

**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.

Panasonic[®]

**Operating Instructions
Plasma Television**

Model No. **TH-37PD60EH**
TH-42PD60EH

VIERA



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-europe.com>

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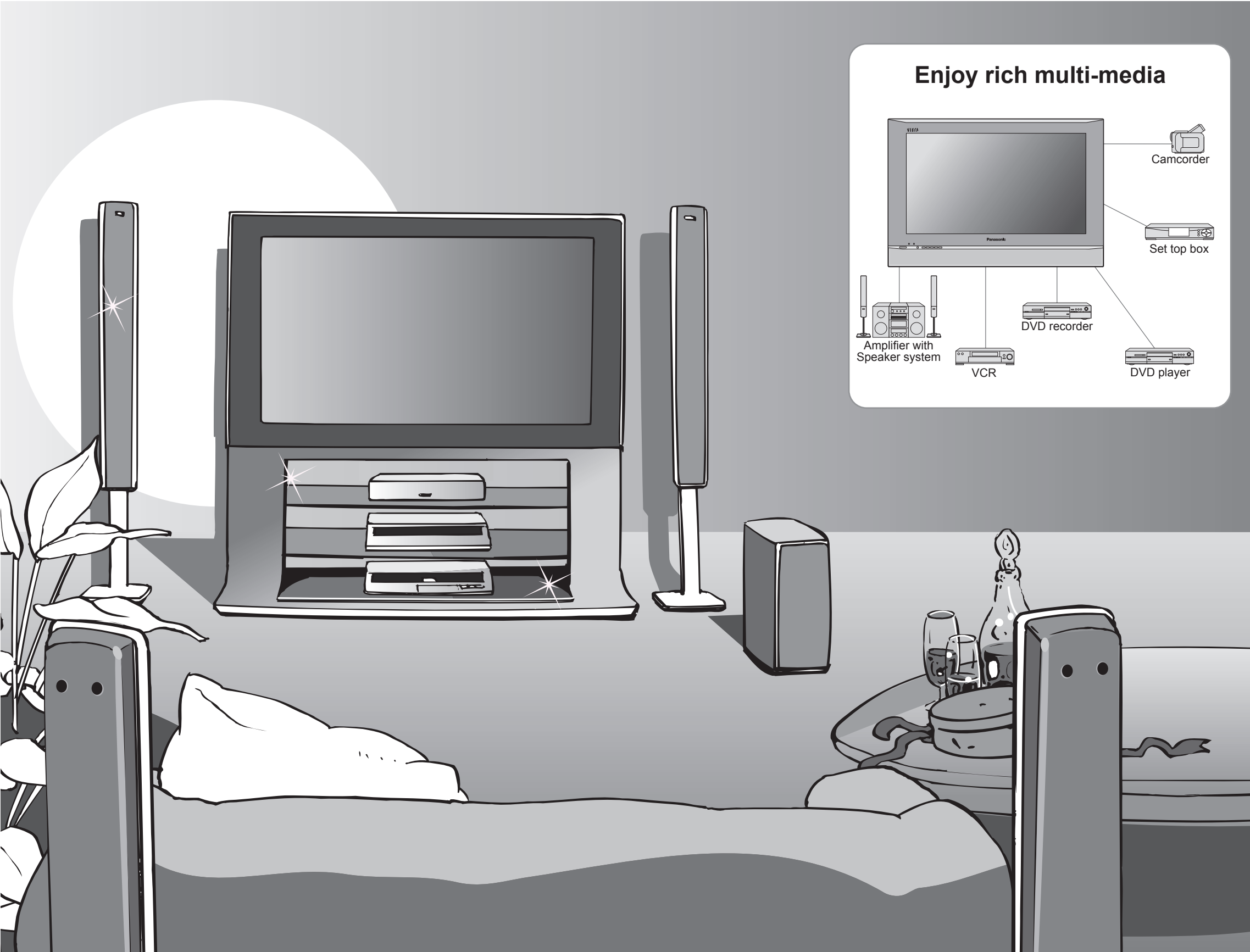
English

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.

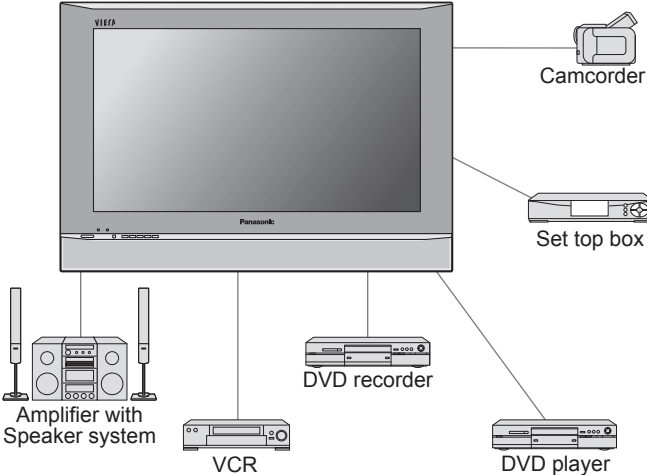


Turn your own living room into a movie theatre!

Experience an amazing level of multi-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.
- Ensure the grounding pin on the mains plug is securely connected to prevent electrical shock.
 - An apparatus with CLASS I construction shall be connected to a mains socket outlet with a protective earthing connection.
- Do not touch the mains plug with a wet hand. (This may cause electrical shock.)
- Do not 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! (such as strange smell or smoke)

AC 220-240 V
50 / 60 Hz



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 metal or flammable objects drop into the TV through the air vents (fire or electrical shock may result).

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.

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 an unstable surface

Use only the dedicated stands / mounting equipment

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

Notes

Caution

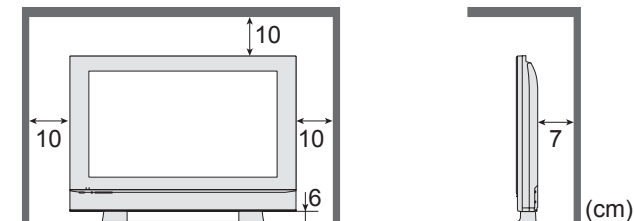
When cleaning the TV, remove the mains plug

(Cleaning an energized TV may cause electrical shock.)

When TV will not be used for a long time, remove the mains plug

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

Allow sufficient space around the TV for radiated heat



Do not block the rear air vents

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

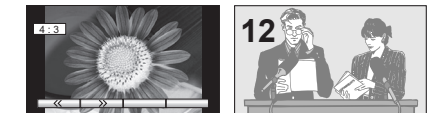


Remember not to keep still pictures on the screen for extended lengths of time

Such still pictures cause after-images on the plasma screen if they are displayed for a long time. These after-images are not considered malfunctions and are not covered by the warranty.

Typical still images

- Channel number and unique logos
- Image displayed in 4:3 mode
- Video game
- Computer image



To decrease the chance of after-images, a screen saver will be automatically activated after a few minutes if there is no signal and if there is no operation in AV mode. (p. 37)

The screen saver will be automatically deactivated when a signal is detected or an operation is executed.

Keep the TV away from these 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

Daily 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 water containing a small amount of neutral detergent. 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

Daily 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

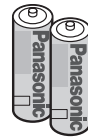
Standard accessories

- ☐ Remote Control Transmitter
- EUR765108A



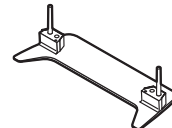
Check that you have the accessories and items shown ☒

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



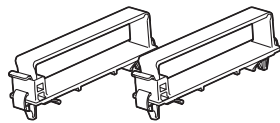
- ☐ Operating Instructions
- ☐ Pan European Guarantee Card

- ☐ Pedestal
- TBL0E0003 or TBL0E0004 (equivalent to optional accessory) TY-ST42PX5W



Read the manual of the pedestal for installation.

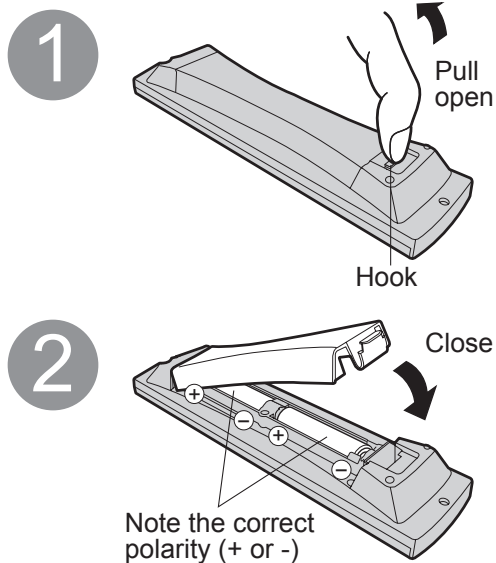
- ☐ Clamper (2)



- ☐ Mains Lead



Installing remote's batteries

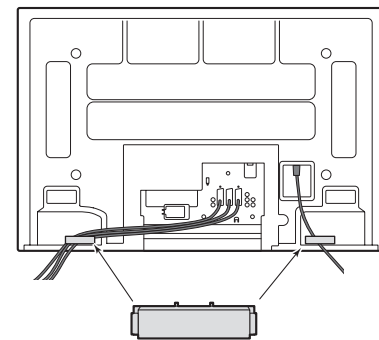


Caution

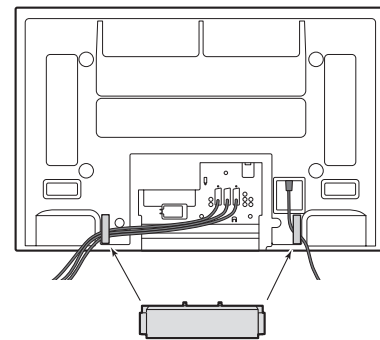
- Incorrect installation may cause battery leakage and corrosion, resulting in damage to the remote control.
- Do not mix old and new batteries.
- Do not mix different battery types (such as alkaline and manganese batteries).
- Do not use rechargeable (Ni-Cd) batteries.
- Do not burn or breakup batteries.

Attaching the cable clampers

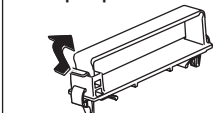
TH-37PD60EH



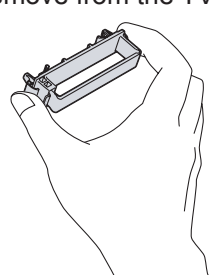
TH-42PD60EH



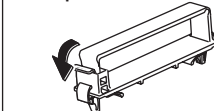
Snap open



Remove from the TV



Snap shut



- 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.

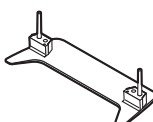
Optional accessories

Pedestal

- TY-ST42PA50W



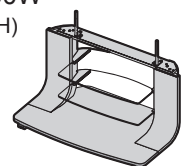
- TY-ST42PX5W



Plasma TV stand

- TY-S37PA60W (TH-37PD60EH)

- TY-S42PA60W (TH-42PD60EH)

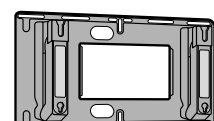
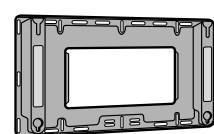


Wall-hanging bracket (vertical)

- TY-WK42PV3W
- TY-WK42PV2W

(angle)

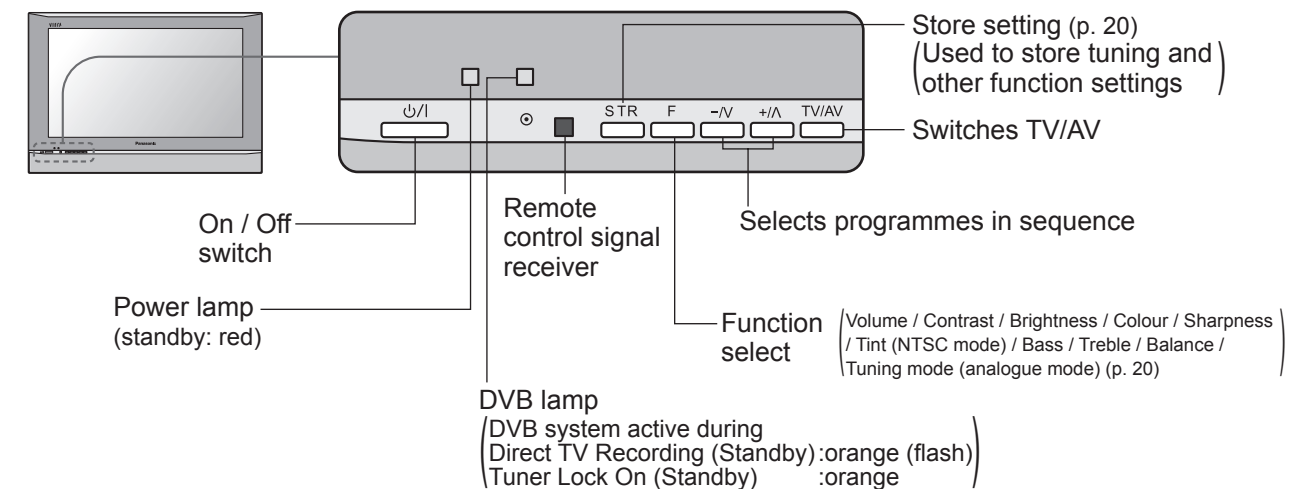
- TY-WK42PR2W



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.

Identifying Controls



Switches TV to On or Standby (On / Off switch in On position)

Switches DVB (digital broadcasting) / Analogue mode (p. 10)

Programme Guide (p. 10)

DIRECT TV Recording (To immediately record programme in VCR / DVD recorder with Q-Link connection (p. 26))

Select / OK

Switches TV/AV (To watch videos or DVDs) (p. 14)

MENU (Press to access the Picture, Sound and Setup menus)

EXIT (Returns to TV screen)

Teletext (p. 12)

Coloured buttons (used for various functions) (for example, see p. 12)

Subtitles (Showing subtitles (p. 11) (DVB) Viewing a favourite teletext channel (p. 12))

Still Picture (p. 11)

Changes programme / channel (p. 10)

Teletext Index (p. 12)

Direct channel access (Analogue) (During normal TV viewing or when in the Tuning, Programme edit or Manual tuning menus, press and then enter channel number using the numeric buttons Press twice to change to the Cableband mode)

Programme Information (p. 11)

Selects programmes in sequence

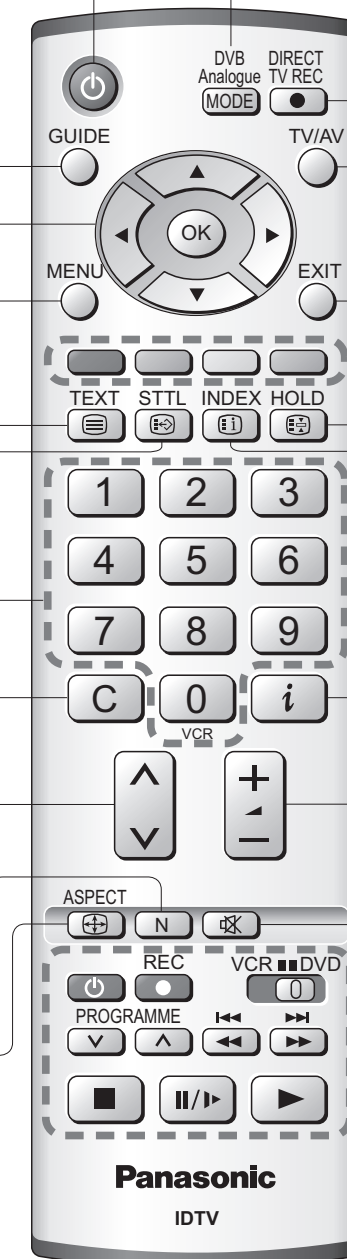
Volume

Normalizes (p. 16) (Resets settings)

Sound mute On / Off

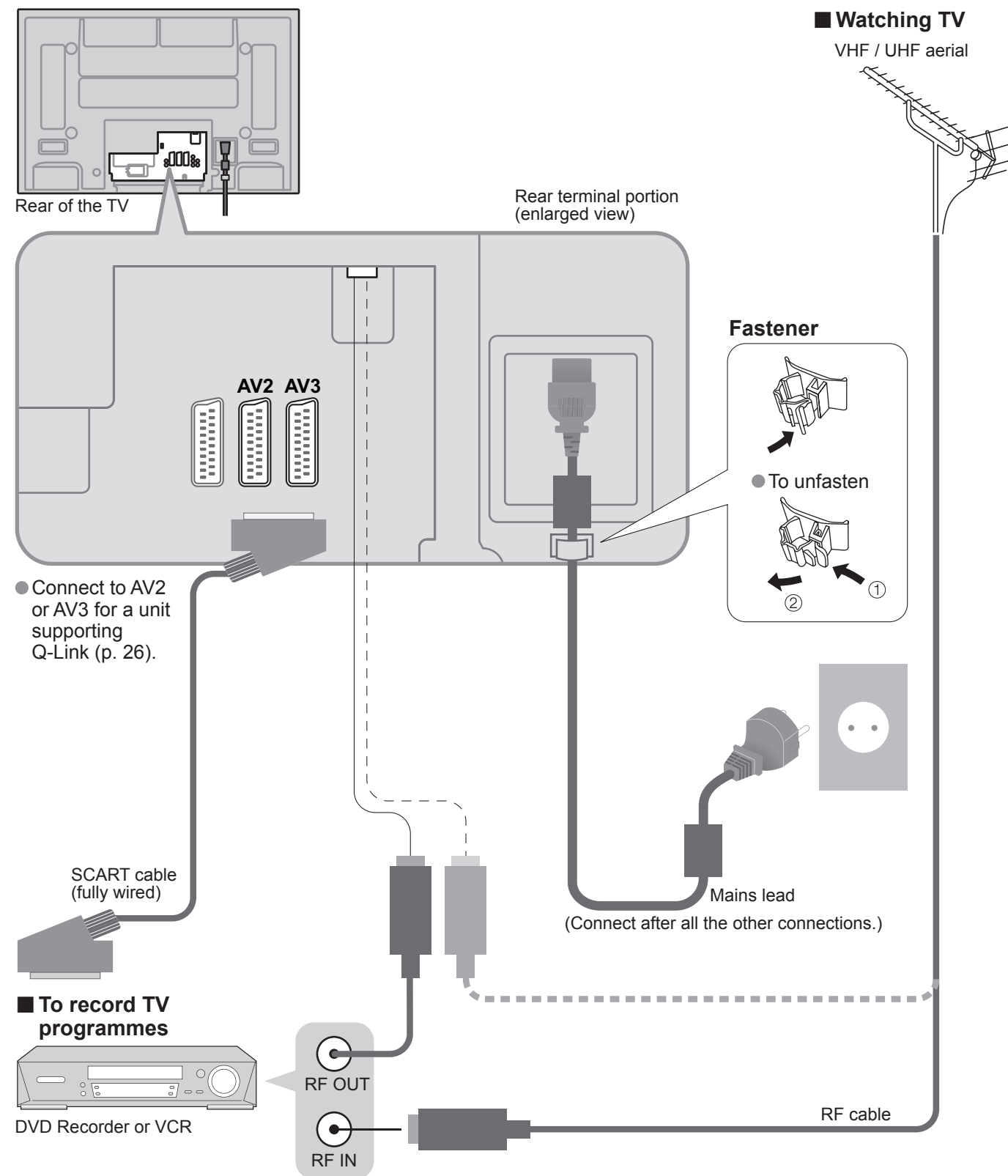
Changes aspect ratio (p. 11)

VCR / DVD operations (p. 15)



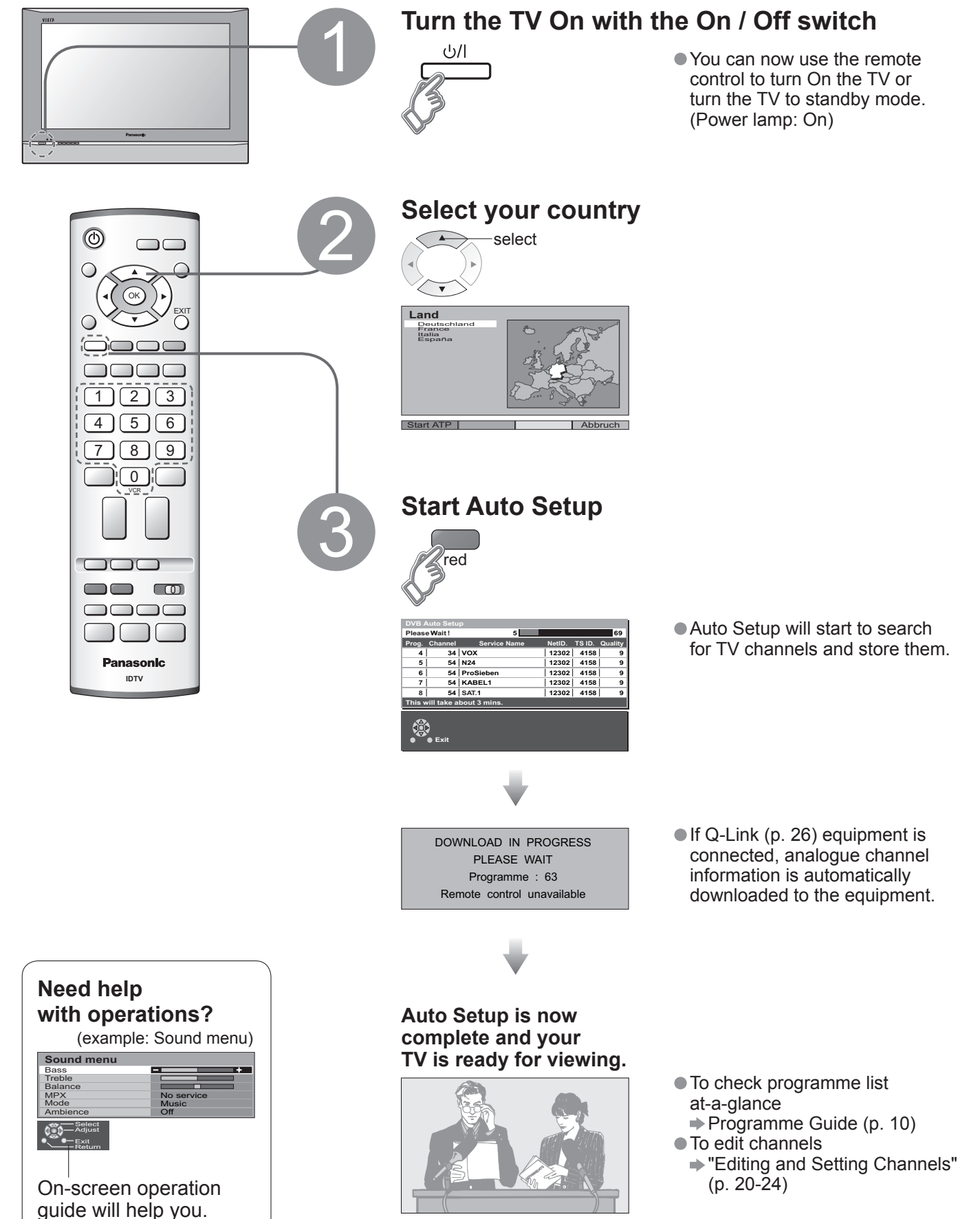
Connection

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



Auto Setup

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



Watching TV

1 Turn power on
(for about 1 second)
● On / Off switch on TV should be On.

2 Select DVB (Digital Video Broadcasting) or Analogue
DVB Analogue
MODE

3 Select a programme number
up or down
1 2 3
4 5 6
7 8 9
0

Note
● To watch pay-TV (p. 18)

Information banner
Programme Channel Displayed if programme type is radio-channel or data-channel
Current time
1 Das Erste 20:30
Lotti auf der Flucht 20:00 - 20:55
Now For info press
Encrypted No Signal ger All Services
Multi Audio Profile
Features available
Broadcast time
During scrambled broadcasting
In case of bad signal or non correct programme-number a message will be displayed
To change the sound track, if programme has multiple audio tracks
blue
yellow
Subtitle information will be displayed, if programme has subtitle
Teletext information will be displayed, if programme has teletext

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

Select from the Programme table (Analogue)

GUIDE → select page → ① select programme → ② watch

Prog.	Name	Chan.	Prog.	Name	Chan.
VCR		CH21	13		
1	ABC	CH44	14		
2	ZDF	CH51	15		
3	RTL	CH41	16		
4		CH47	17		
5		CH23	18		
6		CH26	19		
7		CH58	20		
8			21		
9			22		
10			23		
11			24		
12					

Select from the Programme list (DVB)

GUIDE → select page → ① select programme → ② watch

Other Useful Functions (Operate after ③)

Hold

Freeze / unfreeze picture



Display subtitles

Display / hide subtitles (DVB only)



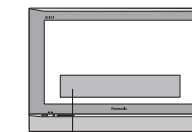
- To change the language, see "Preferred Language Setting" (p. 18) or "Subtitles" (p. 22).

Display information banner

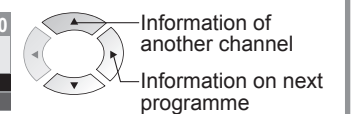
Display programme information



- DVB



- Details → i
- To hide → EXIT
- To set display timeout (p. 18)

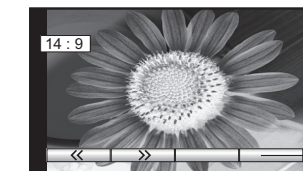


- Analogue

Displays channel only, after showing analogue information.
(To go back → i)

Change aspect ratio

Change the aspect ratio (p. 33)



- Each press changes the mode.
(Auto aspect / 16:9 / 14:9 / Just / 4:3 / 4:3 Full (HD signal only) / Zoom1 / Zoom2 / Zoom3)

While the bar is displayed



Viewing Teletext

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

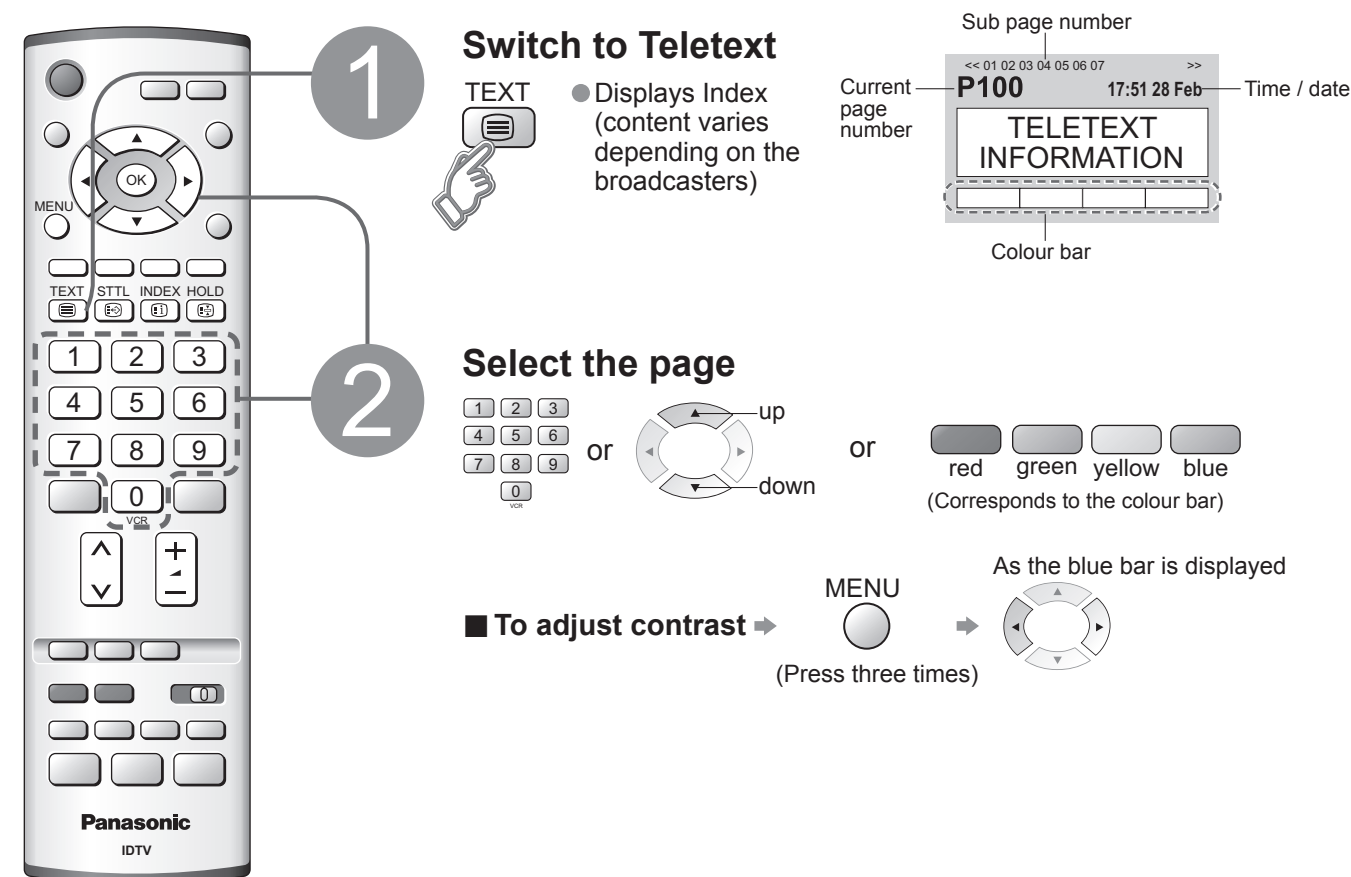
What is TOP / FLOF mode?

In TOP / 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 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. 13)

■ **To change mode** → "Teletext" in Setup menu (p. 16)



■ **To return to TV**



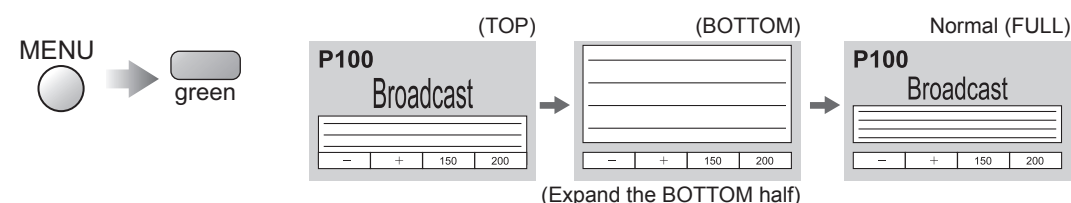
■ **Using teletext conveniently**

Reveal hidden data

Reveal hidden words e.g. quiz page answers



FULL / TOP / BOTTOM



HOLD

If you wish to hold the current page without updating
Stop or resume automatic updating



INDEX

Return to the main index page

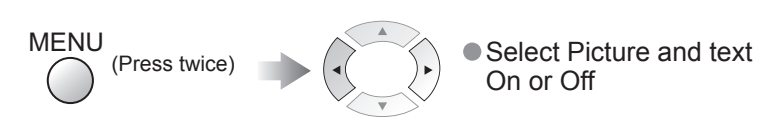


Call up a favourite pages



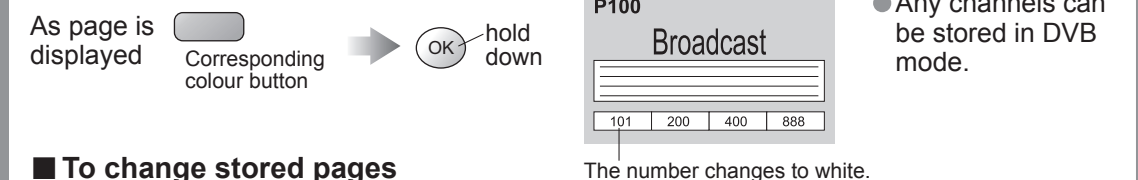
View in multi window

Watch TV and Teletext in two windows at once

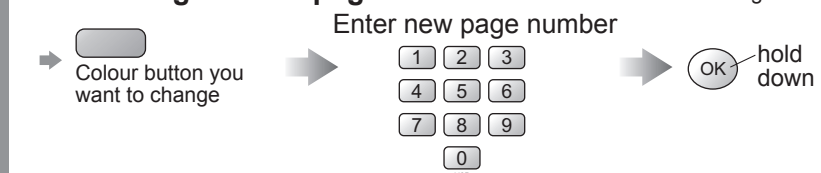


Store frequently viewed pages

Store frequently viewed pages (only on first 25 Analogue channels on Programme Guide) in the colour bar (List mode only)

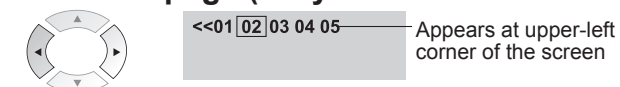


■ **To change stored pages**

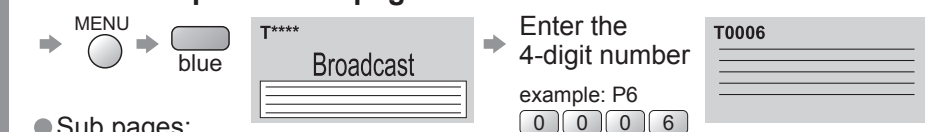


View sub page

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



■ **To view specific sub page**

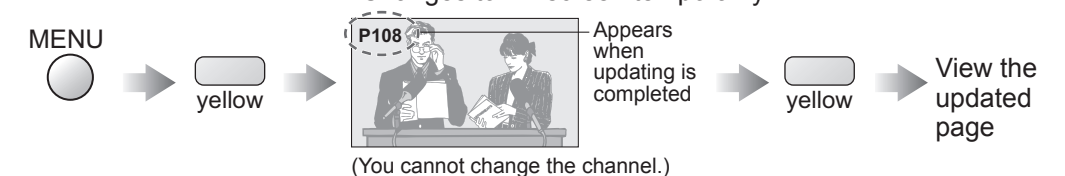


● Sub pages:
 The number of sub pages varies depending on the broadcasters (up to 79 pages). It may take some time for searching, during which time you can watch TV.

Watch TV while waiting for update

View the TV picture while searching for a teletext page

Teletext automatically updates itself when new information becomes available. Changes to TV screen temporarily



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

Watching Videos and DVDs

It is possible to connect a variety of external equipment to the TV. Once the equipment is connected, use the following procedure to view the input.
To connect the equipment (p. 30)

1

With the equipment turned On
Select the external input

2

Select the connector
connected to the equipment
Displays the selected connector

TV/AV

(AV mode screen)

AV1

AV1 AV2/S AV3/S C/HDMI

AV2

AV1 AV2/S AV3/S C/HDMI

red AV1

green AV2/S S-video

yellow AV3/S S-video

blue Component/HDMI

● example: AV1 → red

● When colour bar disappears → Press any coloured buttons

● You can also select the connector using the TV/AV button on the front panel of the TV. Press the button repeatedly until you reach the connector to view.

■ To return to TV



Note

- Automatic Input selection - Input mode is automatically switched from TV to AV mode when the equipment connected via SCART or HDMI terminal is operated. When the equipment is turned off, the TV is set to TV mode.
- 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 theatre
	Standby Set to Standby mode / Turn on
	Play Playback VCR / DVD
	Stop Stop the operations
	Rewind / Skip / Search VCR: Rewind, review (during playback) DVD: Skip to the previous track or title Press and hold to search backward
	Fast-forward / Skip / Search VCR: Fast-forward, cue (during playback) DVD: Skip to the next track or title Press and hold to search forward
	Pause Pause / Restart DVD: Press and hold for slow-motion play
	Programme Up / Down Select programme
	Record Start recording

*The remote control will be available for various Panasonic equipment with the following settings.

- ① Switch to select VCR or DVD you want to change →
- ② Press and hold while operating ② → Enter the code below (two digit code) → Press
- VCR

Equipment	Code
VCR	10 (default)
DVD	11

DVD

Equipment	Code
DVD	70 (default)
Player theatre	71

Note

- After setting, execute operation confirmation.
- The respective VCR / DVD code is turned to the default when battery has been exchanged. Set it again.
- Depending on the model, operation may not be possible.

How to Use Menu Functions

Various menus allow you to make settings for the picture, sound, and other functions so that you can enjoy watching TV in your own way.

1

Display menu

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

2

Select the menu

Main menu

Picture menu

Sound menu

Setup menu

(example: Picture menu)

3

Select the item

Picture menu

Viewing mode

Contrast

Brightness

Colour

Sharpness

Tint

Colour balance

Colour management

P-NR

MPEG NR

3D-COMB

(example: Picture menu)

4

Adjust or select

Picture menu

Viewing mode

Contrast

Brightness

Colour

Sharpness

Tint

Colour balance

Colour management

P-NR

MPEG NR

3D-COMB

(example: Picture menu)

select

next

select

change

store
(Required by some functions)

To return to TV

To return to the previous screen

Note

● To initialize all settings, use "Shipping condition" (p. 32).

Menu list

Menu	Item	Adjustments / Configurations (alternatives)
Picture menu	Viewing mode	Basic picture mode (Dynamic / Normal / Cinema) ● Set for each input signal Viewing mode Dynamic
	Adjust by each viewing mode	
	Contrast, Brightness, Colour, Sharpness	Adjusts colour, brightness, etc. for each picture mode to suit your taste Contrast — + Brightness — + Colour — + Sharpness — +
	Tint	Adjusts tint of image ● For NTSC signal reception only Tint — +
	Colour balance	Chooses the colour balance of the entire image (Cool / Normal / Warm) Colour balance Normal
	Colour management	Automatically adjusts colours to vivid ones (Off / On) Colour management On
	P-NR	Automatically reduces unwanted picture noise (Off / Normal / Dynamic / Auto) ● Not valid on HDMI and analogue component signal P-NR Auto
Sound menu	MPEG NR	Automatically reduces noise for watching DTV, DVD and VCD (Off / Min / Mid / Max) MPEG NR Off
	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, SECAM, S-Video, components and HDMI ● Cannot be used with DVB 3D-COMB On
	Bass	Adjusts the output level of deep bass Bass — +
	Treble	Adjusts the output level of high-pitch, shrill sound Treble — +
	Balance	Adjusts volume level of right and left speakers Balance — +
	MPX	Select stereo / monaural (Mono / Stereo) ● Normally: Stereo ● Stereo signal cannot be received: Mono ● M1 / M2: Available while mono signal is transmitted ● Cannot be used with DVB MPX Stereo
	Mode	Improves sound quality for music and dramas (Music / Speech) Mode Music
Setup menu	Ambience	Gives a greater spatial effect by using dynamic enhancer (Off / On) Ambience Off
	HDMI input	Chooses according to the signal when HDMI is connected (Auto / Digital / Analogue) (p. 34) HDMI input Auto
	Q-Link	Chooses the connector to which a Q-Link compatible equipment is connected (Off / AV2 / AV3) (p. 30) Q-Link AV2
	AV2/AV3 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 and HDMI signals cannot be outputted AV2 out Monitor
	Control with HDMI	Control with HDMI function (Off / On) (p. 27) Control with HDMI On
	Teletext	Teletext display mode (TOP (FLOF) / List) (p. 12) Teletext TOP
	Off timer	Sets the time the TV automatically turns Off. (Off / 15 / 30 / 45 / 60 / 75 / 90) (minutes) Off timer Off
	Text language	Selects teletext language (Analogue) (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 Text language West
	Side panel	Increases the brightness of the side panel (Off / Low / Mid / High) ● The recommended setting is High to prevent panel "after-image" Side panel Off
	Power save	Reduces brightness of picture to economise on power consumption (Off / On) Power save Off
	Programme edit	Edits channels (p. 20) Programme edit Access
	Auto setup	Sets channels automatically (p. 20) Auto setup Access
	Manual tuning	Sets channels manually (p. 20) Manual tuning Access
	Fine tuning	Fine tuning of channels (during rain, etc.) Fine tuning — +
	Colour system	Selects optional colour system depending on video signals (Auto / PAL / SECAM / M. NTSC) Colour system Auto
Tuning menu	Volume correction	Adjusts volume of individual stations Volume correction — +
	Decoder (AV2 / AV3)	Set "On" when the decoder is connected to AV2 or AV3 terminal via a Q-Link equipment (Off / On) Decoder (AV2) Off
	DVB Setup Menu	Edits or setups DVB channels (p. 18) DVB Setup Menu Access
	System language	Changes language for on-screen displays System language Access
	Shipping condition	Resets all settings, for example, when moving house (p. 32) Shipping condition Access
	Colour system	Selects optional colour system based on video signals in AV mode Colour system Auto
	Volume correction	Adjusts volume for AV and HDMI mode Volume correction — +

● In AV mode, the Sound menu and Setup menu give a smaller number of options.

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

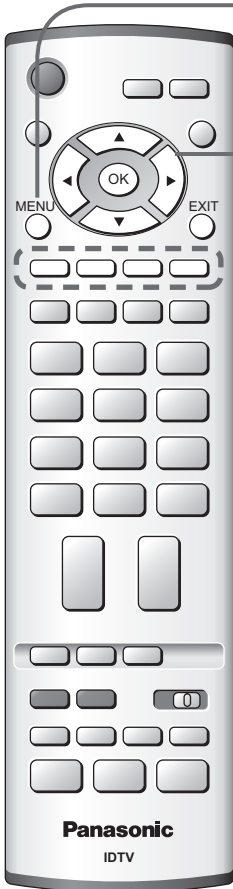
Advanced

16

17

Advanced DVB Settings

(DVB mode only)



- 1 Display the menu**
MENU
- 2 Select "Setup menu"**
Main menu
Picture menu
Sound menu
Setup menu
- 3 Select "DVB Setup Menu"**
Setup menu
Q-Link
AV2 out
Control with HDMI
Teletext
Off timer
Side panel
Power save
DVB Setup Menu
System language
Shipping condition
- 4 Select "System Setup" or "System Update"**
DVB Setup Menu
Profile Edit
Child Lock
Tuning Menu
Tuner Lock
Multi Audio
Subtitles
Teletext
System Setup
System Update
- 5 Select a function and set**
- 6 Store**

■ To exit
→ EXIT

● If you exit after 5, the setting is not stored after turning off the TV.

Pay-TV

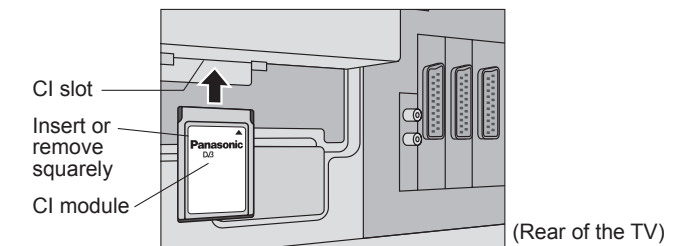
Common Interface Module

Insert the CI module (optional)

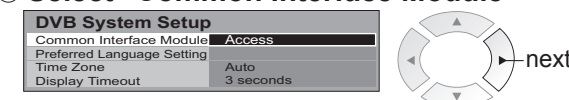
This TV receiver works only Pay TV modules complying with CI standard.

Caution

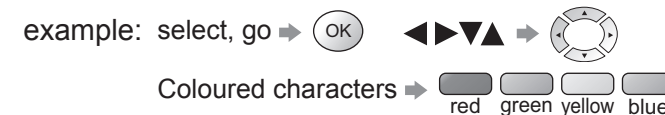
- Turn Off the On / Off switch on the TV whenever inserting or removing the CI module.
- If a view card and a card reader come as a set, first insert the card reader, then insert the view card into the card reader.



1 Select "Common Interface Module"



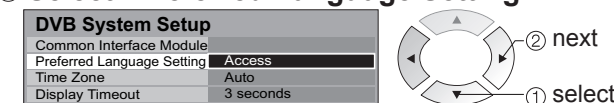
2 Follow the on-screen instructions



- For more details, see the manual of the CI module, or check with the broadcaster.
- Normally pay-TV services will appear without following steps 1 and 2 (shown for information only).

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

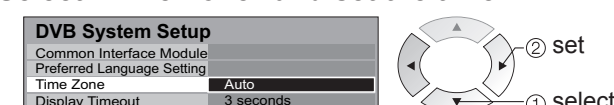
1 Select "Preferred Language Setting"



2 Set the language (Audio, Subtitles, Teletext)

- This is the initial language setting for Audio, Subtitles (p. 11) and Teletext.

Select "Time Zone" and 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.

Select "Display Timeout" and set the time



- 0 (No display) to 10 sec. in 1-sec. increments
- Information banner (p. 10)

Update the software at appropriate intervals to ensure that the TV's performance and functions are updated. For details (p. 32)

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



- On: Automatically performs a search in standby at 3:00 AM and 5:00 AM and downloads an update, if any

■ To update immediately

→ Select "System Update Search Now" → Searches for an update (for several min.) and displays a corresponding message if any → OK → Downloads (for about 20 min.)

- The message might be the notification beforehand. In this case, the schedule information (the date that the new version can be used) will appear.

■ View software licence information

→ Select "Software Licence" → Display

Editing and Setting Channels

The current channel settings can be changed according to your needs and reception conditions.



- 1 Display the menu**
MENU
- 2 Select "Setup menu"**
Main menu
Picture menu
Sound menu
Setup menu
- 3 Select "Tuning menu"**
Setup menu
Q-Link
AV2 out
Control with HDMI
Teletext
Off timer
Text language
Side panel
Power save
Tuning menu
System language
Shipping condition
- 4 Select the function**
Tuning menu
Programme edit
Auto setup
Manual tuning
Fine tuning
Colour system
Volume correction
Decoder (AV2)
- 5 Set**

■ To exit
EXIT

For Manual tuning, using the buttons on the TV ("Tuning mode" on p. 7)

- ① F (Press repeatedly until "Tuning mode" appears)
 - ② -/V or +/A (Access "Manual tuning")
 - ③ TV/AV (Programme, Channel (select), Sound system)
 - ④ -/V or +/A (Change programme or start searching channels)
 - ⑤ STR (Store)
 - ⑥ ③-⑤ (Repeat)
- To return to TV
F
- Programme number (flash)
Channel number (flash)
Sound system (flash)
Channel

Edit channels

Programme edit

- Delete
- Add
- Move
- Change channel number
- Change name
- Lock
- Change sound system
- Download to equipment

Set automatically

Auto setup

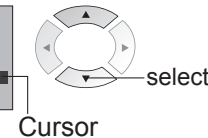
Set manually

Manual tuning

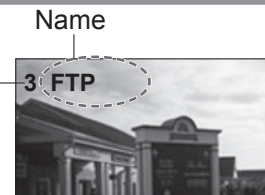
(Analogue mode)

① Select the programme number to edit

Prog.	Chan.	Name	Lock	Sys
1	CH44	ABC	Off	SC1
2	CH51	XYZ	Off	SC1
3	CH41	FTP	Off	SC1
4	CH47	123	Off	SC1
5	CH37	456	Off	SC1



Programme number



② Edit

- To delete → red → After confirming, press red
- To add → green → After confirming, press green
- To move → yellow → Select destination → yellow

■ To change channel number

Prog.	Chan.	Name	Lock	Sys
1	CH44	ABC	Off	SC1
2	CH51	XYZ	Off	SC1
3	CH41	FTP	Off	SC1
4	CH47	123	Off	SC1
5	CH37	456	Off	SC1

Select the "Chan." field

Change number (Can also be changed with "C" and number buttons)

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

Prog.	Chan.	Name	Lock	Sys
1	CH44	ABC	Off	SC1
2	CH51	XYZ	Off	SC1
3	CH41	FTP	Off	SC1
4	CH47	123	Off	SC1
5	CH37	456	Off	SC1

Select the "Name" field

Select the character

To next character

Repeat

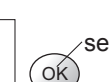
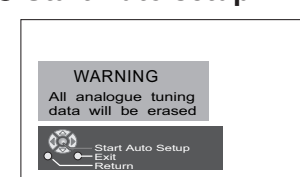
Usable characters

③ Store

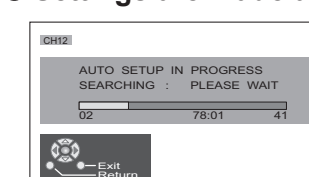


Automatically set the channels received in the area

① Start Auto setup



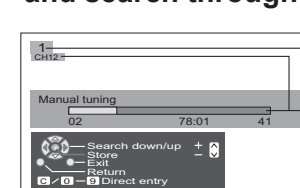
② Settings are made automatically



- The settings are downloaded to a Q-Link compatible equipment connected to the TV.
- All previous settings are erased.
- When the sequence is completed, the broadcast of programme number "1" will appear.

To freely change settings after Auto setup

① Select the programme number and search through the channel



Programme number
Channel



② Store

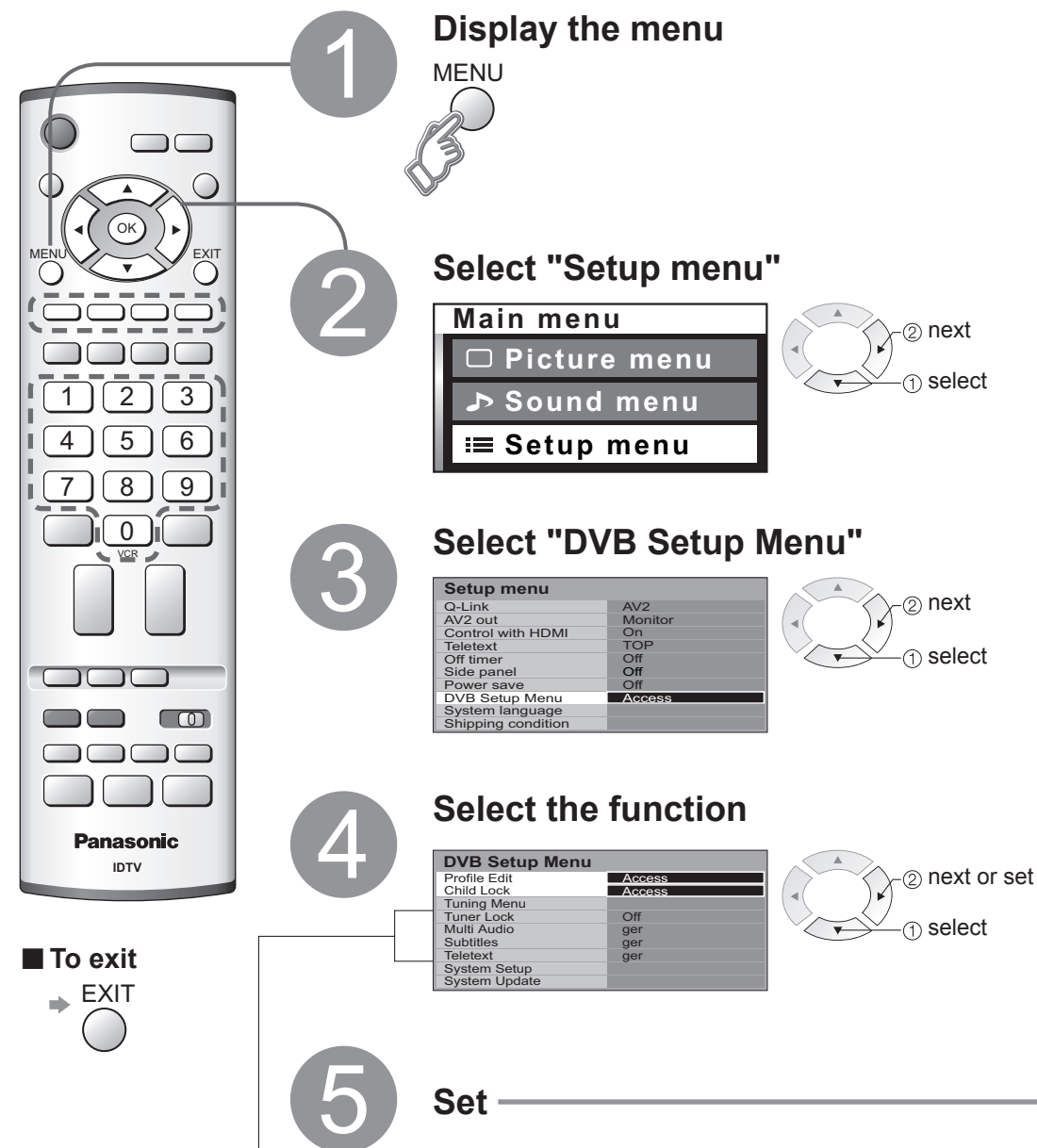
③ Repeat ① and ②

Note

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

Editing and Setting Channels

Your favourite channels can be listed, and children can be prevented from watching specific channels.

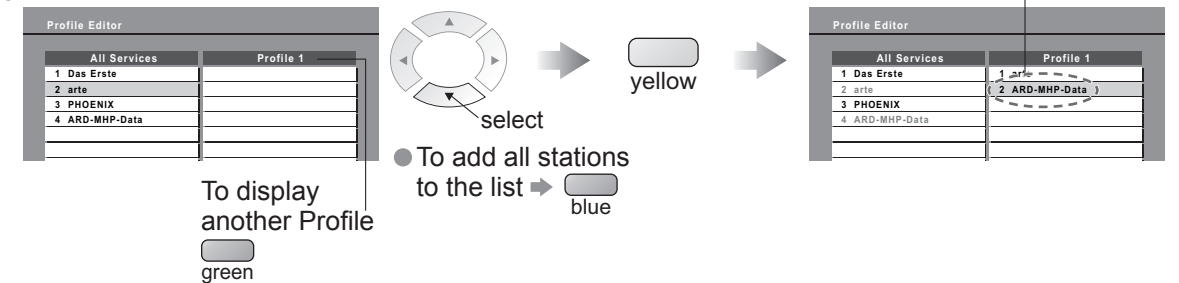


Item	Adjustments / Configurations
Tuner Lock	Prevents you from accidentally changing programme while recording a DVB broadcaster. If the TV is turned to Standby mode while Tuner Lock is On, the DVB tuner will remain active to ensure recording can still take place. ● Use for the recording without watching DVB broadcaster. ● Do not switch the TV Off during recording. ● Even if the TV is switched On or Off, this setting is memorized. ● While recording a DVB programme, it is possible to change to the Analogue programmes to watch.
Multi Audio	Selects from several sound tracks (varies depending on the broadcaster). ● This setting is available only for the present broadcaster.
Subtitles	Selects the language for subtitles (varies depending on the broadcaster). ● This setting is available only for the present broadcaster.
Teletext	Selects the language for teletext mode (varies depending on the broadcaster). ● This setting is available only for the present broadcaster.

(DVB mode)

Create your favourite channel list (Profile) from various broadcasters (up to 4: Profile 1 to 4). The list is displayed in information banner (p. 10) and then easily accessed.

① Select a broadcaster and add it to the list



② **Store**



■ To edit Profile

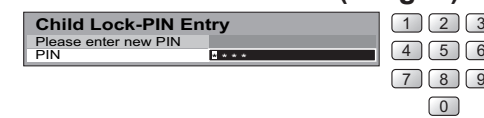


▶ Move the cursor to the field of Profile to edit and:

- Name the Profile →  red
- Move the station →  green → Select the position  → Confirm  green →  OK
- Delete the station →  yellow
- Delete all stations →  blue

You can lock specific broadcasters so that children cannot watch 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)**

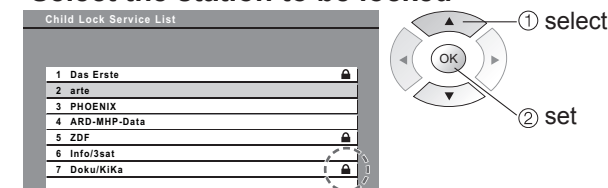


- Enter the PIN number twice at first setting.
- Make a note of the PIN number in case you forget it.

② **Select "Child Lock Service List"**



③ **Select the station to be locked**



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

Appears when the station is locked

■ To change the PIN number

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

Note

- Setting "Shipping condition" (p. 32) erases the PIN number and all settings.

List favourite channels

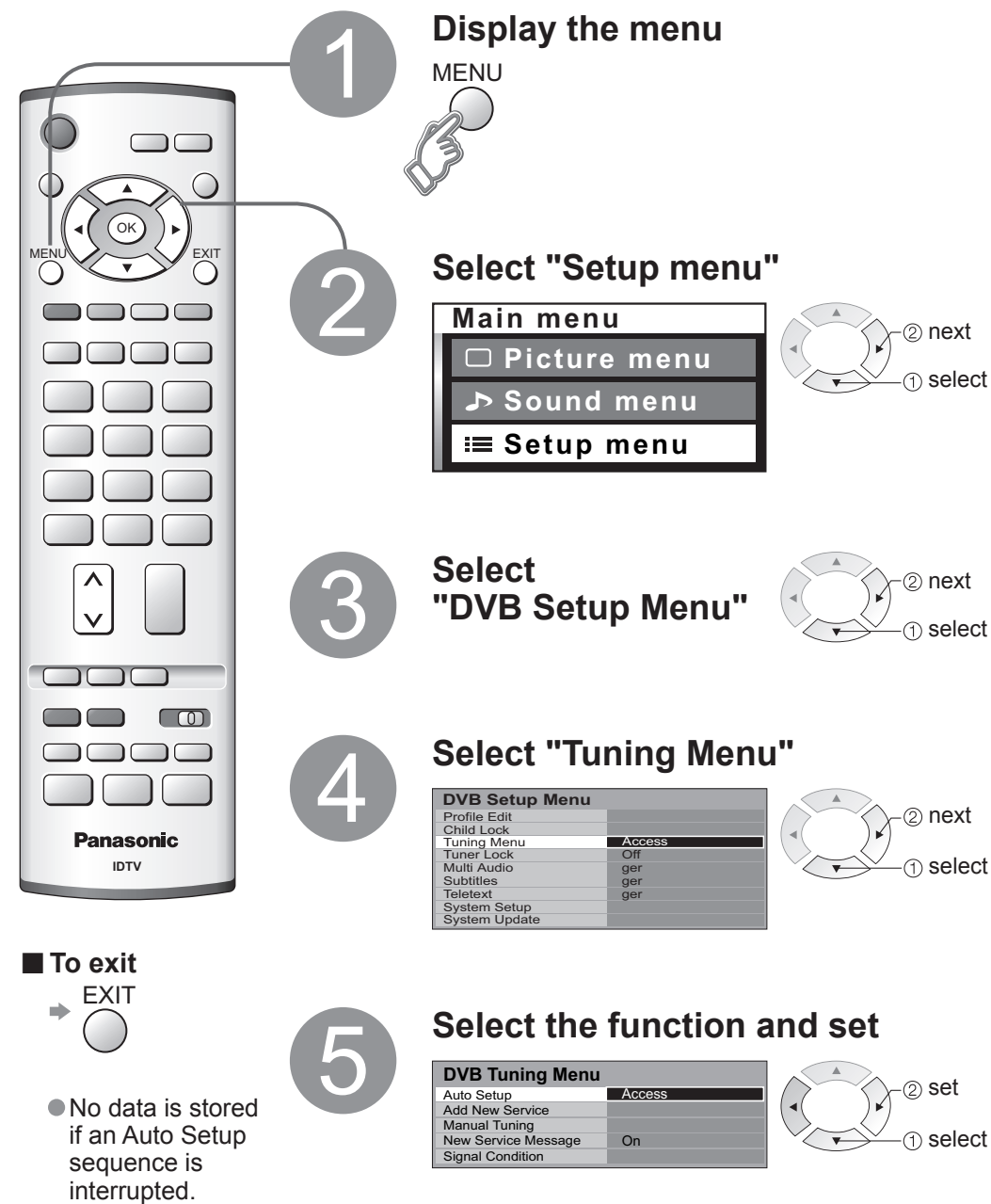
Profile
Edit

Prevent children from watching specific channels

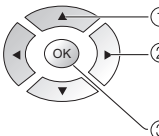
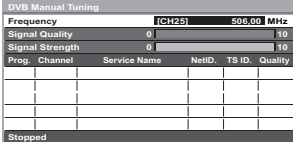
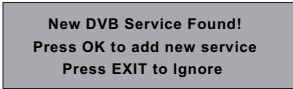
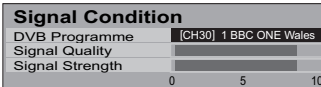
Child Lock

Editing and Setting Channels

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



(DVB mode)

Item	Adjustments / Configurations
Auto Setup	Automatically sets the DVB channels in the area. ● The current setting is erased. ● If a Child Lock PIN number (p. 22) has been set, it must be entered again.
Add New Service	Adds a new DVB service. ● A new station is added to the DVB channel list, when found. ● The new station is added with the current settings saved as they are.
Manual Tuning	Sets the DVB channels manually. Normally use "Auto Setup" or "Add New Service" for the channel setting. If tuning has not done completely, use this function.  ① select channel ② adjust frequency (set where the level of "Signal Quality" becomes the maximum) ③ search 
New Service Message	Selects whether to give a notification message when a new DVB service is found. (On / Off) (Message example) 
Signal Condition	Selects a channel and checks the DVB signal condition. Use for adjusting the direction of the aerial. Signal Quality: ● Green bar ➡ Good ● Yellow bar ➡ Poor ● Red bar ➡ Bad (Check the aerial) ● To change the programme during the menu appears ➡  

External Equipment

Q-Link

Q-Link interlocks 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 AV2 or AV3 terminal via a "fully-wired" SCART cable. (p. 28)
- Q-Link terminal setup in Setup menu (Q-Link, AV2/AV3 out). (p. 16)

■ **Download analogue channel settings**

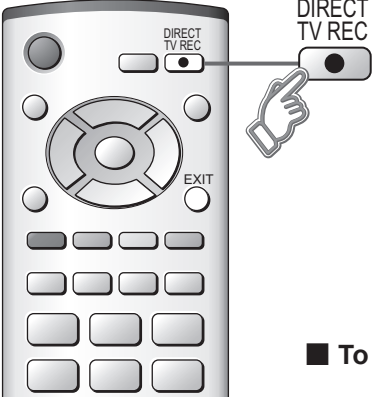
- Perform Auto setup. (p. 20)
When first using this TV, see "Auto Setup". (p. 9)
- Perform download to the equipment. (p. 20)

■ **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).
- Do not turn the TV off during recording AV source. Otherwise 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. (but not for the Analogue channel.)

■ **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

Insert a videocassette or DVD in the recording equipment and it is operated, 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)

• "Megalogic" (a trademark of Grundig Corporation)

• "Easy Link" (a trademark of Philips Corporation)

• "SMARTLINK" (a trademark of Sony Corporation)

Read the manuals of the equipment too.

Control with HDMI "HDAVI Control™"*

*Enjoy additional HDMI Inter-Operability with Panasonic products which have "HDAVI Control" function. HDMI connections to some Panasonic equipments (Panasonic DVD Recorder DIGA, Panasonic Player theatre, Panasonic Amplifier, etc.) allow you to enjoy the easy playback or home theatre. About connections, see "Connections" (p. 29). Read the manuals of the equipment too. Non-HDMI-compliant cables cannot be utilized. About applicable equipments, consult your local Panasonic dealer.

After connections turn the equipments on and then, switch the TV on.



1 **Display the menu**

2 **Select "Setup menu"**

3 **Select "Control with HDMI"**

4 **Select "On" (default is On)**

Main menu

- Home theatre
- Picture menu
- Sound menu
- Setup menu**

Setup menu

Q-Link	AV2
AV2 out	Monitor
Control with HDMI	On
Teletext	TOP
Off timer	Off
Text language	West
Side panel	Off
Power save	Off
Tuning menu	
System language	
Shipping condition	

Easy playback

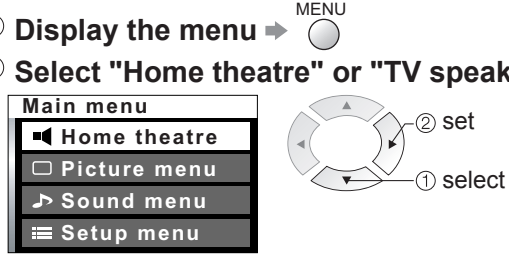
Automatic Input switching-When the connected Panasonic equipment is operated, input mode is switched automatically. When it is stopped operating, input mode is returned.

Theatre speaker

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

① **Display the menu**

② **Select "Home theatre" or "TV speaker"**



Main menu

- Home theatre**
- Picture menu
- Sound menu
- Setup menu

■ **Home theatre:**
Adjustment for equipment (automatically turned on if it is in Standby mode)
Volume up / down → 
Mute → 

■ **TV speaker:**
TV speakers are active.

- When selecting "Home theatre", the sound of TV speakers is mute.
- When the equipment is turned off, TV speakers will be active.

Power on link

When the connected Panasonic equipment is operated, TV is also automatically turned on and the content is reproduced. (Only when TV is in Standby mode.)

Power off link

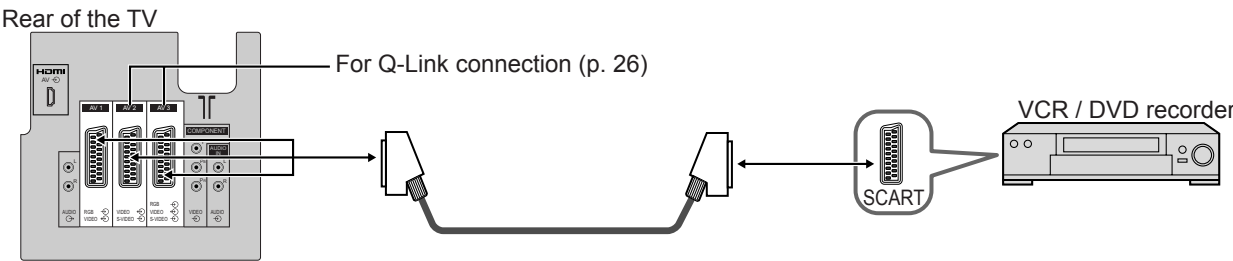
When TV is set to Standby mode, the connected Panasonic equipment is also automatically set to Standby.

External Equipment

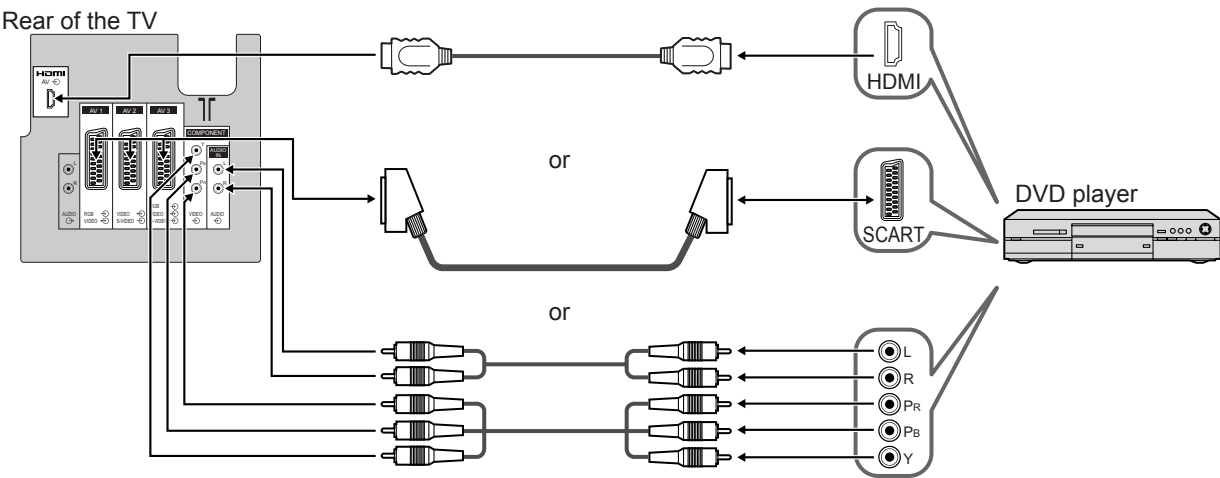
Connections

● External equipments and cables shown are not supplied with this TV.

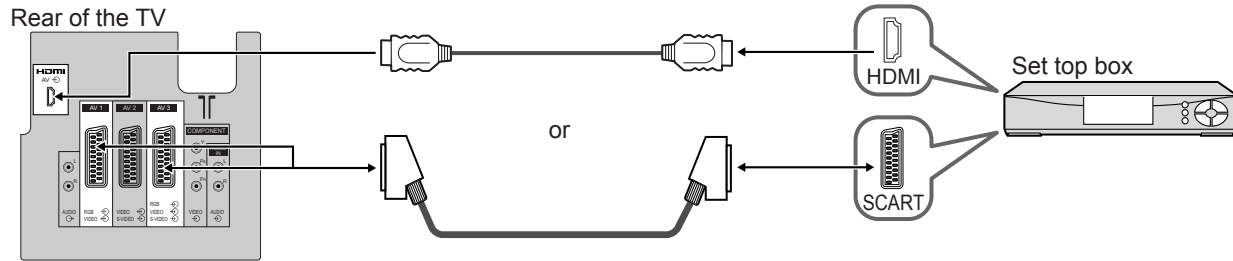
■ Connect VCR / DVD recorder (Recording, Playback)



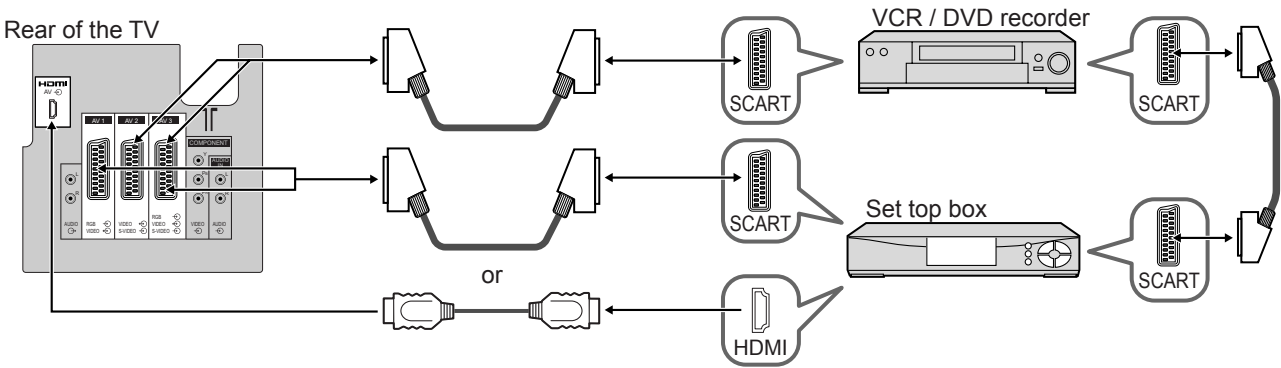
■ Connect DVD player (Playback)



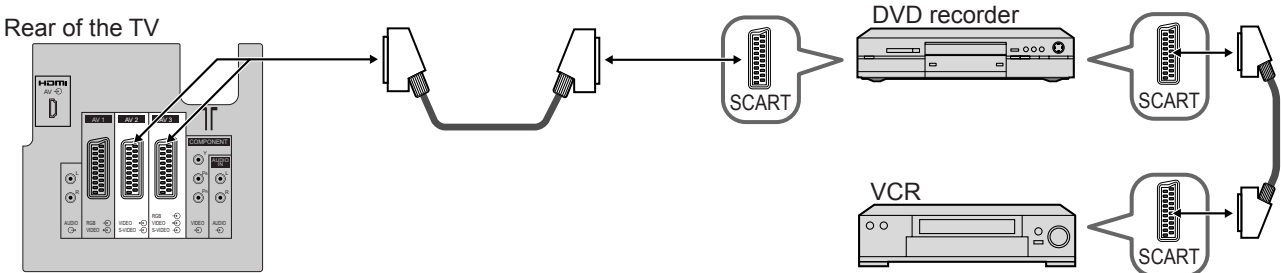
■ Connect Set top box (RGB input)



■ Connect VCR / DVD recorder and Set top box (example)

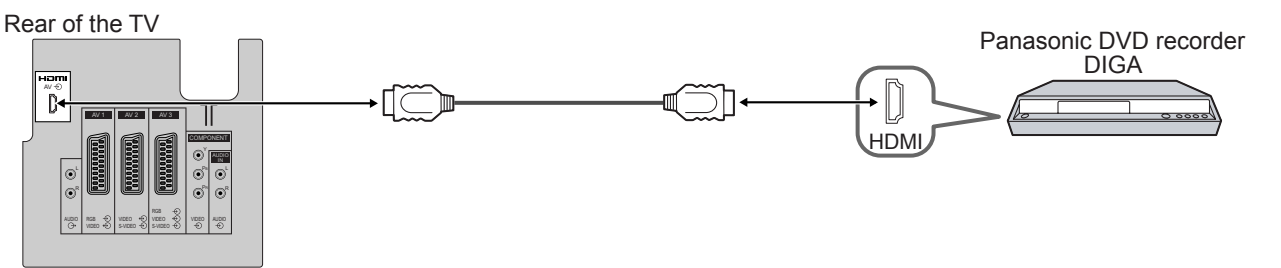


■ Connect DVD recorder and VCR (example)

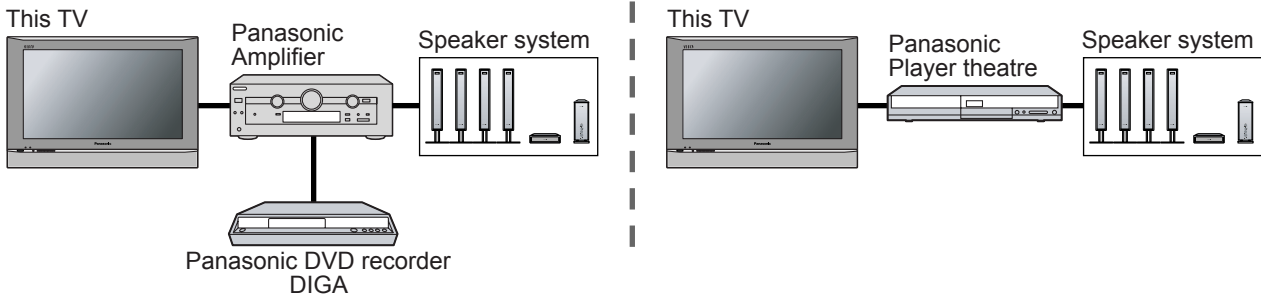


Control with HDMI (p. 27)

■ Easy playback



■ Home theatre

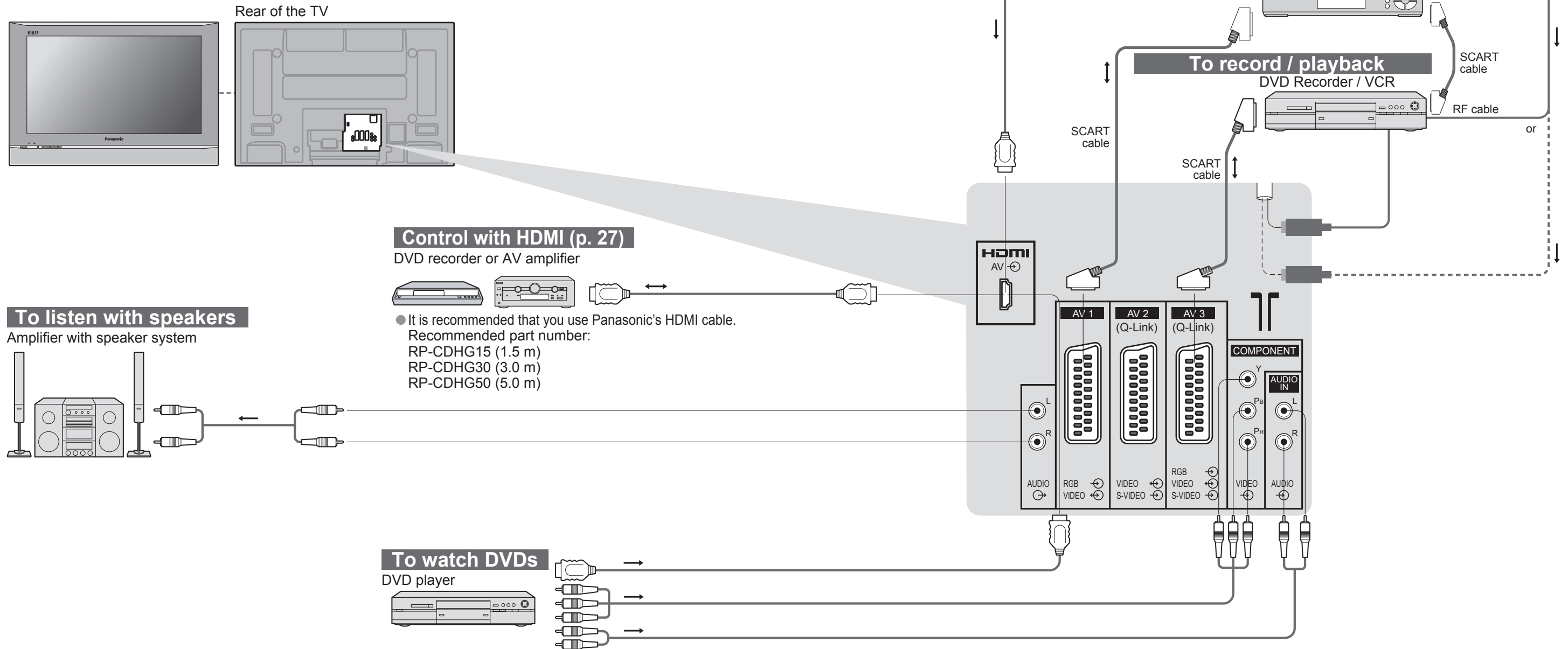


Read the manuals of Panasonic Amplifier or Player theatre for details.

External Equipment

Connections (overview)

These diagrams show our recommendations for how to connect the TV to your various equipment. For other connections, consult the instructions of each equipment, the table below, and the specifications (p. 39).



Types of connectable equipment to each connector

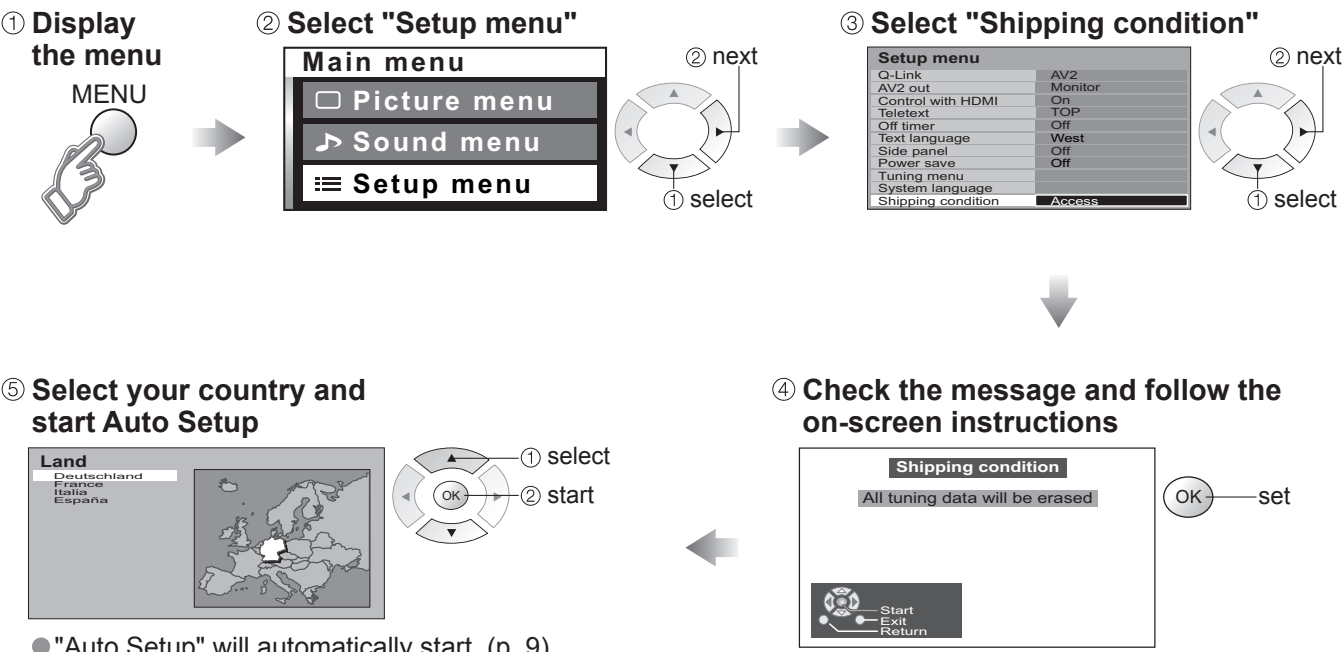
Connector	AV1	AV2	AV3	COMPONENT	HDMI
Recording / Playback (equipment)					
■ To record / playback videocassettes / DVDs (VCR / DVD recorder)	☐	☐	☐		
■ To watch DVDs (DVD player)	☐	☐	☐	☐	☐
■ To watch camcorder images (Video camera)	☐	☐	☐		
■ To watch satellite broadcasts (Set top box)	☐		☐		☐
■ To play games (Game equipment)	☐		☐		
■ Q-Link		☐	☐		
■ Direct TV Recording		☐	☐		
■ Control with HDMI					☐

○: Recommended Connection

Technical Information

Shipping condition (Restore settings)

Shipping condition will reset all settings, even if Child Lock PIN number (p. 22), clearing all DVB and Analogue tuning data and resetting all control levels back to factory settings.



● "Auto Setup" will automatically start. (p. 9)

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. 18)
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. 18)
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.

Aspect Ratio

The optimum size and aspect can be chosen, and you can enjoy finer images. (p. 11)

■ 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 terminal (pin 8)		
		Auto aspect	16:9	14:9	Just	4:3	4:3 Full	Zoom1	Zoom2	Zoom3	TV	AV1	AV2	AV3	Component	AV1	AV2	AV3
TV/AV1/AV2/AV3	PAL	O	O	O	O	O	—	O	O	O	O	O	O	O	—	O	O	O
	PAL 525/60	O	O	O	O	O	—	O	O	O	—	—	—	—	—	O	O	O
	DVB	O	O	O	O	O	—	O	O	O	O	—	—	—	—	—	—	—
	M.NTSC	O	O	O	O	O	—	O	O	O	—	—	—	—	—	O	O	O
	NTSC (AV input only)	O	O	O	O	O	—	O	O	O	—	—	—	—	—	O	O	O
Component/HDMI	525(480)/60i	O	O	O	O	O	—	O	O	O	—	—	—	—	—	—	—	—
	525(480)/60p	O	O	O	O	O	—	O	O	O	—	—	—	—	—	—	—	—
	625(576)/50i	O	O	O	O	O	—	O	O	O	—	—	—	—	O	—	—	—
	625(576)/50p	O	O	O	O	O	—	O	O	O	—	—	—	—	O	—	—	—
	750(720)/50p	O	O	O	O	O	O	O	O	O	—	—	—	—	—	—	—	—
	750(720)/60p	O	O	O	O	O	O	O	O	O	—	—	—	—	—	—	—	—
	1125(1080)/50i	O	O	O	O	O	O	O	O	O	—	—	—	—	—	—	—	—
	1125(1080)/60i	O	O	O	O	O	O	O	O	O	—	—	—	—	—	—	—	—

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.)
- To select the ratio manually:

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

Technical Information

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.

- 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 HDMI 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.
- Audio settings can be made on the "HDMI input" menu screen. (p. 16)
- Applicable audio signal sampling frequencies (2ch L.PCM): 48 kHz, 44.1 kHz, 32 kHz

(*1): The HDMI logo is displayed on an HDMI-compliant equipment. (*2): Enquire at your local digital equipment retailer shop.

Note

- Use with a PC is not assumed.
- The 720p/1080i signals will be reformatted before being displayed on the screen.
- If the connected equipment has an aspect adjustment function, set the aspect ratio to "16:9".
- This HDMI connector is "type A".
- 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 and 1080i. Match the output setting of the digital equipment.
- For details of the applicable HDMI signals, see p. 35.

Control with HDMI

HDMI connections to some Panasonic equipments allow you to enjoy the easy playback or home theatre.

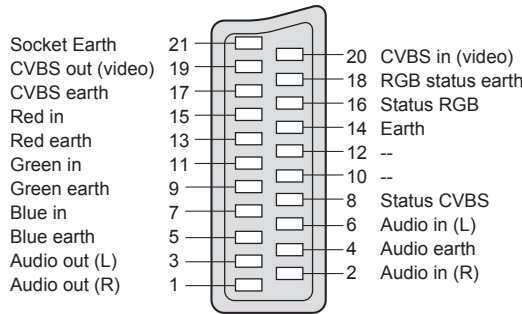
- Setup the equipment to enable this function. Read the manual of the equipment.
- Switch the TV unit on again with the equipment on when connection or setup is changed.
- This function may not work normally depending on the equipment condition.
- This function may not work normally when Panasonic Player theatre is connected.
- The equipment can be operated by TV's remote control with this function on even if TV is in Standby mode.
- 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. Read the manuals of Amplifier.

SCART and HDMI terminal information

AV1 SCART terminal

(RGB, VIDEO)

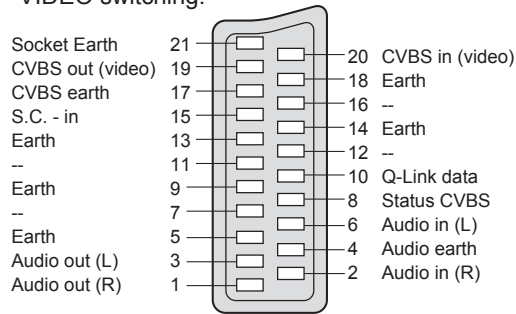
Suitable inputs for AV1 include RGB (Red / Green / Blue).



AV2 SCART terminal

(VIDEO, S-VIDEO, Q-Link)

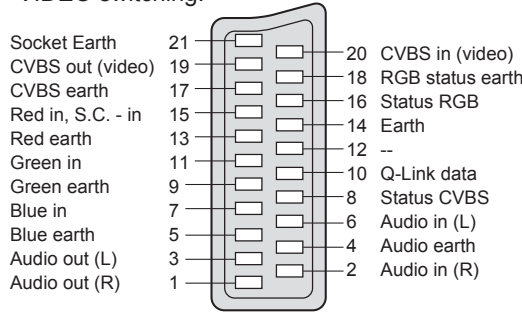
AV2 - Pins 15 and 20 are dependent on AV2 S-VHS / VIDEO switching.



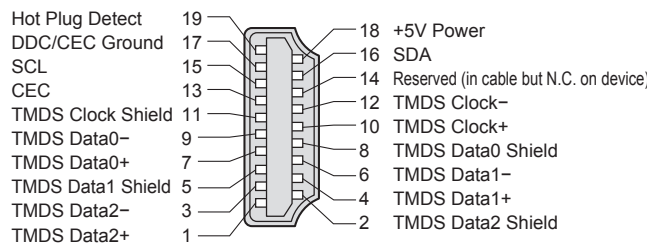
AV3 SCART terminal

(RGB, VIDEO, S-VIDEO, Q-Link)

AV3 - Pins 15 and 20 are dependent on AV3 S-VHS / VIDEO switching.



HDMI terminal



Input signal that can be displayed

* Mark: Applicable input signal for Component (Y, Pb, Pr) and HDMI

Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)	Component	HDMI
525 (480) / 60i	15.73	59.94	*	*
525 (480) / 60p	31.47	59.94	*	*
625 (576) / 50i	15.63	50.00	*	*
625 (576) / 50p	31.25	50.00	*	*
750 (720) / 60p	45.00	60.00	*	*
750 (720) / 50p	37.50	50.00	*	*
1,125 (1,080) / 60i	33.75	60.00	*	*
1,125 (1,080) / 50i	28.13	50.00	*	*

Note

- Signals other than above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.

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 or Panasonic Customer Care Centre for assistance.

White spots or shadow images (noise)



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

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.

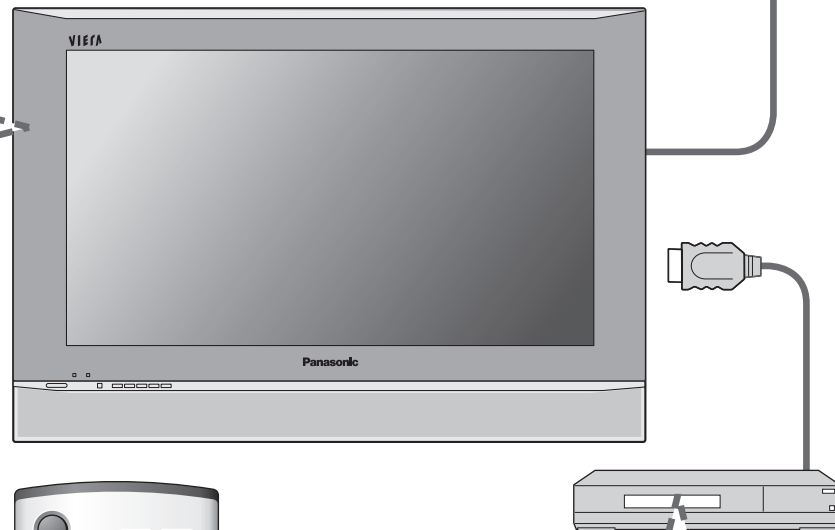
Interference or frozen / disappearing image in DVB



- Check "Signal Condition". (p. 25) 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 On / Off switch, then turn it on again.

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 "Signal Condition" in Tuning Menu (p. 25). 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.



Pictures from an equipment are unusual when the equipment is connected via HDMI

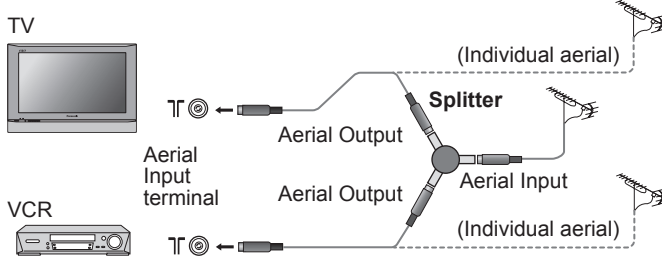
- Is the HDMI cable connected properly? (p. 30)
- Turn Off the TV and equipment, then turn them On again.
- Check an input signal from the equipment. (p. 35)
- Use an equipment compliant with EIA/CEA-861/861B.

The remote control does not work

- Are the batteries installed correctly? (p. 6)
- Has the TV been switched On?

Problem	Actions
VIERA logo appears at the four corners of the screen	● The function to prevent after-image is activated. (Not a faulty symptom) ● The screen saver is activated if the TV is not operated for a certain time in AV mode. ● Contrast is lowered when radio, menu, etc. lasts for several minutes. ● "after-image" (p. 5)
Contrast is reduced	
Only one part remains dark	● A pixel or luminescent spot may occasionally be missing in plasma displays. (Not a faulty symptom)
Chaotic image, noisy	● Set "P-NR" in the Picture menu (to remove noise). (p. 16) ● Check nearby electrical products (car, motorcycle, fluorescent lamp).
No image can be displayed	● Is "Colour" or "Contrast" in the Picture menu set to the minimum? (p. 16)
Blurry or distorted image (no sound or low volume)	● Reset channels. (pp. 20 and 24) ● Some programmes may not be received when both Aerial and CATV signals are connected to the TV through a mixer. In this case, connect either Aerial or CATV signal directly to the TV.
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. 16) and volume.

FAQs

Problem		Actions	
Sound	No sound is produced	● Is "Sound Mute" active? (p. 7) ● Is the volume set to the minimum?	
	Sound level is low or sound is distorted	● Sound signal reception may be deteriorated. ● Set "MPX" (p. 16) in the Sound menu to "Mono". (Analogue only)	
DVB	● 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.		● Install an aerial individually for the TV and VCR (or use a splitter). 
	Unable to receive signals with a high-performance aerial		
HDMI	Sound is unusual	● Set the sound setting of the connected equipment to "2ch L.PCM". ● Check the "HDMI input" setting in the Sound menu. (p. 16) ● If digital sound connection has a problem, select analogue sound connection. (p. 34)	
	An error message appears	● Contact the authorized Service Centre.	
	"Control with HDMI" function does not work	● Switch the TV on again with the equipment on. ● Set "Control with HDMI" to "Off", then set to "On" again. (p. 27)	
Other	TV goes into "Standby mode"	● The sleep function is activated. ● The TV enters "Standby mode" about 30 min. after broadcasting ends.	
	An error message appears	● Follow the message's instructions. ● If the problem persists, contact the authorized Service Centre.	

Licence

Trademark Credits
● DVB is a trademark of the DVB Digital Video Broadcasting Project (1991 to 1996).
● HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
● HDAVI Control™ is a trademark of Matsushita Electric Industrial Co., Ltd.



Trade Mark of the DVB Digital Video Broadcasting Project (1991 to 1996)
TH-37PD60EH Declaration of Conformity No 4207, 7 June 2006
TH-42PD60EH Declaration of Conformity No 4206, 7 June 2006

Specifications

		TH-37PD60EH	TH-42PD60EH
Power Source		AC 220-240 V, 50 / 60 Hz	
Power Consumption	Average use	215 W	247 W
	Standby condition	0.3 W (Without Tuner Lock On) 20 W (With Tuner Lock On)	
Plasma Display	Drive method	AC type	
	Aspect Ratio	16:9	
	Contrast Ratio	Max 10000:1	
	Visible screen size	94 cm	106 cm
Sound		818 mm (W) × 461 mm (H) × 939 mm (diagonal)	920 mm (W) × 518 mm (H) × 1,056 mm (diagonal)
	No. of pixels	408,960 (852 (W) × 480 (H)) [2,556 × 480 dots]	
	Speaker	12 cm × 6 cm × 2 pcs, 8 Ω	
	Audio Output	20 W (10 W + 10 W), 10% THD	
Receiving Systems / Band name		PAL B, G, H, I, SECAM B, G, SECAM L / L'	
		VHF E2 - E12 VHF H1 - H2 (ITALY)	
		VHF A - H (ITALY) UHF E21 - E69	
		CATV (S01 - S05) CATV S1 - S10 (M1 - M10)	
		CATV S11 - S20 (U1 - U10) CATV S21 - S41 (Hyperband)	
		PAL D, K, SECAM D, K	
		VHF R1 - R2 VHF R3 - R5	
		VHF R6 - R12 UHF E21 - E69	
		PAL 525/60 : Playback of NTSC tape from some PAL Video recorders (VCR).	
		DVB : Digital terrestrial services via VHF / UHF aerial input.	
M.NTSC : Playback from M.NTSC Video recorders (VCR).			
NTSC (AV input only) : Playback from NTSC Video recorders (VCR).			
● TV signals may not be received in some areas.			
Aerial - Rear		VHF / UHF	
Operating Conditions		Temperature : 0 °C - 40 °C	
Connection Terminals	AV1 (Scart terminal)		21 Pin terminal (Audio/Video in, Audio/Video out, RGB in)
	AV2 (Scart terminal)		21 Pin terminal (Audio/Video in, Audio/Video out, S-Video in, Q-Link)
	AV3 (Scart terminal)		21 Pin terminal (Audio/Video in, Audio/Video out, RGB in, S-Video in, Q-Link)
	Others	COMPONENT	Y 1.0 V[p-p] (including synchronization) PB, PR ±0.35 V[p-p]
		HDMI	TYPE A Connector
		AUDIO L - R	RCA PIN Type × 2 0.5 V[rms]
	Output	AUDIO L - R	RCA PIN Type × 2 0.5 V[rms] (high impedance)
Dimensions (W × H × D)		968 mm × 641 mm × 97 mm (TV Set only)	1,068 mm × 701 mm × 97 mm (TV Set only)
		968 mm × 704 mm × 320 mm (With Pedestal)	1,068 mm × 764 mm × 320 mm (With Pedestal)
Weight		25.0 kg Net (TV Set only)	29.0 kg Net (TV Set only)
		27.0 kg Net (With Pedestal)	31.0 kg Net (With Pedestal)

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