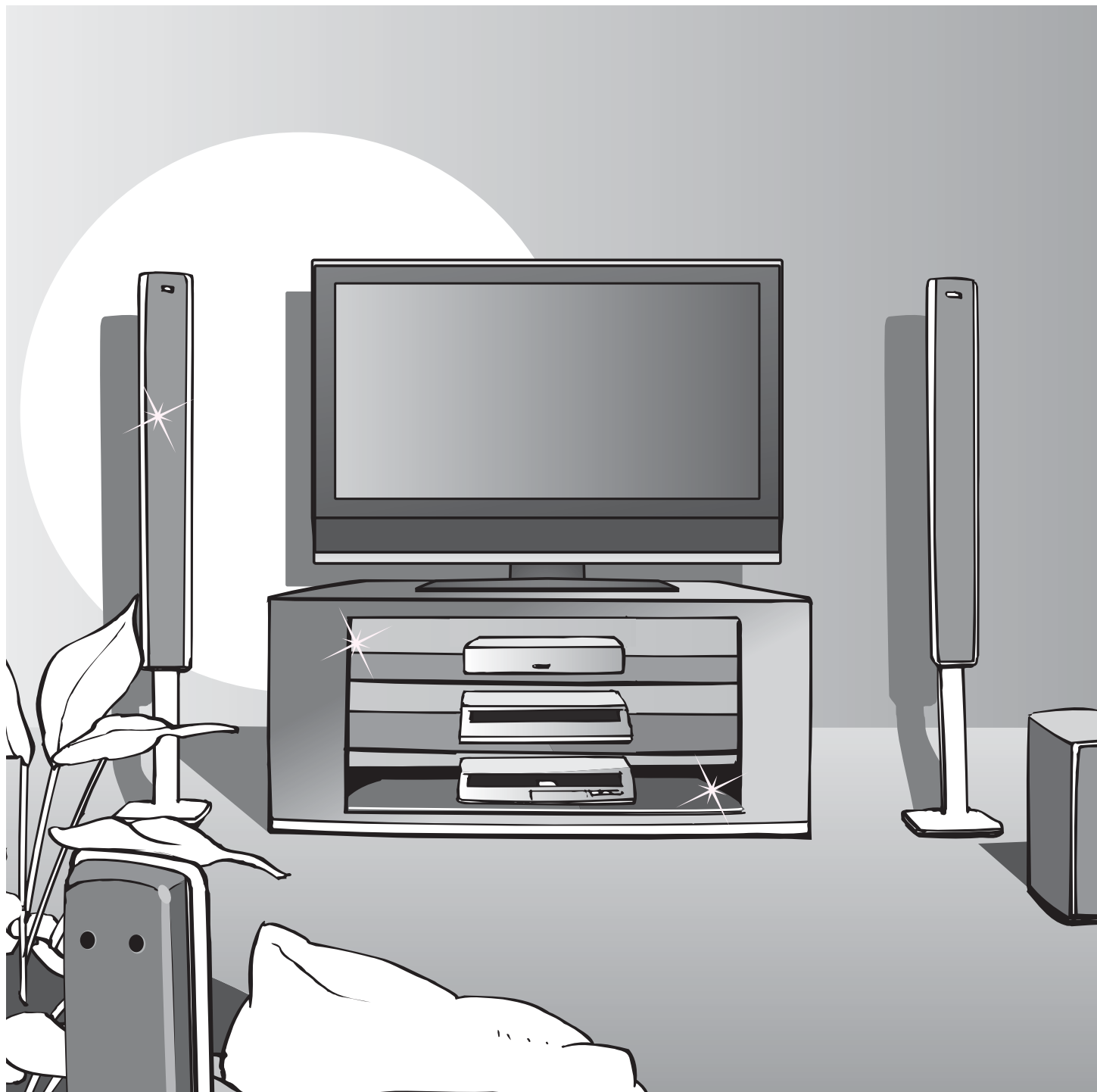
Please read these instructions before operating your set and retain them for future reference.
The images shown in this manual are for illustrative purposes only.



TQB0E0504U

Turn your own living room into a movie theatre!

Experience an amazing level of multi-

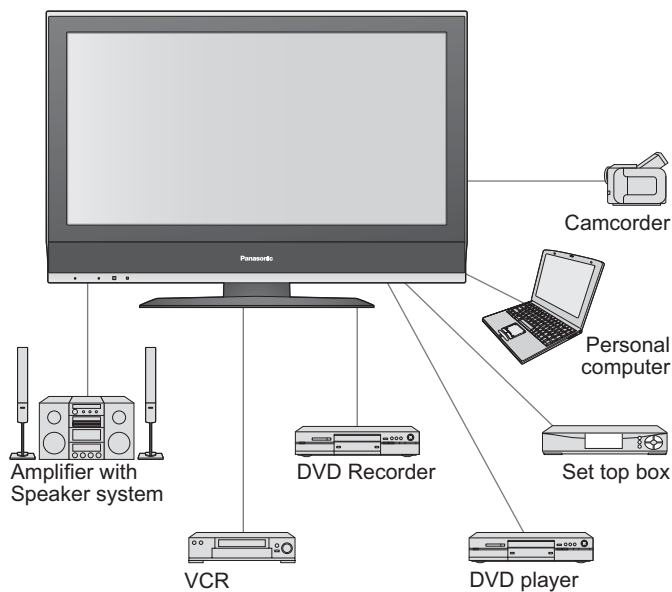


Notice for DVB functions

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

media excitement

Enjoy rich multi-media



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Enjoy your TV!

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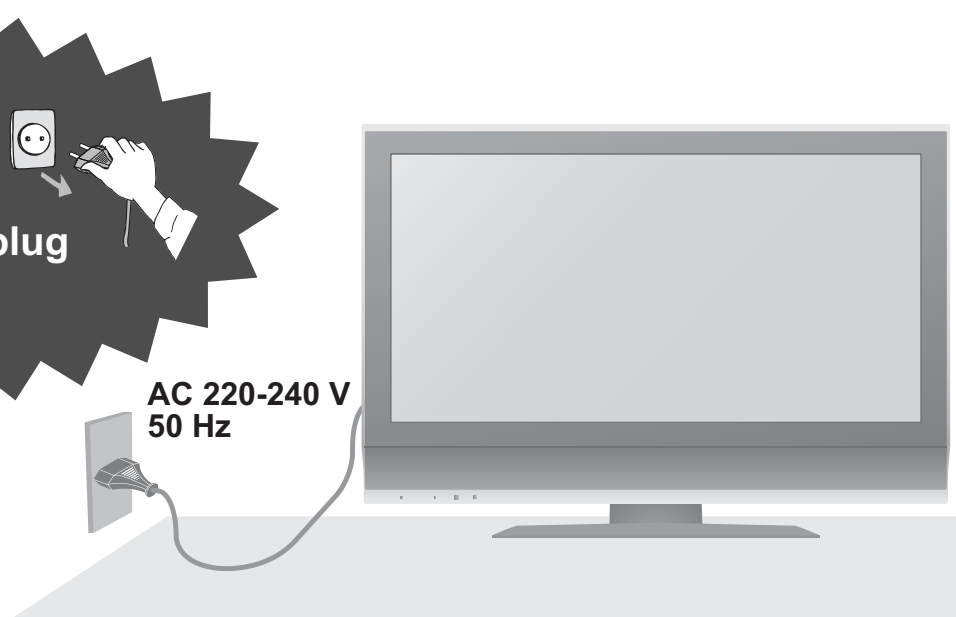
Safety Precautions

Warning

Handling the mains plug and lead

- Insert the mains plug fully into the socket outlet. (If the mains plug is loose, it could generate heat and cause fire.)
- Ensure that the mains plug is easily accessible.
- Do not touch the mains plug with a wet hand. (This may cause electrical shock.)
- Do not damage the mains lead. (A damaged lead may cause fire or electrical shock.)
 - Do not move the TV with the lead plugged in the socket outlet.
 - Do not place a heavy object on the lead or place the lead near a high-temperature object.
 - Do not twist the lead, bend it excessively, or stretch it.
 - Do not pull on the lead. Hold onto the mains plug body when disconnecting lead.
 - Do not use a damaged mains plug or socket outlet.

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



Do not remove covers **NEVER** modify the TV yourself

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

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

Do not place foreign objects inside the TV

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

Keep liquids away from the TV

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

Do not place the TV on sloped or unstable surfaces

- The TV may fall off or tip over.

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.

Use only the dedicated stands / mounting equipment

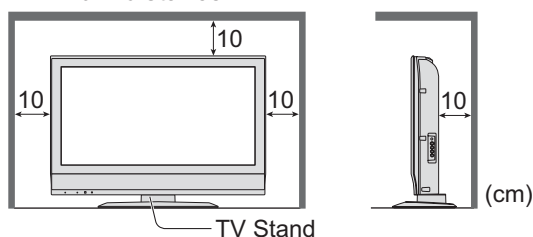
- Using an unauthorized stand or other fixtures may make the TV unstable, risking injury. Be sure to ask your local Panasonic dealer to perform setup.
- Use optional stands / mounts (p. 6).

Notes

Caution

- **When cleaning the TV, remove the mains plug**
(Cleaning an energized TV may cause electrical shock.)
- **Remove the mains plug from the wall socket when TV is not in use for a prolonged period of time. Remove the mains plug from the wall socket before connecting or disconnecting any leads.**
 - This TV will still consume some power even in the Standby mode, as long as the mains plug is still connected to a live socket outlet. On /Off switch see page 7.
- **Transport only in upright position**
 - Transporting the TV with its display panel facing upright or downward may cause damage to the internal circuitry.
- **Allow sufficient space around the TV for radiated heat**

Minimum distance



- **Do not block the rear air vents**

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



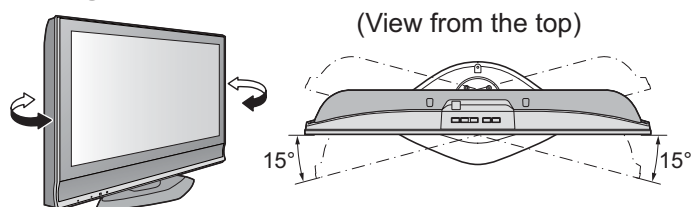
- **Auto power standby function**

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

- **Keep the TV away from these equipment**

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

- **Adjust the LCD panel to your desired angle**



- **Do not expose your ears to excessive sound pressure from headphones. Irreversible damage can be caused.**

Maintenance

First, remove the mains plug from the socket outlet.

Display panel

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

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

Caution

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

Cabinet

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

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

Caution

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

Mains plug

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

Accessories / Options

Standard accessories

- ☐ Remote Control Transmitter
- EUR7651110



- ☐ Operating Instructions

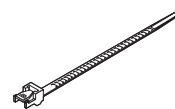
Check that you have the accessories and items shown ☒

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



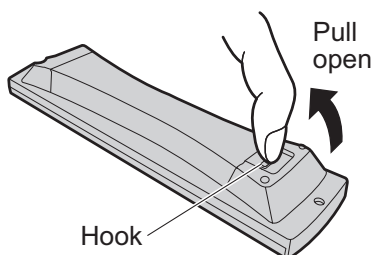
- ☐ Pan European Guarantee Card

- ☐ Clamper

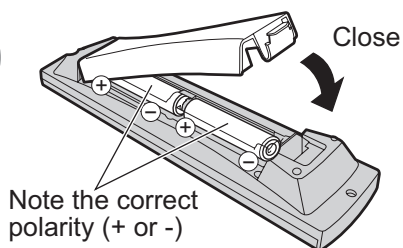


Installing remote's batteries

1



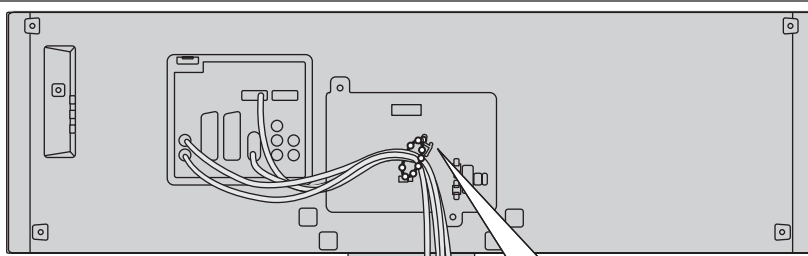
2



Caution

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

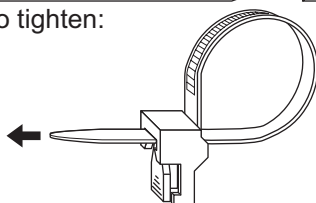
Using the clamper



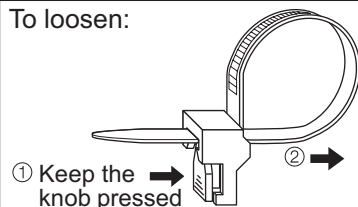
Rear of the TV

Clamper (Standard accessory)

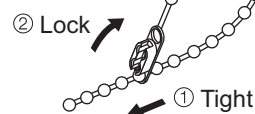
To tighten:



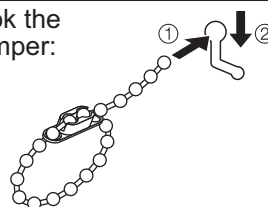
To loosen:



Bundle the cables:



Hook the clamper:

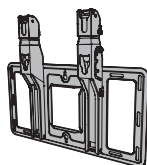


- Do not bundle the RF cable and mains lead together (could cause distorted image).
- Fix cables with clampers as necessary.
- When using the optional accessory, follow the option's assembly manual to fix cables.

Optional accessories

Wall-hanging bracket

- TY-WK32LR2W



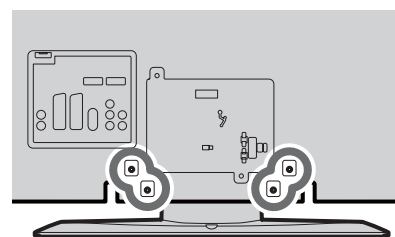
WARNING!

- Failure to use a Panasonic bracket or choosing to mount the unit yourself will be done at the risk of the consumer. Any damage resulting from not having a professional installer mount your unit will void your warranty.
- Always be sure to ask a qualified technician to carry out set-up. Incorrect fitting may cause equipment to fall, resulting in injury and product damage.
- Do not mount the unit directly below ceiling lights (such as spotlights, floodlights or halogen lights) which typically give off high heat. Doing so may warp or damage plastic cabinet parts.
- Take care when fixing wall brackets to the wall. Always ensure that there are no electrical cables or pipes in the wall before hanging bracket.

Please contact your nearest Panasonic dealer to purchase the recommended wall-hanging bracket. For additional details, please refer to the wall-hanging bracket installation manual.

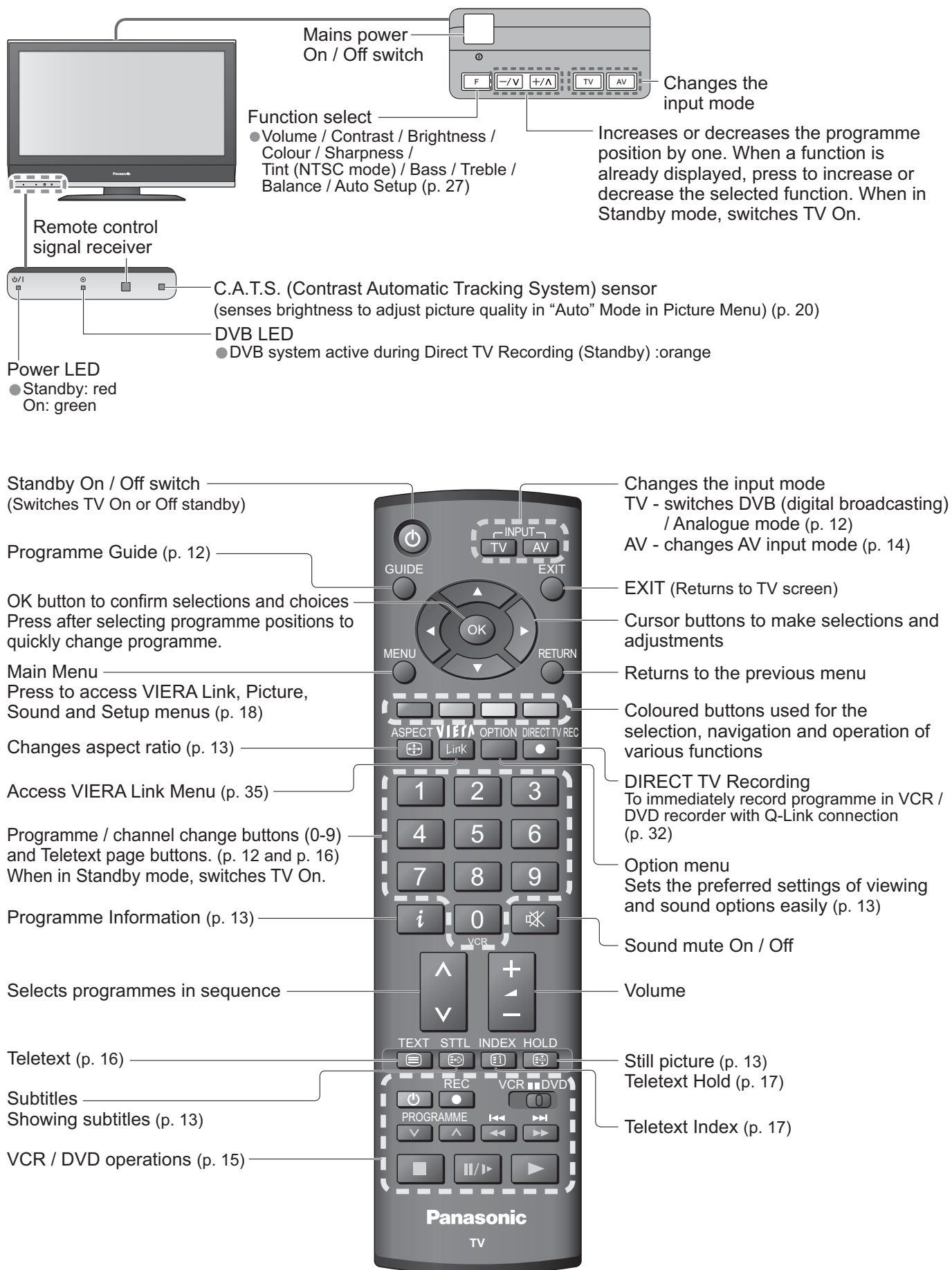
How to remove the TV Stand

Remove four screws.



Rear of the TV

Identifying Controls



Basic Connection

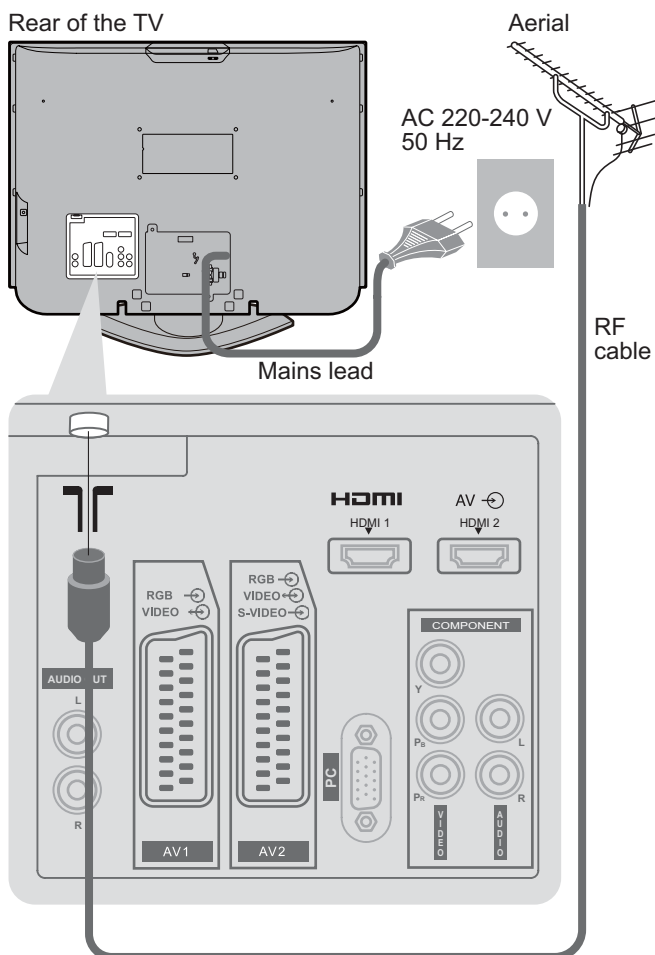
External equipment and cables shown are not supplied with this TV.

Please ensure that the unit is disconnected from the mains socket before attaching or disconnecting any leads.

Example 1 Connecting aerial

TV only

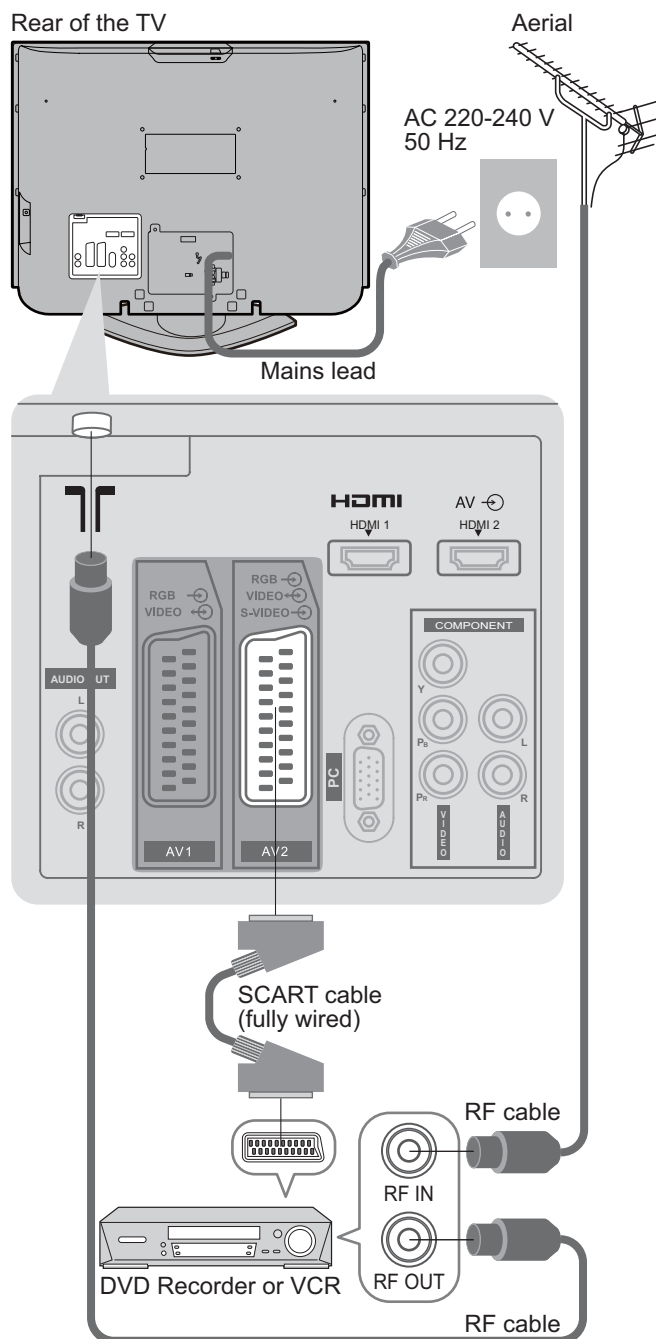
Rear of the TV



Example 2 Connecting DVD Recorder / VCR

TV, DVD Recorder or VCR

Rear of the TV



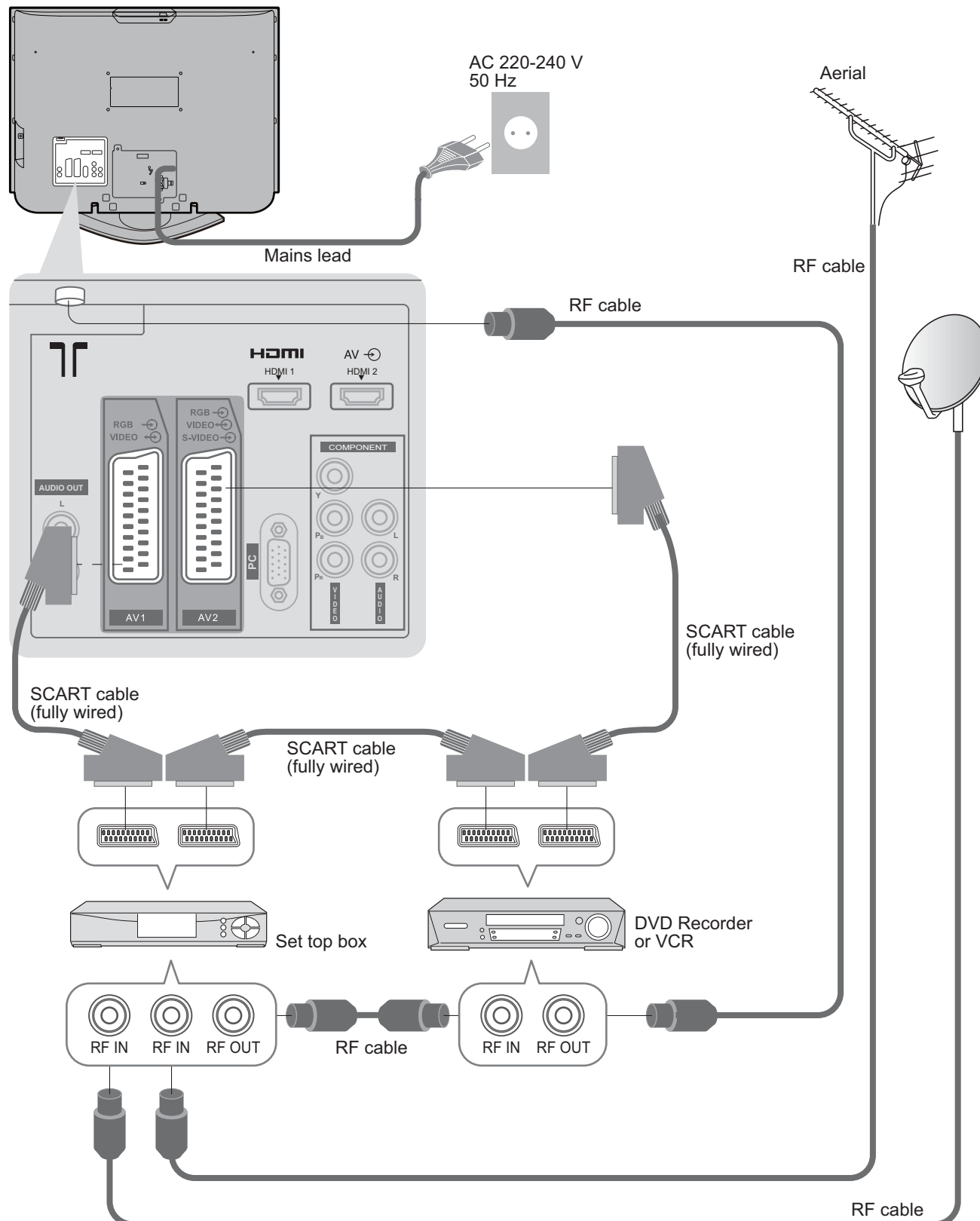
Note

- Connect to AV1 / 2 for a DVD Recorder / VCR supporting Q-Link (p. 32).

Example 3 Connecting DVD Recorder / VCR and Set top box

TV, DVD Recorder / VCR and Set top box

Rear of the TV



Auto Setup

Search and store TV channels automatically.

These steps are not necessary if the setup has been completed by your local dealer.

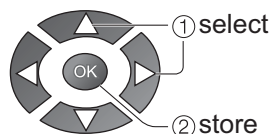
- 1 **Plug the TV into mains socket and switch On**
(Takes a few seconds to be displayed)



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

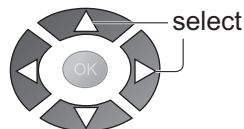
- 2 **Select the language**

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



- 3 **Select your country**

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



- 4 **Start Auto Setup**



Auto Setup - Digital and Analogue				
Digital Scan	5		69	
Analogue Scan	2	78	11	41
Channel	Service Name	Type	Quality	
62	CBBC Channel	DVB	10	
62	BBC Radio Wales	DVB	10	
62	BBC Radio Cymru	DVB	10	
62	E4	DVB	10	
62	Cartoon Nwk	DVB	10	
29		Analogue		
33	BBC1	Analogue	-	

This will take about 3 mins.

EXIT RETURN

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

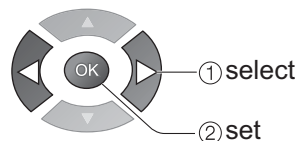
DOWNLOAD IN PROGRESS
PLEASE WAIT
Programme : 63
Remote control unavailable

- If a compatible recording equipment with Q-Link or similar technologies (p. 32) is connected, analogue channel information is automatically downloaded to the equipment.

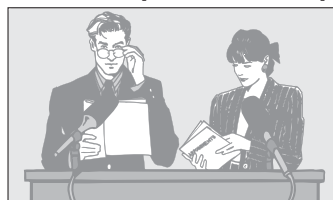
- 5 **Select the picture setting**

Viewing Mode			
Dynamic	Normal	Cinema	Auto

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



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



- To edit channels
➔ Editing Channels (p. 24)
Analogue Programme Edit (p. 27)

Using the On Screen Displays

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

■ How to use remote control

MENU



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

RETURN



Return to the previous menu

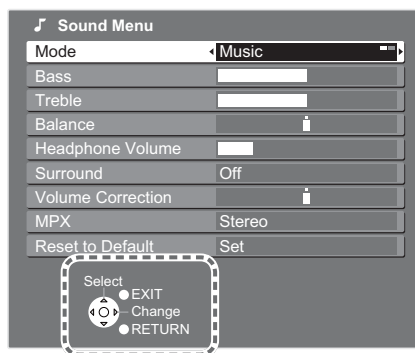
EXIT



Exit the menu system and return to the normal viewing screen

■ ON SCREEN HELP Instructions box

(example: Sound Menu)

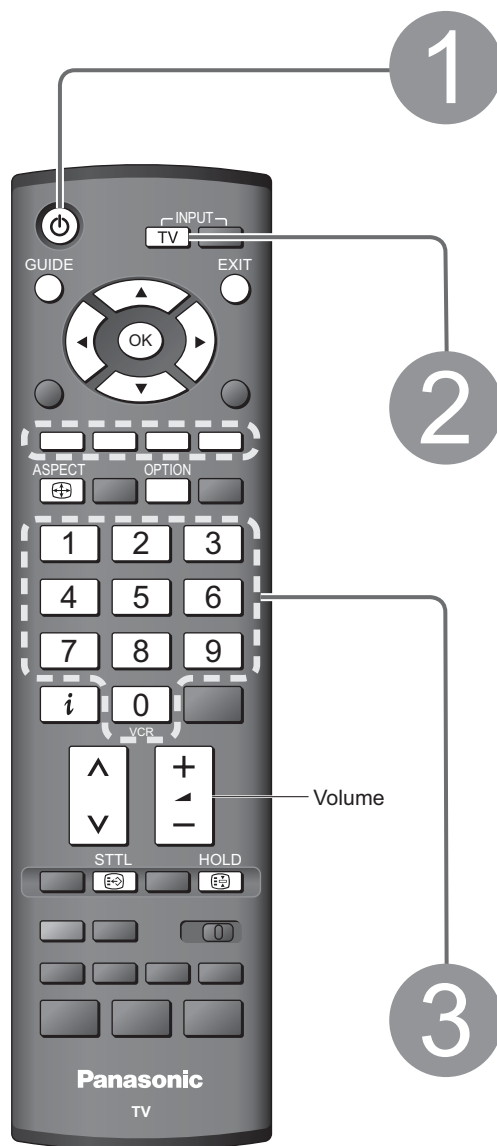


On-screen operation guide will help you.

Note

- If tuning have failed ➔ “Auto Setup” (p. 27).
- If downloading have failed ➔ “Download” (p. 21).
- If you turned the TV Off during Standby mode last time, the TV will be in Standby mode when you turn the TV On with Mains power On / Off switch.

Watching TV



1

Turn power on

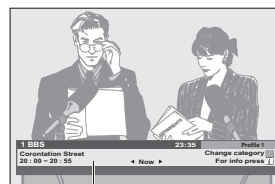
(Press for about 1 second)

- Mains power On / Off switch should be On.



2

Select DVB (Digital Video Broadcasting) or Analogue

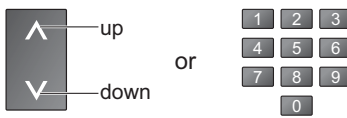


Information banner

- You can also select the mode using the TV button on the top panel of the TV.

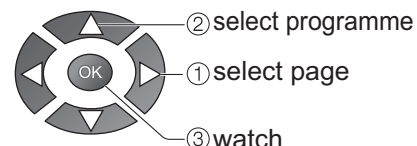
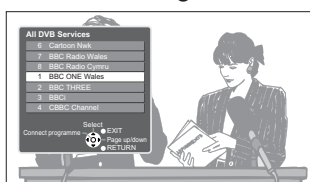
3

Select a channel



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


















- To select from the Programme Guide



Note

- To watch pay-TV (p. 23)

■ Other useful functions (Operate after ③)


Hold	Freeze / unfreeze picture 
Display subtitles	Display / hide subtitles (if available)  <ul style="list-style-type: none"> ● To change the language for DVB <ul style="list-style-type: none"> ➔ "Preferred Subtitles" (p. 21) (If available)
Display the current programme status	Check or change the current programme status instantly  <ul style="list-style-type: none"> ● To change ➔  <ul style="list-style-type: none"> ② change ① select <p>Preferred subtitles (DVB mode)</p> <ul style="list-style-type: none"> ➔ Possible if the programme has some languages of subtitles <p>Preferred Multi Audio (DVB mode)</p> <ul style="list-style-type: none"> ➔ Possible if the programme has some languages of sounds <p>Teletext Language</p> <ul style="list-style-type: none"> ➔ Setup Menu (p. 21) <p>MPX (Analogue mode)</p> <ul style="list-style-type: none"> ➔ Sound Menu (p. 20) <p>Volume Correction</p> <ul style="list-style-type: none"> ➔ Adjusts volume of individual channel or input mode <p>Note</p> <ul style="list-style-type: none"> ● Also possible to change the settings in Menu list (p. 20 and p. 21).
Display information banner	Display programme information   <p>Programme Channel Current time Category</p> <p>DVB: Programme Start / Finish time</p> <p>Analogue: Programme Status</p> <p>Bad Signal Encrypted</p> <p>Sound mute Scrambled broadcasting Subtitle</p> <p>Weak TV signal</p> <p>Profile 1</p> <p>Change category For info press 1</p> <p>To change the category ➔ blue</p> <p>Features available</p> <p>Off timer Stereo sound / multiple audio</p> <ul style="list-style-type: none"> ● Information of another channel ➔  ● Information on next programme (DVB) ➔  ● To watch the programme listed in the banner ➔  ● Information banner operation ➔  ● To set display timeout ➔ "Banner Display Timeout" (p. 21) ● To hide ➔  ● Appears also when changing channel. <p>1st press Display banner ➔ 2nd press Banner + programme synopsis (DVB) ➔ 3rd press Exit</p>
Change aspect ratio	Change the aspect ratio (p. 38)  <p>Enjoy viewing the picture at its optimum size and aspect.</p> <p>Aspect Selection list</p>  <ul style="list-style-type: none"> ● To change the mode <ul style="list-style-type: none"> ➔ Display Aspect Selection list  ➔ During the list is displayed, select the mode  ➔ Store  ● To change the mode using the ASPECT button only <ul style="list-style-type: none"> ➔  (Press repeatedly until you reach the desired mode)

Watching Videos and DVDs

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

To connect the equipment (p. 8 and p. 9)


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



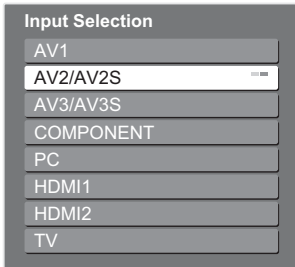
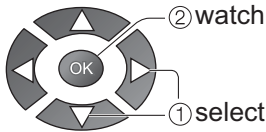
1 Turn the TV on

- **When connecting with SCART as example 2 or 3** (p. 8 and p. 9)
 - ➔ Receives input signals automatically when playback starts
 - Input signals are automatically identified by the SCART (pin 8) terminal.
 - This function is also available for HDMI connections (p. 35).
- **If input mode is not switched automatically**
 - ➔ Perform 2 and 3
 - Dependant on the setup of the equipment

2 Display the Input select menu



3 Select the input mode connected to the equipment


- You can also select the input using the AV button on the remote control or the top panel of the TV.
Press the button repeatedly until the desired input is selected.
- You can label or skip each input modes ➔ "Input Labels" (p. 30)

4 View

Displays the selected mode

AV2










■ **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.

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

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

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

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

② Press and hold  during the following operations

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



→ Press 

“VCR” position

Equipment	Code
VCR	10 (default)
DVD	11

“DVD” position

Equipment	Code
DVD	70 (default)
Player home theatre	71

Note

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

Viewing Teletext

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

What is FLOF (FASTTEXT) mode?


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


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

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

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

Available page up / down →  

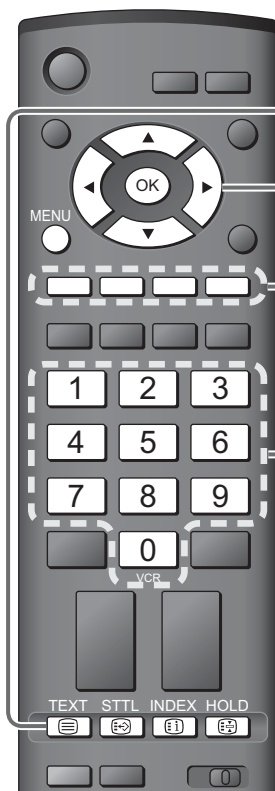
To select among subject blocks → 

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

What is List mode?

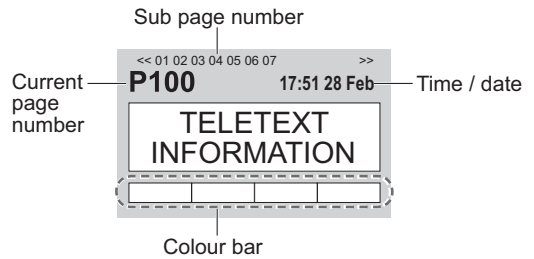
In List mode, four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory. ("Store frequently viewed pages", p. 17)

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



1 Switch to Teletext

TEXT ● Displays Index (content varies depending on the broadcasters)







2 Select the page

1 2 3
4 5 6
7 8 9
0
VCR


or

up
down

or




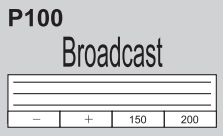
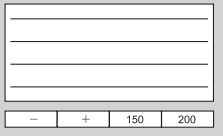
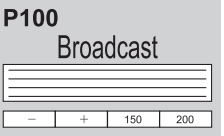
(Corresponds to the colour bar)










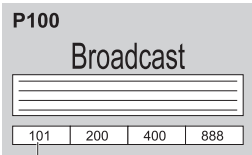





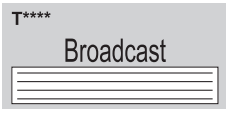
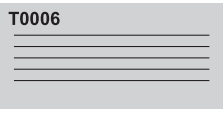


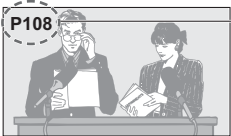

■ To adjust contrast → **MENU** (press thrice) → 

As the blue bar is displayed

■ To return to TV → **TEXT**

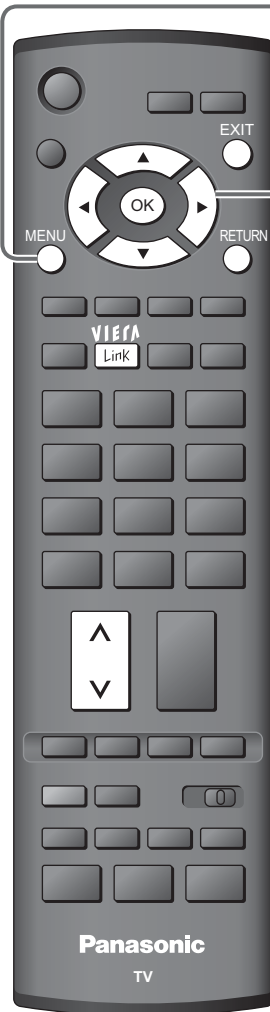
■ Using teletext conveniently

Reveal hidden data	Reveal hidden words e.g. quiz page answers MENU →  ● Re-hide → 		
FULL / TOP / BOTTOM	MENU → 	<div style="display: flex; justify-content: space-around;"> <div> P100 Broadcast  (Expand the TOP half) </div> <div> P100 Broadcast  (Expand the BOTTOM half) </div> </div>	<div style="display: flex; justify-content: space-around;"> <div> P100 Broadcast  Normal (FULL) </div> </div>

HOLD	<p>If you wish to hold the current page without updating</p> <p>Stop or resume automatic updating</p> <p>HOLD  ■ To resume → HOLD </p>
INDEX	<p>Return to the main index page</p> <p>INDEX  ● TOP (FLOF) / List mode</p>
Call up a favourite pages	<p>STTL  ● Call up the page stored in “blue”. ● Factory setting is “P103”. (Analogue mode only)</p>
View in multi window	<p>Watch TV and Teletext in two windows at once</p> <p>MENU  (Press twice) →  ● Select Picture and text On or Off</p> <p>● Operations can be made only in Teletext screen.</p> 
Store frequently viewed pages	<p>Store frequently viewed pages in the colour bar (List mode only)</p> <p>As page is displayed  Corresponding colour button → OK  press and hold</p>  <p>The number changes to white.</p> <p>■ To change stored pages</p> <p>→  Colour button you want to change → Enter new page number</p> <p>1 2 3 4 5 6 7 8 9 0 VCR</p> <p>→ OK  press and hold</p>
View sub page	<p>View sub page (Only when teletext is more than one page)</p> <p> <<01 02 03 04 05 Appears at upper-left corner of the screen</p> <p>■ To view specific sub page</p> <p>→ MENU  → blue </p> <p>T****  → Enter the 4-digit number example: P6</p> <p>0 0 0 6 </p> <p>● Sub pages: The number of sub pages varies depending on the broadcasters (up to 79 pages). It may take some time for searching, during which time you can watch TV.</p>
Watch TV while waiting for update	<p>View the TV picture while searching for a teletext page</p> <p>Teletext automatically updates itself when new information becomes available. Changes to TV screen temporarily</p> <p>MENU  → yellow  →  Appears when updating is completed → yellow  → View the updated page</p> <p>(You cannot change the channel.)</p> <p>● The news page provides a function that indicates arrival of latest news (“News Flash”).</p>

How to Use Menu Functions

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



1 Display the menu

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

2 Select the menu

VIERA Main Menu
VIERA Link
☐ **Picture**
 Sound
 Setup

(example: Picture Menu)

3 Select the item

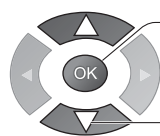

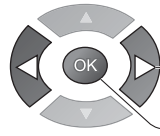
☐ **Picture Menu** 1/2
Viewing Mode ◀ Dynamic ▶
Contrast ◀ ◯ ▶
Brightness ◀ ◯ ▶
Colour ◀ ◯ ▶
Sharpness ◀ ◯ ▶
Colour Balance ◀ Normal ▶
Colour Management ◀ On ▶
P-NR ◀ Off ▶

(example: Picture Menu)

4 Adjust or select

☐ **Picture Menu** 1/2
Viewing Mode ◀ Dynamic ▶
Contrast ◀ ◯ ▶
Brightness ◀ ◯ ▶
Colour ◀ ◯ ▶
Sharpness ◀ ◯ ▶
Colour Balance ◀ Normal ▶
Colour Management ◀ On ▶
P-NR ◀ Off ▶

(example: Picture Menu)

■ To return to TV at any time



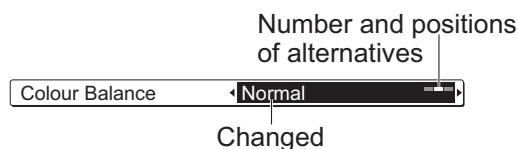
■ To return to the previous screen



Note

- To initialize all settings
→ "Shipping Condition" (p. 29)

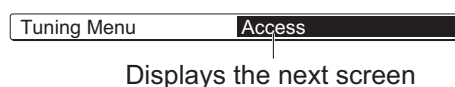
■ Choose from among alternatives



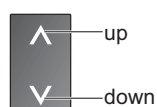
■ Adjust using the slide bar



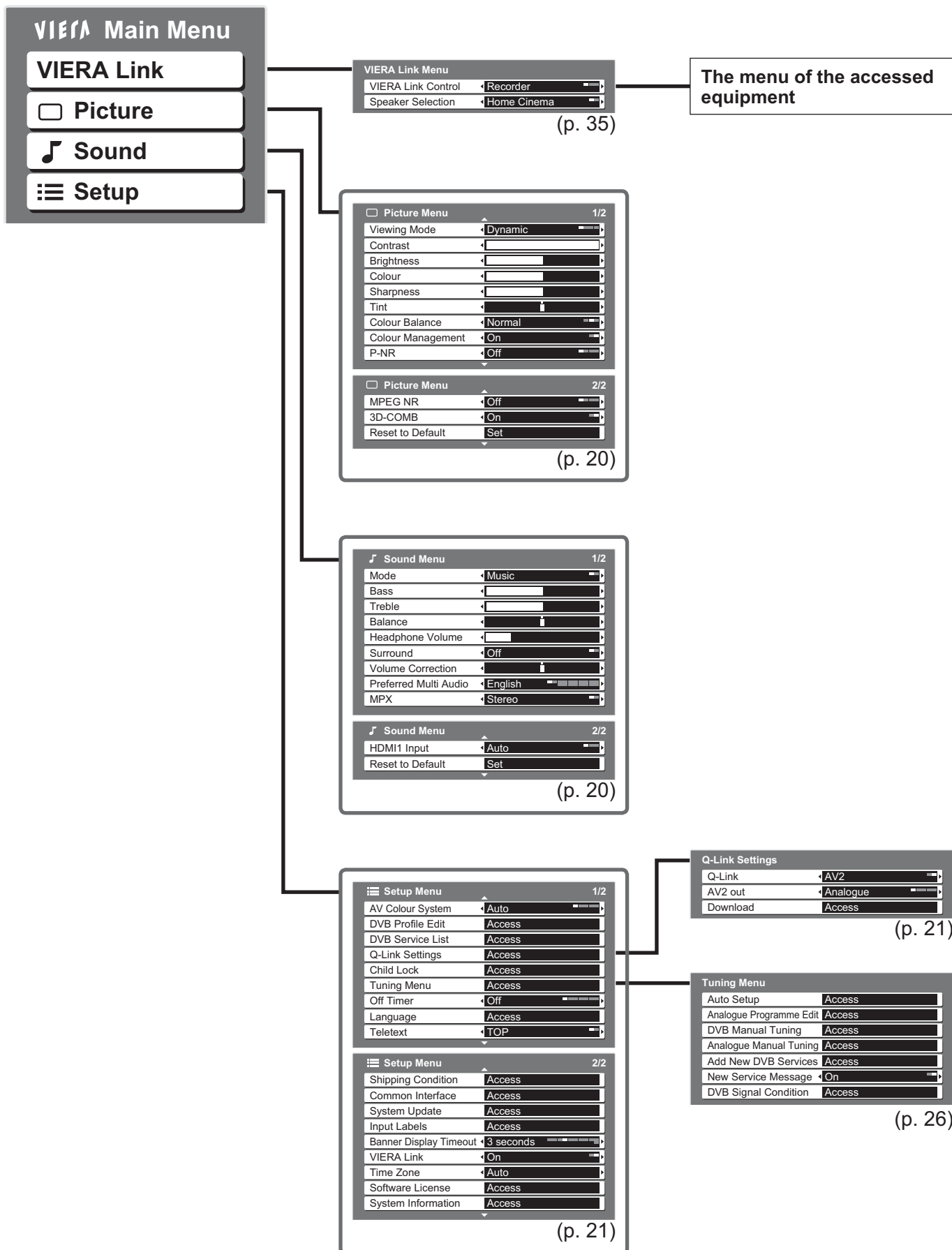
■ Go to the next screen



■ To change menu pages



Overview



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

Advanced

● Only available items can be selected.

How to Use Menu Functions

■ Menu list

Menu	Item	Adjustments / Configurations (alternatives)
VIERA Link	VIERA Link Control	Controls the connected Panasonic equipment “Easy control only with VIERA remote control” (p. 35) “Speaker control” (p. 35)
	Speaker Selection	● You can also access VIERA Link Menu directly using the VIERA Link button on the remote control.
Picture	Viewing Mode	Basic picture mode (Dynamic / Normal / Cinema / Auto) ● Set for each input signal
	Contrast, Brightness, Colour, Sharpness	Adjusts colour, brightness, etc. for each picture mode to suit your taste
	Tint	Adjusts tint of image ● For NTSC signal reception only
	Colour Balance	Chooses the colour balance of the entire image (Cool / Normal / Warm)
	Colour Management	Automatically adjusts colours to vivid ones (Off / On) ● Not valid on PC signal
	P-NR	Picture Noise Reduction Automatically reduces unwanted picture noise (Off / Normal / Dynamic / Auto) ● Not valid on HDMI, PC signal or DVB
	MPEG NR	Automatically reduces noise for watching DTV, DVD and VCD (Off / Min / Mid / Max)
	3D-COMB	Automatically makes still pictures and slow pictures look more vivid (Off / On) ● For PAL or NTSC signal reception only ● Not valid on RGB, S-Video, components, PC and HDMI
	Reset to Default	Press the OK button to reset the present Picture Mode to the default settings
Sound	Mode	Basic sound mode (Music / Speech)
	Bass	Adjusts the output level of deep bass
	Treble	Adjusts the output level of high-pitch, shrill sound
	Balance	Adjusts volume level of right and left speakers
	Headphone Volume	Adjusts the volume of the headphones
	Surround	Surround sound settings (Off / On) Provides a dynamic enhancer to simulate improved spatial effects
	Volume Correction	Adjusts volume of individual channel or input mode
	Preferred Multi Audio	Selects the preferred language for DVB multi audio (depending on the broadcaster)
	MPX	Select stereo / monaural (Mono / Stereo) ● Normally: Stereo ● Stereo signal cannot be received: Mono ● M1 / M2: Available while mono signal is transmitted ● Analogue mode only
	HDMI1 Input	Select to fit the input signal (Auto / Digital / Analogue) (p. 33) Auto : Automatic detection of digital or analogue sound source Digital : HDMI cable connection Analogue : HDMI-DVI adapter cable connection ● HDMI input mode only ● HDMI2 terminal is for digital signal only ● No setting for HDMI2 available
	Reset to Default	Press the OK button to reset the present Sound Mode to the default settings

■ Menu list

Menu	Item	Adjustments / Configurations (alternatives)
Setup	AV Colour System	Selects optional colour system based on video signals in AV mode (Auto / PAL / SECAM / M.NTSC / NTSC)
	DVB Profile Edit	Creates list of favourite programmes (p. 25)
	DVB Service List	Skips the unwanted DVB channels (p. 25)
	Q-Link Settings	Q-Link Selects which AV terminal is to be used for data communication between this TV and a compatible recording equipment (AV1 / AV2) (p. 32)
		AV1 / AV2 out Chooses the signal to be transmitted from the TV to Q-Link (Analogue / DVB / AV1 / AV2 / AV3 / Monitor) ● Monitor: Image displayed on screen ● Component, PC and HDMI signals cannot be outputted
		Download Downloads analogue channel information to a Q-Link compatible equipment connected to the TV
	Child Lock	Locks a programme channel to prevent access to it (p. 25)
	Tuning Menu	Auto Setup Automatically sets the channels received in the area (p. 27)
		Analogue Programme Edit Edits analogue channels (p. 27)
		DVB Manual Tuning Sets the DVB channels manually (p. 28)
		Analogue Manual Tuning Sets the analogue channels manually (p. 28)
		Add New DVB Services Adds new DVB services (p. 28)
		New Service Message Selects whether to give a notification message when a new DVB service is found (p. 28)
		DVB Signal Condition Checks the DVB signal condition (p. 28)
	Off Timer	Sets the time the TV automatically turns Off (Off / 15 / 30 / 45 / 60 / 75 / 90 minutes)
	Language	OSD Language Changes language for on-screen displays
		Teletext Language Selects teletext language (West / East1 / East2) ● West: English, French, German, Greek, Italian, Spanish, Swedish, Turkish ● East1: Czech, English, Estonian, Lettish, Rumanian, Russian, Ukrainian ● East2: Czech, Hungarian, Lettish, Polish, Rumanian
		Preferred Subtitles Selects the preferred language for DVB subtitles (depending on the broadcaster) ● To display subtitles ➔ p. 13
	Teletext	Teletext display mode (TOP (FLOF) / List) (p. 16)
	Shipping Condition	Resets all settings, for example, when moving house (p. 29)
	Common Interface	Uses to watch pay-TV (p. 23)
	System Update	Downloads new software to TV (p. 23)
	Input Labels	Labels or skips each input terminals (p. 30)
	Banner Display Timeout	Sets how long the information banner (p. 13) stays on screen ● 0 (No display) to 10 sec. in 1-sec. increments
	VIERA Link	Sets to use VIERA Link functions (Off / On) (p. 34)
	Time Zone	Adjusts the time data (p. 23)
	Software License	Displays the software licence information
	System Information	Displays the system information of this TV

● A different menu will be displayed while PC is used. (p. 31)

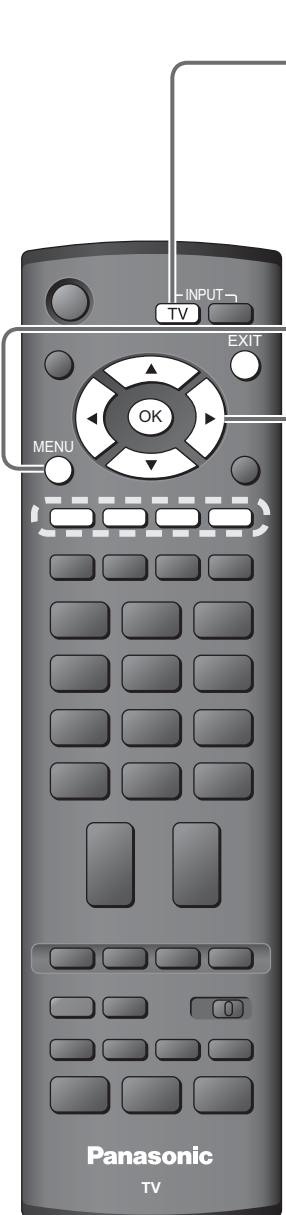
● Only available items can be selected.

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

Advanced

DVB Settings (DVB mode)

DVB Settings provide access to various advanced features.



1 If in Analogue mode
Select DVB

2 **Display the menu**

3 **Select “Setup”**

4 **Select “Common Interface”, “System Update” or “Time Zone”**

5 **Set**

■ **To return to TV**
EXIT

VIERA Main Menu

VIERA Link
Picture
Sound
Setup

Setup Menu 2/2

Common Interface	Access
System Update	Access
Input Labels	
Banner Display Timeout	3 seconds
VIERA Link	On
Time Zone	Auto
Software License	
System Information	

② access
① select

② access
① select

Pay-TV

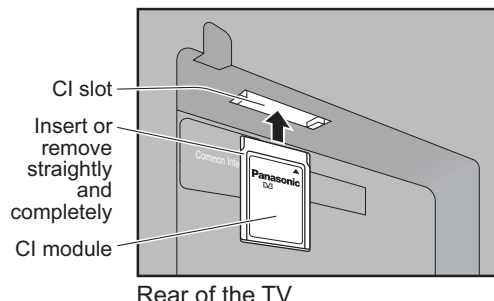
Common Interface

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

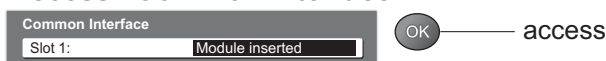
- Turn Off Mains power On / Off switch whenever inserting or removing the CI module.
- If a view card and a card reader come as a set, first insert the card reader, then insert the view card into the card reader.
- Do not insert the module up side down.



① Insert the CI module (optional)

- The features that appear on screen are dependent on the contents of the selected CI module.
- Normally pay-TV services will appear without ② and ③. If pay-TV services 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 ◀ ▶ ▲ ▼ →

Coloured characters → red green yellow blue

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

Download new software to TV.

- For details (p. 39)

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.

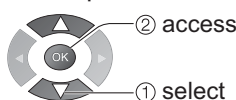
Select "Auto Update Search in Standby" and then set "On" or "Off"



- 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 min.) and displays a corresponding message if any

Download



- Download may take for about 20 min.

Update TV's software system

System Update

Adjust the time data automatically

Time Zone

Set the time




Auto : The time data will be adjusted according to your area automatically.
Others: The time data will be corrected based on GMT.

Editing Channels

You can make your favourite channel lists, skip unwanted channels and control channel audience.


- 1

Select DVB or Analogue



● “DVB Profile Edit” and “DVB Service List” are available in DVB mode only.
- 2

Display the menu


- 3

Select “Setup”

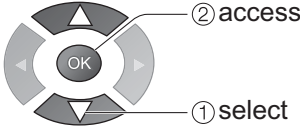
VIERA Main Menu

VIERA Link

Picture

Sound

Setup


- 4

Select “DVB Profile Edit”, “DVB Service List” or “Child Lock”

Setup Menu 1/2

DVB Profile Edit Access

DVB Service List Access

Q-Link Settings

Child Lock Access

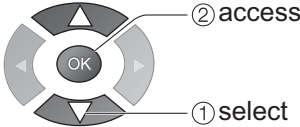
Tuning Menu

Off Timer Off

Language


Teletext TOP

Shipping Condition



■ To return to TV

→ EXIT



5

Set _____

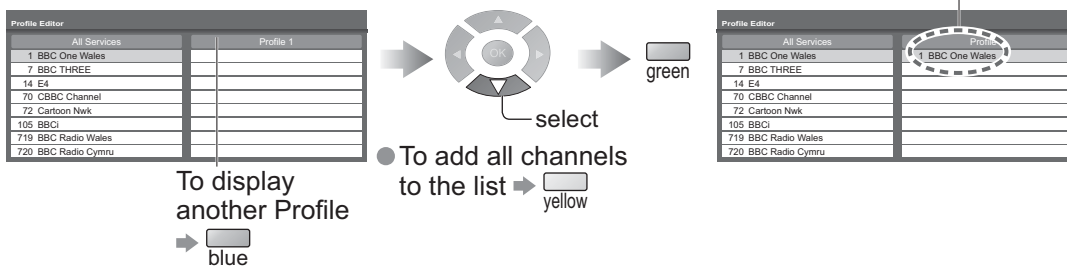
**DVB
Profile Edit**
(DVB mode)

DVB Service List (DVB mode)

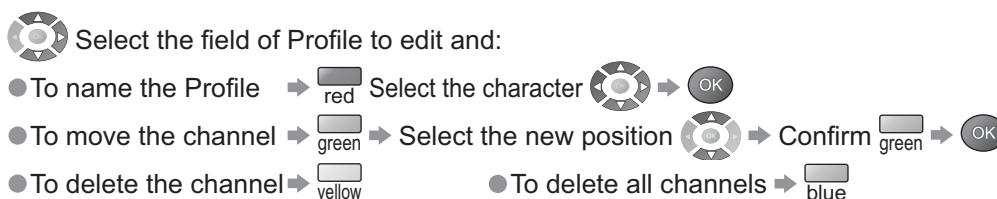
Child Lock

Create your favourite channel list (Profile) from various broadcasters (up to 4: Profile 1 to 4). The list is displayed in information banner (p. 13) and then easily accessed.

① Select a channel and add it to the list



■ To edit Profile

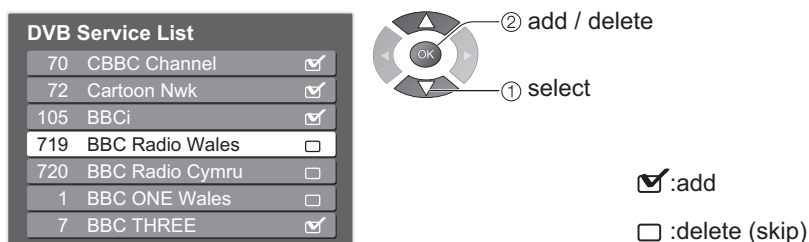


② **Store**



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

Select a service and add / delete



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

① **Enter the PIN number (4 digits)**

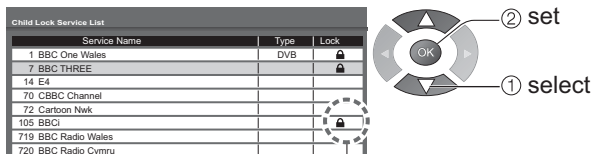


- Enter the PIN number twice at first setting.
- Make a note of the PIN number in case you forget it.




② **Select “Child Lock Service List”**



③ Select the channel to be locked



Appears when the channel is locked

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

■ To change the PIN number

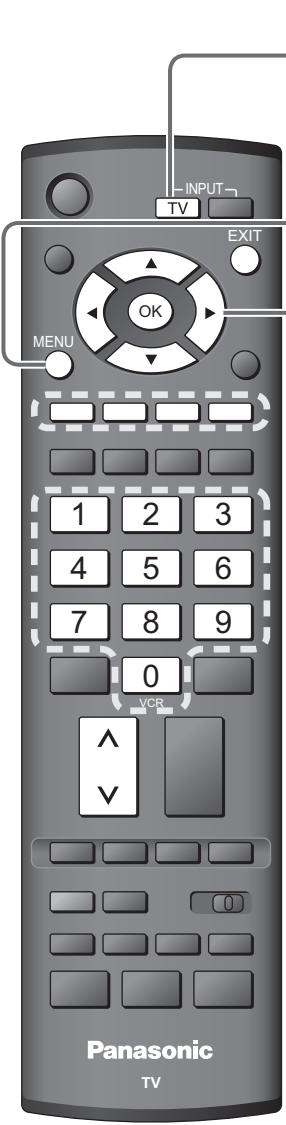
Select "Change PIN" in ② and enter a new PIN number twice.

Note

- Setting “Shipping Condition” (p. 29) erases the PIN number and all settings.

Tuning Channels

You can re-tune all TV channels when moving house or search for new services which may have recently started broadcasting.



1 **Select DVB or Analogue**

TV

- “DVB Manual Tuning”, “Add New DVB Services”, “New Service Message” and “DVB Signal Condition” are available in DVB mode only.
- “Analogue Programme Edit” and “Analogue Manual Tuning” are available in Analogue mode only.

2 **Display the menu**

MENU

3 **Select “Setup”**

VIERA Main Menu	
VIERA Link	
Picture	
Sound	
Setup	

② access
① select

4 **Select “Tuning Menu”**

Setup Menu 1/2	
DVB Profile Edit	
DVB Service List	
Q-Link Settings	
Child Locks	
Tuning Menu	Access
Off Timer	Off
Language	
Teletext	TOP
Shipping Condition	

② access
① select

5 **Select a function**

Tuning Menu	
Auto Setup	Access
Analogue Programme Edit	Access
DVB Manual Tuning	Access
Analogue Manual Tuning	Access
Add New DVB Services	Access
New Service Message	On
DVB Signal Condition	Access

② access
① select

6 **Set**

■ **To return to TV**

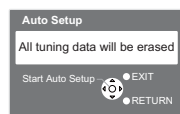
EXIT

Set DVB and Analogue channels automatically

Auto Setup

Automatically set the DVB and Analogue channels received in the area.
If a Child Lock PIN number (p. 25) has been set, it must be entered.

Start Auto Setup



Settings are made automatically

Auto Setup - Digital and Analogue			
Digital Scan	5	79	1
Analogue Scan	2	79	1
Channel	Source Name	Type	Locality
62	CBSB Channel	DVB	10
62	BBC Radio Wales	DVB	10
62	BBC Radio Cornu	DVB	10
62	E4	DVB	10
62	Cartoon Net	DVB	10
29	BBC1	Analogue	-
33	...	Analogue	-

- All previous settings are erased.
- The analogue settings are downloaded to a Q-Link compatible equipment connected to the TV.
- When the operation is completed, the digital broadcast of programme number "1" will appear. If no DVB services are found, the analogue broadcast will appear.
- If tuning has not done completely ➡ "DVB Manual Tuning", "Analogue Manual Tuning"

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

- 1 Press repeatedly until "Auto Setup" appears



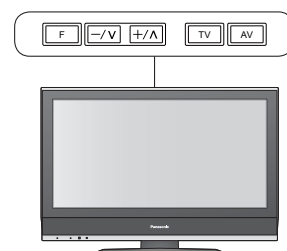
- 2 Access "Auto Setup"



- 3 Start "Auto Setup"



■ To return to TV ➡



Edit the analogue programme position settings

- To change channel number ➡ "Analogue Manual Tuning" (p. 28)

- 1 Select the channel to edit

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



select

Cursor

Name			
Channel	3 FTP	23:35	Profile 1
Coronation Street			
CH05 SC1 PAL			
Change category			

- 2 Edit

■ To delete ➡ red

➡ After confirming, press red

■ To add ➡ green

➡ After confirming, press green

■ To move ➡ yellow

➡ Select new position ➡ yellow

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

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



Select the "Name" field



Enter the "User Input" mode



Select the character



Set

(Maximum: five characters)

- To change sound system based on signals

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



Select the "Sound Sys." field



Select sound system

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

- To change colour system based on signal

- Normally, select "Auto"

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



Select the "Colour Sys." field



Select colour system

Edit Analogue channels

Analogue Programme Edit

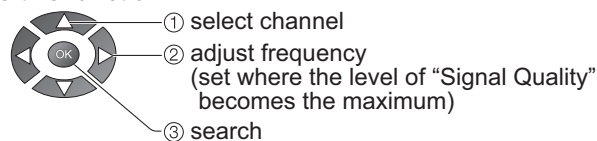
- Delete
- Add
- Move
- Change name
- Change sound system
- Change colour system

Tuning Channels

Set DVB channel manually

DVB Manual Tuning

Normally use "Auto Setup" or "Add New DVB Services" for the DVB channel setting. If tuning has not done completely, use this function.



- All services found will be added to the DVB Service List (p. 25) automatically.

Set Analogue channel manually

Analogue Manual Tuning

■ Fine Tuning

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

■ Manual Tuning

Set Analogue channel manually after Auto Setup.

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

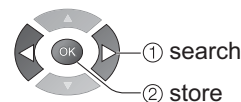
Select the programme position



Select the channel



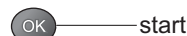
Search and store



Add DVB channel automatically

Add New DVB Services

Any new services found will be added to the DVB Service List (p. 25) automatically.



- 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)**

- Selecting OK (Auto Setup) will delete current Profile and Childlock settings.

Check DVB signal

DVB Signal Condition

Selects a channel and checks the DVB signal condition. Use for adjusting the direction of the aerial.

- To change the programme during the menu appears ➡

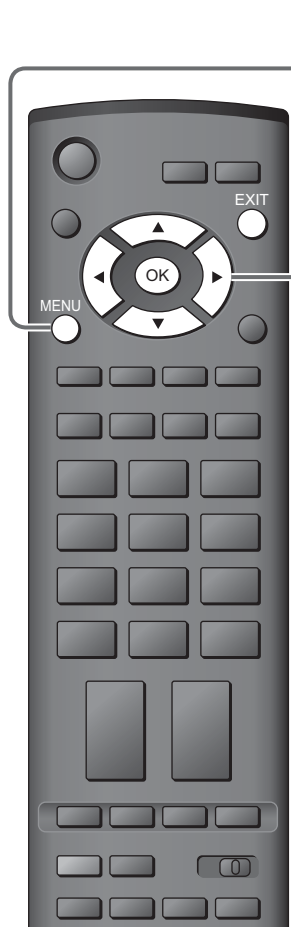


Signal Quality:

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

Restore Settings

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

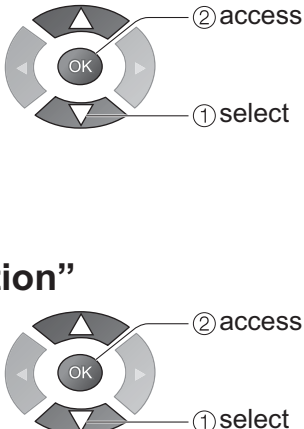


1 Display the menu
MENU

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

3 Select "Shipping Condition"
Setup Menu 1/2
DVB Profile Edit
DVB Service List
Q-Link Settings
Child Lock
Tuning Menu
Off Timer Off
Language
Teletext TOP
Shipping Condition Access

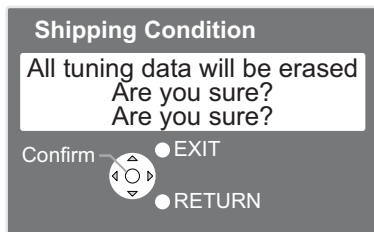
4 Set
EXIT



■ To return to TV



① Check the message and initialise



OK — set

② Follow the on-screen instructions

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

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

- ➔ "Auto Setup" (p. 27)

Restore
Settings

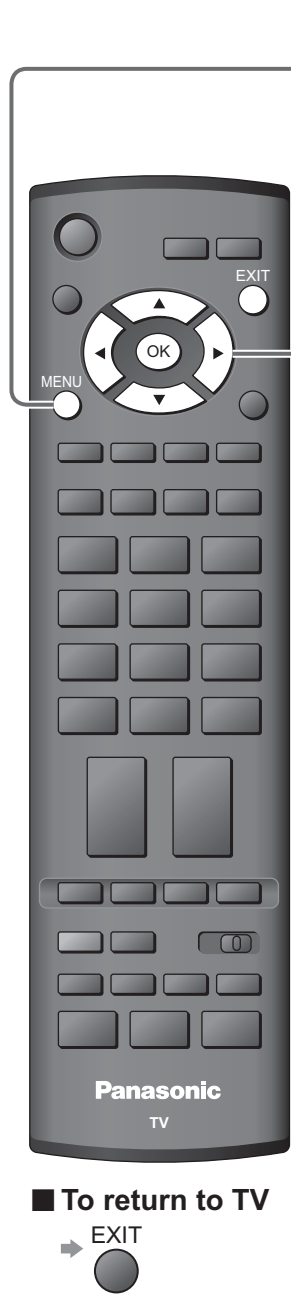
Shipping
Condition

● Restore Settings
● Tuning Channels

Advanced

Input Labels

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



1 Display the menu

MENU

2 Select "Setup"

VIERA Main Menu
VIERA Link
Picture
Sound
Setup

3 Select "Input Labels"

Setup Menu 2/2
Common Interface
System Update
Input Labels Access
Banner Display Timeout 3 seconds
VIERA Link On
Time Zone Auto
Software License
System Information

4 Select a input terminal and set

Input Labels
AV1 AV1
AV2/AV2S AV2/AV2S
AV3/AV3S AV3/AV3S
COMPONENT COMPONENT
PC PC
HDMI1 HDMI1
HDMI2 HDMI2

② access

① select

② access

① select

② set

① select

■ **To return to TV**

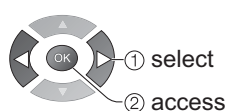
➡ EXIT

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

■ User Input

You can name each input terminals freely.

Select "User Input"

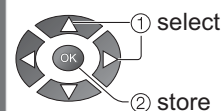


Set characters

User Input

Name AV1

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



(maximum: ten characters)

Displaying PC Screen on TV

The screen of the PC connected to the TV can be displayed on the TV.
You can also listen to PC sound with the audio cable connected. To connect PC (p. 36)

1

Select the external input

2

Select "PC"

Input Selection

AV1

AV2/AV2S

AV3/AV3S

COMPONENT

PC

HDMI1

HDMI2

TV

② access

① select

● Corresponding signals (p. 40)

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

■ To return to TV
→

■ PC menu setting (changed as desired)
● To make settings → "How to Use Menu Functions" ① to ④ (p. 18)

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

● Other items → p. 20 and p. 21

Q-Link Functions

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

■ Condition

- Use the VCR / DVD recorder with the following logos:
“Q-Link”, “NEXTVIEWLINK”, “DATA LOGIC”, “Easy Link”, “Megalogic”, or “SMARTLINK”
- Connect the equipment to this TV’s AV1 or AV2 terminal via a “fully-wired” SCART cable. (p. 36)
- Q-Link terminal setup in Setup menu (Q-Link, AV1 / AV2 out). (p. 21)

■ Download analogue channel settings

- Perform Auto Setup. (p. 27)
When first using this TV, see “Auto Setup”. (p. 10)
- Perform download to the equipment. (p. 21)

■ Features available

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

What you
see is
What you
record



Direct TV Recording:

Recording the current programme in VCR / DVD recorder immediately.

- When Direct TV Recording is performed, the recording equipment is automatically turned on if it is in Standby mode.
- The recording equipment is recording from its own tuner. You can turn the TV off during recording (Analogue only).
- If you turn the TV off during recording from an AV source, the recording will be stopped.
- When Direct TV Recording is performed while watching DVB channel, the DVB programme position is locked and no other DVB channel can be selected. However you can watch analogue channels.

■ To change DVB channel, stop recording



Information / Message

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

Power on link and Easy playback

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

Power off link

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

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

Read the manuals of the equipment too.

- “Megalogic” (a trademark of Grundig Corporation)
- “SMARTLINK” (a trademark of Sony Corporation)

HDMI Functions

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

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

About connections, see “External Equipment” (p. 36).

Note

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI1 terminal via a DVI to HDMI adapter cable (*2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal (HDMI1: use COMPONENT-AUDIO terminals).
- Audio settings can be made on the “HDMI1 Input” menu screen. (p. 20)
- Applicable audio signal sampling frequencies (2ch L.PCM): 48 kHz, 44.1 kHz, 32 kHz
- HDMI2 terminal is for digital audio signal only.
- Use with a PC is not assumed.
- If the connected equipment has an aspect adjustment function, set the aspect ratio to “16:9”.
- These HDMI connectors are “type A”.
- These HDMI connectors are compatible with HDCP (High-Bandwidth Digital Content Protection) copyright protection.
- An equipment having no digital output terminal may be connected to the input terminal of either “Component”, “S-VIDEO”, or “Video” to receive analogue signals.
- The HDMI input terminal can be used with only the following image signals:
480i, 480p, 576i, 576p, 720p, 1080i and 1080p. Match the output setting of the digital equipment.
- For details of the applicable HDMI signals, see p. 40.

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

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

Summary of Control functions

Connecting with an HDMI cable to Panasonic equipment with VIERA Link function, you can control the equipment (p. 34). You can use VIERA Link and Q-Link functions together.

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

HDMI Functions

VIERA Link “HDAVI Control™”*

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

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

The equipment with “HDAVI Control” function enables the following operations:

- Easy playback (p. 35)
- Power on link (p. 35)
- Power off link (p. 35)
- Speaker control (p. 35)

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

- Easy control only with VIERA remote control (p. 35)

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

The operations with other manufacturer’s equipment cannot be guaranteed.

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

■ HDMI cable

This function needs an HDMI compliant (fully wired) cable. Non-HDMI-compliant cables cannot be utilized. It is recommended that you use Panasonic’s HDMI cable. Recommended part number:

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

■ Preparations

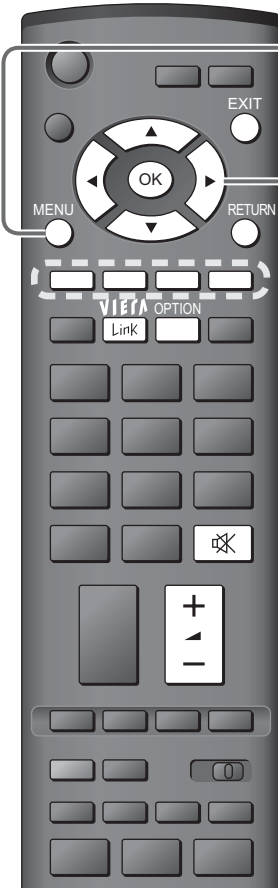
Setup the equipment to enable this function. Read the manuals of the equipment.

About connections, see “External Equipment” (p. 37). Read the manuals of the equipment too.

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

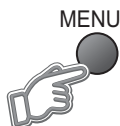
After connection turn the equipment on and then switch the TV on.

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



1

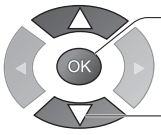
Display the menu



2

Select “Setup”


VIERA Main Menu
VIERA Link
Picture
Sound
Setup



3


Select “VIERA Link”

Setup Menu 2/2
Common Interface
System Update
Input Labels
Banner Display Timeout 3 seconds
VIERA Link ◀ On ▶▶
Time Zone Auto
Software License
System Information



4

Set to “On”
(default is On)



Easy control only with VIERA remote control

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

- If you cannot access the menu, check the settings and the equipment (p. 34).

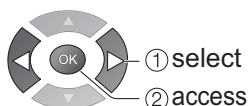
Access the menu of the equipment

① Display "VIERA Link Menu" → 

② Select "VIERA Link Control"

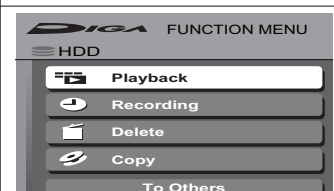
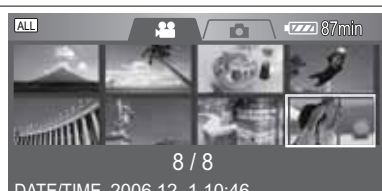
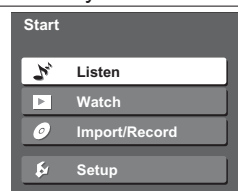


③ Select the equipment you want to access



④ Operate the menu of the equipment

- Example:

DVD Recorder DIGA	HD Video Camera	Player theatre
		

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

Easy playback

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

Power on link

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

Power off link

When TV is set to Standby mode, the connected Panasonic equipment is also automatically set to Standby.

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

Speaker control

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

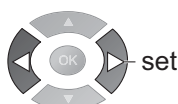
- If you cannot access the menu, check the settings and the equipment (p. 34).

① Display "VIERA Link Menu" → 








② Select "Speaker Selection"



③ Set to "Home Cinema" or "TV"




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

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

■ Home Cinema

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

Volume up / down → 

Mute → 

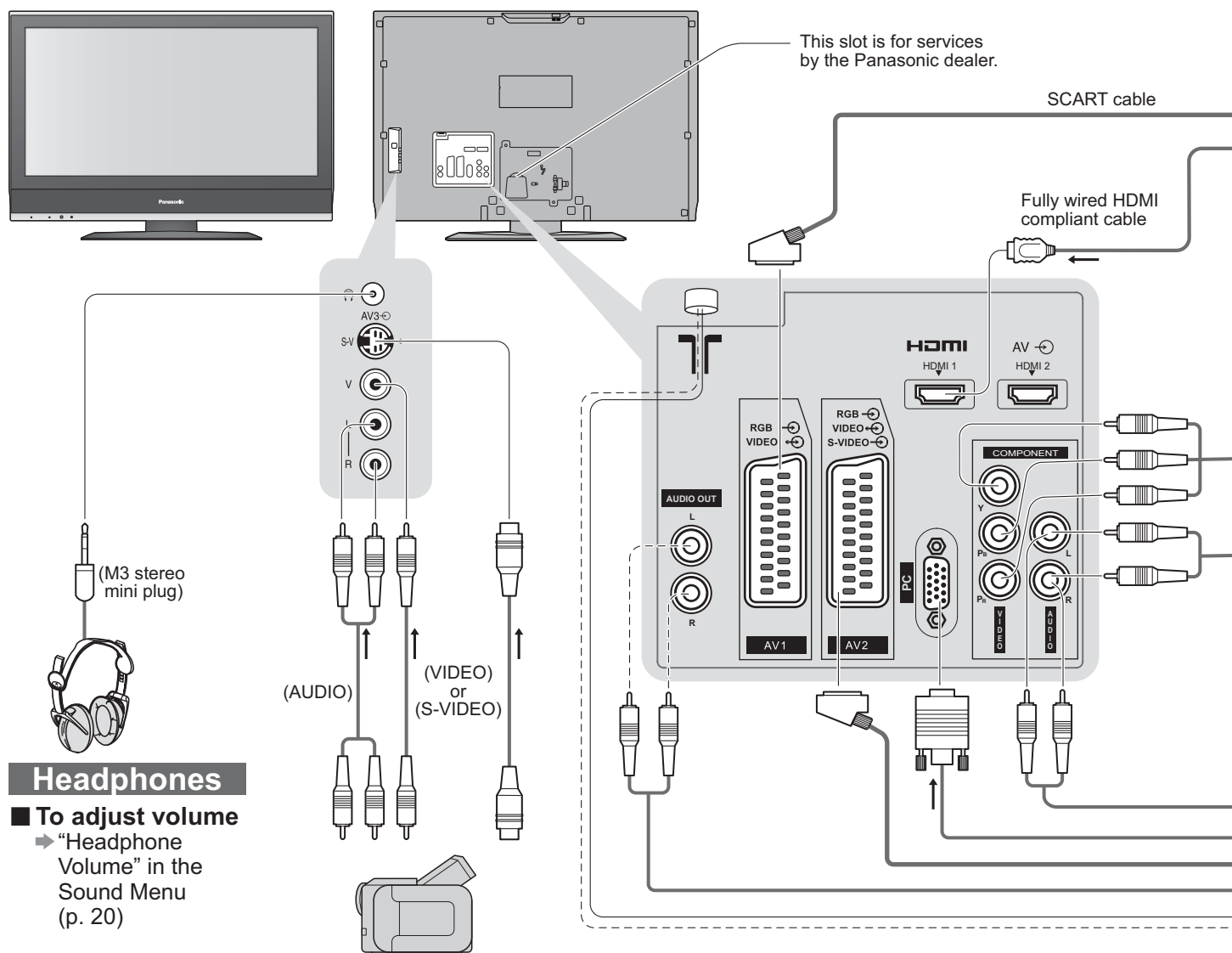
- The sound of TV speakers is mute.
- When the equipment is turned off, TV speakers will be active.

■ TV

TV speakers are active.

External Equipment

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



Headphones

■ To adjust volume

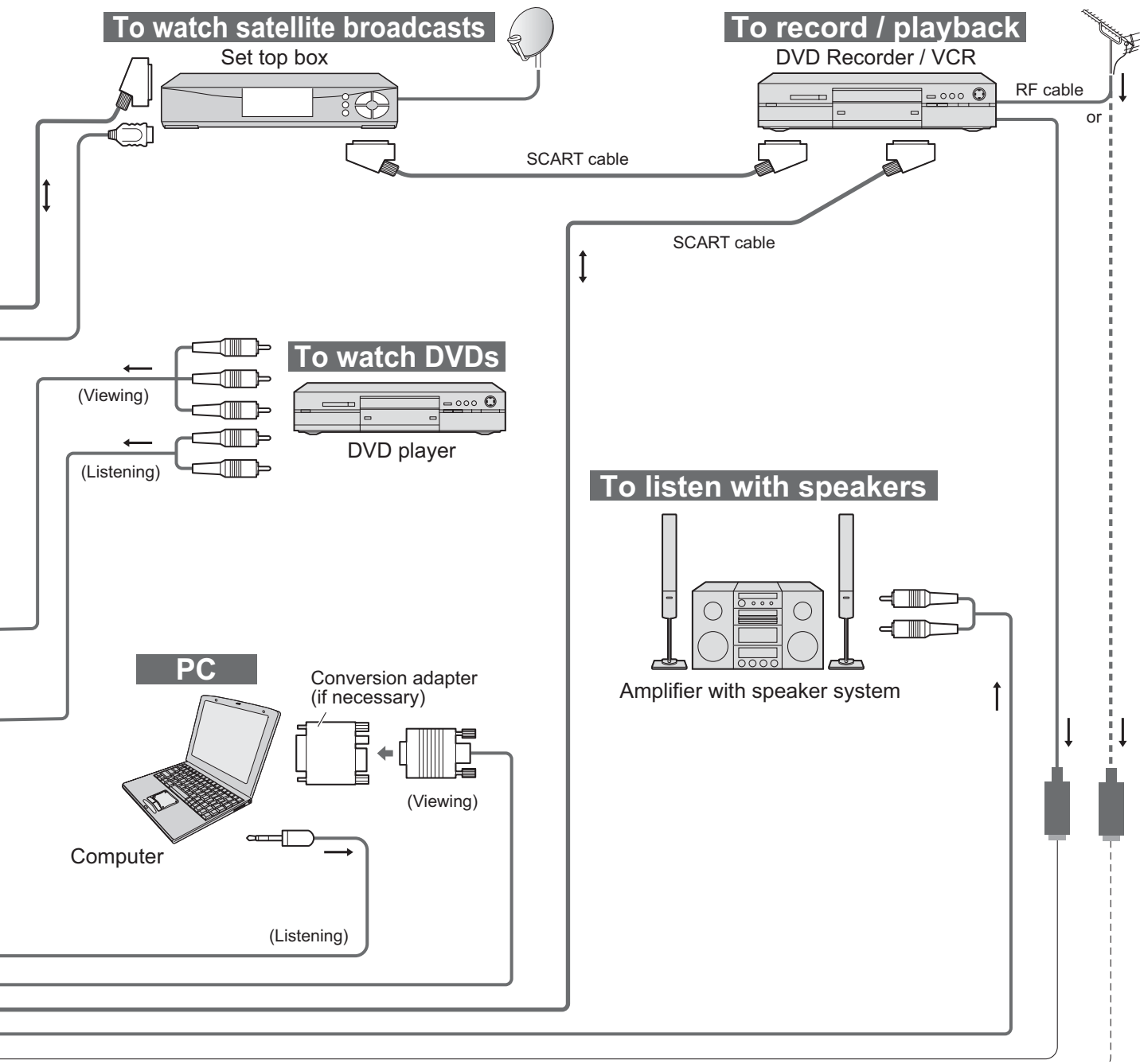
→ "Headphone Volume" in the Sound Menu (p. 20)

Camcorder / Game equipment

■ Types of connectable equipment to each connector

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

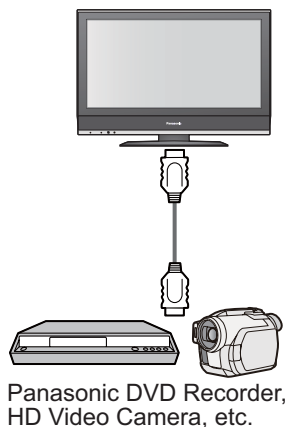
○: Recommended Connection



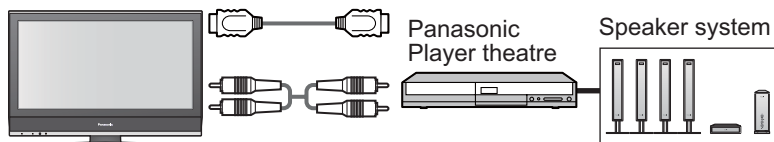
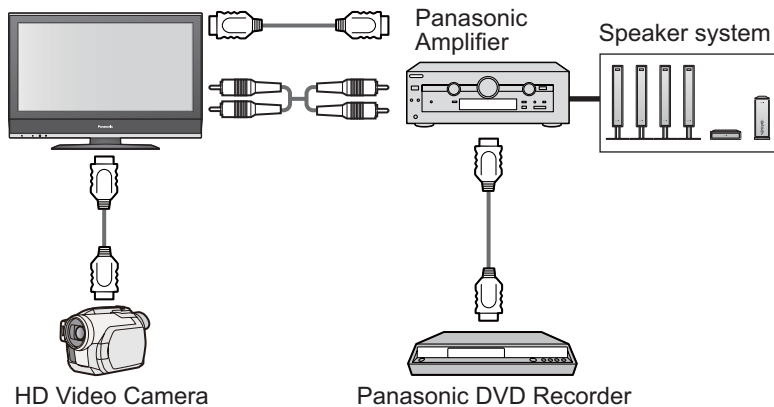
VIERA Link (p. 34)

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

Easy playback, Easy control only with VIERA remote control



Home Cinema



Technical Information

Aspect Ratio

The optimum size and aspect can be chosen, and you can enjoy finer images. (p. 13)

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

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







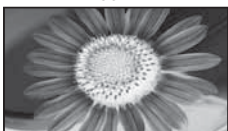
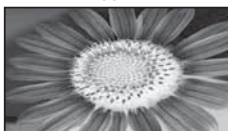
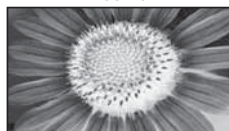
The text shown on the screen indicates how Auto aspect determined which ratio to use:

"WIDE" appears in the top left of the screen if a widescreen identification signal (WSS) is found or a signal found through a SCART terminal. Auto aspect switches to the appropriate 16:9 or 14:9 widescreen ratio. This function will also work in any aspect mode. "Auto aspect" 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.

Signal name		Aspect modes									Aspect Control Signal									
											Widescreen signal (WSS)					Control signal through SCART (pin 8) or HDMI terminal				
		Auto	16:9	14:9	Just	4:3	4:3 Full	Zoom1	Zoom2	Zoom3	TV	AV1	AV2	AV3	Component	AV1	AV2	HDMI 1	HDMI 2	
TV/AV1/AV2/AV3	PAL	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	PAL 525/60	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	DVB	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	M. NTSC	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	NTSC(AV input only)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Component/HDMI	SD	525(480)/60i	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		525(480)/60p	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		625(576)/50i	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		625(576)/50p	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		750(720)/50p	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	HD	750(720)/60p	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		1125(1080)/50i	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		1125(1080)/60i	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		1125(1080)/50p	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		1125(1080)/60p	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PC input		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

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.)
- Aspect mode can be memorized for SD (Standard definition) and HD (High definition) signals separately.
- To select the ratio manually: (Only "16:9" or "4:3" in PC mode)

<p>Auto</p>  <p>The best ratio is chosen and the picture expanded to fill the screen.</p>	<p>16:9</p>  <p>Directly displays the image at "16:9" without distortion (anamorphic).</p>	<p>14:9</p>  <p>Displays the image at the standard "14:9" without enlargement.</p>
<p>Just</p>  <p>Displays a 4:3 image full-screen. Stretching is only noticeable at the left and right edges.</p>	<p>4:3</p>  <p>Displays the image at the standard "4:3" without distortion.</p>	<p>4:3 Full</p>  <p>Displays a "4:3" image enlarged horizontally to fit the screen.</p>
<p>Zoom1</p>  <p>Displays a "16:9" letterbox or "4:3" image without distortion.</p>	<p>Zoom2</p>  <p>Displays a "16:9" letterbox (anamorphic) image full-screen without distortion.</p>	<p>Zoom3</p>  <p>Displays a "2.35:1" letterbox (anamorphic) image full-screen without distortion. At "16:9", displays the image at its maximum (with slight enlargement).</p>

Updating the software system (DVB mode)

Update system software regularly to ensure that you have latest version software.

If there is an update available, a notification banner is displayed when the channel has the update information.

- To download new software, press "OK" ➔ Downloading (approx. 20 min.)
- If you choose not to download, press "EXIT".

■ To update automatically

Set "Auto Update Search in Standby" to "On" (p. 23)

If there is a new version software being broadcast, the TV will download this automatically.

- The automatic updating sequence is carried out at 3:00 AM and 5:00 AM every night under the following conditions.
Standby (TV turned Off with the remote control)
Recording is not in progress.

■ To update manually

Perform "System Update Search Now" (p. 23)

If there is an update available, a notification banner is displayed.

- To download new software, press "OK" ➔ Downloading (approx. 20 min.)
- If you choose not to download, press "EXIT".

Note

- During downloading, do not turn Off the TV or touch any button.
(The TV is automatically activated after downloading is completed.)
- The message might be the notification beforehand. In this case, the schedule information (the date that the new version can be used) will appear. You can set the reservation for update. The update will not start when the TV is set to Off.

VIERA Link "HDAVI Control™"

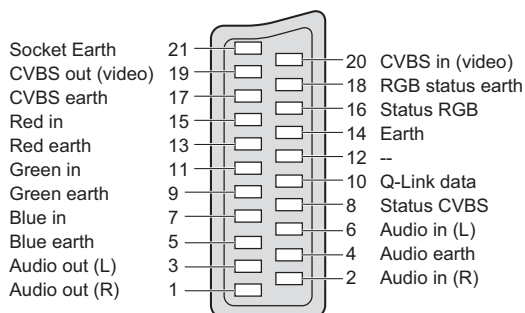
HDMI connections to some Panasonic equipment allow you to interface them automatically. (p. 34)

- This function may not work normally depending on the equipment condition.
- 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 manuals of the equipment.
- If you connect the same kind of equipment at once (for example: one DIGA to HDMI1 / another DIGA to HDMI2), VIERA Link is available for the terminal with the smaller number.

SCART, S-VIDEO and HDMI terminal information

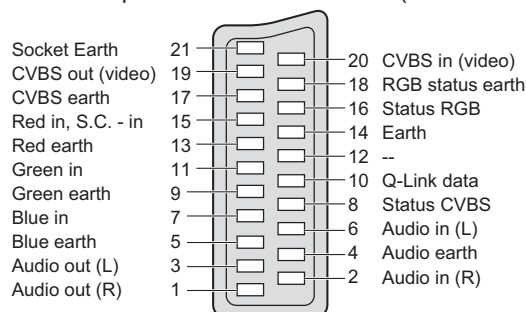
■ AV1 SCART terminal (RGB, VIDEO, Q-Link)

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

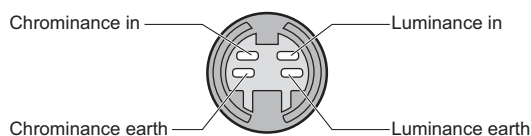


■ AV2 SCART terminal (RGB, VIDEO, S-VIDEO, Q-Link)

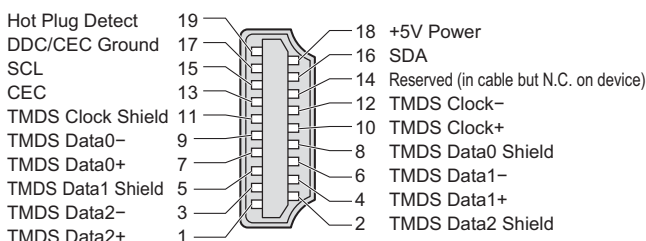
AV2 - Pins 15 and 20 are dependent on AV2 S-VHS / VIDEO switching.
Suitable inputs for AV2 include RGB (Red / Green / Blue).



■ AV3 S-VIDEO 4 pin terminal



■ 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.

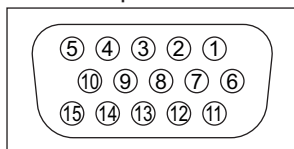
- PC signals that can be inputted: Horizontal scanning frequency 31 to 69 kHz; vertical scanning frequency 59 to 86 Hz (more than 1,024 signal lines could result in incorrect display of the image).
- A PC adapter is not necessary for the DOS/V-compliant D-sub 15-pin connector.

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	1,024 × 768 pixels
	16:9	1,366 × 768 pixels

- D-sub 15-pin connector signal



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

Input signal that can be displayed

COMPONENT (Y, P_B, P_R), HDMI

* Mark: Applicable input signal

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

PC (D-sub 15P)

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

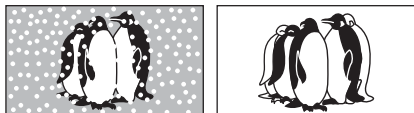
Note

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

FAQs

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

White spots or shadow images (noise)



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

Neither image nor sound is produced

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

Auto aspect

- Auto aspect is designed to provide you with the best aspect ratio to use to fill your screen. For user control please see p. 38.

S-Video / black and white picture

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

On Screen messages - i.e. EC/AV1

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

No DVB programmes shown after Auto Setup

- 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.

An error message appears

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

To customer using indoor aerial

In order to enjoy a good quality DVB image, it is important to receive a good quality DVB signal. For this purpose check "DVB Signal Condition" in Tuning Menu (p. 28). A level of at least 5 is required in order to provide a good picture. It may be necessary to adjust the position and direction of the aerial to achieve the best possible result.



Direct TV record / Q-Link functions not recording

- Please confirm SCART cable and connection. Also please set "AV1 / AV2 out" in the Setup Menu (p. 21).

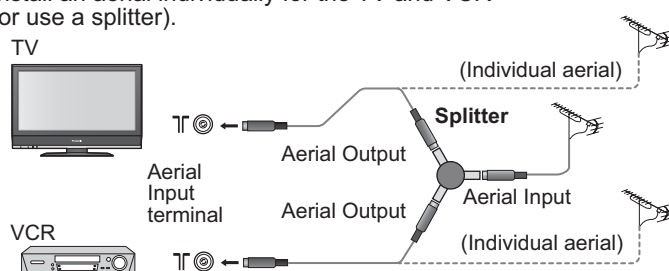
There may be red spots, blue spots, green spots and black spots on the screen

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

The LCD panel moves slightly when it is pushed with a finger Clattered sound might be heard

- There are some looseness around the panel to prevent the damage to the panel. The panel might move slightly when it is pushed with a finger, and clattered sound might be heard. This is not a malfunction.

FAQs

	Problem	Actions
Screen	Chaotic image, noisy	<ul style="list-style-type: none"> ● Set "P-NR" in the Picture Menu (to remove noise). (p. 20) ● Check nearby electrical products (car, motorcycle, fluorescent lamp).
	No image can be displayed	<ul style="list-style-type: none"> ● Is "Colour" or "Contrast" in the Picture Menu set to the minimum? (p. 20) ● Check Colour system. (p. 27)
	Blurry or distorted image (no sound or low volume)	<ul style="list-style-type: none"> ● Reset channels. (p. 27)
	Unusual image is displayed	<ul style="list-style-type: none"> ● Turn off the TV with Mains power On / Off switch, then turn it on again.
Sound	No sound is produced	<ul style="list-style-type: none"> ● Is "Sound mute" active? (p. 7) ● Is the volume set to the minimum?
	Sound level is low or sound is distorted	<ul style="list-style-type: none"> ● Sound signal reception may be deteriorated. ● Set "MPX" (p. 20) in the Sound Menu to "Mono". (Analogue) ● Check Sound system. (p. 27)
DVB	<ul style="list-style-type: none"> ● 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. 	
	Unable to receive signals with a high-performance aerial	<ul style="list-style-type: none"> ● Install an aerial individually for the TV and VCR (or use a splitter).  <p>The diagram illustrates a setup for connecting a TV and a VCR to a single aerial system. A central 'Splitter' has two 'Aerial Input' ports and two 'Aerial Output' ports. One 'Aerial Input' is connected to an 'Individual aerial'. The other 'Aerial Input' is connected to another 'Individual aerial'. The 'Aerial Output' ports are connected to the 'Aerial Input terminal' of both the TV and the VCR. The TV and VCR are shown as separate units with their respective aerial input terminals.</p>
	Interference or frozen / disappearing image in DVB	<ul style="list-style-type: none"> ● Check "DVB Signal Condition". (p. 28) If "Signal Quality" or "Signal Strength" are displayed in red, check aerial. ● If problem persists, consult your local Panasonic dealer. ● Turn the TV off with the Mains power On / Off switch, then turn it On again.
HDMI	Sound is unusual	<ul style="list-style-type: none"> ● Set the sound setting of the connected equipment to "2ch L.PCM". ● Check the "HDMI1 Input" setting in the Sound Menu. (p. 20) ● If digital sound connection has a problem, select analogue sound connection. (p. 33)
	Pictures from external equipment are unusual when the equipment is connected via HDMI	<ul style="list-style-type: none"> ● Is the HDMI cable connected properly? (p. 36) ● Turn Off the TV and equipment, then turn them On again. ● Check an input signal from the equipment. (p. 40) ● Use an equipment compliant with EIA/CEA-861/861B.
Other	TV goes into "Standby mode"	<ul style="list-style-type: none"> ● Off Timer function is activated. ● The TV enters "Standby mode" about 30 min. after broadcasting ends.
	The remote control does not work	<ul style="list-style-type: none"> ● Are the batteries installed correctly? (p. 6) ● Has the TV been switched On?

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



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

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

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

For business users in the European Union

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

Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union.

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

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Trade Mark of the DVB Digital Video Broadcasting Project (1991 to 1996)
TX-26LMD70FA Declaration of Conformity No 4933, 19 July 2007
TX-32LMD70FA Declaration of Conformity No 4932, 19 July 2007

Customer's Record

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

Model Number _____

Serial Number _____

Matsushita Electric Industrial Co., Ltd.

Web Site : <http://www.panasonic.net>

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