Panasonic®

Operating Instructions
Plasma Television

Model No. **TH-37PV8PA**
TH-42PV8PA
TH-50PV8PA

VIErA

VIErA Link

Q Link

HD ready

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

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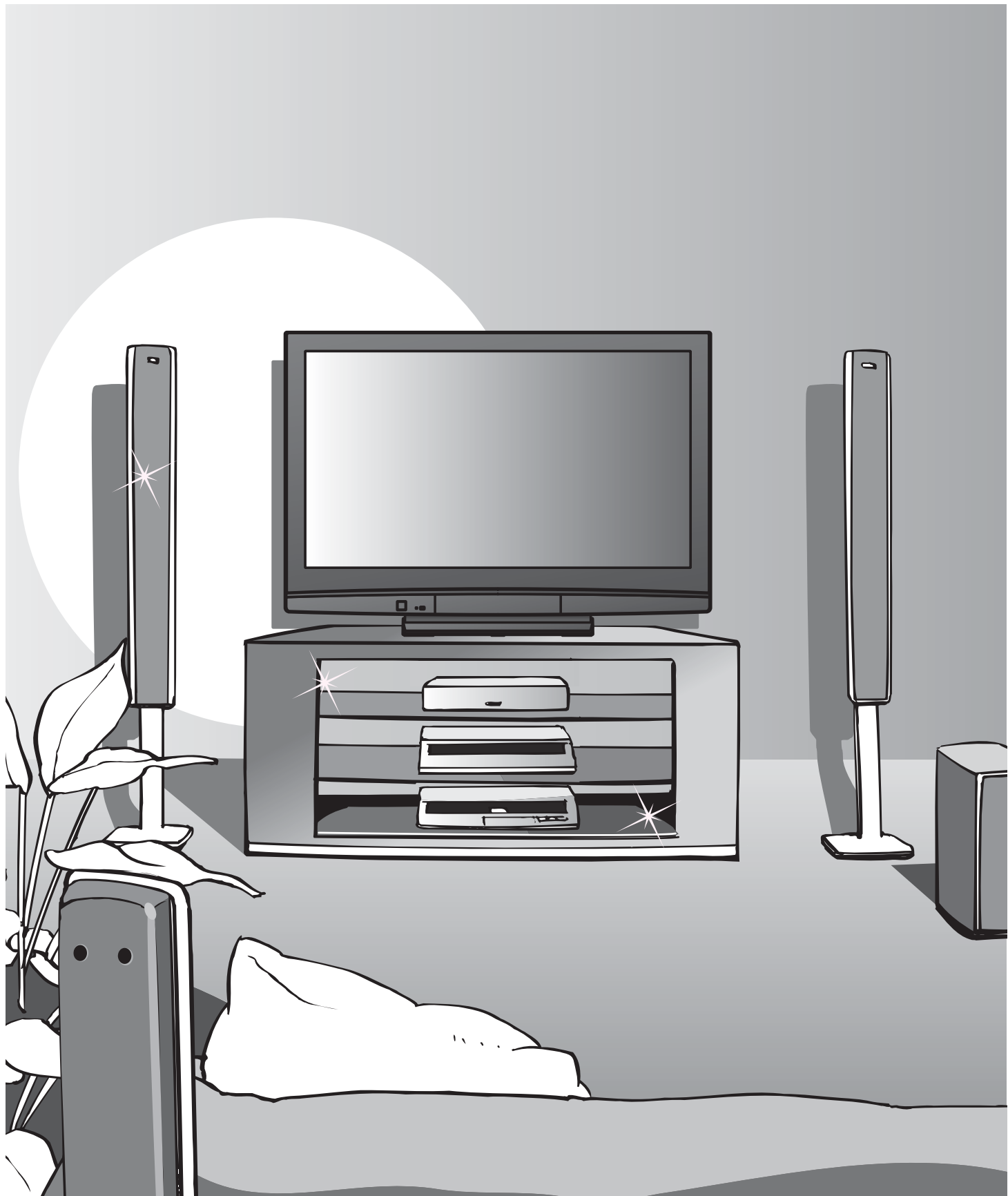Please refer to Pan European Guarantee Card if you need to contact your local Panasonic dealer for assistance.
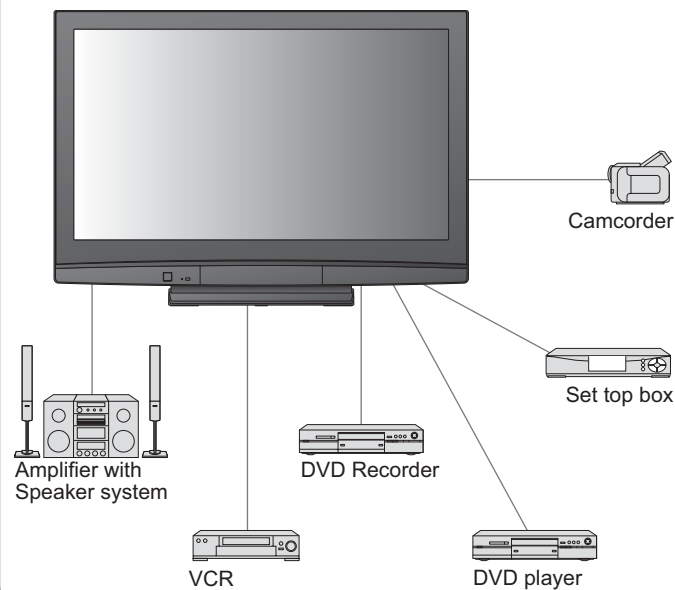
English

TQB0E0738U

Turn your own living room into a movie theatre!

Experience an amazing level of multi-

media excitement

Enjoy rich multi-media

Camcorder

Set top box

DVD Recorder

Amplifier with
Speaker system

VCR

DVD player

Up to 100,000 hours Plasma Panel Lifetime
The Plasma display panel used in the 2008 VIERA TV
range is rated for up to 100,000 hours.∗
∗This measurement is based on the time taken for the brightness of
the panel to reduce to half of it's maximum level.
The time taken to reach this level may vary depending on the
image content and the environment where the TV is used.
Image retention and malfunctions are not taken into account.

Contents

Quick Start Guide

Viewing

Advanced

FAQs, etc.

Safety Precautions

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 earth pin on the mains plug is securely connected to prevent electrical shock.
  ● An apparatus with CLASS I construction shall be connected to a mains socket outlet with a protective earthing connection.
● Do not touch the mains plug with a wet hand. (This may cause electrical shock.)
● Do not use any mains lead other than that provided with this TV. (This may cause fire or 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!
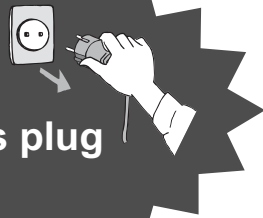
AC 220-240 V 50 / 60 Hz

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

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.

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

Do not place foreign objects inside the TV
● Do not allow any objects to drop into the TV through the air vents (fire or electrical shock may result).

Do not place the TV on sloped or unstable surfaces
● The TV may fall off or tip over.

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

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Notes

Caution

■When cleaning the TV, remove the mains plug
● Cleaning an energized TV may cause electrical shock.

### ■When the TV is not going to be used for a long period of 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.

■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

(cm)
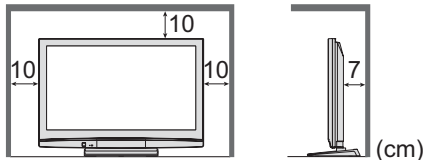
● When using the pedestal, keep the space between the bottom of the TV and the floor surface.
● In case of using Wall-hanging bracket, follow the manual of it.

■Do not block the rear air vents
● Blocked ventilation by newspapers, table cloths, curtains, etc. may cause overheating, fire or electrical shock.

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

Do not display a still picture for a long time
This causes the image to remain on the plasma screen ("image retention").
This is not considered a malfunction and is not covered by the warranty.

Typical still images
● Programme number and other logos
● Image displayed in 4:3 mode
● Video game

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

■Auto power standby function
● If no signal is received and no operation is performed in TV mode for 30 minutes, the TV will automatically go to standby mode.

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

Maintenance

First, remove the mains plug from the socket outlet.

Display panel

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

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

Cabinet, Pedestal

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

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

Mains plug

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

Accessories / Options

Standard accessories   Check that you have the accessories and items shown ☑
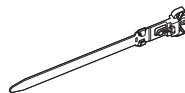
☐ Remote Control
- N2QAYB000223

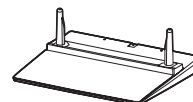☐ Batteries for the Remote Control (2)
- R6 (UM3)

☐ Clamper
➡ p. 8

☐ Mains Lead
➡ p. 11

☐ Operating Instructions

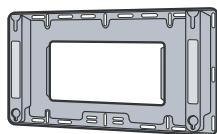☐ Pan European Guarantee Card

☐ Pedestal
➡ p. 7

- This product contains possibly dangerous parts (such as plastic bags), that can be breathed in or swallowed by young children accidentally. Keep these parts out of reach of young children.
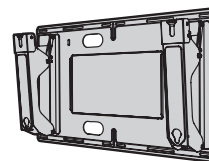
Optional accessories

Wall-hanging bracket (vertical)
- TY-WK42PV3W
- TY-WK42PV4W

(angle)
- TY-WK42PR3W
- TY-WK42PR4W

Caution
- In order to maintain the unit's performance and safety, be absolutely sure to ask your dealer or a licenced contractor to secure the wall-hanging brackets.
- Carefully read the instructions accompanying the pedestal, and be absolutely sure to take steps to prevent the TV from tipping over.
- Handle the TV carefully during installation since subjecting it to impact or other forces may cause product damage.

Installing / removing remote's batteries

1️⃣ Pull open

Hook

2️⃣ Close

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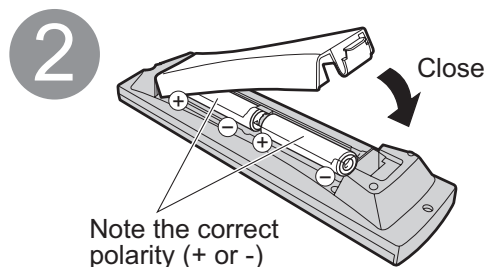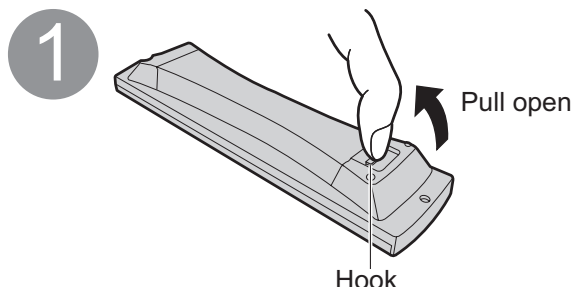
Caution
- Incorrect installation may cause battery leakage and corrosion, resulting in damage to the remote control.
- Do not mix old and new batteries.
- Do not mix different battery types (such as alkaline and manganese batteries).
- Do not use rechargeable (Ni-Cd) batteries.
- Do not burn or breakup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

Attaching the pedestal

Warning

Do not disassemble or modify the pedestal.
● Otherwise the TV may fall over and become damaged, and personal injury may result.

Caution

Do not use any other TV and displays.
● Otherwise the TV may fall over and become damaged, and personal injury may result.
Do not use the pedestal if it becomes warped or physically damaged.
● If you use the pedestal while it is physically damaged, personal injury may result. Contact your nearest Panasonic dealer immediately.
During set-up, make sure that all screws are securely tightened.
● If insufficient care is taken to ensure screws are properly tightened during assembly, the pedestal will not be strong enough to support the TV, and it might fall over and become damaged, and personal injury may result.
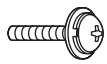**Ensure that the TV does not fall over.**
● If the TV is knocked or children climb onto the pedestal with the TV installed, the TV may fall over and personal injury may result.
Two or more people are required to install and remove the TV.
● If two or more people are not present, the TV may be dropped, and personal injury may result.

Ⓐ Assembly screw (4) (silver)	Ⓑ Assembly screw (4) (black)	Ⓒ Pole (2)	Ⓓ Base
● XYN5+F18FN	● THEL061N (TH-37PV8PA, TH-42PV8PA) ● THEL060N (TH-50PV8PA)	● R: TBLA3626 (TH-37PV8PA, TH-42PV8PA) TBLA3614 (TH-50PV8PA) ● L : TBLA3627 (TH-37PV8PA, TH-42PV8PA) TBLA3615 (TH-50PV8PA)	● TBLX0061 (TH-37PV8PA, TH-42PV8PA) ● TBLX0058 (TH-50PV8PA)
M5 × 18	M5 × 25	❶ L ❶ R	
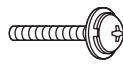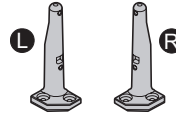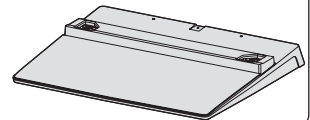
■ Assembling the pedestal

Use the four assembly screws Ⓐ to fasten the left and right poles to the base securely.
● Make sure that the screws are securely tightened.
● Forcing the assembly screws the wrong way will strip the threads.
● "L" or "R" mark is stamped on the bottom of the pole.

Front
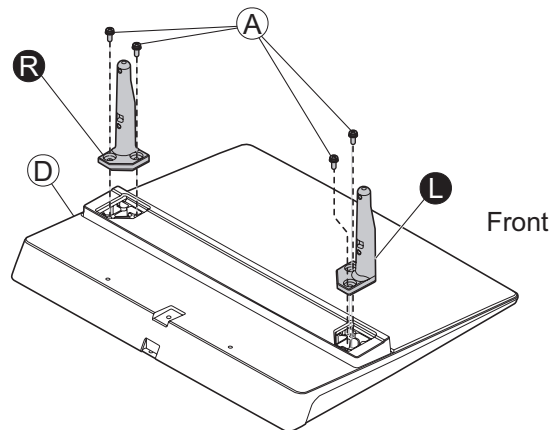
■ Securing the TV

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

View from the bottom

Arrow mark

Hole for pedestal installation

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Accessories / Options

Using the clamper

Rear of the TV

- 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.

■ Attach the clamper

hole

Insert the clamper in a hole

To remove from the TV:

① ②

snaps

① Keep pushing both side snaps

■ Bundle the cables

①

hooks ② Set the tip in the hooks

To loosen:

②

knob ① Keep pushing the knob

Identifying Controls

TV

Panasonic

Lift door to open

Function select
- Volume / Contrast / Brightness / Colour / Sharpness / Tint (NTSC mode) / Bass / Treble / Balance / Auto Setup (p. 27)

F −/V +/Λ TV AV

AV3

S-V V L — R

Changes the input mode

Headphones jack (p. 38)

AV3 terminals (p. 38)

Increases or decreases the programme position by one. When a function is already displayed, press to increase or decrease the selected function. When in Standby mode, switches TV On.

Remote control signal receiver

Mains power On / Off switch
- Switch On to turn on the TV or turn the TV to standby mode by the remote control

Power LED
- Standby: red
  On: green
- When using the remote control, indicates the TV has received a command.

Identifying Controls

Remote Control

Standby On / Off switch
- Switches TV On or Off standby

Aspect (p. 15)
- Changes aspect ratio from Aspect Selection list
- Also possible by pressing this button repeatedly until you reach the desired aspect

OK
- Confirms selections and choices
- Press after selecting programme positions to quickly change programme

Main Menu (p. 20)
- Press to access VIERA Link, Picture, Sound and Setup Menus

Surround (p. 22)
- Switches Surround On or Off

VIERA Link Menu (p. 35)
- Press to access VIERA Link Menu directly

Programme Information (p. 15)
- Displays programme information

Programme Up / Down
- Selects programme in sequence

Teletext (p. 16)
- Switches to teletext mode

Favourite Page (p. 17)
- Calls up the teletext page stored in blue button

VCR / DVD Panasonic equipment operations (p. 19)

Input mode selection
- TV - switches to TV mode (p. 18)
- AV - switches to AV input mode from Input Selection list (p. 18)

Exit
- Returns to the normal viewing screen

Cursor buttons
- Makes selections and adjustments

Return
- Returns to the previous menu

Coloured buttons
- Used for the selection, navigation and operation of various functions

Direct TV Recording (p. 33 and p. 35)
- Records programme immediately in DVD Recorder / VCR with Q-Link or VIERA Link connection

Option Menu (p. 14)
- Easy setting for viewing and sound options

Numeric buttons
- Changes programme and teletext pages
- When in Standby mode, switches TV On

Sound Mute
- Switches sound mute On or Off

Volume Up / Down

Hold
- Freeze / unfreeze picture (p. 14)
- Holds the current teletext page (teletext mode) (p. 17)

Index (p. 17)
- Returns to the teletext index page (teletext mode)

Panasonic
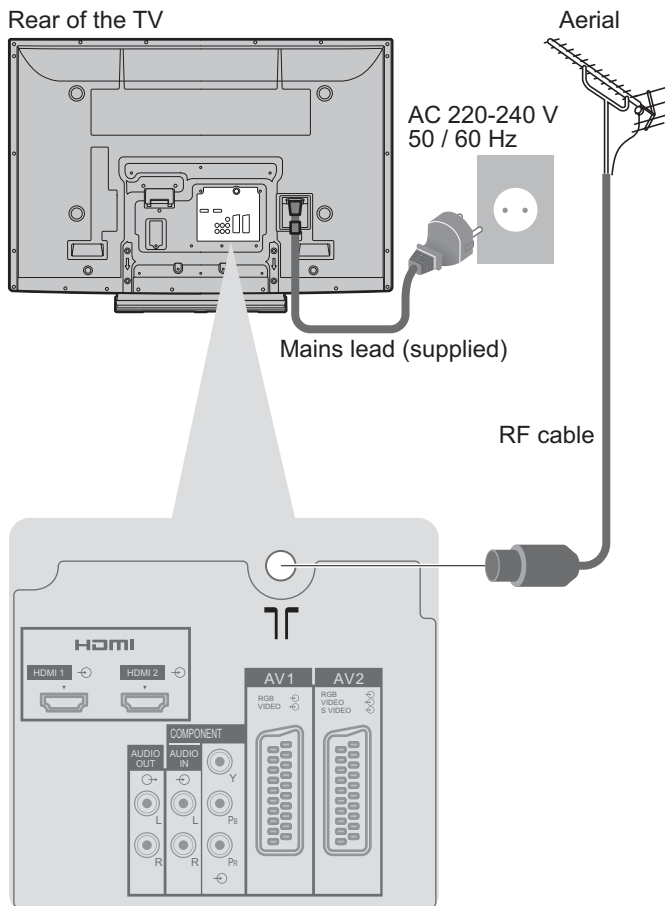TV

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Basic Connection

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

Example 1
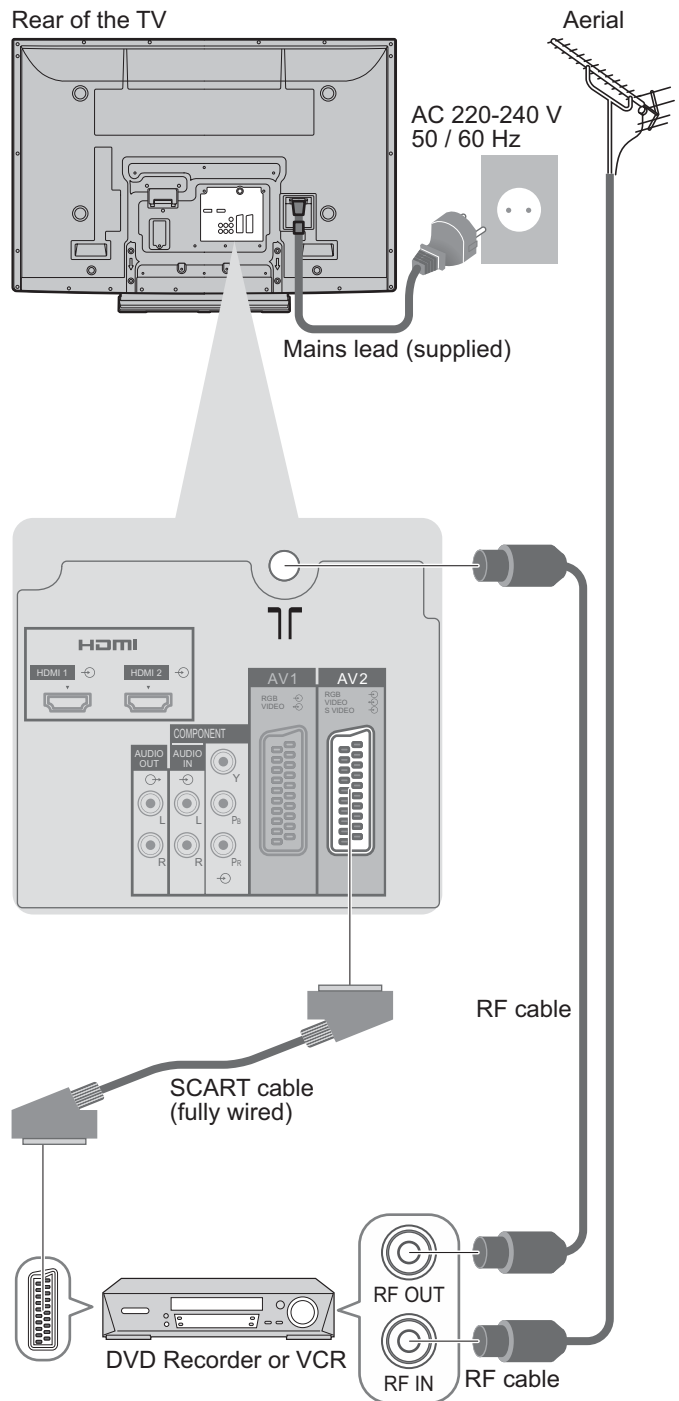## Connecting aerial

TV only

Rear of the TV   Aerial

AC 220-240 V
50 / 60 Hz

Mains lead (supplied)

RF cable

Example 2
Connecting DVD Recorder / VCR

TV, DVD Recorder or VCR

Rear of the TV   Aerial

AC 220-240 V
50 / 60 Hz

Mains lead (supplied)

RF cable

SCART cable
(fully wired)
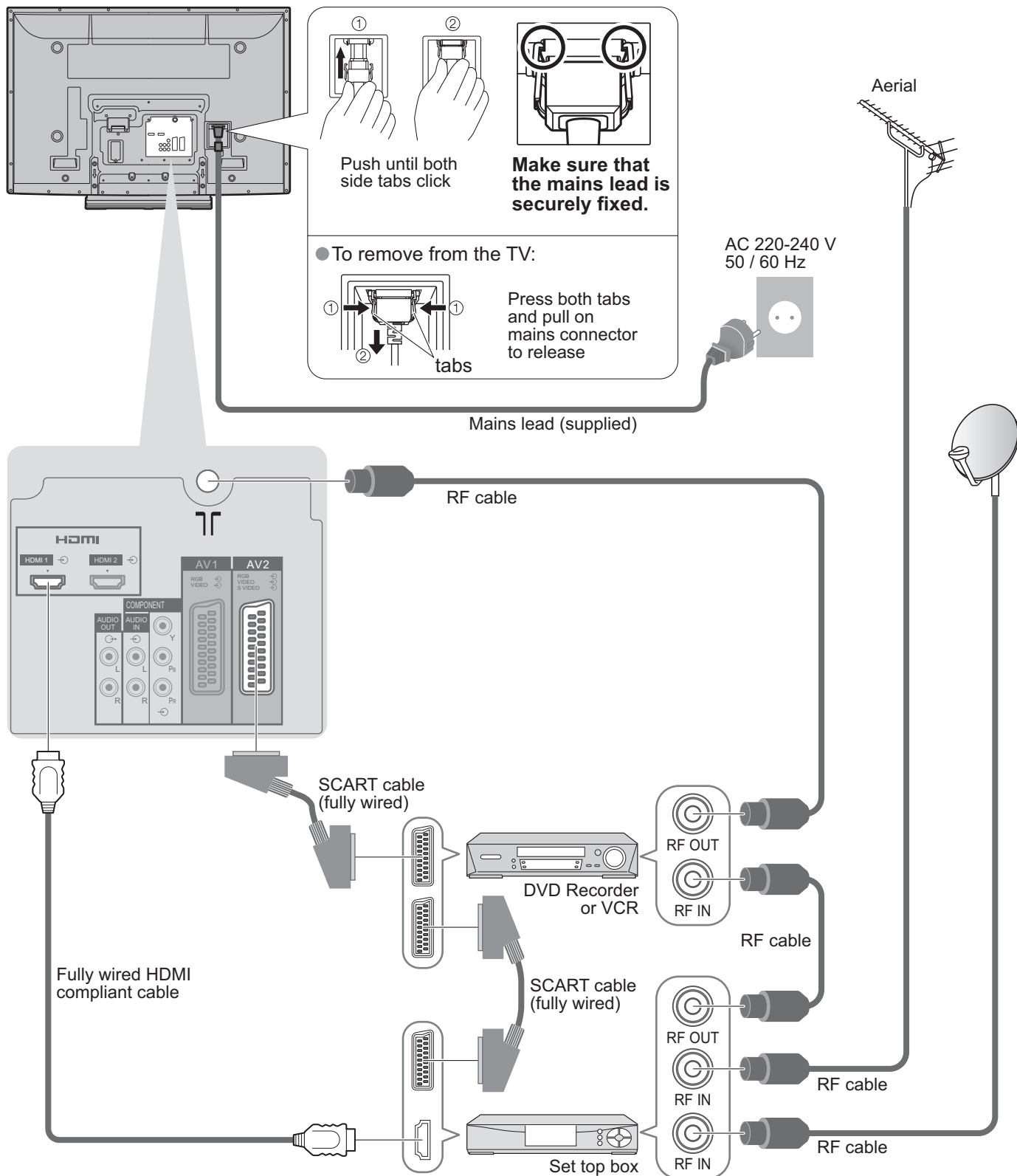
RF OUT

DVD Recorder or VCR

RF IN   RF cable

Note

● Connect to AV1 / AV2 for a DVD Recorder / VCR supporting Q-Link (p. 33).
● For HDMI-compatible equipment, possible to connect to HDMI terminals (HDMI1 / HDMI2) by using HDMI cable
   (p. 38).
● Q-Link connection ➡ p. 32
● VIERA Link connection ➡ p. 32
● Read the manual of the equipment too.

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Example 3
Connecting DVD Recorder / VCR and Set top box

TV, DVD Recorder / VCR and Set top box

Rear of the TV

① ②

Push until both side tabs click

Make sure that the mains lead is securely fixed.

● To remove from the TV:

① ①

②

tabs

Press both tabs and pull on mains connector to release

Aerial

AC 220-240 V
50 / 60 Hz

Mains lead (supplied)

RF cable

HDMI

HDMI 1   HDMI 2

AV1   AV2
RGB VIDEO   RGB VIDEO S VIDEO

COMPONENT
AUDIO OUT   AUDIO IN   Y
L   L   PB
R   R   PR

SCART cable
(fully wired)

DVD Recorder
or VCR

RF OUT

RF IN

RF cable

SCART cable
(fully wired)

RF OUT

RF IN

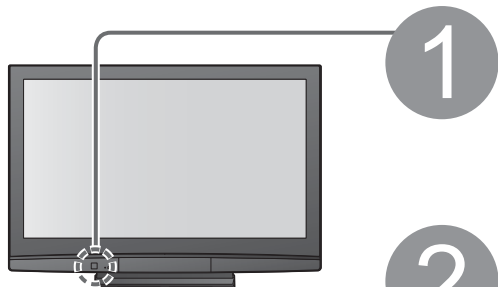RF cable

Fully wired HDMI
compliant cable

Set top box

RF IN

RF cable

11

Auto Setup

Search and store TV programmes 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)

⏻/I

● 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	Dansk	Polski	Srpski
English	Svenska	čeština	Hrvatski
Français	Norsk	Magyar	Slovenščina
Italiano	Suomi	Slovenčina	Latviešu
Español	Türkçe	Български	eesti keel
Português	Ελληνικά	Română	Lietuvių
Nederlands			
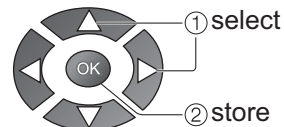
① select
② store

3 **Select your country**

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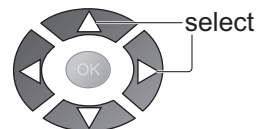
select

● Depending on the selected countries, you may also be required to select the region.

4 **Start Auto Setup**

OK

Auto Setup

| Scan | 2 | 78 | 1 | 41 |
This will take about 3 minutes.
| Channel | Service Name |
| CH 29 | |
| CH 33 | |

Analogue: 2
Searching

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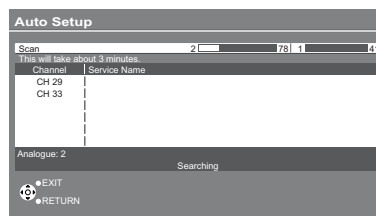
● Auto Setup will start to search for TV programmes and store them. The sorted programme order depends upon the TV signal, the broadcasting system and reception conditions.

Sending Preset Data
Please wait!
0% �_____ 100%
Remote control unavailable
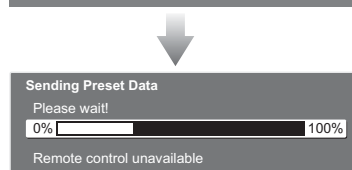
● If Q-Link, VIERA Link or similar technology (p. 32), compatible recorder is connected, programme, language, country / region settings are automatically downloaded to the recorder.

5 **Select the picture setting**

Please select your viewing environment.
Home   Shop
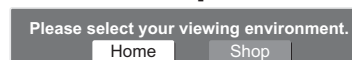
● "Shop" and "Home" are equal to "Dynamic" and "Normal" respectively - "Viewing Mode" in "Picture Menu" (p. 22)

① select
② set
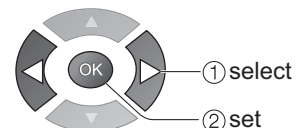
Auto Setup is now complete and your TV is ready for viewing.

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

Panasonic
TV

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

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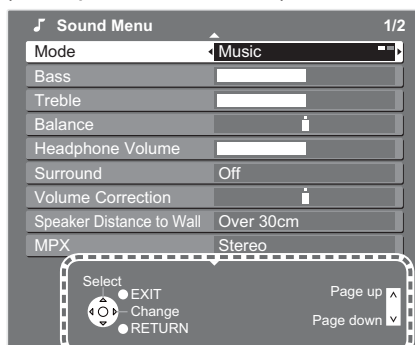Access the menu / store settings after adjustments have been made or options have been set

RETURN
Return to the previous menu

EXIT
Exit the menu system and return to the normal viewing screen

Using the On Screen Displays

■ ON SCREEN HELP Instructions box
(example: Sound Menu)

♪ Sound Menu	1/2
Mode	◄ Music ►
Bass	
Treble	
Balance	
Headphone Volume	
Surround	Off
Volume Correction	
Speaker Distance to Wall	Over 30cm
MPX	Stereo

Select
● EXIT
● Change
● RETURN
Page up
Page down

On-screen operation guide will help you.

Note

● If tuning has failed ➡ "Auto Setup" (p. 27)
● If downloading has failed ➡ "Download" (p. 23)
● To initialize all settings ➡ "Shipping Condition" (p. 29)
● 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. (p. 8)

1 BBS
CH05 SC1   Coronation Street

Information banner appears whenever you select a programme
● For details ➡ p. 15

2 **Select a programme**

∧ — up
∨ — down

or

1	2	3
4	5	6
7	8	9
	0	
VCR

● To select the two or three-digit programme number, e.g. 39

➡ 3 ➡ 9

(in a short time)

● To select from the Programme List

➡ OK

All Services
6
7
8
1
2
3 BBCi
4

Select
Connect   ● EXIT   Page up
             ● RETURN   Page down

① select programme
② watch

■ **Select a programme using Information banner** (p. 15)
Possible to confirm the programme name before selecting programmes.
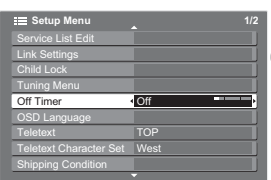
Display Information banner if it is not displayed

i

● Possible to set display timeout in "Banner Display Timeout" (p. 23).

While the banner is displayed, select the programme

① select programme
② watch

■ **Other useful functions**

Hold	Freeze / unfreeze picture	HOLD

Display the selectable settings for the current programme	**Check or change the current programme status instantly**	OPTION	● To change ➡ ② change ① select
	Teletext Character Set Sets the teletext language ➡ Setup Menu (p. 23) **MPX** ➡ Sound Menu (p. 22)	**Volume Correction** Adjusts volume of individual programme or input mode	
	Note ● Also possible to change the settings in Menu list (p. 22 and p. 23).		

Off Timer	**Turn the TV off automatically after a fixed period**
	Display the menu — MENU
	Select "Setup" — VIERA Main Menu / VIERA Link / Picture / Sound / Setup — ② access ① select
	Select "Off Timer" and set the time — Setup Menu 1/2 / Service List Edit / Link Settings / Child Lock / Tuning Menu / Off Timer Off / OSD Language / Teletext TOP / Teletext Character Set West / Shipping Condition — ② set ① select

● To cancel ➡ Set to "Off" or turn the TV off.
● To display the remaining time ➡ Information banner (p. 15)
● When the remaining time is within 3 minutes, the remaining time will flash on screen.

Panasonic
TV

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■ Other useful functions

Display Information banner

Display Information banner

i

● Also appears when changing a programme

Example: Programme   Event

1 BBS

| **CH05** | **SC1** | **PAL** | | **Coronation Street** |

🔇   📃   **Stereo**   **45**

Sound System   Colour System

Features available / Message meanings
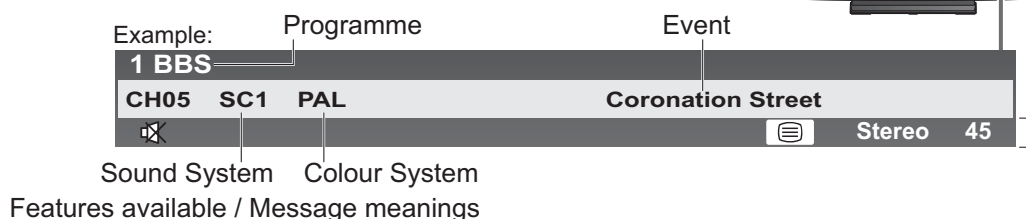
🔇 Sound mute On	**Stereo, Mono** Audio mode
📃 Teletext service available	**1 - 90** Off Timer remaining time ● For settings ➡ p. 14

● To confirm another tuned programme name

● To watch the programme listed in the banner ➡ OK

● To hide ➡ EXIT

● To set display timeout ➡ "Banner Display Timeout" (p. 23)

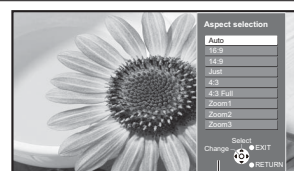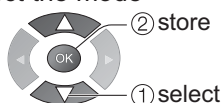● Event information is referred to teletext signal.

Change aspect ratio

Change the aspect ratio   ASPECT

Enjoy viewing the picture at its optimum size and aspect.

Display Aspect Selection list
ASPECT

While the list is displayed, select the mode
② store
① select

Aspect Selection list

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

Auto
The best ratio is chosen and the picture expanded to fill the screen.
For details ➡ p. 40

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

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

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.
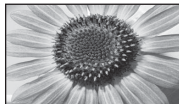● HD signal only

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).

(**Note**)
● Not available in teletext mode.
● Aspect mode can be memorized separately for SD (Standard definition) and HD (High definition) signals.

Viewing

● Watching TV

15

Viewing Teletext

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

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

What is TOP mode? (in case of TOP text broadcasting)
TOP is a particular improvement of the standard teletext service that results in an easier search and effective guide.
● Fast overview of the teletext information available
● Easy to use step-by-step selection of the topical subject
● Page status information at the bottom of the screen
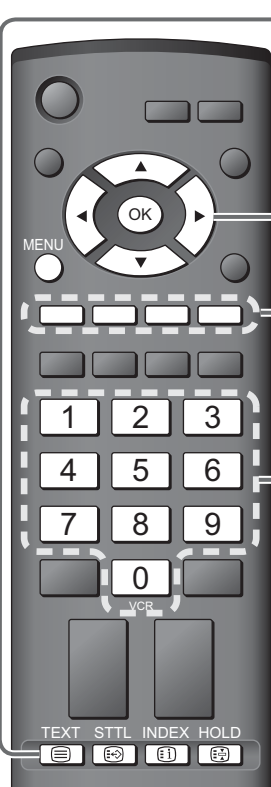
Available page up / down ➡ [red] [green]

To select among subject blocks ➡ [blue]

To select next subject within the subject block ➡ [yellow]
(After the last subject, it moves to the next subject block.)
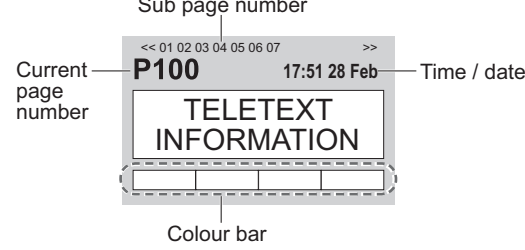
What is List mode?
In List mode, four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory. ("Store frequently viewed pages", p. 17)

■ **To change mode** ➡ "Teletext" in Setup Menu (p. 23)
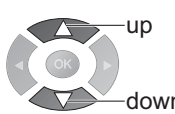
① Switch to Teletext

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

Sub page number
<< 01 02 03 04 05 06 07   >>
Current page number — **P100**   **17:51 28 Feb** — Time / date

TELETEXT
INFORMATION

Colour bar

② Select the page
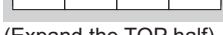
[1 2 3 / 4 5 6 / 7 8 9 / 0] or up / down or red green yellow blue
(Corresponds to the colour bar)
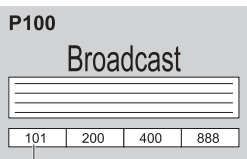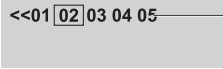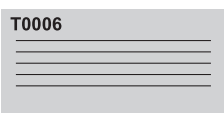
As the blue bar is displayed

■ **To adjust contrast** ➡ MENU (Press three times) ➡

■ **To return to TV** ➡ TEXT

■ **Using teletext conveniently**

Reveal hidden data	Reveal hidden words e.g. quiz page answers
	MENU ➡ red ■ **Re-hide** ➡ red
FULL / TOP / BOTTOM	MENU ➡ green **P100** Broadcast (TOP) (Expand the TOP half) ➡ (BOTTOM) (Expand the BOTTOM half) ➡ **P100** Broadcast Normal (FULL)

HOLD	**Stop automatic updating** (If you wish to hold the current page without updating) HOLD ■ **To resume** ➡ HOLD
INDEX	**Return to the main index page** INDEX
Call up a favourite page	**View a favourite page stored** F.P. ● Call up the page stored in "blue". ● Factory setting is "P103".
View in multi window	**Watch TV and Teletext in two windows at once** MENU (Press twice) ➡ OK ● Select Picture and text On or Off ● Operations can be made only in Teletext screen.
Store frequently viewed pages	**Store frequently viewed pages in the colour bar** (List mode only) As page is displayed Corresponding colour button ➡ OK press and hold **P100** Broadcast 101 200 400 888 The number changes to white. ■ **To change stored pages** ➡ Colour button you want to change ➡ Enter new page number 1 2 3 4 5 6 7 8 9 0 VCR ➡ OK press and hold
View sub page	**View sub page (Only when teletext is more than one page)** OK <<01 02 03 04 05 — Appears at top of the screen ■ **To view specific sub page** ➡ MENU ➡ blue T**** Broadcast ➡ Enter the 4-digit number example: P6 0 0 0 6 T0006 ● 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 MENU ➡ yellow ➡ P108 — Appears when updating is completed ➡ yellow ➡ View the updated page (You cannot change the programme.) ● The news page provides a function that indicates arrival of latest news ("News Flash").

Watching Videos and DVDs

Connect the external equipment (VCRs, DVD equipment, etc.) and you can watch the input.
- To connect the equipment ➡ p. 10 and p. 11
The Remote Control is capable of operating some functions of selected Panasonic external equipment.
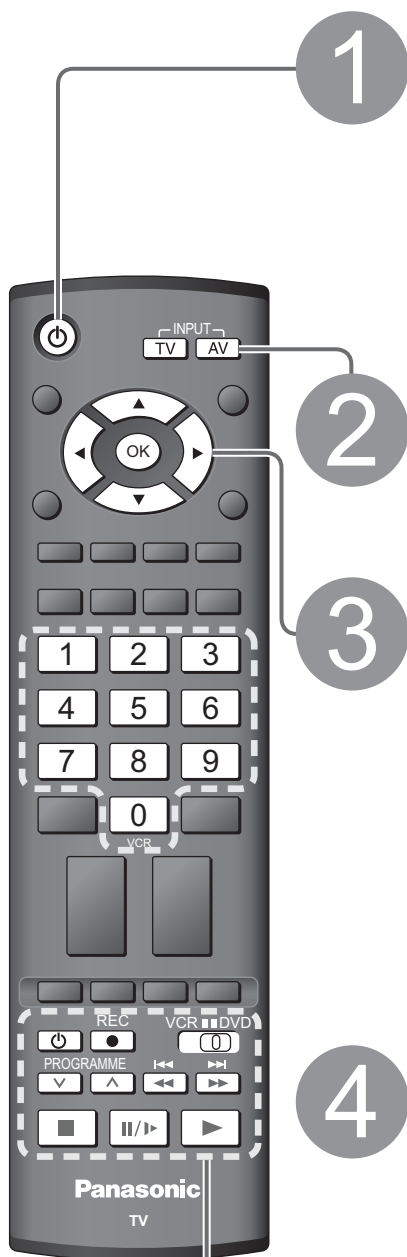
①

Turn the TV on

■ **When connecting with SCART as example 2 or 3** (p. 10 and p. 11)
➡ 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. 38).

■ **If input mode is not switched automatically**
➡ Perform **②** and **③**
- Dependant on the setup of the equipment

②

Display the Input select menu

AV

③

Select the input mode connected to the equipment

Input Selection
AV1
AV2/S
AV3/S
COMPONENT
HDMI1
HDMI2
TV

② watch
① select
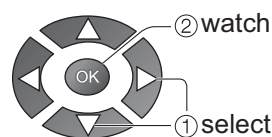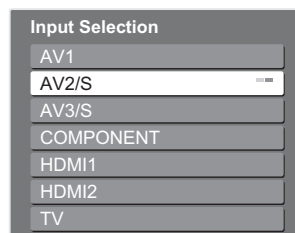
- You can also select the input using the AV button on the remote control or the front panel of the TV.
  Press the button repeatedly until the desired input is selected.
- You can label or skip each input mode ➡ "Input Labels" (p. 30)

④

View

Displays the selected mode

AV2
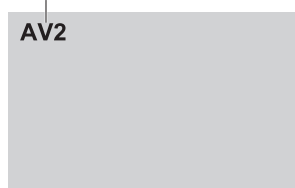
■ **To return to TV**
➡ TV

--- 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	**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 / Resume DVD: Press and hold to play at slow speed
PROGRAMME ∨ ∧	**Programme Up / Down** Select programme
REC ●	**Record** Start recording

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

① Set the VCR / DVD switch to the appropriate position ➡ VCR ▪▪DVD

② Press and hold ⏻ during the following operations

Enter the appropriate code for the equipment to be controlled, see table below
[1 2 3 / 4 5 6 / 7 8 9 / 0] ➡ Press ■
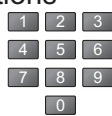
"VCR" position

Equipment	Code
VCR	10 (default)
DVD	11

"DVD" position

Equipment	Code
DVD	70 (default)
Player home theatre	71

Note
● Confirm if the remote control works correctly after changing the code.
● The codes will be reset to default values if batteries are replaced.
● "DVD" means DVD player, DVD recorders and Recorder home theatre.
● Some operations may not be possible on some equipment models.

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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

VIEᴙ∩ Main Menu
VIERA Link
☐ **Picture**
♩ **Sound**
☰ **Setup**

(example: Picture Menu)

② access
① select

③ Select the item

☐ Picture Menu		1/2
Viewing Mode	‹ Dynamic	▪▪▪ ›
Contrast		
Brightness		
Colour		
Sharpness		
Tint		
Colour Balance	Warm	
Colour Management	Off	
P-NR	Off	

(example: Picture Menu)

select

④ Adjust or select

☐ Picture Menu		1/2
Viewing Mode	‹ Dynamic	▪▪▪ ›
Contrast	‹	›
Brightness	‹	›
Colour	‹	›
Sharpness	‹	›
Tint	‹	›
Colour Balance	‹ Warm	▪▪▪ ›
Colour Management	‹ Off	▪▪ ›
P-NR	‹ Off	▪▪▪ ›

(example: Picture Menu)

① change
② store or access (Required by some functions)

■ **To return to TV at any time**
➡ EXIT

■ **To return to the previous screen**
➡ RETURN

■ **To change menu pages**
➡ ∧ up
  ∨ down
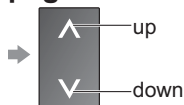
■ **Choose from among alternatives**

Number and positions of alternatives

Colour Balance	‹ Normal	▪▪▪ ›

Changed

■ **Adjust using the slide bar**

Sharpness	‹	›

Moved

■ **Go to the next screen**

Tuning Menu	Access

Displays the next screen

■ **Enter characters by free input menu**

You can enter names or numbers freely for some items.

User input
Name

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 ( ) * - . , * _

Set characters
① select
② set

Store
RETURN

■ **To reset the settings**

● To reset the picture settings only
➡ "Reset to Default" in Picture Menu (p. 22)

● To reset the sound settings only
➡ "Reset to Default" in Sound Menu (p. 22)

● To initialize all settings
➡ "Shipping Condition" in Setup Menu (p. 29)

Panasonic
TV

■ Overview

VIELA Main Menu

- VIERA Link
- ☐ Picture
- ♪ Sound
- ☰ Setup

VIERA Link Menu

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

(p. 35)

The menu of the accessed equipment

☐ Picture Menu 1/2

Viewing Mode	Dynamic
Contrast	
Brightness	
Colour	
Sharpness	
Tint	
Colour Balance	Warm
Colour Management	Off
P-NR	Off

☐ Picture Menu 2/2

3D-COMB	Off
Reset to Default	Set

(p. 22)

♪ Sound Menu 1/2

Mode	Music
Bass	
Treble	
Balance	
Headphone Volume	
Surround	Off
Volume Correction	
Speaker Distance to Wall	Over 30cm
MPX	Stereo

♪ Sound Menu 2/2

HDMI1 Input	Auto
Reset to Default	Set

(p. 22)

☰ Setup Menu 1/2

AV Colour System	Auto
Service List Edit	Access
Link Settings	Access
Child Lock	Access
Tuning Menu	Access
Off Timer	Off
OSD Language	Access
Teletext	TOP
Teletext Character Set	West
Shipping Condition	Access

☰ Setup Menu 2/2

Power Save	Off
Side Panel	Off
Picture Overscan	On
Input Labels	Access
Banner Display Timeout	3 seconds
Refresh Rate	100Hz
Software License	Access
System Information	Access

(p. 23)

Link Settings

VIERA Link	On
Q-Link	AV2
AV2 out	TV
Power off Link	Set
Power on Link	Set
Download	Access

(p. 23)

Tuning Menu

Auto Setup	Access
Manual Tuning	Access

(p. 26)

● Only available items can be selected.

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

Advanced

21

How to Use Menu Functions

■ Menu list

Menu	Item	Adjustments / Configurations (alternatives)
VIERA Link	**Pause Live TV**	Controls the connected equipment with VIERA Link function, and enables various convenient recording, playback, etc. (p. 35 - 37) ● You can also access VIERA Link Menu directly using the VIERA Link button on the remote control.
	Direct TV Rec	
	VIERA Link Control	
	Speaker Selection	
Picture	**Viewing Mode**	Basic picture mode **(Dynamic / Normal / Cinema)** Dynamic : Provides enhanced picture contrast and sharpness when viewing in a bright room Normal : Recommended for viewing under normal ambient room lighting conditions Cinema : For watching movies in a darkened room producing a cinema-like picture ● Set for each input signal
	Contrast, Brightness, Colour, Sharpness	Increases or decreases the levels of these options according to your personal preference
	Tint	With an NTSC signal source connected to the TV, the picture hue can be adjusted to suit your taste ● For NTSC signal reception only
	Colour Balance	Allows you to set the overall colour tone of the picture **(Cool / Normal / Warm)**
	Colour Management	Automatically adjusts colours to vivid ones **(Off / On)**
	P-NR	Picture Noise Reduction Automatically reduces unwanted picture noise and flicker noise in the contoured parts of a picture **(Off / Min / Mid / Max)**
	3D-COMB	Occasionally, whilst viewing still or slow moving pictures, colour patterning may be seen Set to "On" to display sharper and more accurate colours **(Off / On)** ● For PAL or NTSC signal reception only ● Not valid on RGB, S-Video, Component 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	Increases or decreases level to enhance or minimise lower, deeper sound output
	Treble	Increases or decreases level to enhance or minimise sharper, higher sound output
	Balance	Adjusts volume level of right and left speakers
	Headphone Volume	Adjusts the volume of the headphones
	Surround	Surround sound settings **(Off / On)** Provides a dynamic enhancer to simulate improved spatial effects ● Switching is also possible by the Surround button on the remote control (p. 9).
	Volume Correction	Adjusts volume of individual programme or input mode
	Speaker Distance to Wall	Adjusts the low frequency sound **(Over 30cm / Up to 30cm)** ● If the back space between the TV and wall is over 30 cm, "Over 30cm" is recommended. ● If the back space between the TV and wall is within 30 cm, "Up to 30cm" is recommended.
	MPX	Select stereo / monaural **(Mono / Stereo)** ● Normally: Stereo ● Stereo signal cannot be received: Mono ● M1 / M2: Available while mono signal is transmitted
	HDMI1 Input	Select to fit the input signal **(Auto / Digital / Analogue)** (p. 40) 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)**
		Service List Edit		Skips the unwanted programmes or edits programmes (p. 25)
	Link Settings	**VIERA Link**		Sets to use VIERA Link functions **(Off / On)** (p. 34)
		Q-Link		Selects which AV terminal is to be used for data communication between this TV and a compatible recorder **(AV1 / AV2)** (p. 33) ● Select the connected terminal to the recorder even it is not compatible with Q-Link.
		AV1 / AV2 out		Chooses the signal to be transmitted from the TV to Q-Link **(TV / AV1 / AV2 / AV3 / Monitor)** ● Monitor: Image displayed on screen ● Component and HDMI signals cannot be outputted.
		Power off Link		Sets to use Power off Link function **(No / Set)** (p. 33 and p. 34)
		Power on Link		Sets to use Power on Link function **(No / Set)** (p. 33 and p. 34)
		Download		Downloads programme, language, country / region settings to a Q-Link or VIERA Link compatible equipment connected to the TV
		Child Lock		Locks a programme / AV input to prevent access to it (p. 28)
	Tuning Menu	**Auto Setup**		Automatically sets the programmes received in the area (p. 27)
		Manual Tuning		Sets the programmes manually (p. 27)
		Off Timer		Sets the time the TV automatically turns Off **(Off / 15 / 30 / 45 / 60 / 75 / 90 minutes)**
		OSD Language		Changes language for on-screen displays
		Teletext		Teletext display mode **(TOP (FLOF) / List)** (p. 16)
		Teletext Character Set		Selects teletext language **(West / East1 / East2)** ● West: English, French, German, Greek, Italian, Spanish, Swedish, Turkish, etc. ● East1: Czech, English, Estonian, Lettish, Rumanian, Russian, Ukrainian, etc. ● East2: Czech, Hungarian, Lettish, Polish, Rumanian, etc.
		Shipping Condition		Resets all settings, for example, when moving house (p. 29)
		Power Save		Reduces brightness of picture to economise on power consumption **(Off / On)**
		Side Panel		Increases the brightness of the side panel **(Off / Low / Mid / High)** ● The recommended setting is "High" to prevent panel "image retention".
		Picture Overscan		Selects the screen area displaying the image **(Off / On)** On : Enlarged the image to hide the edge of the image. Off : Displayed the image in the original size. ● Set to "On" if noise is generated on the edge of the screen. ● This function is available when aspect is set to Auto (16:9 signal only) or 16:9. ● This function can be memorized separately for SD (Standard definition) and HD (High definition) signals.
		Input Labels		Labels or skips each input terminal (p. 30)
		Banner Display Timeout		Sets how long the information banner (p. 15) stays on screen ● 0 (No display) to 10 sec. in 1-sec. increments
		Refresh Rate		Changes the image processing of the panel (depending on the input signal) **(50Hz / 100Hz)** ● Set to "100Hz" normally
		Software License		Displays the software licence information
		System Information		Displays the system information of this TV

● Only available items can be selected.

Editing Programmes

You can skip unwanted programmes or edit programmes.

1 **Display the menu**

MENU

2 **Select "Setup"**

VIΣΓΛ **Main Menu**

| VIERA Link |
| Picture |
| Sound |
| Setup |

② access

OK

① select

3 **Select "Service List Edit"**

≔ Setup Menu	1/2
Service List Edit	Access
Link Settings	
Child Lock	
Tuning Menu	
Off Timer	Off
OSD Language	
Teletext	TOP
Teletext Character Set	West
Shipping Condition	

② access

OK

① select

■ **To return to TV**

EXIT

4 **Set**

Panasonic
TV

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

Select a service and add / delete

Service List Editor
1	BBC1 ☑
2	***** ☐
3	***** ☐
4	☑
5	☑
6	☑
7	☑

② add / delete
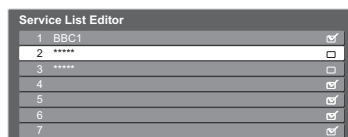
① select

☑ :add
☐ :delete (skip)

● To retune each programme (Manual Tuning)
➡ red (p. 27)

You can change the programme name and programme position.
● If a VCR is connected only with the RF cable, edit "VCR".

① Select the programme to edit

Service List Editor
1	BBC1 ☑
2	***** ☐
3	***** ☐
4	☑
5	☑
6	☑
7	☑

select

Programme position

Name

3 FTP
CH05   SC1   PAL   **Coronation Street**
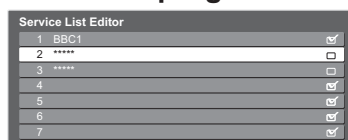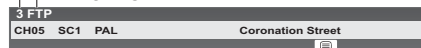
② Edit

■ To change the name displayed when selecting programmes

Select "Rename"

green

Set characters

① select

② set

Edit Service Name
Name

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: five characters)

Store

RETURN

■ To move the programme position

yellow

Select new position

select

Store

yellow

Skip unwanted programmes

Edit programmes (Change name, Move)

Service List Edit
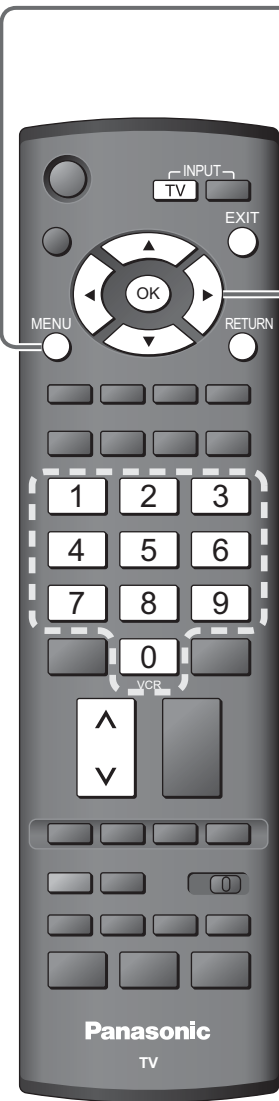
Tuning Programmes

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

1 **Display the menu**

MENU
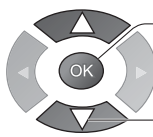
2 **Select "Setup"**

VIErn Main Menu
| VIERA Link |
| Picture |
| Sound |
| Setup |
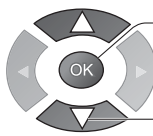
② access
① select

3 **Select "Tuning Menu"**

Setup Menu	1/2
Service List Edit	
Link Settings	
Child Lock	
Tuning Menu	Access
Off Timer	Off
OSD Language	
Teletext	TOP
Teletext Character Set	West
Shipping Condition	

② access
① select

4 **Select a function**

Tuning Menu	
Auto Setup	Access
Manual Tuning	Access

② access
① select

■ **To return to TV**

EXIT

5 **Set**

26

Automatically retune all programmes received in the area.
● If a Child Lock PIN number (p. 28) has been set, it must be entered.

Set all programmes automatically

Auto Setup

Start Auto Setup

```
Auto Setup

All tuning data will be erased

Start Auto Setup ─○─ ● EXIT
                        ● RETURN
```
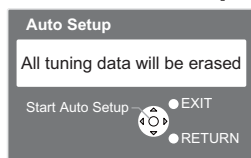
OK

Settings are made automatically

```
Auto Setup

Scan              2 [      78 1       41
This will take about 3 minutes.
Channel    Service Name
  CH 29
  CH 33



Analogue: 2
                    Searching
```
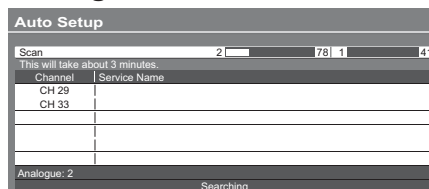
● All the previous tuning settings are erased.
● The programme, language, country / region settings are downloaded to a Q-Link or VIERA Link compatible equipment connected to the TV.
● When the operation is completed, the programme at programme position "1" will be displayed.
● If tuning has not been done completely ➡ "Manual Tuning"

■ **For Auto Setup, using the buttons on the front of the TV** (p. 8)
① Press repeatedly until "Auto Setup" appears
[ ] F

② Access "Auto Setup"
[ ] TV

③ Start "Auto Setup"
[ ] TV

● To return to TV ➡ [ ] F

Set programme manually
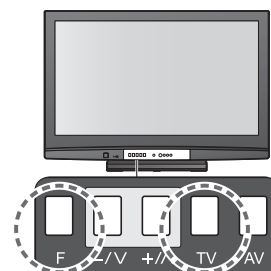
Manual Tuning

■ **Fine Tuning**
Use to make small adjustments to the tuning of an individual programme (affected by weather conditions, etc.)

■ **Manual Tuning**
Set programme manually after Auto Setup.
● Set Sound System and Colour System, and then perform this function.
  Normally set Colour System "Auto".
● If a VCR is connected only with the RF cable, select programme position "0".

```
Manual Tuning
1 BBC1                              CH33
Fine Tuning
Manual Tuning   2 [      78 | 1       41
Sound System              SC1
Colour System             Auto
```
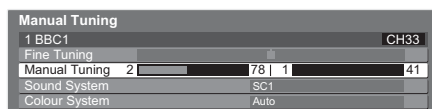
```
SC1:PAL B, G, H / SECAM B, G
SC2:PAL I
SC3:PAL D, K / SECAM D, K
F:    SECAM L / L'
```

Select the programme position

```
1 2 3
4 5 6
7 8 9
  0
 VCR
```

Select the programme

∧
∨

Search and store

OK ── ① search
     ── ② store

27

Control Programme Audience

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

1 Display the menu

MENU

2 Select "Setup"

VIErA Main Menu
- VIERA Link
- ▢ Picture
- ♪ Sound
- ☰ Setup

② access
① select

3 Select "Child Lock"

☰ Setup Menu	1/2
Service List Edit	
Link Settings	
Child Lock	Access
Tuning Menu	
Off Timer	Off
OSD Language	
Teletext	TOP
Teletext Character Set	West
Shipping Condition	

② access
① select

■ **To return to TV**

➡ EXIT

4 Set

Control programme audience

Child Lock

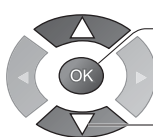① **Enter the PIN number (4 digits)**

Child Lock-PIN Entry
Please enter new PIN
PIN   * * * *

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

② **Select "Child Lock List"**

Child Lock
Change PIN
Child Lock List   Access

② access
① select

③ **Select the programme / input to be locked**

Child Lock List - Services and AV		
Name	Type	Lock
VCR	TV	🔒
1 BBC1	TV	🔒
2 *****	TV	
3 *****	TV	
4	TV	
5	TV	🔒
AV1	AV	
AV2/S	AV	

Appears when the programme / input is locked

② set
① select

- To cancel
  ➡ Select the locked programme / input
  ➡ OK
- To lock all ➡ yellow
- To cancel all locks ➡ blue

■ **To change the PIN number**
Select "Change PIN" in ② and enter a new PIN number twice.

Note

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

Restore Settings

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

1 **Display the menu**

MENU

2 **Select "Setup"**

VIEₐ Main Menu
VIERA Link
☐ Picture
♪ Sound
☰ Setup

② access

① select

3 **Select "Shipping Condition"**

☰ Setup Menu	▲	1/2
Service List Edit		
Link Settings		
Child Lock		
Tuning Menu		
Off Timer	Off	
OSD Language		
Teletext	TOP	
Teletext Character Set	West	
Shipping Condition	Access	

② access

① select

■ **To return to TV**

→ EXIT

4 **Set**

① **Check the message and initialise**

Shipping Condition

All tuning data will be erased
Are you sure?
Are you sure?

Confirm ── ●EXIT

●RETURN

OK

Restore Settings

Shipping Condition
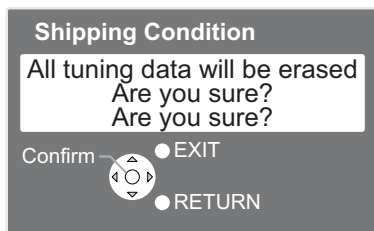
② **Follow the on-screen instructions**
● "Auto Setup" will automatically start when Mains power On / Off switch is next
turned On. (p. 12)

■ **To retune TV programmes only, e.g. after moving house**
➡ "Auto Setup" (p. 27)

● Restore Settings ● Control Programme Audience

Advanced
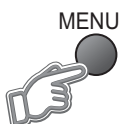
Input Labels

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. 18

1 Display the menu

MENU

2 Select "Setup"

VIErA Main Menu
| VIERA Link |
| □ Picture |
| ♪ Sound |
| ≔ Setup |

②access
①select

3 Select "Input Labels"

≔ Setup Menu	2/2
Power Save	Off
Side Panel	Off
Picture Overscan	On
Input Labels	Access
Banner Display Timeout	3 seconds
Refresh Rate	100Hz
Software License	
System Information	

②access
①select
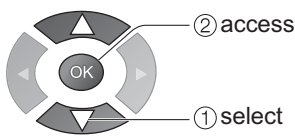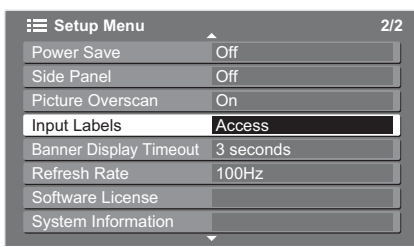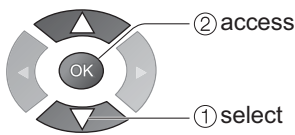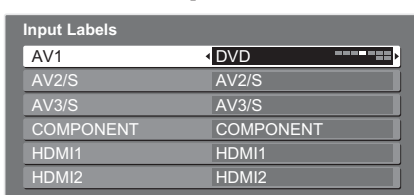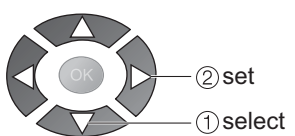
■ To return to TV

EXIT
➡

4 Select a input terminal and set

Input Labels
AV1	◄ DVD ►
AV2/S	AV2/S
AV3/S	AV3/S
COMPONENT	COMPONENT
HDMI1	HDMI1
HDMI2	HDMI2

②set
①select

The labels you set will be displayed in "Input Selection" menu (p. 18) or banner.
●If "Skip" is selected, you cannot select the mode.

Panasonic
TV

■ User input
You can name each input terminals freely.

Select "User input"

① select
② access

Set characters

① select
② set

User input																			
Name																			
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	(	)	+	-	.	,	*	_						
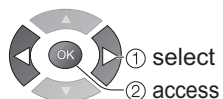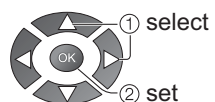
(maximum: ten characters)

Store

RETURN

● Input Labels

Advanced

Link Functions $\left(\begin{array}{c}\text{Q-Link}\\\text{VIERA Link}\end{array}\right)$

Q-Link connects the TV and DVD Recorder / VCR, and enables easy recording, playback, etc. (p. 33)
VIERA Link (HDAVI Control™) connects the TV and the equipment with VIERA Link function, and enables easy control, convenient recording, playback, etc. (p. 34 - 37)
You can use Q-Link and VIERA Link functions together.

■ Summary of Q-Link and VIERA Link functions

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

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

Connections

Read the manual of the equipment, too.

■ Q-Link

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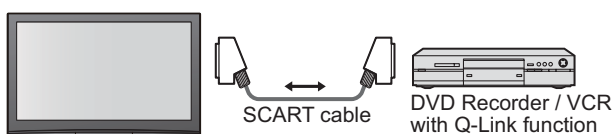
● Connect the DVD Recorder / VCR supporting Q-Link to the TV's AV1 or AV2 terminal via a fully wired SCART cable.

■ VIERA Link

HDMI cable
DIGA Recorder / HD Video Camera with VIERA Link function
SCART cable

● SCART cable
Use fully wired SCART cable.

● HDMI cable
Use fully wired HDMI compliant cable.
Non-HDMI-compliant cables cannot be utilized.
Recommended Panasonic's HDMI cable part number:
• RP-CDHG10 (1.0 m)
• RP-CDHG15 (1.5 m)
• RP-CDHG20 (2.0 m)
• RP-CDHG30 (3.0 m)
• RP-CDHG50 (5.0 m)
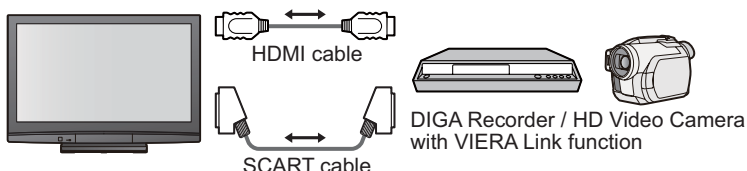
● Connect the equipment supporting VIERA Link to the TV's AV1, AV2, HDMI1 or HDMI2 terminals via fully wired SCART and HDMI cables together.
● Some functions are available only with HDMI cable connection. But use both HDMI and SCART cables to support many features normally.

For Speaker control (Home Cinema)

● To use Amplifier

Speaker system
HDMI cable
RCA cable
Amplifier with VIERA Link function
HDMI cable
HDMI cable
SCART cable
HD Video Camera with VIERA Link function
DIGA Recorder with VIERA Link function

● To use Player theatre

Speaker system
HDMI cable
RCA cable
Player theatre with VIERA Link function
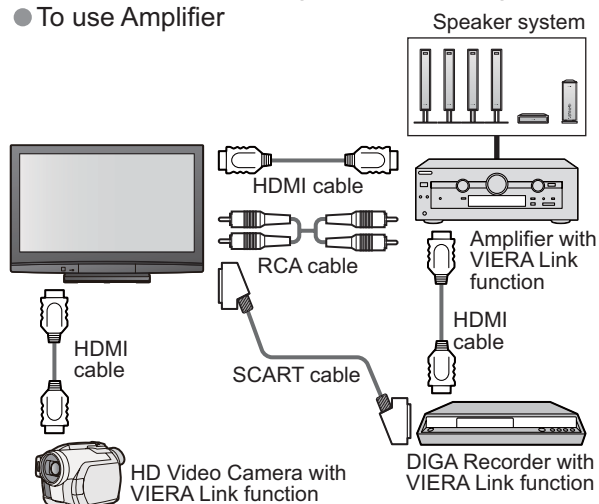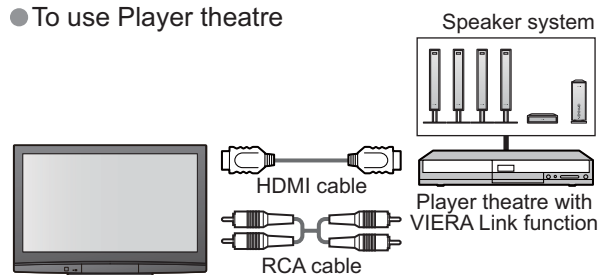
Q-Link

■ Preparations

- Connect the DVD Recorder / VCR with the following logos:
  "Q-Link", "NEXTVIEWLINK", "DATA LOGIC", "Easy Link", "Megalogic" or "SMARTLINK"
- Q-Link connection ➡ p. 32
- Set up the DVD Recorder / VCR. Read the manual of the equipment.
- Q-Link terminal setup in Setup Menu ➡ "Q-Link" (p. 23), "AV1 / AV2 out" (p. 23)
- Download preset - programme, language, country / region setting (Preset download)
  ➡ "Download" (p. 23) or "Auto Setup" (p. 27) or "Auto Setup" - when first using the TV (p. 12)

■ Features available

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

Direct TV Recording - What you see is What you record	Recording the current programme in DVD Recorder / VCR immediately.
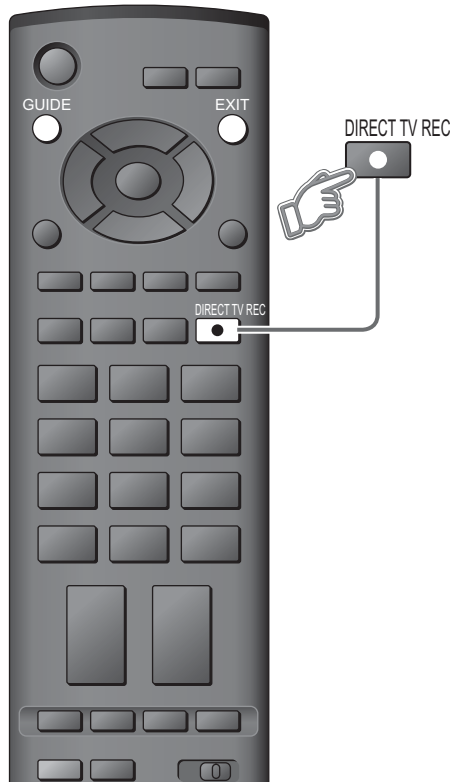
- Available conditions:

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

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

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

Power on link and Easy playback	**Set Power on Link "Set" in Setup Menu to use this function** ➡ "Power on Link" (p. 23) When DVD Recorder / VCR starts playback or direct navigator / function menu for the equipment are activated, the TV is turned on and input mode is switched automatically so that you can view the content. (Only when TV is in Standby mode.)

Power off link	**Set Power off Link "Set" in Setup Menu to use this function** ➡ "Power off Link" (p. 23) When TV is set to Standby mode, the recorder is also automatically set to Standby. (Only when the videocassette or DVD is not active.)

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

● Link Functions (Q-Link / VIERA Link)

Advanced

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Link Functions $\left(\begin{matrix}\text{Q-Link} \\ \text{VIERA Link}\end{matrix}\right)$

VIERA Link "HDAVI Control™"∗

∗Enjoy additional HDMI Inter-Operability with Panasonic products which have "HDAVI Control" function. This TV supports "HDAVI Control 3" function.
Connections to the equipment (DIGA Recorder, HD Video Camera, Player theatre, Amplifier, etc.) with HDMI and SCART cables allow you to interface them automatically.
These features are limited to models incorporating "HDAVI Control" and "VIERA Link".
● Some functions are not available depending on the equipment's version of HDAVI Control. Please confirm the connected equipment's version of HDAVI Control.
● VIERA Link "HDAVI Control", based on the control functions provided by HDMI which is an industry standard known as HDMI CEC (Consumer Electronics Control), is a unique function that we have developed and added. As such, its operation with other manufacturers' equipment that supports HDMI CEC cannot be guaranteed.

Please refer to individual manuals for other manufacturers' equipment supporting VIERA Link function.
About applicable Panasonic equipment, consult your local Panasonic dealer.

■ Preparations
● Connect the equipment supporting VIERA Link.
● VIERA Link connection ➡ p. 32
● Set up the connected equipment. Read the manual of the equipment.
● For optimal recording, the settings of the recorder might be required. For details, read the manual of the recorder.
● Download preset - programme, language, country / region setting (Preset download)
 ➡ "Download" (p. 23) or "Auto Setup" (p. 27) or "Auto Setup" - when first using the TV (p. 12)
● Set VIERA Link On in Setup Menu ➡ "VIERA Link" (p. 23)
● Set up the TV
 ➡ **After connection, turn the equipment on and then switch the TV on.**
  Select the input mode to HDMI1 or HDMI2 (p. 18), and make sure that an image is displayed correctly.
  This setup should be done each time when the following conditions occur:
  • for the first time
  • when adding or reconnecting equipment
  • when changing setup

■ Features available

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

You can pause the live TV programme and resume later.
● This function is available with DIGA Recorder which has HDD and "HDAVI Control 3" function.
● Connect DIGA Recorder with both HDMI and SCART cables to use this function.
● If you cannot operate, check the settings and the equipment ➡ "Preparations" (p. 34)

Access and pause the live TV programme

Pause Live TV programme
(HDAVI Control 3 and Recorder with HDD)

Pause Live TV

① **Display "VIERA Link Menu"**

② **Select "Pause Live TV" and pause**

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

② pause
① select

● Live TV programme is recorded on HDD from where it was paused.

■ **To resume** (stop pause)
Select "Pause Live TV" and access

② resume
① select

● About the operations after resuming, read the manual of the equipment.

■ **To return to Live TV**
(cancel pause or resumed playback)
➡ TV (change the input mode)

● If you cancel pause or resumed playback, the recorded programme will be deleted from HDD.

Recording the current programme in DIGA Recorder immediately.
● This function is available with DIGA Recorder which has "HDAVI Control 3" function.
● Connect DIGA Recorder with both HDMI and SCART cables to use this function.
● If you cannot operate, check the settings and the equipment ➡ "Preparations" (p. 34)
● Changing programme or turning off the TV is available while the recorder is recording from its own tuner.
● Changing programme is not available while the recorder is recording from the TV tuner.
● Turning off the TV will stop the recording if the recording from an AV source connected to the TV.

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

Direct TV Rec

① **Display "VIERA Link Menu"**

② **Select "Direct TV Rec" and start recording**

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

② start
① select

● You can also start recording directly ➡ DIRECT TV REC

■ **To stop recording**
Select "Stop" in "Direct TV Rec" and access

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

① select
② stop

● Link Functions (Q-Link / VIERA Link)

Advanced

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Link Functions $\begin{pmatrix} \text{Q-Link} \\ \text{VIERA Link} \end{pmatrix}$

■ **Features available** (Using VIERA Link Menu)

You can control some functions of the connected equipment with this TV remote control (point the remote control at the TV's signal receiver).
● This function is available with the equipment which has "HDAVI Control 2" or "HDAVI Control 3" function.
● If you cannot operate, check the settings and the equipment ➡ "Preparations" (p. 34)

Access and operate the menu of the equipment

Control the menu of the connected equipment by VIERA remote control

(HDAVI Control 2)
(HDAVI Control 3)

VIERA Link Control

① **Display "VIERA Link Menu"**

② **Select "VIERA Link Control"**

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

select

③ **Select the equipment you want to access**
● "Home Cinema" means Player theatre, Recorder theatre and Amplifier.
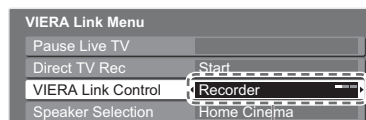
VIERA Link Menu	
Pause Live TV	
Direct TV Rec	Start
VIERA Link Control	Recorder
Speaker Selection	Home Cinema

Recorder / Player / Home Cinema / Video Camera

The type of the connected equipment is displayed.
Select the type of the equipment and access.
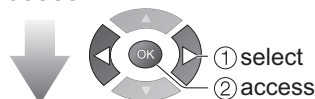
① select
② access

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

■ **If you access the invalid equipment**

When the equipment with "HDAVI Control" function is connected

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

Recorder / Player / Home Cinema / Video Camera

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

When the equipment of other types or manufacturers is connected

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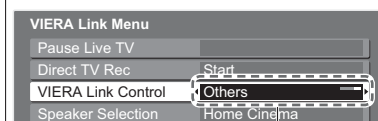
Others

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

④ **Operate the menu of the equipment**
● Available VIERA remote control buttons (depending on the connected equipment):

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

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

■ **Features available** (Using VIERA Link Menu)

You can control the theatre speaker with this TV remote control (point the remote control at the TV's signal receiver).
● This function is available with the Amplifier or Player theatre which has "HDAVI Control" function.
● If you cannot operate, check the settings and the equipment ➡ "Preparations" (p. 34)

Access and control the speaker volume

Speaker control

| Speaker Selection |

① **Display "VIERA Link Menu"**

VIERA
Link

② **Select "Speaker Selection"**

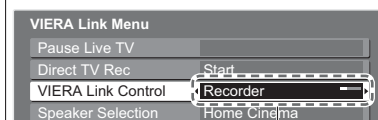| VIERA Link Menu	
Pause Live TV	
Direct TV Rec	Start
VIERA Link Control	Recorder
Speaker Selection	◀ Home Cinema ▶

select

③ **Set to "Home Cinema" or "TV"**

set

■ **Home Cinema**
Amplifier or Player theatre will be automatically turned on if it is in Standby mode and the sound is from theatre speakers connected to the equipment.

● 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.

Panasonic
TV

● Link Functions (Q-Link / VIERA Link)

Advanced

╭─ **Note** ─╮

● This function may not work properly depending on the connected equipment.
● Image or sound may not be available for the first few seconds when the playback starts.
● Image or sound may not be available for the first few seconds when Input mode is switched.
● Volume function will be displayed when adjusting the volume of the equipment.
● Easy playback is also available by using the remote control for Amplifier or Player theatre. Read the manual of the equipment.
● About HDMI cable for connecting Panasonic HD Video Camera, read the manual of the equipment.
● If more than one equipment of the same type are connected to the TV by HDMI cables, for example two DIGA Recorders to HDMI1 and HDMI2, VIERA Link will only be available for the lower terminal number, in this case HDMI1.
● "HDAVI Control 3" is the newest standard (current as of December, 2007) for HDAVI Control compatible equipment. This standard is compatible with conventional HDAVI equipment.
● To confirm this TV's version of HDAVI Control ➡ "System Information" (p. 23)

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).
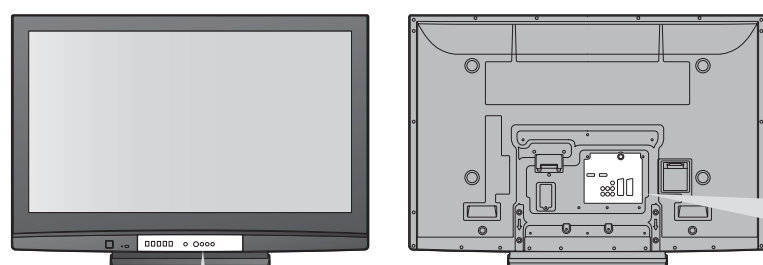
Camcorder / Game equipment

(VIDEO) or (S-VIDEO)

(AUDIO)

AV3

S-V   V   L — R

(M3 stereo mini plug)
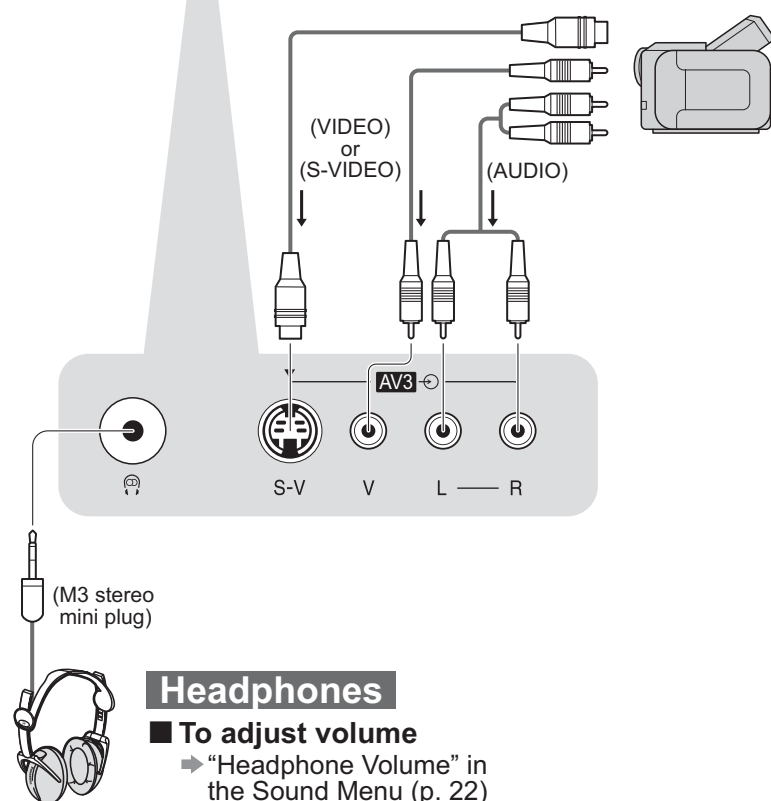
Headphones

■ **To adjust volume**
➡ "Headphone Volume" in the Sound Menu (p. 22)

To listen with speakers

Amplifier with speaker system

To watch DVDs

DVD player
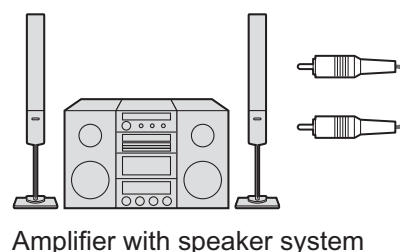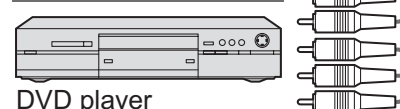
■ Types of connectable equipment to each terminal

Recording / Playback (equipment) / Terminal	AV1	AV2	AV3 (Front of TV) S-V V L — R
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	○	○	
VIERA Link	○ (with HDMI)	○ (with HDMI)	
Direct TV Recording	○	○	

○ : Recommended Connection

HDMI equipment

➡ "HDMI connection" (p. 40)

DVD
Recorder

Fully wired HDMI
compliant cable

RF
cable

HDMI

HDMI 1 | HDMI 2

COMPONENT

AUDIO
OUT

AUDIO
IN

AV1 | AV2

RGB
VIDEO

RGB
VIDEO
S VIDEO

Y

L | L | P_B

R | R | P_R

RCA cable

(Listening)

(Viewing)

**To record /
playback**

DVD Recorder /
VCR

SCART cable

SCART
cable

**To watch satellite
broadcasts**

Set top box

Fully wired HDMI compliant cable

or

● External Equipment

Advanced

COMPONENT	AUDIO OUT	HDMI	
Y L P_B R P_R	L R	**1**	**2**
○		○	○
		○	○
		○	○
		○	○
	○		
		○	○
		○	○

39

Technical Information

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

■ Auto

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

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

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

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

Signal name	Aspect Control Signal								
	Widescreen signal (WSS)					Control signal through SCART (pin 8) or HDMI terminal			
	TV	AV1	AV2	AV3	COMPONENT	AV1	AV2	HDMI1	HDMI2
PAL	O	O	O	O		O	O		
PAL 525/60	–	–	–	–		O	O		
M.NTSC	–	–	–	–		O	O		
NTSC (AV input only)	–	–	–	–		O	O		
SD 525(480)/60i					–			O	O
SD 525(480)/60p					–			O	O
SD 625(576)/50i					O			O	O
SD 625(576)/50p					O			O	O
HD 750(720)/50p					–			O	O
HD 750(720)/60p					–			O	O
HD 1125(1080)/50i					–			O	O
HD 1125(1080)/60i					–			O	O
HD 1125(1080)/50p					–			O	O
HD 1125(1080)/60p					–			O	O
HD 1125(1080)/24p					–			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.)

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

About connections, see "External Equipment" (p. 38).

Note

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI1 terminal via a DVI to HDMI adapter cable (∗2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal (HDMI1: use COMPONENT-AUDIO terminals).
- Audio settings can be made on the "HDMI1 Input" menu screen. (p. 22)
- Applicable audio signal sampling frequencies (2ch L.PCM): 48 kHz, 44.1 kHz, 32 kHz
- HDMI2 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.
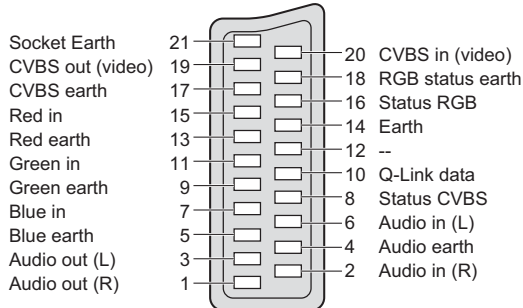- For details of the applicable HDMI signals, see p. 41.

(∗1): The HDMI logo is displayed on HDMI-compliant equipment.
(∗2): Enquire at your local digital equipment retailer shop.
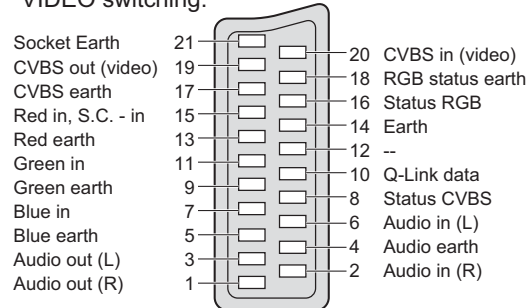
SCART, S-VIDEO and HDMI terminal information

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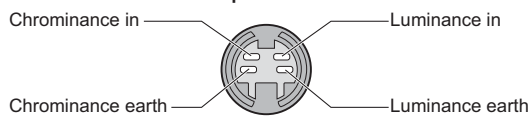Suitable inputs for AV1 include RGB (Red / Green / Blue).

Socket Earth	21	20	CVBS in (video)
CVBS out (video)	19	18	RGB status earth
CVBS earth	17	16	Status RGB
Red in	15	14	Earth
Red earth	13	12	--
Green in	11	10	Q-Link data
Green earth	9	8	Status CVBS
Blue in	7	6	Audio in (L)
Blue earth	5	4	Audio earth
Audio out (L)	3	2	Audio in (R)
Audio out (R)	1		

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

Socket Earth	21	20	CVBS in (video)
CVBS out (video)	19	18	RGB status earth
CVBS earth	17	16	Status RGB
Red in, S.C. - in	15	14	Earth
Red earth	13	12	--
Green in	11	10	Q-Link data
Green earth	9	8	Status CVBS
Blue in	7	6	Audio in (L)
Blue earth	5	4	Audio earth
Audio out (L)	3	2	Audio in (R)
Audio out (R)	1		

■ AV3 S-VIDEO 4 pin terminal

Chrominance in — Luminance in
Chrominance earth — Luminance earth

■ HDMI terminal

Hot Plug Detect	19	18	+5V Power
DDC/CEC Ground	17	16	SDA
SCL	15	14	Reserved (in cable but N.C. on device)
CEC	13	12	TMDS Clock−
TMDS Clock Shield	11	10	TMDS Clock+
TMDS Data0−	9	8	TMDS Data0 Shield
TMDS Data0+	7	6	TMDS Data1−
TMDS Data1 Shield	5	4	TMDS Data1+
TMDS Data2−	3	2	TMDS Data2 Shield
TMDS Data2+	1		
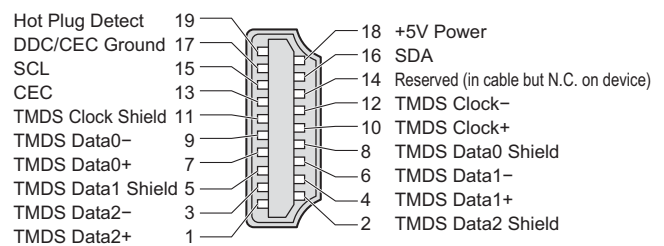
Input signal that can be displayed

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		∗
1,125 (1,080) / 24p		∗

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

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FAQs

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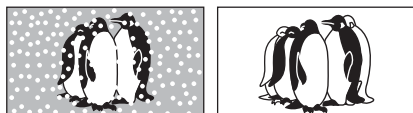If the problem still persists, please contact your local Panasonic dealer for assistance.

White spots or shadow images (noise)

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

Neither image nor sound is produced

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

Auto aspect

● Auto aspect is designed to provide you with the best aspect ratio to use to fill your screen. For user control please see p. 40.

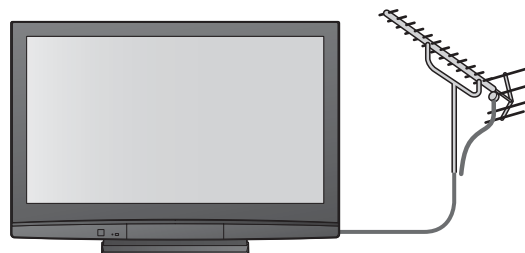## S-Video / black and white picture

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

On Screen messages - I.e. EC/AV1

● You can simply clear these ➡ 　i　
Press again to redisplay.

An error message appears

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

Q-Link function does not work

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

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

● Confirm the connection.
● Turn the connected equipment on and then switch the TV on. (p. 34)

Recording does not start immediately

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

Permanently lit spots on screen

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

Contrast is reduced

● Contrast is lowered in the following conditions without any user operation for a few minutes:
  ● no signal in AV mode
  ● selected locked programme
  ● selected invalid programme
  ● displayed menu

Problem		Actions
Screen	**Chaotic image, noisy**	● Set "P-NR" in the Picture Menu (to remove noise). (p. 22) ● Check nearby electrical products (car, motorcycle, fluorescent lamp).
	No image can be displayed	● Is "Colour" or "Contrast" in the Picture Menu set to the minimum? (p. 22) ● Check Colour System. (p. 27)
	Blurry or distorted image (no sound or low volume)	● Reset programme. (p. 27)
	Unusual image is displayed	● Turn off the TV with Mains power On / Off switch, then turn it On again.
Sound	**No sound is produced**	● Is "Sound mute" active? (p. 9) ● Is the volume set to the minimum?
	Sound level is low or sound is distorted	● Sound signal reception may be deteriorated. ● Set "MPX" (p. 22) in the Sound Menu to "Mono".

FAQs

Problem		Actions
HDMI	**Sound is unusual**	● Set the sound setting of the connected equipment to "2ch L.PCM". ● Check the "HDMI1 Input" setting in the Sound Menu. (p. 22) ● If digital sound connection has a problem, select analogue sound connection. (p. 40)
	Pictures from external equipment are unusual when the equipment is connected via HDMI	● Is the HDMI cable connected properly? (p. 38) ● Turn Off the TV and equipment, then turn them On again. ● Check an input signal from the equipment. (p. 41) ● Use an equipment compliant with EIA/CEA-861/861B.
Other	**TV goes into "Standby mode"**	● Off Timer function is activated. ● The TV enters "Standby mode" about 30 mins. after broadcasting ends.
	The remote control does not work	● Are the batteries installed correctly? (p. 6) ● Has the TV been switched On?

Specifications

			TH-37PV8PA	TH-42PV8PA	TH-50PV8PA
Power Consumption	**Power Source**		AC 220-240 V, 50 / 60 Hz		
	Average use		235 W	255 W	355 W
	Standby condition		0.7 W		0.5 W
Display panel	**Aspect Ratio**		16:9		
	Visible screen size		94 cm (diagonal) 819 mm (W) × 457 mm (H)	106 cm (diagonal) 922 mm (W) × 518 mm (H)	127 cm (diagonal) 1,106 mm (W) × 622 mm (H)
	Number of pixels		737,280 (1,024 (W) × 720 (H)) [3,072 × 720 dots]	786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots]	1,049,088 (1,366 (W) × 768 (H)) [4,098 × 768 dots]
Sound	**Speaker**		160 mm × 42 mm × 2 pcs, 8 Ω		
	Audio Output		20 W (10 W + 10 W), 10% THD		
	Headphones		M3 (3.5 mm) stereo mini Jack × 1		

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)
			M.NTSC Playback from M. NTSC Video recorders (VCR)
			NTSC (AV input only) Playback from NTSC Video recorders (VCR)		

Aerial - Rear			VHF / UHF		
Operating Conditions			**Temperature** : 0 °C - 35 °C **Humidity** : 20 % - 80 % RH (non-condensing)		
Connection Terminals	**AV1 (Scart terminal)**		21 Pin terminal (Audio/Video in, Audio/Video out, RGB in, Q-Link)		
	AV2 (Scart terminal)		21 Pin terminal (Audio/Video in, Audio/Video out, RGB in, S-Video in, Q-Link)		
	AV3	VIDEO	RCA PIN Type × 1 1.0 V[p-p] (75 Ω)		
		S-VIDEO	Mini DIN 4-pin Y:1.0 V[p-p] (75 Ω) C:0.286 V[p-p] (75 Ω)		
		AUDIO L - R	RCA PIN Type × 2 0.5 V[rms]		
	COMPONENT	VIDEO	Y 1.0 V[p-p] (including synchronization) P_B, P_R ±0.35 V[p-p]		
		AUDIO L - R	RCA PIN Type × 2 0.5 V[rms]		
	HDMI1 / 2		TYPE A Connectors ● This TV supports "HDAVI Control 3" function.		
	Output	AUDIO L - R	RCA PIN Type × 2 0.5 V[rms] (high impedance)		
Dimensions (W × H × D)			917 mm × 665 mm × 327 mm (With Pedestal) 917 mm × 617 mm × 92.5 mm (TV only)	1,020 mm × 727 mm × 327 mm (With Pedestal) 1,020 mm × 679 mm × 92.5 mm (TV only)	1,210 mm × 844 mm × 387 mm (With Pedestal) 1,210 mm × 790.5 mm × 92.5 mm (TV only)
Mass			24.0 kg Net (With Pedestal) 22.0 kg Net (TV only)	27.5 kg Net (With Pedestal) 25.5 kg Net (TV only)	37.0 kg Net (With Pedestal) 35.0 kg Net (TV only)

Note
● Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.
● This equipment complies with the EMC standards listed below.
  EN55013, EN61000-3-2, EN61000-3-3, EN55020.
● Pedestal: ST-42R4-WK / ST-50R4-WK (For safety approval)

● Frequently Asked Questions

● Specifications

FAQs, etc.

Information for Users on Collection and Disposal of Old Equipment and used Batteries

These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

For business users in the European Union

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

[Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Cd

Licence

- 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.

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.

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