Panasonic®

Operating Instructions
LCD TV

VIErA

FULL HD 1920×1080p   VIErA Link   VIErA IMAGE VIEWER   AVCHD™

DOLBY DIGITAL   SDXC™   HDMI

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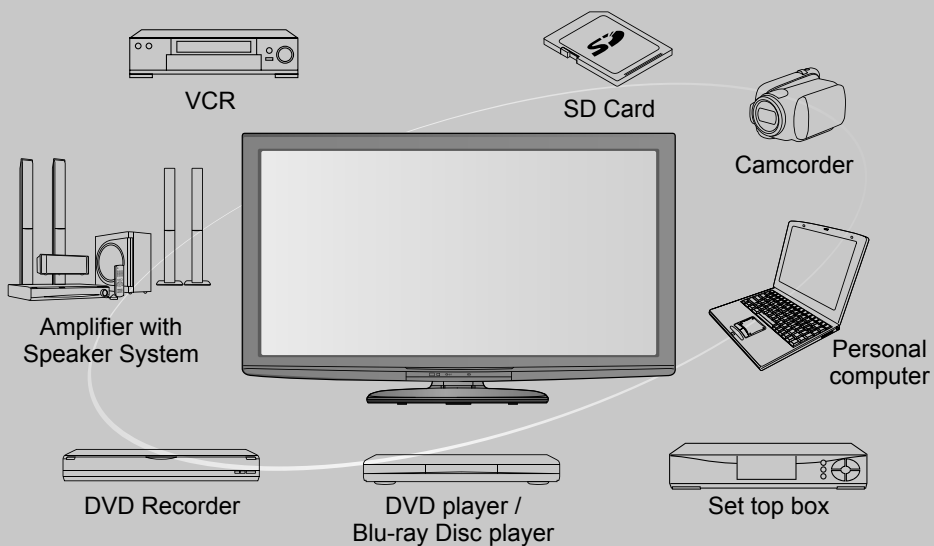The images shown in this manual are for illustrative purposes only.

English

Experience an amazing level of multimedia excitement

Receive digital terrestrial services using an integrated Digital TV tuner

Sharp pictures with HDMI terminal

Create home theatre and DVD recorder link-ups with "VIERA Link" without complicated settings!

Enjoy rich multimedia

VCR

SD Card

Camcorder

Amplifier with Speaker System

Personal computer

DVD Recorder

DVD player / Blu-ray Disc player

Set top box

Notice about Digital TV Functions
- The MPEG-4 AVC feature was designed to specifications as we know them today. This specification may be subject to future changes beyond our control that may not guarantee the decoding of such services.

February 2010

This product is licensed under the AVC patent portfolio license for the personal and non-commercial use of a consumer to (i) encode video in compliance with the AVC Standard ("AVC Video") and/or (ii) decode AVC Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed to provide AVC Video. No license is granted or shall be implied for any other use. Additional information may be obtained from MPEG LA, LLC. See http://www.mpegla.com.
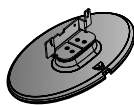
Standard accessories

Check that you have the accessories and items shown ☑

☐ Remote Control
● N2QAYB000494

☐ Pedestal ➡ p. 6

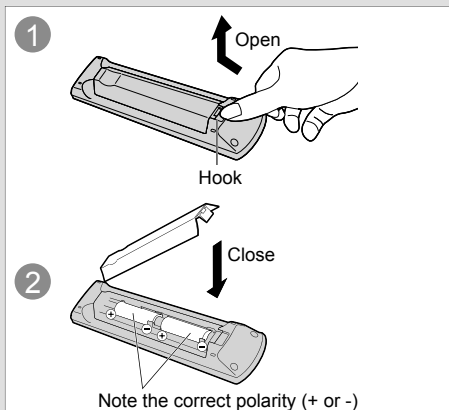☐ Batteries for the Remote Control (2)
● R6 (AA)

☐ Fall-prevention parts ➡ p. 7

☐ Operating Instructions with Warranty statement

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

Inserting and removing remote's batteries

① Open

Hook

② 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.
● Do not disassemble or modify the remote control.

Contents

Be sure to Read
● Safety Precautions ··························· 4
(Warning / Important Installation Notices)

Quick Start Guide

Basic Features

Advanced Features

Technical

Quick Start Guide

**Basic**

Advanced

Technical

3

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.
● Do not touch the mains plug with a wet hand. (This may cause electrical shock.)
● Do not damage the mains lead. (A damaged lead may cause fire or electrical shock.)
  • Do not move the TV with the lead plugged in the socket outlet.
  • Do not place a heavy object on the lead or place the lead near a high-temperature object.
  • Do not twist the lead, bend it excessively, or stretch it.
  • Do not pull on the lead. Hold onto the mains plug body when disconnecting lead.
  • Do not use a damaged mains plug or socket outlet.

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

AC 220 - 240 V
50 / 60 Hz
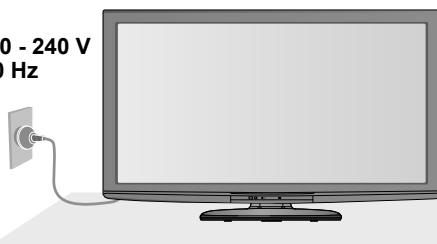
Power source / Installation
● This TV is designed for:
  • AC 220 - 240 V, 50 / 60 Hz
  • Indoor use
  • Table-top use

Do not remove covers and NEVER modify the TV yourself
● Do not remove the rear cover as live parts are accessible when it is removed. There are no user serviceable parts inside. (High-voltage components may cause serious electrical shock.)
● Have the TV checked, adjusted, or repaired at your local Panasonic dealer.

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

Do not 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 insert foreign objects into 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 (p. 6) / wall-hanging brackets (p. 7).

Do not allow children to handle SD Card
● As with any small object, SD Cards can be swallowed by young children. Please remove SD Card immediately after use and store out of reach of children.

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■ **Install the TV on a stable surface**
If a television is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:
● Using cabinets or stands recommended by the manufacturer of the television.
● Only using furniture that can safely support the television.
● Ensuring the television is not overhanging the edge of the supporting furniture.
● Not placing the television on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television to a suitable support.
● Not standing the televisions on cloth or other materials placed between the television and supporting furniture.
● Educating children about the dangers of climbing on furniture to reach the television or its controls.

■ **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**

■ **Allow sufficient space around the TV for radiated heat**
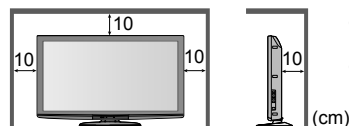
Minimum distance

● When using the pedestal, keep a space between the bottom of the TV and the surface where the TV is set.
● 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 apply strong force or impact to the display panel**
● This may cause damage resulting in injury.

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

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

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

Adjust the LCD panel to your desired angle
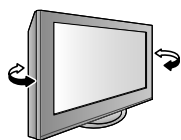
Set the mark at the centre as illustrated, to have the swivel positioned at the centre of the rotation angle.
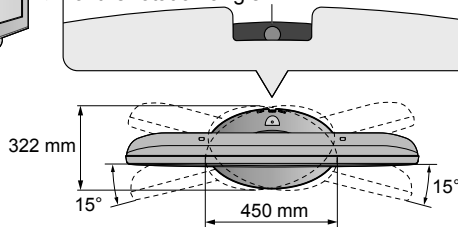
● Ensure that the pedestal does not hang over the edge of the base even if the TV swivels to the full rotation range.
● Do not place any objects or hands within the full rotation range.

322 mm

15°   15°

450 mm

[View from the top]

5

Accessories / Options

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 the pedestal for any other TV or displays.
● Otherwise the TV or the display 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 screws (4)   Ⓑ Assembly screws (4)   Ⓒ Bracket (1)   Ⓓ Base (1)
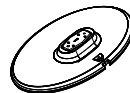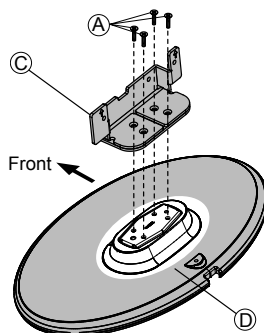

Assembling the pedestal

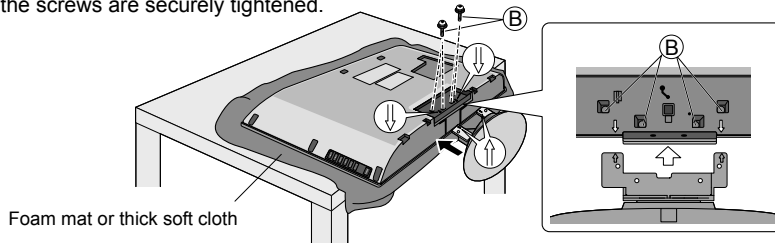Use the assembly screws Ⓐ to fasten the bracket Ⓒ to the base Ⓓ securely.
● Make sure that the screws are securely tightened.

Ⓐ
Ⓒ
Front
Ⓓ

Securing the TV

Insert the bracket into the TV, and then fasten securely with the assembly screws Ⓑ.
● Make sure that the screws are securely tightened.

Ⓑ
Ⓑ

Foam mat or thick soft cloth
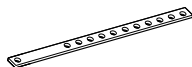
6

Preventing the TV from falling over

This TV could fall over if it is pushed, pulled or knocked down.
We therefore recommend the TV is secured to the furniture as illustrated.
● This measure is designed to reduce the risk of injury from a falling TV. However, it cannot guarantee protection in all cases.

Fall-prevention parts

Ⓐ Band   Ⓑ Screw   Ⓒ Wood screw

Securing to a furniture
Fix pedestal and furniture together with band.

Ⓑ Screw
Ⓐ Band
Ⓒ Wood screw
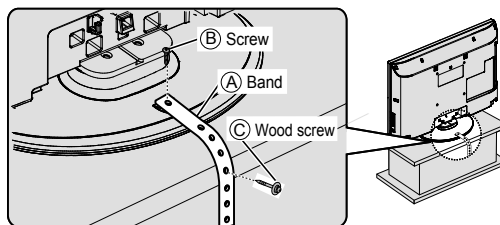
This image is for illustrative purposes only.

Optional accessories

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

Wall-hanging bracket
● TY-WK3L2RW

Rear of the TV

200mm

200mm

Holes for wall-hanging bracket installation
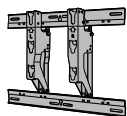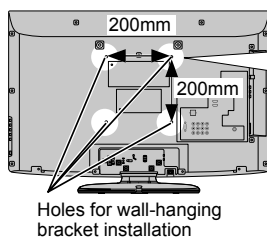
Screw for fixing the TV onto the wall-hanging bracket (not supplied with the TV)
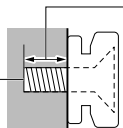
Depth of screw: minimum 10 mm, maximum 12 mm

[View from the side]

(Warning)
● Using other wall-hanging brackets, or installing a wall-hanging bracket by yourself have the risk of personal injury and product damage. 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. Any damage caused by installing without a qualified installer will void your warranty.
● Do not mount the unit directly below ceiling lights (such as spotlights, floodlights or halogen lights) which typically give off high heat. Doing so may warp or damage plastic cabinet parts.
● Take care when fixing wall brackets to the wall. Always ensure that there are no electrical cables or pipes in the wall before hanging bracket.
● To prevent fall and injury, remove the TV from its fixed wall position when it is no longer in use.

Basic Connection

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

Connecting the aerial

TV only

Rear of the TV

AC 220 - 240 V,
50 / 60 Hz

Mains lead

Aerial

RF cable

VIDEO VIDEO Y VIDEO

P$_B$/C$_B$

L L L

P$_R$/C$_R$

R R R
AUDIO AUDIO COMPONENT AUDIO

PC

PC AUDIO
via AV2

MONITOR OUT AV1 IN AV2 IN

ANT

✔ ✖
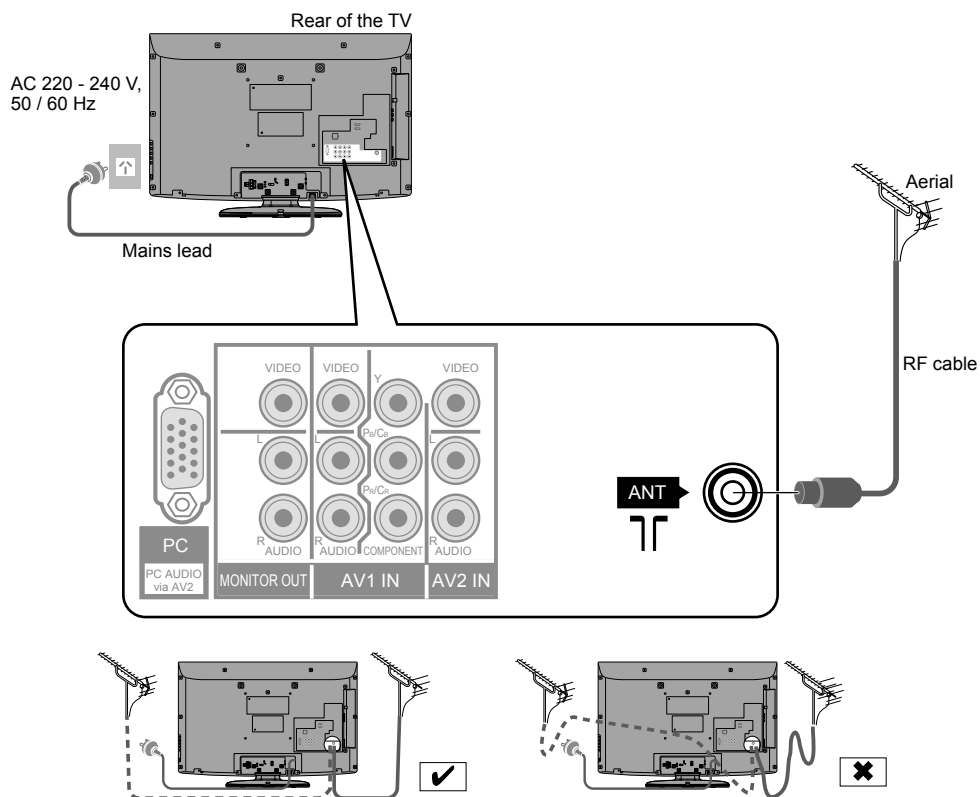
If the antenna is placed in the wrong location, interference might happen.

Note

● Do not put the RF cable close to the mains lead to avoid noise.
● Do not place the RF cable under the TV.
● To obtain optimum quality picture and sound, an aerial, the correct cable (75 Ω coaxial) and the correct terminating plug are required.
● If a communal aerial system is used, you may require the correct connection cable and plug between the wall aerial socket and the TV.
● Your local Television Service Centre or dealer may be able to assist you in obtaining the correct aerial system for your particular area and the accessories required.
● Any matters regarding aerial installation, upgrading of existing systems or accessories required, and the costs incurred, are the responsibility of you, the Customer.
● VIERA Link connection ➠ p. 43
● Read the manual of the equipment, too.
● Another equipments connection ➠ p. 48, 49

Connecting DVD Recorder / VCR

TV, DVD Recorder or VCR

Rear of the TV

AC 220 - 240 V, 50 / 60 Hz

Mains lead

Aerial

VIDEO VIDEO Y VIDEO

P$_B$/C$_B$

L

P$_R$/C$_R$

R AUDIO AUDIO COMPONENT R AUDIO

MONITOR OUT AV1 IN AV2 IN

ANT

RCA cable

VIDEO OUT AUDIO OUT

RF OUT

RF IN

RF cable

RF cable

DVD Recorder or VCR

9

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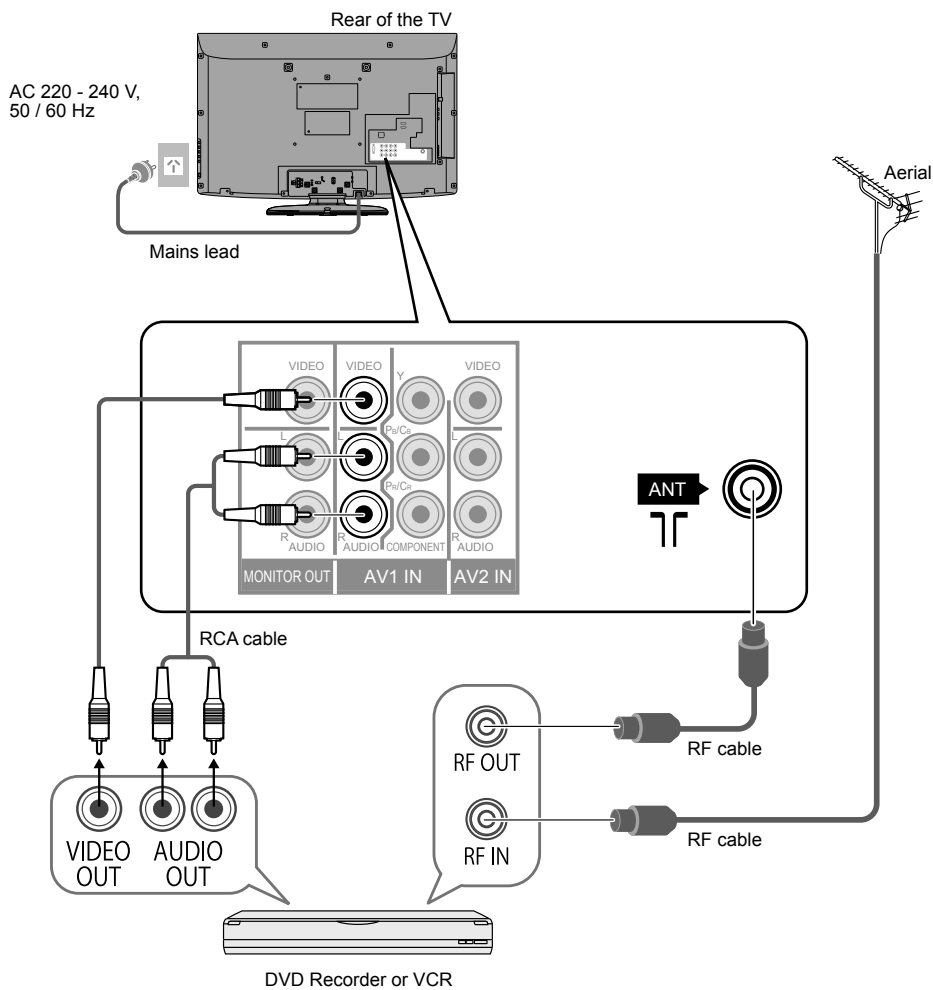
Identifying Controls
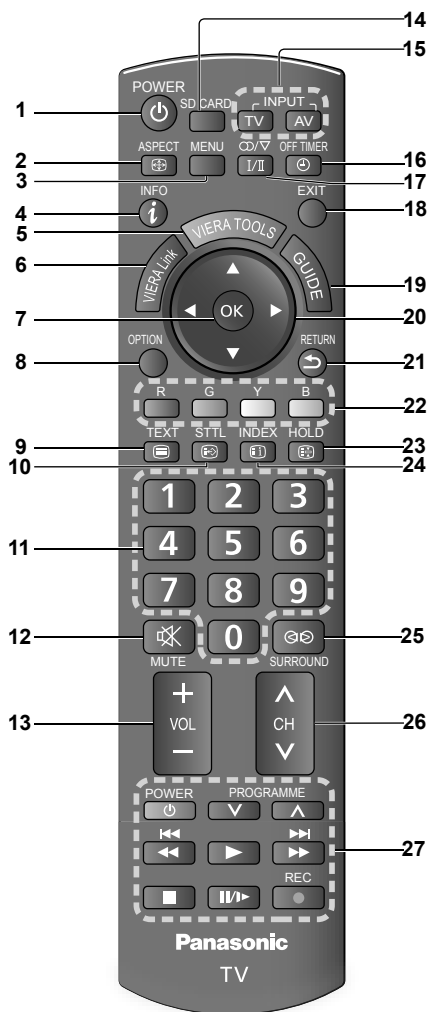
1 **Standby On / Off switch**
  ● Switches TV On or Off standby
2 **Aspect (p. 15)**
  ● Changes aspect ratio from Aspect Selection list
  ● Also possible by pressing this button repeatedly until you reach the desired aspect
3 **Main Menu (p. 22)**
  ● Press to access Picture, Sound and Setup Menus
4 **Channel / Programme Information (p. 14)**
  ● Displays channel and programme information

5 **VIERA TOOLS (p. 21)**
  ● Displays some special feature icons and accesses easily
6 **VIERA Link (p. 43)**
  ● Accesses VIERA Link Menu
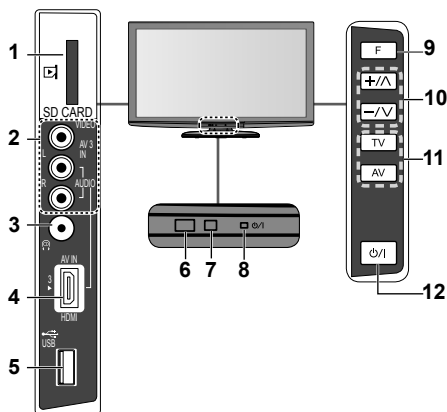7 **OK**
  ● Confirms selections and choices
  ● Press after selecting channel positions to quickly change programme
8 **Option Menu (p. 14)**
  ● Easy setting for viewing and sound options
9 **Teletext (p. 17)**
  ● Switches to teletext mode
10 **Subtitles (p. 13)**
  ● Displays subtitles
11 **Numeric buttons**
  ● Changes channel and teletext pages
  ● When in Standby mode, switches TV On
12 **Sound Mute**
  ● Switches sound mute On or Off
13 **Volume Up / Down**
14 **SD Card (p. 36)**
  ● Switches to SD Card viewing / listening mode
15 **Input mode selection**
  ● TV - switches Digital TV / Analogue TV mode (p. 13)
  ● AV - switches to AV input mode from Input Selection list (p. 19)
16 **Off Timer (p. 13)**
  ● Sets the time the TV automatically turns off
17 **Stereo / Bilingual Sound Selection (p. 50)**
  ● Changes the sound track when more than two choices are available (Digital TV mode) (p. 14)
18 **Exit**
  ● Returns to the normal viewing screen
19 **Guide (p. 16)**
  ● Displays TV Guide
20 **Cursor buttons**
  ● Makes selections and adjustments
21 **Return**
  ● Returns to the previous menu / page
22 **Coloured buttons**
  ● Used for the selection, navigation and operation of various functions
23 **Hold**
  ● Freeze / unfreeze picture (p. 13)
  ● Holds the current teletext page (teletext mode) (p. 17)
24 **Index (p. 17)**
  ● Returns to the teletext index page (teletext mode)
25 **Surround (p. 25)**
  ● Switches surround sound setting
26 **Channel Up / Down**
  ● Selects channel in sequence
27 **Connected equipment operations (p. 20)**

1 SD card slot
2 AV3 terminals
3 Headphone jack
4 HDMI3 terminal
5 USB terminal
6 Remote control signal receiver
● Do not place any objects between the TV remote control signal receiver and remote control

7 C.A.T.S. (Contrast Automatic Tracking System) sensor
● Senses brightness to adjust picture quality when "Eco Mode" in the Picture Menu is set to "On" (p. 24)
8 Power LED
● Standby: red On: green
● When using the remote control, indicates the TV has received a command.
9 Function Select
● Volume / Backlight / Contrast / Brightness / Colour / Sharpness / Tint (NTSC mode) / Bass ("Music" or "Speech" mode in the Sound Menu) / Treble ("Music" or "Speech" mode in the Sound Menu) / Balance / "Digital TV Auto Tuning" or "Analogue TV Auto Tuning" (p. 24 - 26)
10 Increases or decreases the channel position by one. When a function is already displayed, press to increase or decrease the selected function. When in standby mode, switches TV on.
11 Changes the input mode
12 Mains power On / Off switch
● Switch On to turn on the TV or turn the TV to Standby mode by the remote control

Quick Start Guide

Identifying Controls

Using the On Screen Displays

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

Example (Sound Menu):
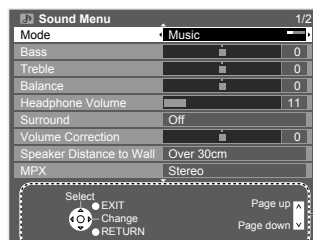
Operation guide will help you.

How to use remote control

MENU	Open the Main Menu	
	Move the cursor / select the menu item	
	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

11

Auto Tuning

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

1 Plug the TV into mains socket and switch On
- You can now use the remote control to turn On the TV or switch the TV to standby mode. (Power LED: On)

2 Select your area

Select State / Territory
New South Wales / Australian Capital Territory
Victoria
Queensland
South Australia
Western Australia
Northern Territory
Tasmania

① select
② set

3 Select Auto Scan Type

Auto Scan Type
All Channels
Digital TV Channels only

② access
① select

Auto Tuning starts

Auto Tuning			
Digital TV Scan		CH 6	69
Analogue TV Scan		CH 0	75
This will take about 6 minutes.			
RF Ch	Channel Name	Type	Quality
62	CBBC Channel	Digital TV	10
62	BBC Radio Wales	Digital TV	10
62	E4	Digital TV	10
62	Cartoon Nwk	Digital TV	10
29		Analogue TV	-
33		Analogue TV	-
Digital TV: 4	Analogue TV: 2		
	Searching		

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

4 Select "Home"

Please select your viewing environment.	
Home	Shop

*

① select
② set

Auto Tuning is complete

POWER
MENU
EXIT
OK
RETURN

---

*Viewing environment mode

Home : Recommended mode for viewing at home. Select "Home" for optimal picture / power consumption. "Viewing Mode" is set as "Normal" (p. 24).

Shop : Demonstration mode to explain main features of this TV (for in-store display). "Viewing Mode" is set as "Dynamic" (p. 24).

To return to viewing environment selection mode if you selected "Shop"

Shop
You have selected shop mode

RETURN

Please select your viewing environment.	
Home	Shop

OK

Automatic Demo	
Off	On

RETURN
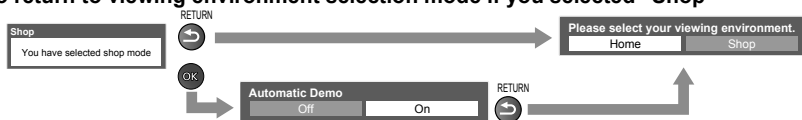
- To change the viewing environment mode later on, reset all settings by accessing Shipping Condition. ➡ "Shipping Condition" (p. 34)

Watching TV

1 **Turn power on**

POWER

● Mains power On / Off switch should be On (p. 11).

2 **Select Digital TV or Analogue TV mode**

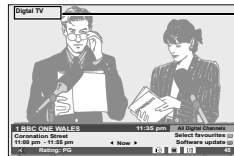TV ● Also possible to select the mode by pressing the TV button repeatedly on the remote control or side panel of the TV. (p. 11).
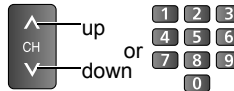
The selected mode is displayed.
● For details ➡ p. 33

Digital TV

1 BBC ONE WALES   11:35 pm   All Digital Channels
Coronation Street   Select favourites
11:00 pm - 11:55 pm   ◄ Now ►   Software update
◄   Rating: PG   45

Information banner appears whenever you select a channel
● For details ➡ p. 14

3 **Select a channel**

CH ︿ up
     ﹀ down
or

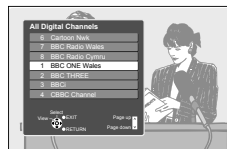| 1 | 2 | 3 |
4	5	6
7	8	9
	0	

● To select the two or three-digit channel number, e.g. 39
  ➡ 3 ➡ 9 (in a short time)
● If one or two-digit channel number
  ➡ OK ➡ quickly changes the channel

● To select from the Channel List ➡ OK

All Digital Channels
6   Cartoon Nwk
7   BBC Radio Wales
8   BBC Radio Cymru
1   BBC ONE Wales
2   BBC THREE
3   BBC1
4   CBBC Channel

Select ①View ▬EXIT   Page ↑0
↵◀RETURN   Page down   0

① select a channel
② watch

Note

● When the TV is switched to standby, there will be a clicking sound after a short delay. This is normal.

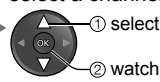**Select a channel using information banner (p. 14)**

Possible to confirm the programme name before selecting channels.

Display information banner if it is not displayed

INFO

Possible to set display timeout in "Banner Display Timeout" (p. 26).

While the banner is displayed, select a channel
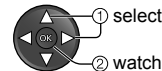
① select
② watch

Select a channel using TV Guide (Digital TV mode) (p. 16)

Possible to confirm the TV Guide (EPG) before selecting channels.

Display TV Guide   Select a channel

GUIDE

① select
② watch

Other useful functions

Hold	Display subtitles
HOLD **Freeze / unfreeze picture**	STTL **Display / hide subtitles** (if available)

Off Timer
Turn the TV off automatically after a fixed period of time (0 / 15 / 30 / 45 / 60 / 75 / 90 minutes)

OFF TIMER ➡ 15   Press repeatedly until the desired time appears.

● Also possible to set the time from "Off timer" in the Setup Menu (p. 26)
● To cancel ➡ Set to "0" or turn the TV off.
● To display the remaining time ➡ Information banner (p. 14)
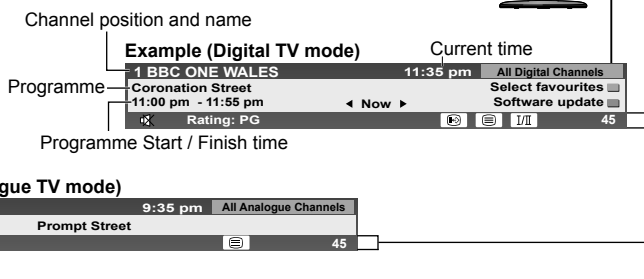● When the remaining time is within 3 minutes, the remaining time will flash on screen.

Basic

TH-L42U20A_EN.indd   13   4/2/2010   2:02:54 PM

Watching TV

Other useful functions

Display information banner

INFO

Display information banner
● Also appears when changing a channel

Channel position and name

Example (Digital TV mode)   Current time

Programme

1 BBC ONE WALES	11:35 pm	All Digital Channels
Coronation Street		Select favourites ▣
11:00 pm - 11:55 pm	◄ Now ►	Software update ▣
🔇 Rating: PG		▣ ▣ I/II 45

Programme Start / Finish time

Example (Analogue TV mode)

1 BBC	9:35 pm	All Analogue Channels
CH 02	Prompt Street	
🔇 ◖◗		▣ 45

Channel Status

● To confirm another tuned channel name ➤

● To watch the programme listed in the banner ➤ OK

● Information on the next programme (Digital TV mode) ➤

● To select a favourite list (Digital TV mode) ➤ B

● To update the TV software ➤ R

● To hide ➤ EXIT

● Extra information (press again to hide the banner) (Digital TV mode) ➤ INFO

● To set display timeout ➤ "Banner Display Timeout" (p. 26)

Features available / Message meanings

🔇	Sound mute On
Rating	Rating information (p. 50) (Digital TV mode)
Bad signal	Poor TV signal quality (Digital TV mode)
Encrypted	Scrambled programme (Digital TV mode)
▣	Subtitle service available (Digital TV mode)
I/II	Multiple image or audio available (Digital TV mode)
▣	Teletext service available
◖◗, I, II, ◅	Audio mode (p. 50) (Analogue TV mode)
1 - 90	Off Timer remaining time ● For settings ➤ p. 13

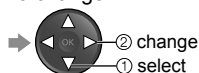## Display the selectable settings for the current programme

OPTION   **Check or change the current programme status instantly**

● To change

② change
① select

Audio Selection (Digital TV mode)
Allows you to select between alternative language for sound tracks (if available)

Dual Audio (Digital TV mode)
Selects multiplex sound (if available)

MPX (Analogue TV mode)
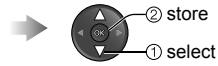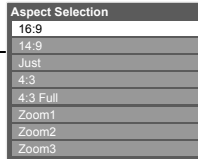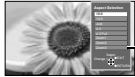Selects multiplex sound (if available)
➤ Sound Menu (p. 25)

Volume Correction
Adjusts volume of individual programme or input mode ➤ Sound Menu (p. 25)

Other useful functions

Change aspect ratio

Enjoy viewing the picture at its optimum size and aspect.

ASPECT
Display Aspect Selection list

Aspect Selection
16:9
14:9
Just
4:3
4:3 Full
Zoom1
Zoom2
Zoom3

② store
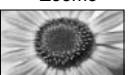① select

While the list is displayed, select the mode

To change the mode using the ASPECT button only

➡ ASPECT Press repeatedly until you reach the desired mode

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.
● Digital TV mode and 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
● In Digital TV mode, only "16:9" and "4:3 Full" are available.
● Only "16:9" and "4:3" are available in PC input mode.
● Aspect is fixed to "16:9" when "Viewing Mode" is set to "Game" in the Picture Menu.
● Not available in teletext mode.
● Aspect mode can be memorized separately for each SD (Standard definition) and HD (High definition) signals except in Digital TV mode.

Region Select Adjust the standard time	**Daylight Saving Time** Adjust for Summer Time
Select the region where you live to adjust the standard time. ● The time contained in the broadcast signal is UTC (Universal Time coordinated) formally known as GMT (Greenwich Mean Time).	Select time offset from the standard time for Summer Time. ● Normally select "Auto". ● If there is a gap between displayed time and actual time, set this function.

Region	Standard time	Daylight Saving Time: Auto (During Summer Time)
NSW / ACT	+10:00	+11:00
Victoria		
Queensland	+10:00	
South Australia	+9:30	+10:30
Western Australia	+8:00	
Northern Territory	+9:30	
Tasmania	+10:00	+11:00

(Based on GMT)

● These items can be set from "Other settings" in Setup Menu. (p. 23, 27)
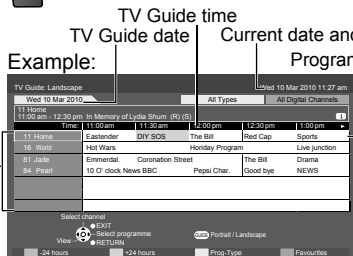
15

Using TV Guide (Digital TV mode)

Using TV Guide enables you to select programme easily, view programme informations, etc.
TV Guide—Electronic Programme Guide (EPG) provides an on screen listing of the current and future programmes over the next seven days depending on broadcasters.
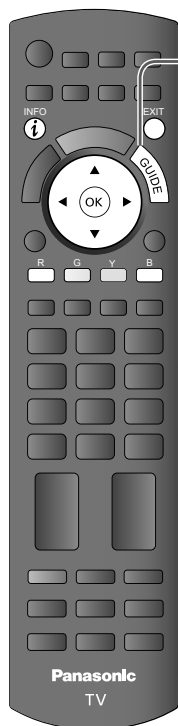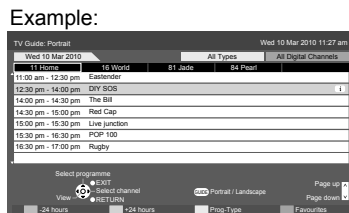
View TV Guide
Each time pressed, the layout will be changed. (Landscape / Portrait)

TV Guide time
TV Guide date — Current date and time
Programme

Example:

TV Guide: Landscape		Wed 10 Mar 2010 11:27 am
Wed 10 Mar 2010	All Types	All Digital Channels

11 Home
11:00 am - 12:30 pm In Memory of Lydia Shum (R) (S)

Time:	11:00am	11:30am	12:00 pm	12:30 pm	1:00 pm
11 Home	Eastender	DIY SOS	The Bill	Red Cap	Sports
16 World	Hot Wars		Horiday Program		Live junction
81 Jade	Emmerdal.	Coronation Street		The Bill	Drama
84 Pearl	10 O' clock News BBC		Pepsi Char.	Good bye	NEWS

Select channel
● EXIT
● Select programme
View ● RETURN   BACK Portrait / Landscape
-24 hours   +24 hours   Prog-Type   Favourites

Landscape (Displays by channel)

Channel position and name

Example:

TV Guide: Portrait		Wed 10 Mar 2010 11:27 am
Wed 10 Mar 2010	16 World 81 Jade 84 Pearl	All Types All Digital Channels

11 Home - 12:30 pm   Eastender
12:30 pm - 14:00 pm   DIY SOS
14:00 pm - 14:30 pm   The Bill
14:30 pm - 15:00 pm   Red Cap
15:00 pm - 15:30 pm   Live junction
15:30 pm - 16:30 pm   POP 100
16:30 pm - 17:00 pm   Rugby

Select programme
● EXIT
View ● Select channel   Page up
● RETURN   BACK Portrait / Landscape   Page down
-24 hours   +24 hours   Prog-Type   Favourites

Portrait (Displays by time)

To watch the programme

① select
② watch

To return to TV

EXIT

To view details of the programme
Select the programme

select

INFO ● Press again to return to TV Guide.

To the previous day ➡ R
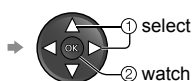
To the next day ➡ G

To view a channel list of the selected favourite list

B

(favourite list)

Favourites
All Channels

All Channels
All Digital Channels
All Analogue Channels
Favourites1
Favourites2
Favourites3
Favourites4

① select a favourite list
② view

To view a channel list of the selected type

Y

(Type list)

Prog. type
All Types

All Types
Movie
News
Entertainment
Sport
Children's
Music

① select type
② view
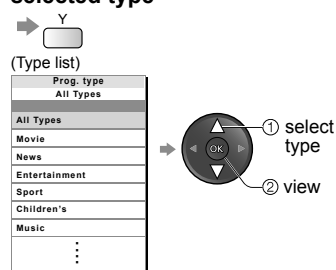
Note
● When this TV is turned on for the first time, or the TV is switched off for more than a week, it may take some time before the TV Guide is completely shown.

Viewing Teletext

Teletext services are the text information provided by the broadcasters.
The features may vary depending on the broadcasters.

What is FASTEXT mode?

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

What is 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 ➠ [R] [G]

To select among subject blocks ➠ [B]
To select next subject within the subject block
(After the last subject, it moves to the next subject block.) ➠ [Y]
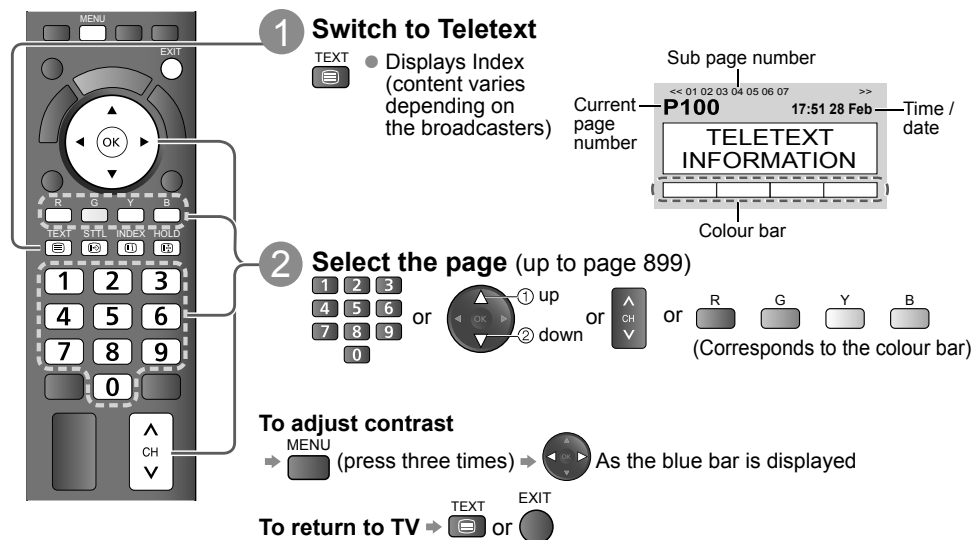
What is List mode?

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. 18)

To change mode ➠ "Teletext" in Setup Menu (p. 26)

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 (up to page 899)

[1 2 3 / 4 5 6 / 7 8 9 / 0] or ① up ② down or [CH] or [R] [G] [Y] [B]
(Corresponds to the colour bar)

To adjust contrast
➠ [MENU] (press three times) ➠ As the blue bar is displayed

To return to TV ➠ [TEXT] or [EXIT]

Functions (Teletext mode)

Hold	Reveal hidden data
[HOLD] **Stop automatic updating** (If you wish to hold the current page without updating) **To resume** ➠ [HOLD]	[MENU] ➔ [R] Reveal hidden words e.g. quiz page answers **To hide** ➠ [R]

INDEX	Call up Subtitle
[INDEX] **Return to the main index page**	[STTL] **Display subtitles** ● Call up P801 (subtitle page) if available. ● If you press this button during P801 is displayed, teletext mode will be cancelled and return to TV.

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Viewing Teletext

Functions (Teletext mode)

View in multi window

Watch TV and Teletext in two windows at once

MENU (press twice) → [OK navigation pad] → Select teletext only or picture / teletext

● Operations can be made only in Teletext screen.

FULL / TOP / BOTTOM

MENU → G

(TOP)
P100
Broadcast
(Expand the TOP half)

(BOTTOM)
(Expand the BOTTOM half)

Normal (FULL)
P100 Broadcast
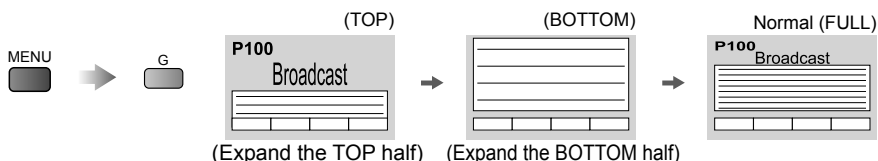
Store frequently viewed pages

Store frequently viewed pages in the colour bar (List mode only)

[colour button] → Corresponding colour button (As page is displayed) → OK press and hold →
P100
Broadcast
101 200 400 888
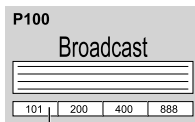
The number changes to white.
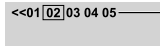
To change stored pages
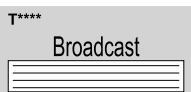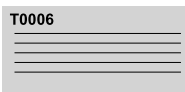
→ [colour button] Colour button you want to change → 1 2 3 / 4 5 6 / 7 8 9 / 0 Enter new page number → OK press and hold

View sub page

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

[OK navigation pad] <<01 02 03 04 05 — Appears at top of the screen

To view specific sub page

→ MENU → B T****
Broadcast
→ 0 0 0 6 example: P6 Enter the 4-digit number → T0006

● Sub pages:
  The number of sub pages varies depending on the broadcasters.
  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.

MENU → Y → P108 [TV picture] Appears when updating is completed → Y → View the updated page

Changes to TV screen temporarily (You cannot change the programme.)

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

Watching External inputs

Connect the external equipment (VCRs, DVD equipment, PC, etc.) and you can watch through the input.
● To connect the equipment ➡ p. 48, 49
The Remote Control is capable of operating some functions of selected external equipment.
For details, see the manual of the equipment or ask your local dealer.

1 **Display the input selection menu**

AV

2 **Select the input mode of the connected equipment**
● You can also select the input using the AV button on the remote control or the side panel of the TV (p. 11).
  Press the button repeatedly until the desired input is selected.
● You can label or skip each input mode ➡ "Input Labels" (p. 33)
  Skipped inputs will not be displayed when the AV button is pressed.

Example (AV2)

Input Selection
AV1
AV2
AV3
PC
HDMI1
HDMI2
HDMI3
TV

Example (PC)

Input Selection
AV1
AV2
AV3
PC
HDMI1
HDMI2
HDMI3
TV

② watch
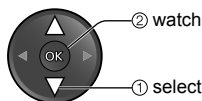
① select

3 **View**
The selected mode is displayed on the screen.

Example (AV2)

AV2
16:9
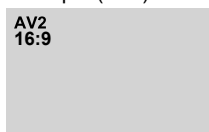
● If the external equipment has an aspect adjustment function, set to "16:9".

Example (PC)

PC
640X480 / 60Hz
16:9
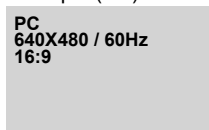
● You can also listen to PC sound with the audio cable connected.
● You can setup some functions, Advanced PC Settings (p. 24) in Picture Menu and PC setup (p. 26) in Setup Menu.
● For HDMI-compatible PC (p. 51-52), possible to connect to HDMI terminals (HDM1 / HDMI2 / HDMI3) by using HDMI cable.

To return to TV
➡ TV

INPUT
TV AV

OK

1 2 3
4 5 6
7 8 9
0

POWER PROGRAMME

REC

Panasonic

TV

TH-L42U20A_EN.indd   19 4/2/2010   2:03:02 PM

Watching External inputs

Operating the equipment with the TV remote control

The equipment connected to the TV can be directly operated with the below buttons of this TV remote control.

POWER ⏻	**Standby** Set to Standby mode / Turn on
▶	**Play** Playback videocassette / DVD
■	**Stop** Stop the operation
⏮ ◀◀	**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
�II/▶	**Pause** Pause / Resume DVD: Press and hold to play at slow speed
PROGRAMME ∨ ∧	**Programme Up / Down** Select programme
REC ●	**Record** Start recording

How to change the code for each equipment
Each type of Panasonic equipment has its own remote control code.
Please change the code for each equipment you want to operate.
If you operate the connected equipment in VIERA Link (p. 43), select the code "73".

Press and hold ⏻ POWER during the following operations

Enter the appropriate code
(see table below) [1][2][3][4][5][6][7][8][9][0] ➡ Press ■

Type of equipment	Code
DVD Recorder / DVD Player	70 (default)
Player theatre / Blu-ray Disc theatre	71
VCR	72
The equipment using in VIERA Link ➡ "VIERA Link Control" (p. 46)	73

Note
● Confirm if the remote control works correctly after changing the code.
● The codes may be reset to default values if batteries are replaced.
● Some operations may not be possible on some equipment models.

How to Use VIERA TOOLS

You can access some special features easily by using the VIERA TOOLS function.
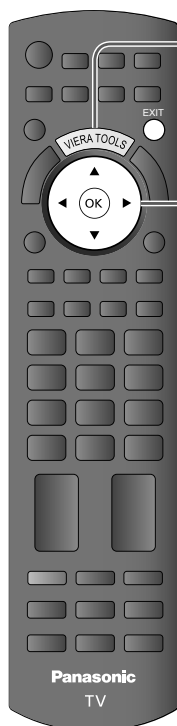
1 **Display icons of the feature**

VIERA TOOLS

2 **Select a feature**

① select
② access

1 2 3 4 5
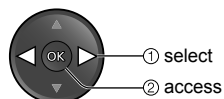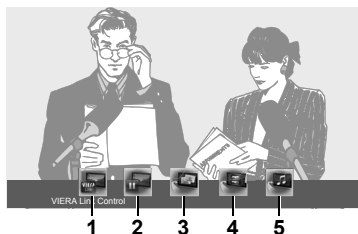
3 **Follow the operation of each feature**

1 VIERA Link Control ➡ "VIERA Link Control" (p. 46)

When two or more compatible equipments are connected, a selection screen will be displayed.
Please select the correct description and access.

2 Pause Live TV ➡ "Pause Live TV" (p. 45)

3 Photo ➡ "Photo mode" (p. 38)

4 Video ➡ "Video mode" (p. 40)

5 Music ➡ "Music mode" (p. 42)

To return to TV

EXIT

or *VIERA TOOLS*

How to Use Menu Functions

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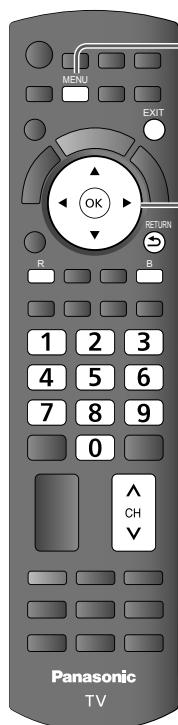
1 Display the menu

MENU

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

2 Select the menu

VIERA Main Menu
- Picture
- Sound
- Setup

(example)

② access
① select

3 Select the item

Picture Menu   1/2
Viewing Mode   Normal
Backlight   50
Contrast   90
Brightness   0
Colour   50
Sharpness   50
Tint   0
Colour Balance   Normal
Vivid Colour   On

(example)

select

4 Adjust or select

Picture Menu   1/2
Viewing Mode   Normal
Backlight   50
Contrast   90
Brightness   0
Colour   50
Sharpness   50
Tint   0
Colour Balance   Normal
Vivid Colour   On

(example)

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
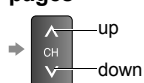
Choose from among alternatives
Number and positions of alternatives

Colour Balance   Normal
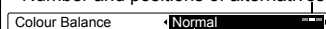
Changed

Adjust using the slide bar

Sharpness   50
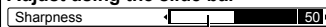
Moved

Go to the next screen

Digital TV Tuning Menu Access
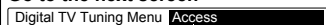
Displays the next screen

Enter characters by free input menu

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 ( ) + - * _

① select
② set

or

Store

● To delete a character ➡ R   ● To delete all characters ➡ B

Every press changes the character by one. Leave it for a second to set the character, or press OK or any numeric button within a second.
See the table below for the corresponding characters for each numeric button.

To reset the settings
● To reset the picture settings only
  ➡ "Reset Picture Defaults" in Picture Menu (p. 24)

● To reset the sound settings only
  ➡ "Reset Sound Defaults" in Sound Menu (p. 26)

● To reset all settings
  ➡ "Shipping Condition" (p. 27) in Setup Menu

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

VIErA Main Menu
- **Picture**
- **Sound**
- **Setup**

Picture (p. 24)

Picture Menu 1/2
Viewing Mode	Normal
Backlight	50
Contrast	90
Brightness	0
Colour	50
Sharpness	50
Tint	0
Colour Balance	Normal
Vivid Colour	On

Picture Menu 2/2
Eco Mode	Off
P-NR	Off
3D-COMB	On
Panel	On
Advanced PC Settings	Access
Reset Picture Defaults	Reset

Sound (p. 25, 26)

Sound Menu 1/2
Mode	Music
Bass	0
Treble	0
Equalizer	Access
Balance	0
Headphone Volume	11
Surround	Off
Volume Correction	0
Speaker Distance to Wall	Over 30cm

Sound Menu 2/2
MPX	Stereo
Digital Audio Preference	Auto
SPDIF Selection	Auto
MPEG Optical Level	0 dB
HDMI1 Input	Digital
Reset Sound Defaults	Reset

Setup (p. 26, 27)

Setup Menu
PC Setup	Access
DVI Position Settings	Access
Off Timer	Off
Child Lock	Access
Digital TV Tuning Menu	Access
Analogue TV tuning Menu	Access
Display Settings	Access
VIERA Link Settings	Access
System Menu	Access
Other Settings	Access

Digital TV Tuning Menu
Favourites Edit	Access
Channel List	Access
Auto Tuning	Access
Manual Tuning	Access
Update Channel List	Access
New Channel Message	On
Signal Condition	Access
Add MPEG-4 AVC Channels	Access

(p. 26)

Analogue TV Tuning Menu
Channel List	Access
Auto Tuning	Access
Manual Tuning	Access

(p. 26)

Display Settings
Teletext	TOP
Input Labels	Access
Banner Display Timeout	3 seconds
Playing Time Display	On

(p. 26)

VIERA Link Settings
VIERA Link	On
Power on Link	Off
Power off Link	On
Standby Power Save	Off
Intelligent Auto Standby	Off

(p. 27)

System Menu
Shipping Condition	Access
System Update	Access
Software Licence	Access
System Information	Access

(p. 27)

Other Settings
Auto Standby	Off
Power Save	Off
16:9 Overscan	On
Region Select	NSW/ACT
Daylight Saving Time	Auto
DVI Input Setting	Normal

(p. 27)

How to Use Menu Functions

Advanced

● Depending on the received signals, available items are varied.

Menu list

Menu	Item	Adjustments / Configurations (alternatives)
Picture	**Viewing Mode**	Basic picture mode **(Dynamic / Normal / Cinema / True Cinema / Game)** In each Viewing Mode, Backlight, Contrast, Brightness, Colour, Sharpness, Tint, Colour Balance, Vivid Colour, Eco Mode, P-NR and 3D-COMB can be adjusted and stored to suit your particular viewing requirement. ● Set for each input signal. 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 with improving the performance of contrast, black and colour reproduction True Cinema : Precisely reproduces the original image quality without any revision. Game : Fast response signal specifically to provide suitable images for playing games ● Not valid on TV mode ● A continuous record of time spent using Game mode can be displayed in the top right of the screen. ➡ "Playing Time Display" (p. 26)
	Backlight, 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 or Component / HDMI input signal reception only
	Colour Balance	Allows you to set the overall colour tone of the picture **(Cool / Normal / Warm)**
	Vivid Colour	Automatically adjusts colours to vivid ones **(Off / On)** ● Not valid on PC signal
	Eco Mode	Automatically adjusts the screen brightness appropriately as the surrounding light level lowers to reduce the power consumption **(Off / On)** ● Not available in shop mode (Dynamic picture mode)
	P-NR	Picture Noise Reduction Automatically reduces unwanted picture noise and flicker noise in the contoured parts of a picture **(Off / Min / Mid / Max)** ● Not valid on PC signal
	3D-COMB	Makes still or slow moving pictures look more vivid **(Off / On)** ● Occasionally, while viewing still or slow moving pictures, colour patterning may be seen.Set to "On" to display sharper and more accurate colours. ● For PAL or NTSC signal reception only ● Not valid on Component, PC, HDMI and SD Card
	Panel	Turns the screen off when you select "Off" **(Off / On)** ● The sound is active even if the screen turns off. ● Press any buttons to turn the screen on. ● This function is effective in reducing power consumption when listening to a sound without watching the TV screen.
	Advanced PC Settings — **R-Gain, G-Gain, B-Gain**	Adjusts each gain
	Advanced PC Settings — **R-Cutoff, G-Cutoff, B-Cutoff**	Cuts off each area
	Advanced PC Settings — **Gamma**	Changes the gamma curve **(1.8 / 2.0 / 2.2 / 2.4 / 2.6)**
	Advanced PC Settings — **Reset PC Settings**	Press the OK button to reset to the present Advanced PC Settings to the default.
	Reset Picture Defaults	Press the OK button to reset the present Picture Menu settings to the default.

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Menu	Item	Adjustments / Configurations (alternatives)
Sound	Mode	Selects basic sound mode **(Music / Speech / User)** ● The selected mode affects all input signals. Music : Improves sound quality for watching music video, etc. Speech : Improves sound quality for watching news, drama, etc. 　　　　● In Music and Speech mode, you can adjust "Bass" and "Treble" settings, and those settings will be stored for each mode. User : Adjusts the sounds manually by using the equalizer to suit your favourite sound quality. 　　　　● For the User mode, "Equalizer" will appear on the Sound Menu instead of "Bass" and "Treble". Select the "Equalizer" and adjust the frequency. ➡"Equalizer" (below)
	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
	Equalizer	Adjusts the frequency level to suit your favourite sound quality ● This function is available when "Mode" is set to "User". ● Select the frequency and change the frequency level by using the cursor button. ● If you want to enhance the bass sound, raise the level of the lower frequency. If you want to enhance the treble sound, raise the level of the higher frequency. ● To reset the levels of each frequency to the default settings, select the "Reset Sound Defaults" by using cursor button, and then press the OK button.
	Balance	Adjusts the volume level of right and left speakers
	Headphone Volume	Adjusts the volume of the headphones
	Surround	Surround sound settings **(Off / V-Audio / V-Audio Surround)** V-Audio: Provides a dynamic enhancer of width to simulate improved spatial effects V-Audio Surround: Provides a dynamic enhancer of width and depth to simulate improved spatial effects ● Switching is also possible by the Surround button on the remote control (p. 10).
	Volume Correction	Adjusts the volume of individual channel 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	Selects multiplex sound mode (if available) (p. 50) ● Normally : Stereo ● Stereo signal cannot be received: Mono ● M1 / M2 : Available while mono signal is transmitted ● Analogue TV mode only
	Digital Audio Preference	Selects the initial setting for Audio tracks **(Dolby D / MPEG)** If programme has both Dolby Digital and MPEG audio tracks, priority is given to what you select Dolby D : A method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2ch) audio, these signals can also be multi-channel audio. MPEG : An audio compression method that compresses audio to small size without any considerable loss of audio quality. 　　　　● Digital TV mode only
	SPDIF Selection	SPDIF : A standard audio transfer file format Selects the initial setting for digital audio output signal from DIGITAL AUDIO OUT terminal **(Auto / PCM)** Auto : Dolby Digital is output as Dolby Digital Bitstream. HE-AAC and MPEG are output as PCM. PCM : Digital output signal is fixed to PCM. ● For Digital TV mode or Video mode (p. 40)
	MPEG Optical Level	Adjusts the audio level of MPEG output from DIGITAL AUDIO OUT terminal as the initial setting **(0 / -2 / -4 / -6 / -8 / -10 / -12dB)** ● Normally, MPEG sound is louder comparing with the other types of audio track. ● Digital TV mode only

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Menu	Item		Adjustments / Configurations (alternatives)
Sound	HDMI1 / 2 / 3 Input		Select to fit the input signal **(Digital / Analogue)** (p. 51). Digital　　: HDMI cable connection Analogue : HDMI-DVI adapter cable connection ● HDMI input mode only
	Reset Sound Defaults		Press the OK button to reset the present settings of Mode, Balance, Headphone Volume, and Surround in Sound Menu to the default.
Setup	PC Setup	Input Resolution	Switches to a wide view ● VGA (640 × 480 pixels), WVGA (852 × 480 pixels), 　XGA (1,024 × 768 pixels), WXGA (1,280 × 768 pixels, 1,366 × 768 pixels) ● Options change depending on signals
		Clock	Set to the minimum level if noise occurs.
		H-pos	Adjusts horizontal position
		V-pos	Adjusts vertical position
		Clock Phase	Eliminates flicker and distortion ● Adjust after Clock adjustment　　● Set to the minimum level if noise occurs
		Sync	PC sync signal type **(H & V / SOG)** H & V : by the horizontal and vertical signals from your PC SOG : Sync on Green sync from your PC
		Reset PC Settings	Press the OK button to reset the present PC Setup settings to the default.
	DVI Position Setting	H-pos	Adjusts horizontal position settings of DVI
		V-pos	Adjusts vertical position settings of DVI
		Reset DVI Position Settings	Press the OK button to reset the present DVI Position settings to the default.
	Off Timer		Sets the time the TV automatically goes to Standby mode **(Off / 15 / 30 / 45 / 60 / 75 / 90 minutes)** (p. 13)
	Child Lock		Locks a channel / AV input to prevent access to it (p. 32)
	Tuning Menu	Favourites Edit	Creates list of favourite channels (Digital TV mode) (p. 29)
		Channel List	Skips the unwanted channels or edits channels (p. 29, 31)
		Auto Tuning	Sets all Digital TV or Analogue TV channels automatically (p. 30, 31)
		Manual Tuning	Sets the TV channels manually (p. 30, 31)
		Update Channel List	Updates the channel list with keeping your settings (Digital TV mode) (p. 30)
		New Channel Message	Selects whether to give a notification message when a new channel is found (Digital TV mode) **(Off / On)** (p. 30)
		Signal Condition	Checks the Digital TV signal condition (p. 30)
		Add MPEG-4 AVC Channels	Activates the reception of MPEG-2 and MPEG-4 AVC channels ● Use this function if MPEG-4 AVC services start in your area. ● All previous tuning setting are erased. ● Once activated, this option is removed from the Digital TV Tuning Menu.
	Display Settings	Teletext	Teletext display mode **(TOP(FASTEXT) / List)** (p. 17)
		Input Labels	Labels or skips each input terminal (p. 33)
		Banner Display Timeout	Sets how long the information banner stays on screen (p. 14) **(0 (No display) / 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 seconds)**
		Playing Time Display	Set to "On" to display a continuous record of time spent using Game mode every 30 mins **(Off / On)** ● This function is available when "Game" is selected in "Viewing Mode" (p. 24).

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Menu		Item	Adjustments / Configurations (alternatives)
Setup	VIERA Link Settings	**VIERA Link**	Sets to use VIERA Link functions **(Off / On)** ● VIERA Link functions become available when "VIERA Link" is set to "On" (p. 44).
		Power on Link	Sets to use Power on Link functions **(Off / On)** (p. 44)
		Power off Link	Sets to use Power off Link functions **(Off / On)** (p. 44)
		Standby Power Save	Controls the power consumption in Standby mode of the connected equipment to reduce the power consumption **(Off / On)** (p. 44) ● This function is available when "VIERA Link" is set to "On" and "Power off Link" is set to "On".
		Intelligent Auto Standby	Makes non-watched or non-used connected equipment go into Standby mode to reduce the power consumption **(Off / On (With reminder) / On (No reminder))** (p. 44) ● This function is available when "VIERA Link" is set to "On".
	System Menu	**Shipping Condition**	Resets all settings to the original condition (p. 34)
		System Update	Downloads new software to TV (p. 35)
		Software Licence	Displays the software licence information
		System Information	Displays the system information of this TV
	Other Settings	**Auto Standby**	Sets the time the TV automatically goes to Standby mode when no operation is performed for the selected times **(Off / 2 hours / 4 hours)** ● Inserting the SD Card to the card slot does not affect this function. ● Automatic input switching with the connected equipment affects this function and time-count will be reset. ● The notification message will appear 3 minutes before going to Standby mode.
		Power Save	Reduces brightness of picture to economise on power consumption **(Off / On)**
		16:9 Overscan	Selects the screen area for displaying the image **(Off / On)** On: Enlarges the image to hide the edge of the image Off: Displays the image in the original size ● Set to "On" if noise is generated on the edges of the screen. ● This function is available when aspect is set to "16:9". ● This function can be memorized separately for SD (Standard Definition) and HD (High Definition) signals.
		Region Select	Selects the region where you live to adjust the standard time **(NSW / ACT / Victoria / Queensland / South Australia / Western Australia / Northern Territory / Tasmania)** (p. 15)
		Daylight Saving Time	Select time offset from the standard time for Summer Time **(Auto / Off / +1/2 hour / +1 hour)** (p. 15) ● Set to "Auto" normally.
		DVI Input Setting	Changes the black level in the image for HDMI input mode with DVI input signal manually **(Normal / Full)** ● When the DVI input signal from the external equipment, especially from PC, is displayed, the black level may not be suitable. In this case, select "Full". ● The black level for HDMI input signal will be adjusted automatically.

● A different menu will be displayed in the mode of SD Card (p. 36 - 42).
● Only available items can be selected.

27

Tuning and Editing Channels

You can make Auto Tuning, listing your favourite channels, skipping unwanted channels, etc.

1 **Select Digital TV or Analogue TV**

`TV`

● The selected mode is displayed on the screen (p. 13).

2 **Display the menu**

MENU

3 **Select "Setup"**

VIERA Main Menu
Picture
Sound
Setup

② access
① select

4 **Select "Digital TV Tuning Menu" or "Analogue TV Tuning Menu"**

Digital TV Tuning Menu	Analogue TV Tuning Menu

Setup Menu	
Off Timer	Off
Child Lock	
Digital TV Tuning Menu	Access
Display Settings	
VIERA Link Settings	
System Menu	
Other Settings	

Setup Menu	
Off Timer	Off
Child Lock	
Analogue TV Tuning Menu	Access
Display Settings	
VIERA Link Settings	
System Menu	
Other Settings	

To return to TV

➡ EXIT

② access
① select

5 **Select a function**

Digital TV Tuning Menu	Analogue TV Tuning Menu

For Auto Tuning, using the buttons on the side panel of the TV (p. 11)

① Press repeatedly until "Auto Tuning" appears
F

② Access "Auto Tuning"
TV

③ Start "Auto Tuning"
TV

● To return to TV
➡ F

Digital TV Tuning Menu	
Favourites Edit	Access
Channel List	Access
Auto Tuning	Access
Manual Tuning	Access
Update Channel List	Access
New Channel Messsage	On
Signal Condition	Access

● For details ➡ p. 29, 30

Analogue TV Tuning Menu	
Channel List	Access
Auto Tuning	Access
Manual Tuning	Access

● For details ➡ p. 31

② access
① select

6 **Set** (see next page)

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TH-L42U20A_EN.indd   28

4/2/2010   2:03:08 PM

Digital TV Tuning Menu

Favourites Edit | List favourite channels

Create your favourite channel lists (Favourites) from various broadcasters (up to 4: Favourites1 to 4).
The Favourites lists are available from the Information banner (p. 14) and the TV Guide (p. 16).

① **Select a channel to list**

Digital TV Favourites Editor	
All Digital Channels	Favourites1
1 TEN Digital	
2 ABC TV Sydney	
3 SBS DIGITAL1	
4 FTV guide	
7 7 Digital	
9 NINE DIGITAL	
70 7 HD Digital	
77 7 Guide	
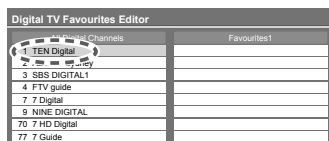
select

● To display another Favourites
  ➡ [G]

② **Add it to the Favourites list**

[OK]

Digital TV Favourites Editor	
All Digital Channels	Favourites1
1 TEN Digital	1 TEN Digital
2 ABC TV Sydney	
3 SBS DIGITAL1	
4 FTV guide	
7 7 Digital	
9 NINE DIGITAL	
70 7 HD Digital	
77 7 Guide	
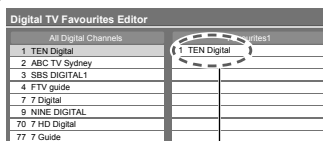
● To add all channels
  to the list ➡ [Y]

A channel is added

To edit List

[OK] Select the field of Favourites to edit and:

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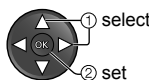
  ➡ **User input**
  | Name | |
  | A B C D E F G H I J K L M N O P Q R S T |
  | U V W X Y Z 0 1 2 3 4 5 6 7 8 9 ! : # |
  | a b c d e f g h i j k l m n o p q r s t |
  | u v w x y z ( ) + - . * _ |

  (maximum: ten characters)

① select → RETURN
② set   → Store

Set characters
● You can set characters by using numeric
  buttons (p. 22).

● To move the channel ➡ [G] ➡ Select the new position [OK] ➡ [G]
                                                              Confirm

● To delete the channel ➡ [OK]   ● To delete all channels ➡ [Y]

③ **Store**

RETURN ➡ [OK]

Note

● Channel numbers are defined by the broadcaster and cannot be changed.
● Hidden channels (see below) can be selected but not viewed.

Channel List | Skip unwanted channels / Edit channels

Select a channel and reveal / hide
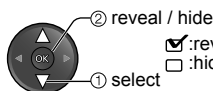
Digital TV Channel List	
☑	70 CBBC Channel
☑	72 Cartoon Nwk
☑	105 BBCi
☐	719 BBC Radio Wales
☐	720 BBC Radio Cymru
☐	1 BBC ONE Wales
☑	7 BBC THREE

② reveal / hide
  ☑ :reveal
  ☐ :hide (skip)
① select

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

● To reveal all channels ➡ [Y]

● To retune each channel (Manual Tuning) (p. 30) ➡ [R]

To edit channels
You can also edit each channel in Channel List.

Channel position

1 BBC ONE WALES	11:35 pm	All Digital Channels
Coronation Street		Select favourites
11:00 pm - 11:55 pm	◄ Now ►	Software update

[OK] or [CH] Select a channel to edit and:

● To swap the channel position (if available) ➡ [G] ➡ Enter the new position number [1 2 3 / 4 5 6 / 7 8 9 / 0] ➡ [G] Store

● To move the channel position (if available) ➡ [G] ➡ Select the new position [OK] ➡ [G] Store

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Digital TV Tuning Menu

Auto Tuning Set all channels automatically

Start Auto Tuning

Digital TV Auto Tuning

All digital TV tuning data will be erased

Start Auto Tuning ●EXIT
●RETURN

OK

Settings are made automatically

Digital TV Auto Tuning			
Scan		CH 6	69

This will take about 3 minutes.

RF Ch	Channel Name	Type	Quality
62	CBBC Channel	Digital TV	10
62	BBC Radio Wales	Digital TV	10
62	E4	Digital TV	10
62	Cartoon Nwk	Digital TV	10

Digital TV: 4

Searching
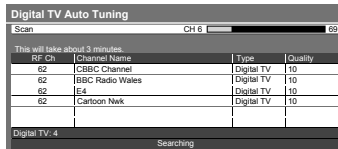
Automatically retune all Digital TV channels received in the area.

● All the previous tuning settings are erased.
● When the operation is completed, the channel at channel position "1" will be displayed.
● Search begins in the order from the lower channels to the higher channels. Channels received during this process are added to the list (p. 29).
● If tuning has not been done completely ➡ "Manual Tuning" (see below)

Manual Tuning Set Digital TV channel manually

Digital TV Manual Tuning

Physical Channel	[CH32]	562.00 MHz
Signal Quality	0	10
Signal Strength	0	10

No.	Channel Name	Type	New

Digital TV: 0

Stopped
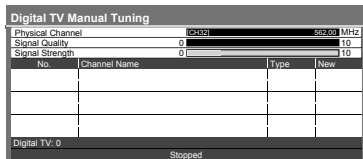
Normally use "Auto Tuning" or "Update Channel List" to update Digital TV channels on your channel list.
If tuning has not been done completely or for adjusting the direction of the aerial, use this function.

①select physical channel
②adjust frequency (set where the level of "Signal Quality" becomes the maximum)
③search

● All channels found will be added to the Digital TV Channel List.

Update Channel List Update channels automatically

Digital TV Update Channel List

Scan		CH6	69

This will take about 3 minutes.

RF Ch	Channel Name	Type	Quality

Digital TV: 0

Searching
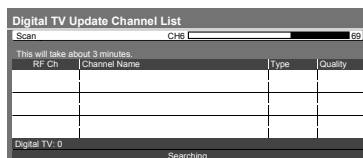
You can add new channels, delete duplicated channels, update channel name and position automatically to Channel List.

● Channel List is updated with keeping your settings in Favourites Edit, Channel List, Child Lock, etc.

New Channel Message Display a notification message

New channels found!
Press OK to update channel list.
Press EXIT to ignore.
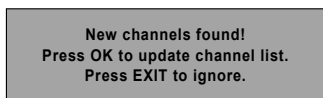
Selects whether to give a message when new Digital TV channel is found. **(Off / On)**

● Selecting OK will perform "Update Channel List".

Signal Condition Check Digital TV signal

● To change the channel ➡ CH ∧∨

Digital TV Signal Condition

Channel Name	101 DZFinfokanal
Signal Quality	
Signal Strength	
	0 2 4 6 8 10
Network Name	RiksTV
RF Parameter	[CH32] 562.00 MHz

Selects a channel and checks the Digital TV signal condition.
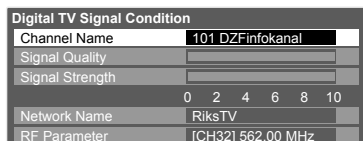
A good Signal Strength is not an indication of suitable signal for Digital TV reception. Please use the Signal Quality indicator as follows:

Signal Quality:
● Green bar ➡ Good
● Yellow bar ➡ Poor
● Red bar ➡ Bad (Check the aerial)

Analogue TV Tuning Menu

Channel List **Skip unwanted channels / Edit channels (Change name, Move)**

Select a channel and reveal / hide
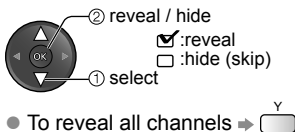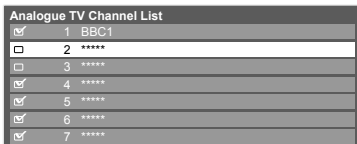
Analogue TV Channel List		
☑	1	BBC1
☐	2	*****
☐	3	*****
☑	4	*****
☑	5	*****
☑	6	*****
☑	7	*****

② reveal / hide
  ☑:reveal
  ☐:hide (skip)
① select

● To reveal all channels ➡ [Y]

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

To edit channels
You can also edit each channel in Channel List.

or [CH] Select a channel to edit and:

Channel position
Channel name

1 BBC	9:35 pm	All Analogue Channels
CH 02	Prompt Street	
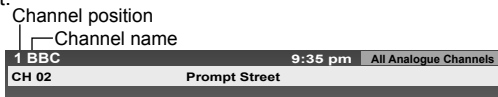
● To move the channel position ➡ [G] ➡ Select the new position ➡ [OK] [G]
  Store

● To rename the channel name ➡ [B]
  ➡

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 ( ) * - . * _	
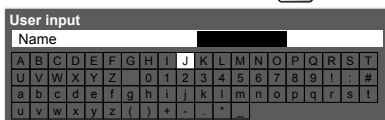
(maximum: five characters)

① select
② set
Set characters
● You can set characters by using numeric buttons (p. 22).

[RETURN]
Store
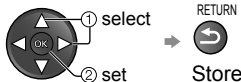
Note
● If a VCR is connected only with the RF cable, edit "VCR".

Auto Tuning **Set all Analogue TV channels automatically**

Start Auto Tuning

Analogue TV Auto Tuning
All analogue TV tuning data will be erased
Start Auto Tuning — ● EXIT ● RETURN

[OK]

Settings are made automatically

Analogue TV Auto Tuning		
Scan	CH0	75
This will take about 3 minutes.		
RF Ch	Channel Name	
Analogue TV: 0		
	Searching	
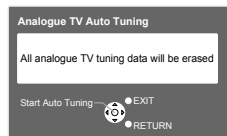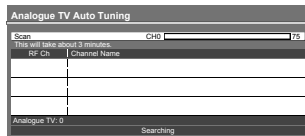
Automatically retune all Analogue TV channels received in the area.

● All the previous tuning settings are erased.
● When the operation is completed, the channel at channel position "1" will be displayed.
● Search begins in the order from the lower channels to the higher channels. Channels received during this process are added to the list (see above).
● If tuning has not been done completely ➡ "Manual Tuning" (see below)

Manual Tuning **Set Analogue TV channel manually**

Analogue TV Manual Tuning	
0	CH1
Manual Tuning 0 ◄	► 75
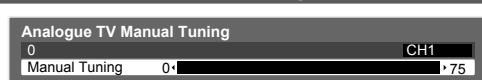
Set Analogue TV channel manually after Auto Tuning.
● If a VCR is connected only with the RF cable, select channel position "0".

Select a channel position
[1] [2] [3]
[4] [5] [6]
[7] [8] [9]
[0]

Select a channel
[CH]

Search and store
① search
② store
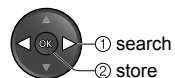
Child Lock

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

1 Display the menu

MENU

2 Select "Setup"

VIEΓA **Main Menu**
- Picture
- Sound
- Setup

② access
① select

3 Select "Child Lock"

Setup Menu
Off Timer	Off
Child Lock	Access
Digital TV Tuning Menu	
Display Settings	
VIERA Link Settings	
System Menu	
Other Settings	

② access
① select

To return to TV

EXIT

4 Set (see below)

Child Lock **Control channel audience**

①**Enter the PIN number (4 digits)**

Child Lock-PIN Entry
Please enter PIN for access
PIN	* * *

1 2 3
4 5 6
7 8 9
0

● "0000" has been stored as the default PIN number.

②**Select "Child Lock List" or "Parental Rating"**

Child Lock
Change PIN	
Child Lock List	Access
Parental Rating	No Block

② access
① select

To set "Child Lock List"

Child Lock List - TV and AV
Name	Input	Type	Lock
1 BBC1	Digital TV	Digital TV	
2 *****	Digital TV	Digital TV	🔒
7 BBC THREE	Digital TV	Digital TV	
14 E4	Digital TV	Digital TV	
101 BBC 1 Wales	Digital TV	Digital TV	
AV1	External	AV	
AV2	External	AV	

② lock
① select

Appears when the channel / input is locked
● To cancel
  ➡ Select the locked channel / input ➡ OK
● To lock all ➡ G
● To cancel all locks ➡ Y
● To jump to the top of the next input ➡ R

To set "Parental Rating"

Child Lock
Change PIN	
Child Lock List	
Parental Rating	No Block

set

● Parental Rating ➡ p. 50

To change the PIN number
Select "Change PIN" in "Child Lock" and enter a new PIN number twice.
● Make a note of the PIN number in case you forget it.
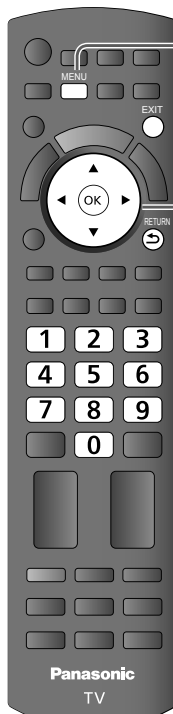
Note
● Performing "Shipping Condition" (p. 34) erases the PIN number and all settings.
● If you have forgotten the PIN number which you have changed by yourself, input "6969" as the PIN number.
● Keep this Operating Instructions out of reach of children.

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. 19

1 Display the menu

MENU

2 Select "Setup"

VIERA Main Menu
📺 Picture
🎵 Sound
⚙ Setup

② access
① select

3 Select "Display Settings"

🔧 Setup Menu	
Off Timer	Off
Child Lock	
Digital TV Tuning Menu	
Display Settings	Access
VIERA Link Settings	
System Menu	
Other Settings	

② access
① select

4 Select "Input Labels"

Display Settings	
Teletext	TOP
Input Labels	Access
Banner Display Timeout	3 seconds
Playing Time Display	On

② access
① select

5 Select an input terminal and set

Input Labels	
AV1	AV1
AV2	AV2
AV3	AV3
PC	PC
HDMI1	HDMI1
HDMI2	HDMI2
HDMI3	HDMI3
Digital TV	Digital TV
Analogue TV	Analogue TV
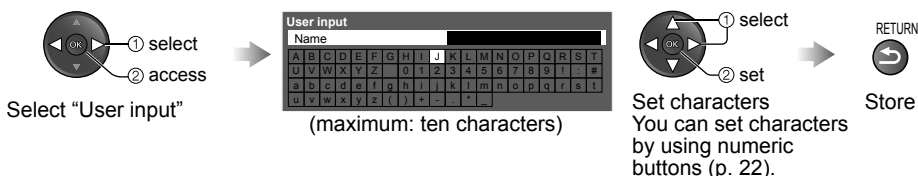
② set
① select

The labels you set will be displayed in "Input Selection" menu (p. 19) or banner.
● If "Skip" is selected, you cannot select the mode.

To return to TV
➡ EXIT

User input
You can name each input terminals freely.

① select
② access

Select "User input"

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)

① select
② set

Set characters
You can set characters by using numeric buttons (p. 22).

RETURN

Store

33
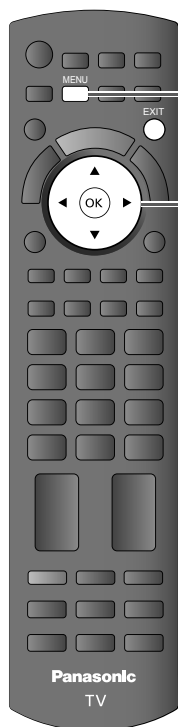
Shipping Condition (Reset settings)

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

1 Display the menu

MENU

2 Select "Setup"

VIErA Main Menu
🖵 Picture
♪ Sound
⚙ Setup

② access
① select

3 Select "System Menu

🖥 Setup Menu	
Off Timer	Off
Child Lock	
Digital TV Tuning Menu	
Display Settings	
VIERA Link Settings	
System Menu	Access
Other Settings	

② access
① select

4 Select "Shipping Condition"

System Menu	
Shipping Condition	Access
System Update	
Software Licence	
System Information	

② access
① select

To return to TV
EXIT

5 Set (see below)

Shipping Condition Reset Settings

① Check the message and reset

Shipping Condition

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

Confirm ● EXIT
● RETURN

(confirm)

(confirm)

(start Shipping Condition)

② Follow the on screen instructions

Reset to Factory Shipping Condition Completed.
Please switch off TV.

● "Auto Tuning" will automatically start when Mains power On / Off switch is next turned On (p. 12).

To retune TV channels only, e.g. after moving house
➡ "Auto Tuning" in "Tuning and Editing Channels" (p. 30, 31)

Updating the TV Software (Digital TV mode)

From time to time, a new version of software may become available for download to enhance the performance or operations of the TV. If there is an update available, a notification banner is displayed when the channel has the update information. This function is available in Digital TV mode.

● To download ➠ OK　　　　　　　　● If you choose not to download ➠ EXIT

You can update any new software automatically or manually.

1 **Display the menu**

MENU

2 **Select "Setup"**

VIERA Main Menu
- Picture
- Sound
- Setup

② access
① select

3 **Select "System Menu"**

Setup Menu
Off Timer	Off
Child Lock	
Digital TV Tuning Menu	
Display Settings	
VIERA Link Settings	
System Menu	Access
Other Settings	

② access
① select

4 **Select "System Update"**

System Menu
Shipping Condition	
System Update	Access
Software Licence	
System Information	

② access
① select

To return to TV

➠ EXIT

5 **Set** (see below)

Advanced

System Update **Update TV's software system**

To update automatically　　　　　　　　**To update immediately**

System Update
| Auto Update Search in Standby | Off |
| System Update Search Now | Start |

② set
① select
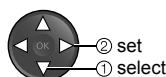
Set "Auto Update Search in Standby" to "On"

② start
① select

Select "System Update Search Now"

● Every time you set, the TV automatically performs a search in standby and downloads an update, if any software updates are available.
● The automatic updating is performed at 3:00 AM and 5:00 AM every morning under the following conditions:
• Standby (TV turned Off with the remote control)
• Direct TV Recording is not in progress.
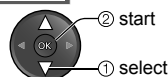
Searches for an update (for several mins.) and displays a corresponding message if any

Download

OK

If System Update is performed, the software will be updated (it may change TV functions). If you do not wish to do so, set "Auto Update Search in Standby" to "Off".

Note
● Download may take about 60 mins.
● During software download and update, DO NOT switch Off the TV or press any buttons. The TV will automatically be activated after downloading is completed.
● The message might be the notification beforehand. In this case, the schedule information (the date that the new version can be used) will appear. You can set the reservation for update. The update will not start when the TV is set to Off.
● A clicking sound will occur at 3:00 AM and 5:00 AM when "Auto update Search in Standby" is set to "On". This sound is normal.
● During downloading, the TV will display a blank screen for 40 to 50 seconds. Do not interrupt the TV during this procedure.

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Using Media Player

Media Player allows you to enjoy photo, video or music recorded on an SD Card and a USB Flash Memory.
VIERA IMAGE VIEWER is the function of the easy viewing for photos or videos recorded on an SD Card on the TV screen by simply inserting into the SD card slot.
Photo mode : Still pictures recorded by digital cameras will be displayed.
Video mode : (For SD Card or USB Flash Memory) Moving pictures recorded by digital video cameras will be played back.
Music mode : Digital music data will be played back.
When these functions are used, the audio signal is output from audio output terminals, but video signals are not output.
● "Date" shows the date on which the recording was made by the recording equipment. The file without record of the date is shown "**/**/****".

Data format for SD Card / USB Flash Memory browsing
● Photo : Still images recorded with digital still cameras compatible with JPEG files of DCF* and EXIF standards
    Data format - Baseline JPEG (Sub-sampling 4:4:4, 4:2:2 or 4:2:0)
    Image resolution - 160 × 120 to 20,000,000 pixels
● Video : SD-Video Standard Ver. 1.2 [MPEG-2 (PS format)] and AVCHD Standard compatible files with
    an audio format that is either MPEG-1/Layer-2 format or Dolby Digital format
    (A modified data with a PC may not be displayed correctly.)
● Music : Data format - MP3 and AAC (Copy-protected files cannot be played back.)
● SD Card format : SDXC Card - exFAT
        SDHC Card / SD Card - FAT16 or FAT32
● Compliant card type (maximum capacity): SDXC Card (64 GB), SDHC Card (32 GB), SD Card (2 GB),
        miniSD Card (2 GB) (requiring miniSD adapter)
● If miniSD Card is used, insert / remove it together with the adapter.
● Check the latest information on the card type at the following website. (English only)
    http://panasonic.jp/support/global/cs/tv/
● USB Flash Memory format : FAT16, FAT32 or exFAT

  *DCF (Design rule for camera file system): Unified standard established by Japan Electronics and Information Technology Industries
   Association (JEITA).
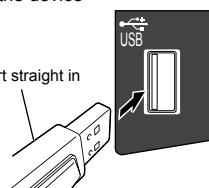
Note
● Format the device with the recording equipment.
● The picture may not appear correctly on this TV depending on the recording equipment used.
● Display may take some time when there are many files and folders.
● This function cannot display Motion JPEG and still image not JPEG formatted (i.e. TIFF, BMP).
● A data modified with a PC may not be displayed.
● Images imported from a PC must be compatible with EXIF (Exchangeable Image File) 2.0, 2.1, and 2.2.
● Partly degraded files might be displayed at a reduced resolution.
● The folder and file names may be different depending on the digital camera or digital video camera used.
● Do not use two-byte characters or other special codes.
● The device may become unusable with this TV if the file or folder names are changed.

To insert or remove the SD Card / USB Flash Memory
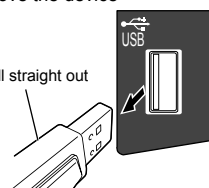
USB Flash Memory
● Insert the device   ● Remove the device
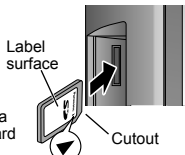
Insert straight in   Pull straight out

● Media player only supports USB Flash Memory devices.

SD Card
● To insert SD Card   ● To remove SD Card
Gently insert the   Label
SD Card label   surface   Push the centre of
surface facing front.   the card

Push until a
click is heard   Cutout

1 **Insert the SD Card or USB Flash Memory**
- When the SD Card is inserted, switching to Media Player (Photo mode) will be done automatically. ➡ p. 38
It is assumed the SD Card contains photos. If not, press the blue button to activate the "Contents Select" screen and select the other mode.
➡ "Change the contents" (p. 39)

2 **Switch to Media Player**

SD CARD

or   VIERA TOOLS

3 **Select the device you want to access to**

Media Player

Drive Select
●EXIT
Select
●RETURN
Access
SD Card

device name

① select
② access

- If only one device is connected, this step will be skipped.

4 **Select the content**
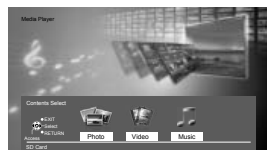
Media Player

Contents Select
●EXIT
Select
●RETURN
Access
SD Card   Photo   Video   Music

① select
② access

- Photo ➡ "Photo mode" (p. 38)
- Video ➡ "Video mode" (p. 40)
- Music ➡ "Music mode" (p. 42)

To return to TV
EXIT   SD CARD
➡   or
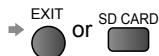
To return to the previous screen
RETURN
➡

Using Media Player

Advanced

Change the device

You can change to the other device directly in the same mode if two devices are connected.

Display the menu
MENU

Select "Drive Select"

VIERA Main Menu
▱ Picture
♫ Sound
Photo Setup
Video Setup
Music Setup
Drive Select

② access
① select

Select the device you want to access to

Media Player

Drive Select
●EXIT
Select
●RETURN
Access
SD Card

① select
② access
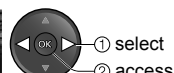
Using Media Player

Photo mode

Photo mode will read all ".jpg" extension files in the card or USB Flash Memory.

Error display (images that could not be loaded, etc.)

(Thumbnail - All photos)

Thumbnail images of all photos on the SD Card or USB Flash Memory will be displayed.
● To change the background music
  ➡ "Photo Setup" (p. 39)
● To display the information of the highlighted photo
  ➡ INFO

file number / total file number

	1/48
File name	p1010001.JPG
Date	23/10/2009
Pixel	1600X1200

To sort by folder, recorded date or recorded month

Select one of the sorted group to display the thumbnail of the selected group

Display the view selection

G

Select the sort type

Folder view
Sort by Date
Sort by Month

② access
① select

Displays the thumbnail grouped by folder
● The files which are not into a folder will be collected to the folder named "/".

Displays the thumbnail grouped by the same date
● The group of the photos without recorded date is shown as "Unknown".

Displays the thumbnail grouped by the same month
● The group of the photos without recorded date is shown as "Unknown".

● To return to the thumbnail of all photos
G
② access
① select "All photos"

① select
② thumbnail of the selected group

● To display the information of the highlighted group

INFO

23/10/2009

	1/12
Folder name	23/10/2009
Number of files	3

group number / total group number

folder name, date or month

Single view - Display one photo at a time.
Select the photo that you want to view

① select
② single view

Single view
Rotate
Slideshow
Operation guide

(Single view)

● To display / hide the operation guide
  ➡ INFO

● To operate Single view
  To the previous photo
  Rotate 90˚ (anti-clockwise)
  To the next photo
  Rotate 90˚ (clockwise)

● To return to thumbnail view ➡ RETURN

Slideshow - Slideshow ends with the same thumbnail from which it started.

Select the photo that you want to start the slideshow from
select

Start Slideshow
R

● To display / hide the operation guide
  ➡ INFO

● To pause (returns to Single view) ➡ OK

● To return to thumbnail view ➡ RETURN

● Picture quality may become lower depending on the slideshow settings.
● Picture setting may not work depending on the slideshow settings.

Photo Setup Setup for Photo mode

Display the menu
MENU

≥access
≤select

● Picture and Sound Menu
➡ p. 24 - p. 26

VIErA Main Menu
- Picture
- Sound
- **Photo Setup**
- Video Setup
- Music Setup
- Drive Select

Photo Setup Menu
Back Ground Music	Type1
Frame	Off
Colour Effect	Off
Transition Effect	Fade
Screen Mode	Normal
Interval	Normal
Repeat	On

②set
①select

Menu	Item	Adjustments / Configurations (alternatives)
Photo Setup	**Background Music**	Selects the background music played during Photo mode **(Off / Type1 / Type2 / Type3 / Auto / User)** Type1 / 2 / 3 : Pre-installed music tracks Auto : Plays music in the SD Card randomly User : Plays music set by you ● For setting ➡ p. 42
	Frame	Selects the display frame for the slideshow **(Off / Multi / Collage)** Multi : Display is divided into 9 sections in a tiled design Collage : Photos are displayed in random positions and random scale
	Colour Effect	Selects the colour effect of photos on Single view and Slideshow **(Off / Sepia / Gray scale)**
	Transition Effect	Selects the transition effect used when switching between photos during the slideshow **(Off / Fade / Slide / Dissolve / Motion / Random)** Fade : The next photo fades in gradually. Slide : The next photo slides and appears from the left side. Dissolve : The photo is replaced by an indefinite block unit. Motion : The photo is replaced with enlarged, reduced, moved up or moved down. Random : Each transition is selected at random. ● This function is only available when "Frame" is set to "Off".
	Screen Mode	Selects whether to display photos in normal or enlarged size during Single view and Slideshow **(Normal / Zoom)** ● Depending on the photo size, the photo may not be enlarged.
	Interval	Selects slideshow interval **(Short / Normal / Long)**
	Repeat	Slideshow repeat **(Off / On)**

Change the contents

You can switch to the other mode of Media Player from the thumbnail.

While the thumbnail is displayed, display the contents selection

B

Select the contents

Media Player   Photo   All photos

Contents Select

Photo   Video   Music
SD Card
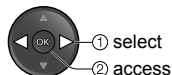
① select
② access

● Photo ➡ "Photo mode" (p. 38)
● Video ➡ "Video mode" (p. 40)
● Music ➡ " Music mode" (p. 42)

Using Media Player

Video mode

For SD Card or USB Flash Memory
Video mode supports AVCHD and MPEG2 file formats.

Access to "**Video**" mode (p. 37)

Error display (titles that could not be loaded, etc.)

Media Player	Video					Title view
Trip1	Trip2	Trip3	Trip4	Trip5	Room	Nature1
Nature2	Nature3	Nature4	Nature5	Nature6	2009_4	2009_7
2009_9						

Access EXIT
Select RETURN   ⓘ Info
■ Play   ■ ■ Contents Select
SD Card

(Thumbnail - Title view)
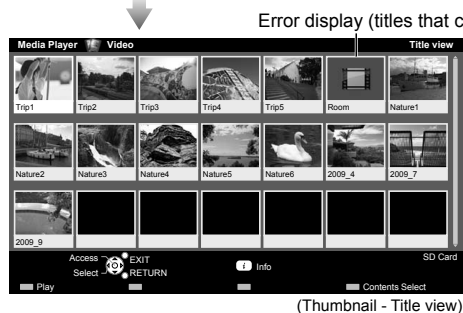
Thumbnails of video titles in the SD Card or USB Flash Memory will be displayed.
When a title is highlighted, preview starts (if the title supports previewing).
● To turn preview off
➡ "Video Setup" (p. 41)
● To display the information of the highlighted title

➡ INFO
ⓘ

Trip1

	AVCHD
	1/15
Title	Trip1
Date & Time	19/02/2009 11:21
Number of scenes	8
Duration	00h15m39s

file format
title number /
total title number
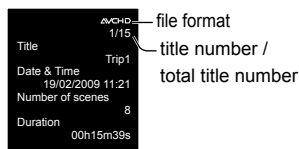
Playback from Title view
Playback of the selected title starts.
Select the title   Start playback

select

R

Playback from the selected scene in the title
Playback starts from the selected scene, and runs to the end of the title.
Select the title   Select the scene to start playback
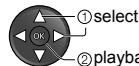
① select
② access

Media Player	Video				Title view > Trip1
Trip1_1	Trip1_2	Trip1_3	Trip1_4	Trip1_5	Trip1_6	Trip1_7
Trip1_8						

Play EXIT
Select RETURN   ⓘ Info
■ ■   ■ ■ Contents Select
SD Card

(Thumbnail - Scene view)

① select
② playback

When a title is highlighted, preview starts
(if the title supports previewing).
● To turn preview off
➡ "Video Setup" (p. 41)

● To repeat playback
➡ "Video Setup" (p. 41)

● To display the information of the highlighted scene
➡ INFO
ⓘ

Trip1

	AVCHD
	1/8
Scene	Trip1_1
Date & Time	19/02/2009 11:21
Duration	00h04m12s

file format
scene number / total scene number

40
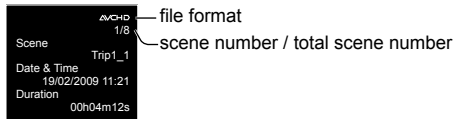
Operations during playback

● To display / hide the operation
  guide and information banner ➡ **INFO**

● To operate the playback

◄◄ Rewind
❚❚/► Pause / Playback
► Playback
►► Fast forward
■ Stop

● To change the aspect ratio
  (only for the 4:3 movie content)
  ➡ **ASPECT**

● To return to thumbnail ➡ **RETURN**

● To the previous scene ➡ **R**

● To the next scene ➡ **G**

Operation guide information banner (Playback)

Sound Settings

You can enjoy multi-channel sound by connecting an amplifier to the DIGITAL AUDIO OUT terminal

To confirm or change the current sound status (during playback)

Display the Option menu
OPTION
Option Menu
Audio Selection   Stereo
(Current sound status)
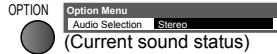
Change the sound (if the movie has multiple audio signals)
change
● It may take several seconds for the changes
  to take effect

Audio output settings

Display
the menu
MENU

Select "Sound"

Main Menu
- Picture
- **Sound**
- Photo Setup
- Video Setup
- Music Setup
- Drive Select

②access
①select

Select "SPDIF Selection" and set

Sound Menu   1/2
Mode   Music
Bass   0
Treble   0
Balance   0
Headphone Volume   11
Surround   Off
Volume Correction   0
Speaker Distance to Wall Over 30cm
SPDIF Selection   Auto

②set
①select

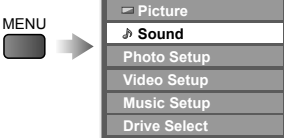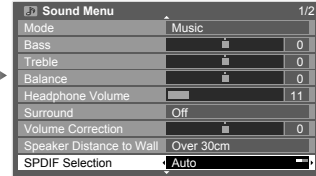| Menu	Item	Adjustments / Configurations (alternatives)
Sound	**SPDIF Selection**	SPDIF : Standard audio transfer file format Selects the initial setting for digital audio output signal from DIGITAL AUDIO OUT terminal **(Auto / PCM)** Auto: Dolby Digital is output as Dolby Digital Bitstream. MPEG is output as PCM. PCM: Digital output signal is fixed to PCM.

Video Setup Setup for Video mode

Display
the menu
MENU

Select
"Video Setup"

Main Menu
- Picture
- Sound
- Photo Setup
- Video Setup
- Music Setup
- Drive Select

Select
"Other Settings"

Video Setup Menu
Display Settings
Other Settings   Access
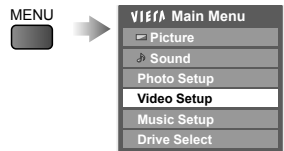
②access
①select
● Display Settings
  ➡ p. 26

Select the items and set

Other Settings
16:9 Overscan   On
Video Preview   On
Repeat   Off
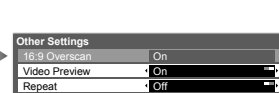
②set
①select
● 16:9 Overscan
  ➡ p. 27

Menu	Item		Adjustments / Configurations (alternatives)
Video Setup	**Other Settings**	**Video Preview**	Sets whether to start previewing the title or scene in a thumbnail screen **(Off / On)** ● Images may not be displayed for a short time in the thumbnail screen. To resolve this problem, set preview to "Off".
		Repeat	● Playback repeat within the title **(Off / On)**

Note
● The structure of titles and scenes may vary depending on the digital video camera used.

Using Media Player

Advanced

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Using Media Player

Music mode

Music mode supports MP3 and AAC file format.

Access to **"Music"** mode (p. 37)

Media Player	Music					Folder View
Folder1	Folder2	Folder3	Folder4	Folder5	Folder6	Folder7
Folder8						

Access — EXIT / Select — RETURN — Info — SD Card

■ Play Folder ■ ■ ■ Contents Select

(Thumbnail - All Folder)

② access
① select

Error display (images that could not be loaded, etc.)

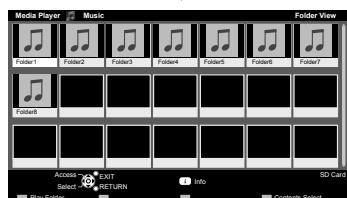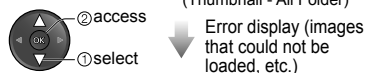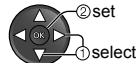| Media Player	Music					Folder View > music
01 Music1	02 Music2	03 Music3	04 Music4	05 Music5	06 Music6	07 Music7
08 Music8	09 Music9	10 Music10	11 Music11	12 Music12	13 Music13	14 Music14
15 Music15	16 Music16	17 Music17	18 Music18	19 Music19	20 Music20	21 Music21

Access — EXIT / Select — RETURN — Info — SD Card

■ ■ ■ Contents Select

(Thumbnail - All music)

② set
① select

Playback starts

● To display the information of the highlighted folder or music ⯈ INFO

● To playback from folder view :

Select the folder → Start playback

select — R

Operation during playback

● To display/ hide the operation guide ⯈ INFO

● To operate the playback :

◄◄ Rewind
❙❙/► Pause / Playback
► Playback
►► Fast forward
■ Stop
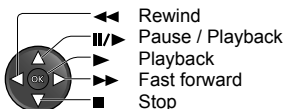
● To the previous music ⯈ R

● To the next music ⯈ G

● The information banner is displayed as shown below.

♪ Music title
⬭ Album title
⬭ Artist name
00:00.07 / 00:04.14
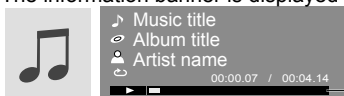
► Elapsed time / Total playing time

Music Setup — Setup for Music mode

Display the menu — MENU

Select "Music Setup"

VIErA Main Menu
- Picture
- Sound
- Photo Setup
- Video Setup
- Music Setup
- Drive Select

● Sound Menu ⯈ p. 25-26

② access
① select

Music Setup Menu
Repeat ◄ Off ►

Select the items and set — set
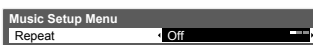
Menu	Item	Adjustments / Configurations (alternatives)
Music Setup	Repeat	Selects the repeated mode **(Off / Folder / One)** Folder: All music in the selected folder are played back repeatedly. One: The selected music is played back repeatedly.

To set the music as the background music during Photo mode

While playing music
Display the menu — B

Select "File" or "Folder"

Register Slideshow BGM?
- File
- Folder

② set
① select

VIERA Link Functions

VIERA Link "**HDAVI** Control™"

Enjoy additional HDMI interoperability with Panasonic products which have "HDAVI Control" function. This TV supports "HDAVI Control 5" function.
Connections to the equipment with HDMI cable such as DIGA Recorder, HD Video Camera, Player theatre, Amplifier, etc., 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 the equipment. About applicable Panasonic equipment, consult your local Panasonic dealer.

Summary of features

Features / Connected equipment with VIERA Link function	DIGA Recorder*1	DVD Player / Blu-ray Disc Player*1	HD Video Camera / LUMIX Camera*1	Player theatre*2	Blu-ray Disc theatre*2	Amplifier*2
Channel download	○*4	–	–	–	–	–
Easy playback	○	○	○	○*7	○*7	–
Power on link	○	○	○	○	○	–
Power off link	○	○	○	○	○	○
Reduce unnecessary power consumption in standby	○*5	○*5	–	–	○*5	–
Auto standby for unnecessary equipment	○*3	○*3	–	○*3*8	○*3*8	○*3
Pause Live TV programme	○*4*6	–	–	–	–	–
Direct TV Recording	○*4	–	–	–	–	–
Control the menu of the connected equipment by VIERA remote control	○*3	○*3	○*3	○*3	○*3	–
Speaker control	–	–	–	○	○	○

*1: HDMI Connection only
*2: HDMI and Audio out connections
*3: available with the equipment which has "HDAVI Control 2 or later" function
*4: available with the equipment which has "HDAVI Control 3 or later" function
*5: available with the equipment which has "HDAVI Control 4 or later" function
*6: available with DIGA Recorder which has HDD
*7: while playingback a disc
*8: except for watching a disc

Connection

● To use DIGA Recorder / DVD Player / Blu-ray Disc Player / HD Video Camera / LUMIX Camera

HDMI cable

DIGA Recorder / DVD Player / Blu-ray Disc Player / HD Video Camera / LUMIX Camera with VIERA Link function

● To use Player theatre / Blu-ray Disc theatre:

Speaker system

HDMI cable

Player theatre / Blu-ray Disc theatre with VIERA Link function

Optical digital audio cable
or
RCA cable
*9

● To use Amplifier:

Speaker system

HDMI cable

Amplifier with VIERA Link function

HDMI cable

Optical digital audio cable
or
RCA cable
*9

HDMI cable

HD Video Camera / LUMIX Camera with VIERA Link function

DIGA Recorder with VIERA Link function
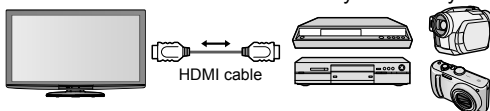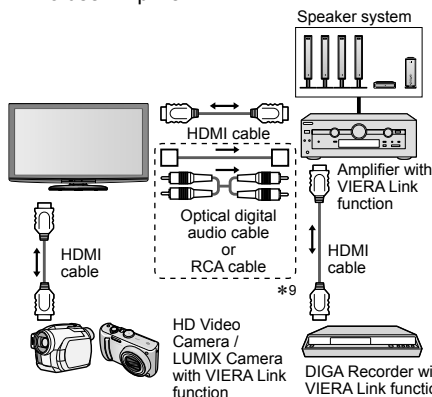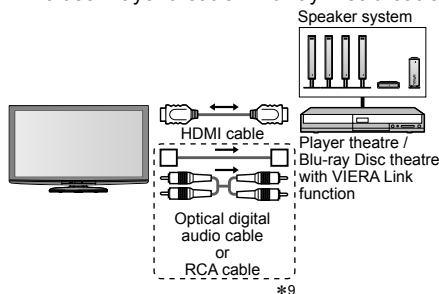
*9: If the connected equipment has "HDAVI Control 5" function, you do not have to use this audio cable (Optical digital audio cable or RCA cable). In this case, connect the equipment to the TV's HDMI2 terminal via an HDMI cable.

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VIERA Link Functions

● This function may not work properly depending on the connected equipment.
● For DIGA Recorder / DVD Player / Blu-ray Disc Player / HD Video Camera / LUMIX Camera with VIERA Link function, connect to HDMI1, HDMI2 or HDMI3 terminal via an HDMI cable.
● For Player theatre / Blu-ray Disc theatre / Amplifier, connect to HDMI1, HDMI2 or HDMI3 or terminal via an HDMI cable and/or either the optical digital audio cable or RCA cable for audio output from the TV.
● Use fully wired HDMI compliant cable. Non-HDMI-compliant cables cannot be utilized.
  Recommended Panasonic's HDMI cable part number:
  • RP-CDHS15 (1.5 m)   • RP-CDHS30 (3.0 m)   • RP-CDHS50 (5.0 m)

Preparations
● Connect the equipment supporting VIERA Link.
● 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.
● Set VIERA Link On in Setup Menu ➡ "VIERA Link" (p. 27)
● Set up the TV ➡ **After connection, turn the equipment on and then switch the TV on. Set the input mode to HDMI1, HDMI2 or HDMI3 (p. 19), 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

Channel download
Channel setting can be downloaded to the recorder.

Easy playback
Automatic input switching - When the connected equipment is operated, input mode is switched automatically.

Power on link
Set Power on Link "On" in Setup Menu to use this function ➡ "Power on Link" (p. 27) When the connected equipment starts playback or direct navigator / function menu for the equipment are activated, the TV is automatically turned on. (Only when the TV is in Standby mode.)

Power off link
Set Power off Link "On" in Setup Menu to use this function ➡ "Power off Link" (p. 27) When the 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.

Standby Power Save   Reduce unnecessary power consumption in standby
Set Standby Power Save "On" in the Setup Menu to use this function ➡ "Standby Power Save" (p. 27) The power consumption in Standby mode of the connected equipment is controlled higher or lower in synchronization with the TV On / Off state to reduce the consumption. When the TV is set to Standby mode, the connected equipment is automatically set to Standby and the power consumption in Standby mode of the connected equipment is automatically minimized. When the TV is turned on, the connected equipment is still in Standby mode, but the power consumption is increased to make startup time early. ● This function is effective if the connected equipment can change the power consumption in Standby mode and is set to higher consumption. ● This function will work when "Power off Link" is set to "On".

Intelligent Auto Standby   Auto standby for unnecessary equipment
Set Intelligent Auto Standby "On (With reminder)" or "On (No reminder)" in the Setup Menu to use this function ➡ "Intelligent Auto Standby" (p. 27) When the TV is On, non-watched or non-used connected equipment goes into Standby mode automatically to reduce the power consumption. For example, when the input mode is switched from HDMI, when Speaker Selection is changed to "TV" (except for watching a disc). ● If you select "On (With reminder)", the on screen message will be displayed to be noticed before working this function. ● This function may not work properly depending on the connected equipment. If required, set to "Off".

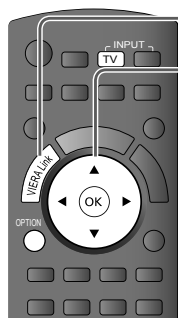**Features available** (Using VIERA Link Menu)

Pause Live TV — Pause Live TV programme

Access and pause the live TV programme
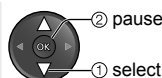You can pause the live TV programme and resume later.
Live TV programme will be recorded on HDD of the connected DIGA Recorder.
● This function is available with DIGA Recorder which has HDD.
● If you connect several recorders including other manufacturers' recorders at the same time, please connect DIGA Recorder which has HDD to the TV's lower HDMI terminal number. For example, if you use HDMI1 and HDMI2 for two recorders, in this case connect DIGA Recorder which has HDD to HDMI1.
● If you cannot operate, check the settings and the equipment
  ➡ "Summary of features", "Connection", "Preparations" (p. 43, 44)

① **Display "VIERA Link Menu"**

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

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

② pause ➡ TV picture will be paused.
① select

● You can also access Pause Live TV by using VIERA TOOLS. ➡ p. 21
● Live TV programme is recorded on HDD from where it was paused.
● If the paused TV picture disappears after a few minutes
  ➡ OPTION (the paused picture will be restored)

To operate Pause Live TV
search backward
pause
search forward
playback
stop
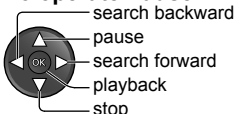
● Operations may be different depending on the recorder. In this case, follow the operation guide or read the manual of the recorder.

To return to Live TV (stop playback of Pause Live TV / cancel pause)

➡ TV ➡

Pause Live TV

Stop Pause Live TV?

Yes	No
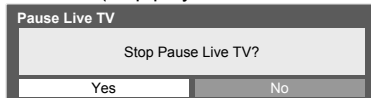
Select "Yes"
① select
② stop
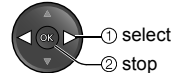
● If you stop playback or cancel pause, the recorded programme will be deleted from HDD.

Direct TV Rec — Direct TV Recording - What you see is What you record

Recording the current programme in DIGA Recorder immediately.
● If you connect a variety of recorders including other manufacturers' recorders at the same time, please connect DIGA Recorder to the TV's lower HDMI terminal number. For example, if you use HDMI1 and HDMI2 for two recorders, in this case connect DIGA Recorder to HDMI1.
● If you cannot operate, check the settings and the equipment
  ➡ "Summary of features", "Connection", "Preparations" (p. 43, 44)
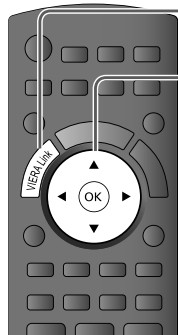
① **Display "VIERA Link Menu"**

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

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

② start
① select
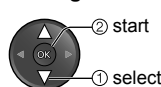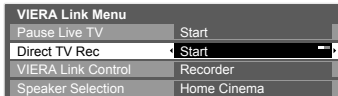
To stop recording
Select "Stop" in "Direct TV Rec" and stop recording

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

① select
② stop

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VIERA Link "**HDAVI** Control™"

Features available (Using VIERA Link Menu)

| VIERA Link Control | Operate the connected equipment with VIERA remote control |

Access and operate the menu of the equipment
You can control some functions of the connected equipment with this TV remote control by pointing at the TV's signal receiver.
- If you cannot operate, check the settings and the equipment
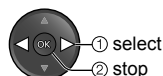 ➡ "Summary of features", "Connection", "Preparations" (p. 43, 44)
- For details of the operations of the connected equipment, read the manual of the equipment.

① **Display "VIERA Link Menu"**

② **Select "VIERA Link Control"**

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

select

③ **Select the equipment you want to access**
The type of the connected equipment is displayed.
Select the type of the equipment and access.

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

① select
② access

Recorder / Player / Home Cinema / Video Camera / LUMIX / Digital Camera / Other

- You can also access VIERA Link control by using VIERA TOOLS. ➡ p. 21
- The displayed item may vary depending on the connected equipment.
- "Home Cinema" means Player theatre, Blu-ray Disc theatre or Recorder theatre.
- "Other" means Tuner set top box.

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

④ **Operate the connected equipment**

1. Set the remote control code to "73" (p. 20)
2. Follow the operation guide

To display the operation guide ➡ OPTION Store / set / access ➡ OK

Move the cursor / select the menu ➡ Return to the previous menu ➡ RETURN

Move the cursor / access / adjust ➡ Exit the menu ➡ EXIT

When the key words are displayed on colour bar ➡ R G Y B

Note
- Some operations may not be available depending on the equipment. If so, use its own remote control.

| **If multiple recorders or players are connected** |

VIERA Link Menu	
Pause Live TV	Start
Direct TV Rec	Start
VIERA Link Control	Recorder2
Speaker Selection	Home Cinema

Recorder1-3 / Player1-3

The number is given from the TV's lower HDMI terminal number connected to the same type equipment. For example, two recorders to HDMI2 and HDMI3, in this case the recorder connected to HDMI2 is displayed as "Recorder1", and the recorder connected to HDMI3 is displayed as "Recorder2".

| **If you access non-VIERA Link equipment** |

When the equipment with "HDAVI Control" function is connected

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

Type of the connected equipment is displayed.

You can access the menu of the equipment. But you cannot operate it.
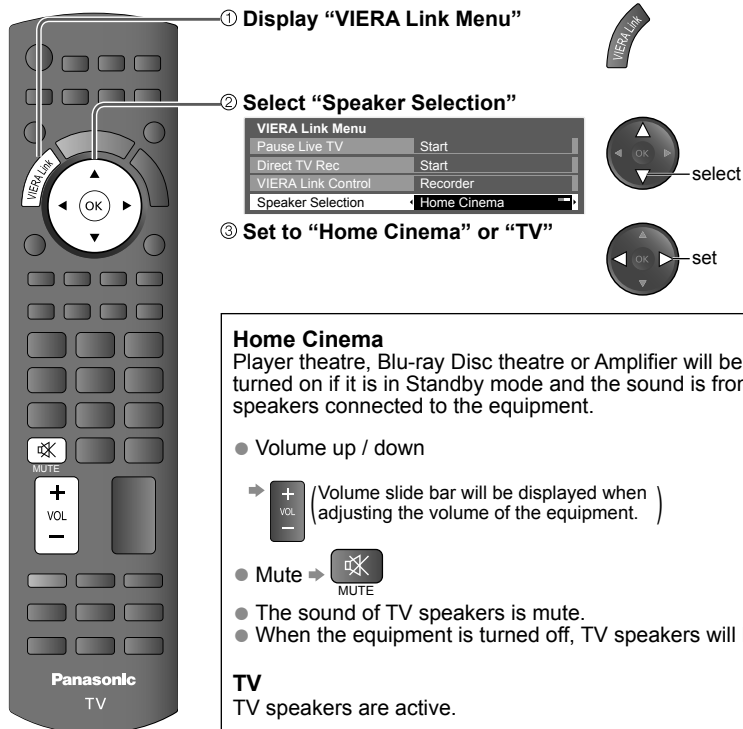Use its own remote control to operate the equipment.

Features available (Using VIERA Link Menu)

Speaker Selection — Speaker control

Access and control the speaker volume
You can control the theatre speaker with this TV remote control by pointing at the TV's signal receiver.
● If you cannot operate, check the settings and the equipment
➡ "Summary of features", "Connection", "Preparations" (p. 43, 44)

① **Display "VIERA Link Menu"**

② **Select "Speaker Selection"**

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

select

③ **Set to "Home Cinema" or "TV"**

set

Home Cinema
Player theatre, Blu-ray Disc theatre or Amplifier 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

➡ (Volume slide bar will be displayed when adjusting the volume of the equipment.)

● Mute ➡

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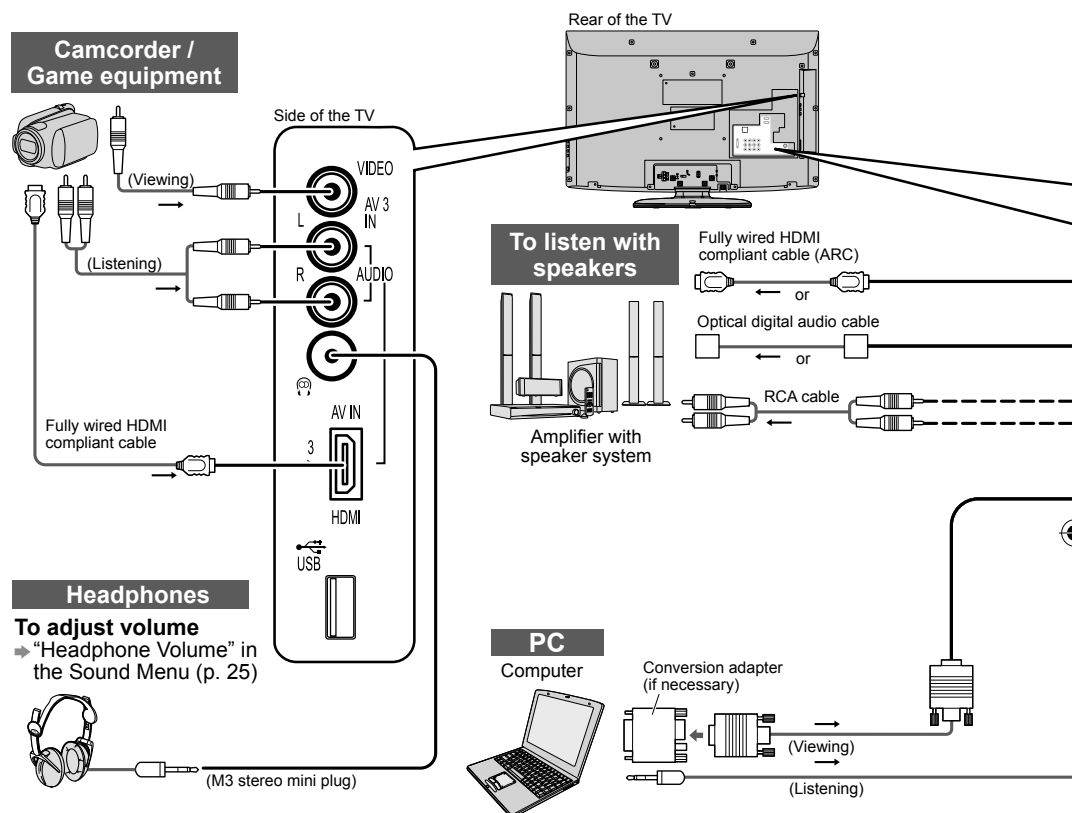
TV
TV speakers are active.

Note

● If you wish to enjoy the multi-channel sound (e.g. Dolby Digital 5.1ch) via an Amplifier, connect with HDMI cable and Optical digital audio cable (p. 43), and then select "Home Cinema". If your Amplifier has "HDAVI Control 5" function, you can connect only with HDMI cable. In this case, connect your Amplifier to the TV's HDMI2 terminal.
To enjoy the sound from the DIGA Recorder in multi-channel sound, connect an HDMI cable from the DIGA Recorder to the Amplifier (p. 43).

Note

● These functions may not work properly depending on the connected equipment.
● Image or sound may not be available for the first few seconds when input mode is switched.
● Easy playback may be available by using the remote control for Player theatre, Blu-ray Disc theatre or Amplifier. Read the manual of the equipment.
● "HDAVI Control 5" is the newest standard (current as of December, 2009) for HDAVI Control compatible equipment. This standard is compatible with conventional HDAVI equipment.
● To confirm this TV's version of HDAVI Control ➡ "System Information" (p. 27)

VIERA Link "HDAVI Control™"

Advanced

External Equipment

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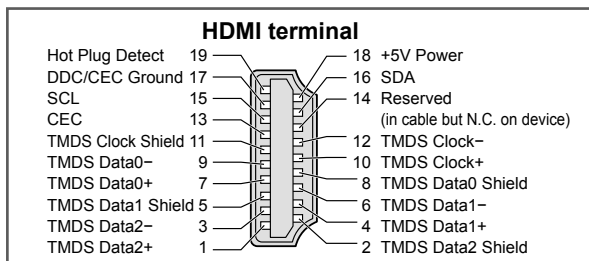
Rear of the TV

Camcorder / Game equipment

Side of the TV

(Viewing)

(Listening)

Fully wired HDMI compliant cable

To listen with speakers

Fully wired HDMI compliant cable (ARC)

or

Optical digital audio cable

or

RCA cable

Amplifier with speaker system

Headphones

To adjust volume
➡ "Headphone Volume" in the Sound Menu (p. 25)

(M3 stereo mini plug)

PC

Computer

Conversion adapter (if necessary)

(Viewing)

(Listening)

Types of connectable equipment to each terminal

Terminal Recording / Playback (equipment)	AV1 IN AV2 IN AV3 IN (Side of the TV)	MONITOR OUT	DIGITAL AUDIO OUT			
				1	2	3
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		○	○		○*1	
VIERA Link				○	○	○

○: Recommended Connection
*1: applicable if your amplifier has ARC (Audio Return Channel) function

Aerial

To record / playback

RF cable

or

DVD Recorder / VCR

(Viewing)

(Listening)

To watch DVDs

DVD player

HDMI 1

HDMI

AV IN

HDMI 2
(ARC)

To watch satellite broadcasts

Satellite dish

Satellite cable

Set top box

Fully wired HDMI compliant cable

DIGITAL
AUDIO
OUT

HDMI equipment

➡ "HDMI connection" (p. 51)

ANT

DVD Recorder

Fully wired HDMI compliant cable

VIDEO VIDEO Y VIDEO

Pb/Cb

Pr/Cr

R AUDIO R AUDIO COMPONENT R AUDIO

PC

PC AUDIO
via AV2

MONITOR OUT AV1 IN AV2 IN

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		

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Technical Information

Channel Allocation (Analogue TV mode)

CH Display / Receive Channel			
CH 0 - CH 5	**S 2 - S 10**	**CH 5A**	**CH 6 - CH 9**
CH 9A	**CH 10 - CH 12**	**S 11 - S 44**	**CH 20 - CH 75**

Rating (Digital TV mode)

Rating	Meaning	Rating	Meaning
No Block	Not classified	M	Mature
P	Pre school	MA 15+	Mature Adult 15+
C	Children	AV 15+	Adult strong Violence 15+
G	General	R	Restricted 18+
PG	Parental Guidance recommended		

## Stereo / Bilingual Sound Selection (Analogue TV mode)

∞/▽
I/II When you receive the stereo / bilingual sound system, sound output modes can be selected by pressing the **Stereo / Bilingual Sound Selection** button.

Audio Signal	STEREO	MAIN Ⅰ	SUB Ⅱ	MONO
Mode Indicator	∞	Ⅰ	Ⅱ	▽

NICAM ....Used in New Zealand, Singapore, Hong Kong etc.

Type of broadcast	Regular broadcast (Standard Audio)	Regular + NICAM MONO Ⅰ (MAIN Ⅰ)	NICAM STEREO	NICAM DUAL MONO (MAIN Ⅰ / SUB Ⅱ)
Mode Indicator	No Indicator ←→ ▽	Ⅰ ←→ ▽	∞ ←→ ▽	Ⅰ ←→ Ⅱ

A2 (German) ....Used in Australia, Malaysia etc.

Type of broadcast	Regular broadcast (Standard Audio)	BILINGUAL or DUAL MONO: MAIN Ⅰ / SUB Ⅱ	STEREO
Mode Indicator	No Indicator ←→ ▽	Ⅰ ←→ Ⅱ	∞ ←→ ▽

- If the stereo signal is poor or the receiving conditions are not optimum or if STEREO:MONO automatic switching occurs, it is recommended you switch from STEREO to MONO.
- Even when the contents of the receiving signal undergo changes, selection mode is kept intact.
- When the receiving conditions deteriorate, listening will be easier if the mode is set to the MONO position, using the stereo / bilingual sound selection button.
- DUAL, also known as DUAL MONO or as BILINGUAL is not currently transmitted in some countries.

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HDMI connection

HDMI (high-definition multimedia interface) is the world's first complete digital consumer AV interface complying with a non-compression standard.
HDMI 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. 48, 49).

Applicable HDMI features
● Input audio signal : 2ch Linear PCM (sampling frequencies - 48 kHz, 44.1 kHz, 32 kHz)
● Input video signal : 480i, 480p, 576i, 576p, 720p, 1080i and 1080p
　　　　　　　　　　　 ⇒ "Input signal that can be displayed" (p. 52)
　　　　　　　　　　　　　Match the output setting of the digital equipment.
● Input PC signal 　　 : ⇒ "Input signal that can be displayed" (p. 52)
　　　　　　　　　　　　　Match the output setting of the PC.
● VIERA Link (HDAVI Control 5) : ⇒ "VIERA Link" (p. 43)
● Audio Return Channel (∗2) (HDMI2 terminal only)

DVI connection
If the external equipment has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adapter cable (∗3).
When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal (HDMI1 / 2: use AV2 audio terminals / HDMI3: use AV3 audio terminals).
If the picture position is not fit to the screen during the DVI connection, adjust the position on "DVI Position Settings" in Setup Menu (p. 26). The settings are memorized for each HDMI terminals and input signals.

Note

● Audio settings can be made on the "HDMI1 / 2 / 3 Input" in the Sound Menu. (p. 26)
● 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" or "VIDEO" to receive analogue signals.
● This TV incorporates HDMI™ technology.

(∗1): The HDMI logo is displayed on HDMI-compliant equipment.
(∗2): Audio Return Channel (ARC) is a function to be able to send digital sound signals via an HDMI cable.
(∗3): Enquire at your local digital equipment retailer shop.

PC connection

A PC may be connected to this TV so that the PC screen is displayed and sound is heard from the TV.
● PC signals that can be inputted: Horizontal scanning frequency 31 to 69 kHz; vertical scanning frequency 59 to 86 Hz. More than 1,024 signal lines could result in incorrect display of the image.
● A PC adapter is not necessary for the DOS/V-compliant D-sub 15-pin connector.

Note

● Some PC models cannot be connected to this TV.
● When using PC, set the colour display quality of PC to the highest position.
● For details of the applicable PC signals, see p. 52.
● Max. display resolution

Aspect	4:3	1,024 × 768 pixels
	16:9	1,366 × 768 pixels

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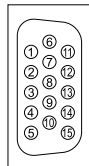
Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
①	R	⑥	GND (Ground)	⑪	NC (not connected)
②	G	⑦	GND (Ground)	⑫	NC (not connected)
③	B	⑧	GND (Ground)	⑬	HD
④	NC (not connected)	⑨	NC (not connected)	⑭	VD
⑤	GND (Ground)	⑩	GND (Ground)	⑮	NC (not connected)

Technical Information

Technical

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Technical Information

COMPONENT (Y, P$_B$/C$_B$, P$_R$/C$_R$)**, 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		∗

PC (from D-sub 15P) Applicable input signal for PC is basically compatible to VESA standard timing.

Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)
640 × 400 @70 Hz	31.47	70.07
640 × 480 @60 Hz	31.47	59.94
640 × 480 @75 Hz	37.50	75.00
800 × 600 @60 Hz	37.88	60.32
800 × 600 @75 Hz	46.88	75.00
800 × 600 @85 Hz	53.67	85.06
852 × 480 @60 Hz	31.44	59.89
1,024 × 768 @60 Hz	48.36	60.00
1,024 × 768 @70 Hz	56.48	70.07
1,024 × 768 @75 Hz	60.02	75.03
1,024 × 768 @85 Hz	68.68	85.00
1,280 × 1,024 @60 Hz	63.98	60.02
1,280 × 768 @60 Hz	47.70	60.00
1,366 × 768 @60 Hz	48.39	60.04
Macintosh13" (640 × 480)	35.00	66.67
Macintosh16" (832 × 624)	49.73	74.55
Macintosh21" (1,152 × 870)	68.68	75.06

PC (from HDMI terminal) Applicable input signal for PC is basically compatible to HDMI standard timing.

Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)
640 × 480 @60 Hz	31.47	60.00
750 (720) / 60p	45.00	60.00
1,125 (1,080) / 60p	67.50	60.00

Note

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

SD Card

Use an SD Card which meets SD standards. If not, it may cause the TV to malfunction.

2.1 mm

32 mm

24 mm
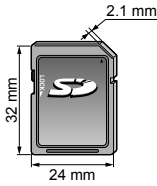
Cautions in handling SD Card
● Do not remove the card while the TV is accessing data (this can damage card or TV).
● Do not touch the pins on the back of the card.
● Do not subject the card to a high pressure or impact.
● Insert the card in the correct direction (otherwise, card may be damaged).
● Electrical interference, static electricity, or erroneous operation may damage the data or card.
● Back up the recorded data at regular intervals in case of deteriorated or damaged data or erratic operation of the TV. (Panasonic is not liable for any deterioration or damage of recorded data.)

On screen messages

Message	Meaning / Action
Cannot read file	● The file is broken or unreadable. ● The TV does not support the format. (For the applicable formats and data, see above.)
Please confirm the SD card is OK	● The inserted SD Card has a problem.
No Device inserted	● Confirm SD Card is inserted correctly.
No valid file to play	● The card has no data.
This operation is not possible	● Your operation is not available.

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Maintenance

First, remove the mains plug from the socket outlet.

Display panel, Cabinet, Pedestal

For regular care:
Gently wipe the surface of the display panel, cabinet, or pedestal by using a soft cloth to clean the dirt or fingerprints.
For stubborn dirt:
Dampen a soft cloth with clean water or diluted neutral detergent (1 part detergent to 100 parts water). Then wring the cloth and wipe the surface. Finally, wipe away all the moisture.

Caution

● Do not use a hard cloth or rub the surface too hard. This may cause scratches on the surface.
● Take care not to subject the TV's surfaces to water or detergent. A liquid inside the TV could lead to product failure.
● Take care not to subject the surfaces to insect repellent, solvent, thinner, or other volatile substances. This may degrade surface quality or cause peeling of the paint.
● The surface of the display panel is specially treated and may be easily damaged. Take care not to tap or scratch the surface with your fingernail or other hard objects.
● Do not allow the cabinet and pedestal to make contact with a rubber or PVC substance for a long time. This may degrade surface quality.
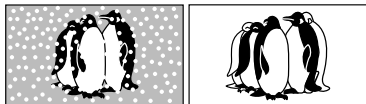
Mains plug

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

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

An error message appears

- Follow the message's instructions.
- If the problem persists, contact your local Panasonic dealer.

The LCD panel moves slightly when it is pushed with a finger Clattered sound might be heard
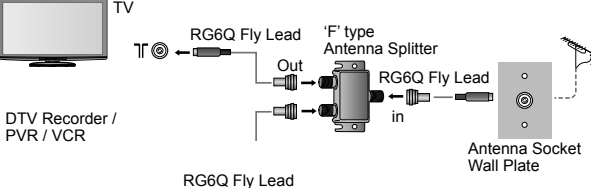
- There are some looseness around the panel to prevent the damage to the panel.
  The panel might move slightly when it is pushed with a finger, and clattered sound might be heard. This is not a malfunction.
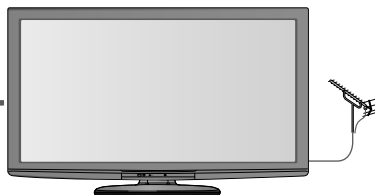
There may be red spots, blue spots, green spots and black spots on the screen

- An image on a LCD or Plasma TV screen is created by many small groups of dots known as pixels (which is similar to the image in a newspaper). It also naturally follows that higher panel resolutions contain more pixels. To create a colour image, each pixel consists of three tiny coloured dots (known as sub-pixels), one each of red, green and blue. Each one of these dots is precisely controlled by the electronics of the TV to produce the picture. Whilst Panasonic maintains the highest standards in manufacturing technology and processes in the construction of these panels, there are a number of allowable pixel/sub-pixel failures that still allow the panel to be defined as a good panel. It is not possible to guarantee absolutely no pixel loss.

FAQs

Problem	Actions

Note: Digital TV reception is only as good as the antenna and the antenna cabling delivering the DTV signals to the television. Reliable digital TV reception requires high quality, robust DTV signals which can only be achieved when using a TV antenna and cabling designed for digital TV reception.
● Further reading please visit: http://www.digitalready.gov.au/publications.aspx where you can download 'The Digital TV Antenna Systems for Homes Handbook' information pdf file.
● For your safety, the antenna and cabling should be inspected / installed by a licenced installer that should comply with Australian Standard AS1417.1 for Domestic installations or AS1367 for MATV installations.

Digital TV

Connecting devices such as DTV recorder / PVR / VCR etc that also require an antenna connection to the digital television

● To maintain optimum antenna signal quality, use an 'F' type TV signal splitter (as illustrated) when connecting two or more devices to the same antenna socket.

TV
RG6Q Fly Lead
'F' type Antenna Splitter
Out
RG6Q Fly Lead
in
DTV Recorder / PVR / VCR
Antenna Socket Wall Plate
RG6Q Fly Lead

● Hint: Some degradation of the DTV signal may occur if you are connecting the aerial through an external device (e.g. DVD Recorder or Set Top Box). In this case it is better to use a splitter and connect the aerial directly to both devices.

After digital TV tuning, (or re-tuning) some or all DTV channels are missing

● Check to ensure your area is covered by DTV transmissions.
● Check that the aerial and antenna cable are designed for DTV reception. If you live within 5-10 Km of DTV transmission towers, a combined VHF / UHF Digital TV aerial should be adequate. Outside this area, separate VHF and UHF aerials provide superior reception performance.
● If you live in a unit or apartment, check to ensure the Master Antenna TV (MATV) system is designed for analogue and DTV reception. Please consult your body corporate.

Picture regularly pixelates on some channels, or 'No Signal' message

● Check "Signal Condition" via TV Setup menu. If "Signal Quality" or "Signal Strength" are red/orange or constantly changing, check aerial/cable/ connections. If problem persists consult your local TV antenna installer.
● Too much signal; is "Signal Strength" always at full strength? If yes, try attenuating (reducing) the signal strength
● Check that the aerial and antenna cable are designed for DTV reception.
● The received signal may be too weak to allow the TV to reliably lock to the selected channel to generate a viewable picture. If problem persists consult your local TV aerial installer.
● Interference from household appliances (known as impulse noise) such as light switches, fridges etc may cause picture break up and / or audio distortion. Use high quality quad shielded coaxial cable (RG6Q) fly lead between TV and antenna wall socket to minimise impulse noise pickup. If problem persists consult your local TV aerial installer.
● Antenna installation may be using an aerial amplifier that is faulty or an older style aerial amplifier that was not designed for digital TV.
● Older style antenna cabling, loose fitting/corroded wall socket connections/terminals etc.

Picture infrequently pixelates on some or all channels

● Electrical interference caused by local or distant lighting storms, heavy rain, high wind etc may cause picture to break up and or audio to mute/ distort momentarily.
● Impulse noise interference from an infrequently used electrical appliance, or a passing vehicle or lawn mower with a "noisy" ignition system.
● Older style antenna cabling, loose fitting/corroded wall socket connections/terminals etc.

Problem		Actions
Screen	**Chaotic image, noisy**	● Change the setting of "P-NR" in the Picture Menu (to remove noise). (p. 24) ● 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. 24)
	Blurry or distorted image (no sound or low volume)	● Reset channels (p. 30, 31).
	Unusual image is displayed	● Turn off the TV with Mains power On / Off switch, then turn it on again.
	"Shop" appears on screen at switch on	● "Shop" was selected in "Auto Tuning" (p. 12) Reset settings in "Shipping Condition" (p. 34), then select "Home" in "Auto Tuning" (p. 12)
Sound	**No sound is produced**	● Is "Sound Mute" active? (p. 10) ● Is the volume set to the minimum?
	Sound level is low or sound is distorted	● Sound signal reception may be deteriorated. ● Set "MPX" in the Sound Menu to "Mono" (p. 25).
HDMI	**Sound is unusual**	● Set the sound setting of the connected equipment to "2ch L.PCM". ● Check the "HDMI1 / 2 / 3 Input" setting in the Sound Menu. (p. 26) ● If digital sound connection has a problem, select analogue sound connection. (p. 51)
	Pictures from external equipment are unusual when the equipment is connected via HDMI	● Is the HDMI cable connected properly? (p. 43, 48, 49) ● Turn Off the TV and equipment, then turn them On again. ● Check an input signal from the equipment. (p. 52) ● Use an equipment compliant with EIA/CEA-861/861B.
Other	**TV goes into Standby mode**	● Auto power function is activated. ● The TV enters Standby mode about 30 mins. after analogue broadcasting ends.
	The remote control does not work or is intermittent	● Are the batteries installed correctly? (p. 3) ● Has the TV been switched On? ● Point the remote control directly at the front of the TV (within about 7 m and a 30 degree angle of the front of the TV). ● Situate the TV away from sunshine or other sources of bright light not to shine on the TV's remote control signal receiver.

FAQs

Technical

Licence

Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.

- VGA is a trademark of International Business Machines Corporation.
- S-VGA is a registered trademark of the Video Electronics Standard Association.
- SDXC Logo is a trademark of SD-3C, LLC.
- HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.
- HDAVI Control™ is a trademark of Panasonic Corporation.
- "AVCHD" and the "AVCHD" logo are trademarks of Panasonic Corporation and Sony Corporation.
- Manufactured under license from Dolby Laboratories.
  Dolby and the double-D symbol are trademarks of Dolby Laboratories.
- Macintosh is a trademark of Apple Inc.

Specifications

		TH-L42U20A
Power	**Power rating**	AC 220 - 240 V, 50 / 60 Hz 0.98 A
	Normal (Home) mode	110 W
	Standby condition	0.4 W
Display panel	**Aspect Ratio**	16:9
	Visible screen size	106 cm (diagonal) 930 mm (W) × 523 mm (H)
	Number of pixels	2,073,600 (1,920 (W) × 1,080 (H))
Sound	**Speaker**	160 mm × 40 mm × 2 pcs, 8 Ω
	Audio Output	20 W (10 W + 10 W), 10% THD
	Headphones	M3 (3.5 mm) stereo mini Jack × 1
PC signals		VGA, SVGA, WVGA, XGA SXGA, WXGA ⋯⋯ (compressed) Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz
Receiving Systems / Band name		PAL B/G Reception of Off air broadcasts
		DVB-T 7 MHz VHF / UHF (Australia) free-to-air TV broadcast reception
		PAL 60 Hz M.NTSC NTSC Playback of NTSC tape from some PAL Video recorders (VCR) Playback from M. NTSC Video recorders (VCR) Playback from NTSC Video recorders (VCR)
Aerial - Rear		Standard Belling & Lee connector
Operating Conditions		**Temperature** : 0 °C - 35 °C **Humidity** : 20 % - 80 % RH (non-condensing)
Connection Terminals	**AV1 Input** — AUDIO L - R	RCA PIN Type × 2 0.5 V[rms]
	AV1 Input — VIDEO	RCA PIN Type × 1 1.0 V[p-p] (75 Ω)
	AV1 Input — COMPONENT	Y 1.0 V[p-p] (including synchronization) P_B/C_B, P_R/C_R ±0.35 V[p-p]
	AV2 Input — AUDIO L - R	RCA PIN Type × 2 0.5 V[rms]
	AV2 Input — VIDEO	RCA PIN Type × 1 1.0 V[p-p] (75 Ω)
	AV3 Input — AUDIO L - R	RCA PIN Type × 2 0.5 V[rms]
	AV3 Input — VIDEO	RCA PIN Type × 1 1.0 V[p-p] (75 Ω)
	Monitor Output — AUDIO L - R	RCA PIN Type × 2 0.5 V[rms] (high impedance)
	Monitor Output — VIDEO	RCA PIN Type × 1 1.0 V[p-p] (75 Ω)
	Others — HDMI1 - 3 Input	TYPE A Connectors ● This TV supports "HDAVI control 5" function.
	Others — PC Input	HIGH-DENSITY D-SUB 15PIN R / G / B: 0.7 V[p-p] (75 Ω) HD / VD: TTL Level 2.0 - 5.0 V[p-p] (high impedance)
	Others — DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber optic
	Others — Card slot	SD Card slot × 1
	Others — USB	USB 2.0 Type A connector × 1
Dimensions (W × H × D)		1,021 mm × 680 mm × 310 mm (With Pedestal) 1,021 mm × 637 mm × 115 mm (TV only)
Mass		21.0 k_g Net (With Pedestal) 18.0 k_g Net (TV only)

Note

● Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.

Panasonic Warranty

1. The product is warranted for 12 months from the date of purchase. Subject to the conditions of this warranty Panasonic or its Authorised Service Centre will perform necessary service on the product without charge for parts or labour if, in the opinion of Panasonic, the product is found to be faulty within the warranty period.
2. This warranty only applies to Panasonic products purchased in Australia and sold by Panasonic Australia or its Authorised Distributors or Dealers and only where the products are used and serviced within Australia or it's territories. Warranty cover only applies to service carried out by a Panasonic Authorised Service Centre and only if valid proof of purchase is presented when warranty service is requested.
3. This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendations (as noted in the operating instructions) under normal use and reasonable care (in the opinion of Panasonic). The warranty covers normal domestic use only and does not cover damage, malfunction or failure resulting from use of incorrect voltages, incorrect installation, accident, misuse, neglect, build-up of dirt or dust, abuse, maladjustment of customer controls, mains supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, exposure to abnormally corrosive conditions or any foreign object or matter having entered the product.
4. This warranty does not cover the following items unless the fault or defect existed at the time of purchase:
   - (a) Cabinet Part(s)
   - (b) Video or Audio Tapes
   - (c) SD cards or USB devices
   - (d) User replaceable Batteries
   - (e) DVD Video, Blu-ray, or Recordable Discs
   - (f) Video / Audio Heads from wear and tear in normal use
   - (g) Information stored on Hard Disk Drive, USB stick or SD card
   - (h) DTV reception issues caused by TV Aerial / Cabling / Wall socket(s) etc
5. Some products may be supplied with Ethernet connection hardware. The warranty is limited on such products and will not cover
   - (a) Internet and or DLNA connection / setup related problems
   - (b) Access fees and or charges incurred for internet connection
   - (c) The use of incompatible software or software not specifically stipulated in the product operations manual; and
   - (d) Any indirect or consequential costs associated with the incorrect use or misuse of the hardware, its connection to the internet or any other device.
6. If warranty service is required you should:
   - Telephone Panasonic's Customer Care Centre on 132600 or visit our website and use the Service Centre Locator for the name/address of the nearest Authorised Service Centre.
   - Send or bring the product to a Panasonic Authorised Service Centre together with your proof of purchase receipt as a proof of purchase date. Please note that freight and insurance to and / or from your nearest Authorised Service Centre must be arranged by you.
7. The warranties hereby conferred do not extend to, and exclude, any costs associated with the installation, de-installation or re-installation of a product, including costs related to the mounting, de-mounting or remounting of any screen, (and any other ancillary activities), delivery, handling, freighting, transportation or insurance of the product or any part thereof or replacement of and do not extend to, and exclude, any damage or loss occurring by reason of, during, associated with, or related to such installation, de-installation, re-installation or transit.

Panasonic Authorised Service Centres are located in major metropolitan areas and most regional centres of Australia, however, coverage will vary dependant on product. For advice on exact Authorised Service Centre locations for your product, please telephone our Customer Care Centre on 132600 or visit our website and use the Service Centre Locator.

Unless otherwise specified to the consumer the benefits conferred by this express warranty are additional to all other conditions, warranties, guarantees, rights and remedies expressed or implied by the Trade Practices Act 1974 and similar consumer protection provisions contained in legislation of the States and Territories and all other obligations and liabilities on the part of the manufacturer or supplier and nothing contained herein shall restrict or modify such rights, remedies, obligations or liabilities.   *Feb 2010*

THIS WARRANTY CARD AND THE PURCHASE DOCKET (OR SIMILAR PROOF OF PURCHASE) SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES

If you require assistance regarding warranty conditions or any other enquiries, please contact our Customer Care Centre via the Panasonic website www.panasonic.com.au or by phone on 132 600. If phoning in, please ensure you have your operating instructions available.

Panasonic Australia Pty. Limited
ACN 001 592 187   ABN 83 001 592 187
Locked Bag 505, Frenchs Forest, NSW 2086

PRO-031-F11 Issue: 2.0   18-02-2010

RQA0245

Customer's Record
The model number and serial number of this product may be found on its rear panel. You should note the model number and the 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 _____