Panasonic®

Operating Instructions
Plasma Television

Model No. **TH-42PX8A**

VIErA

DVB®

DOLBY
DIGITAL

VIErA
Link

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

Please read these instructions before operating your set and retain them for future reference.
The images shown in this manual are for illustrative purposes only.
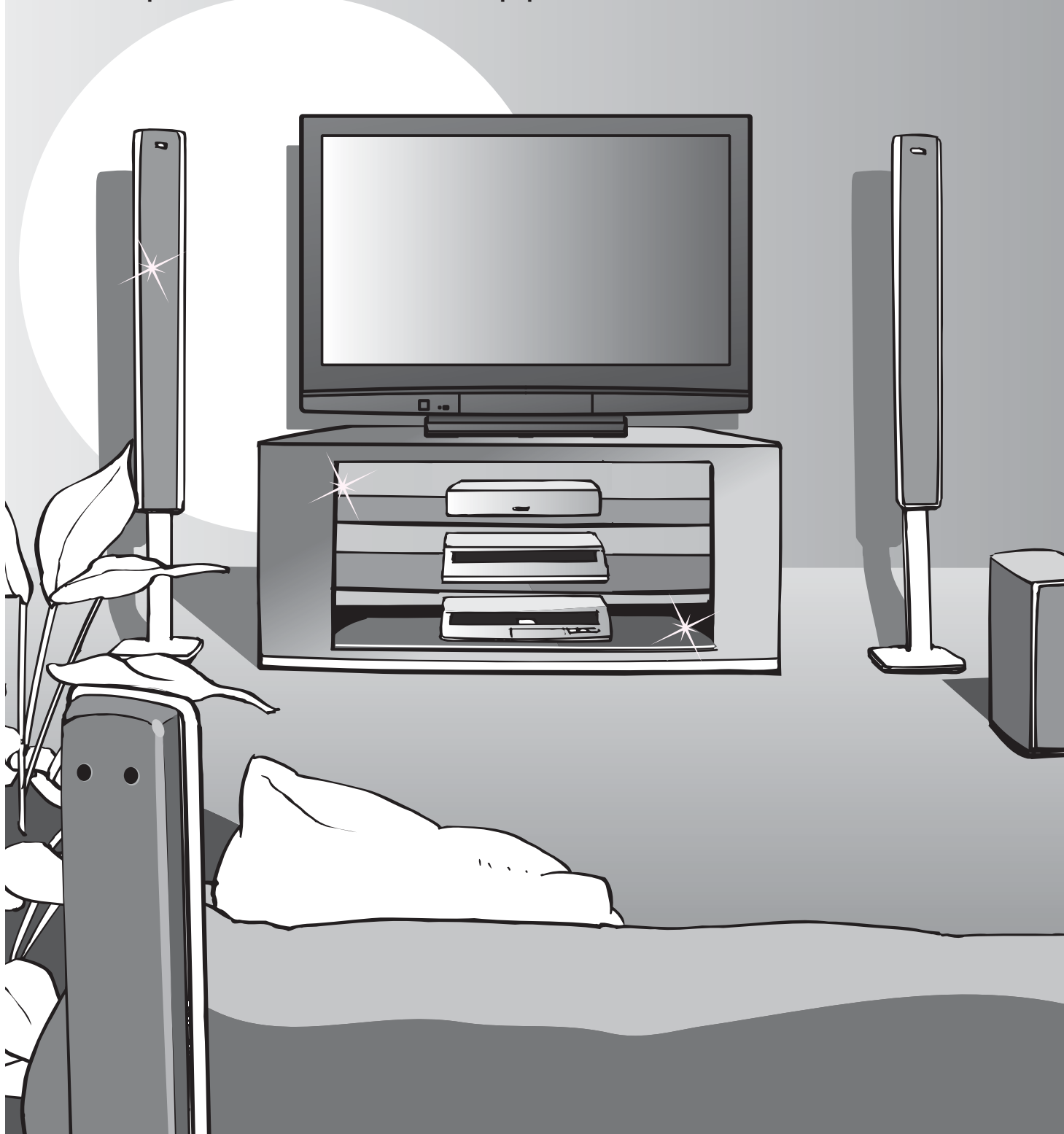
English
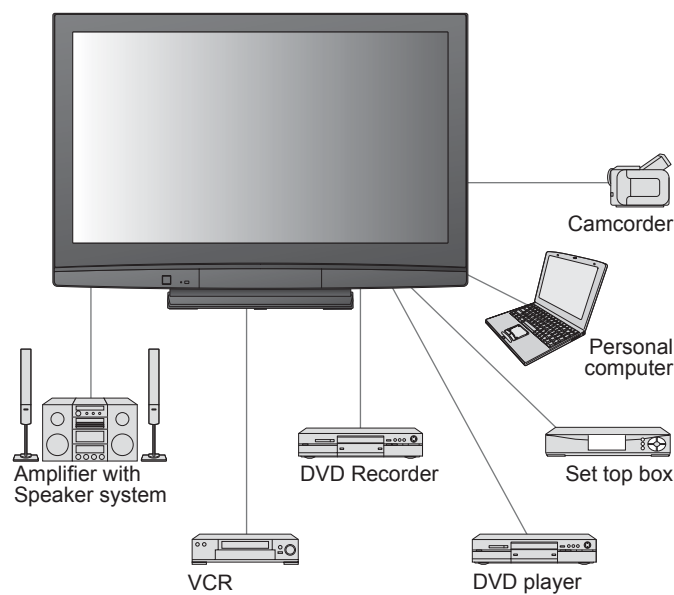
Turn your own living room into a movie theatre!

Experience an amazing level of multi-

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

■Sharp pictures with HDMI connection

■Links up and controls the connected equipment with "VIERA Link"

media excitement

Enjoy rich multi-media

Camcorder

Personal computer

Amplifier with Speaker system

DVD Recorder

Set top box

VCR

DVD player

Contents

Safety Precautions

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

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

AC 220-240 V 50 / 60 Hz

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

Do not remove covers
NEVER modify the TV yourself
(High-voltage components may cause serious electrical shock.)
● Have the TV checked, adjusted, or repaired at your local Panasonic dealer.

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

Do not expose to direct sunlight and other sources of heat
● Avoid exposing the TV to direct sunlight and other sources of heat. To prevent fire never place any type of candle or naked flame on top or near the TV.

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

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

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

Notes

Caution

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

■When the TV is not going to be used for a long period of time, remove the mains plug
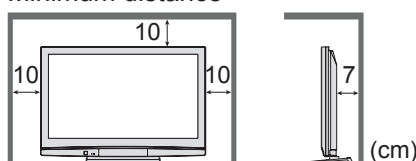- This TV will still consume some power even in the Off mode, as long as the mains plug is still connected to a live socket outlet.

■Transport only in upright position
- Transporting the TV with its display panel facing upright or downward may cause damage to the internal circuitry.

■Allow sufficient space around the TV for radiated heat

Minimum distance

```
      10↑
10 ┌────────┐ 10    │ 7
   │        │       │
   │        │       │
   └────────┘              (cm)
```

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

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

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

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

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

To prevent image retention, contrast is lowered automatically after a few minutes if no signals are sent or no operations are performed. (p. 45)

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

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

Maintenance

First, remove the mains plug from the socket outlet.

Display panel

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

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

Cabinet, Pedestal

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

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

Mains plug

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

Accessories / Options

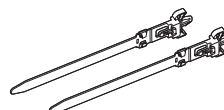**Standard accessories** Check that you have the accessories and items shown ☑
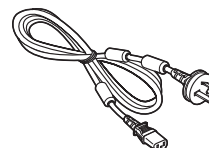
☐ Remote Control
  ● N2QAYB000229

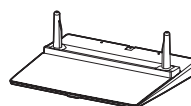☐ Batteries for the Remote Control (2)
  ● R6 (AA)

☐ Clamper (2)
  ➡ p. 10

☐ Mains Lead
  ➡ p. 8

☐ Operating Instructions with Warranty statement
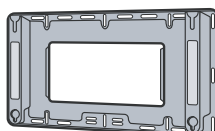
☐ Pedestal (ST-42R4-WK)
  ● TBLX0060
  ➡ p. 7

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

Optional accessories

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

(angle)
  ● TY-WK42PR3W
  ● TY-WK42PR4W
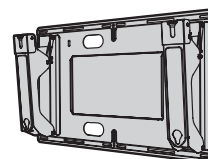
Caution

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

Installing remote's batteries

1 Pull open
Hook

2 Close
Note the correct polarity (+ or -)
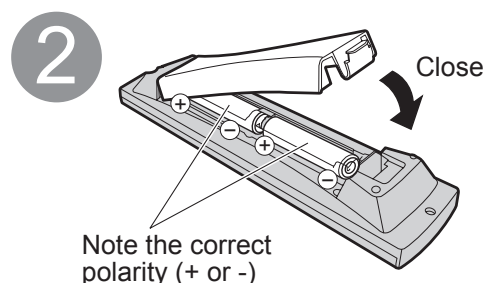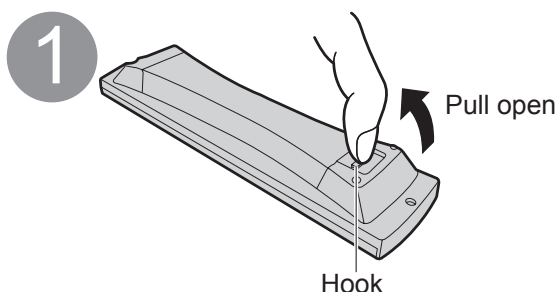
Caution

● 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.

Attaching the pedestal

Ⓐ Assembly screw (4) (silver)　M5 × 18 mm

Ⓑ Assembly screw (4) (black)　M5 × 25 mm

Ⓒ Pole (2)　Ⓛ　Ⓡ

Ⓓ Base

■Assembling the pedestal

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

Ⓐ M5 × 18 mm

Ⓡ

Ⓓ

Ⓛ

Front
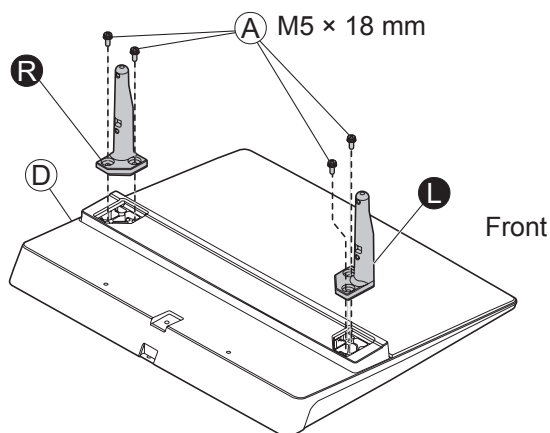
■Securing the TV

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

Ⓑ M5 × 25 mm

View from the bottom

Arrow mark

Hole for pedestal installation

Ⓓ

Quick Start Guide

● Accessories / Options

7
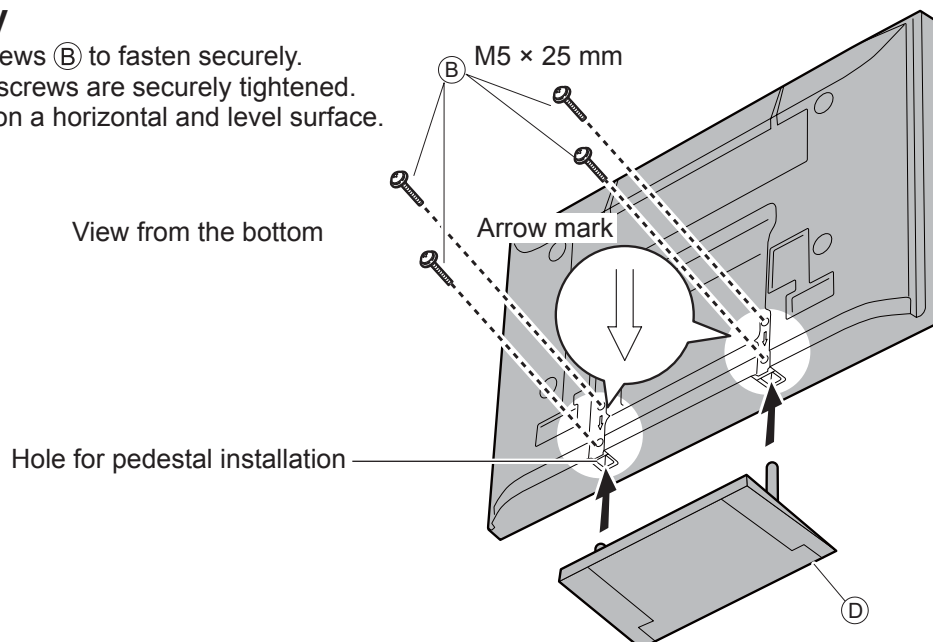
Basic Connection

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

Example 1
Connecting aerial

TV only

Rear of the TV

① ②

Push until both
side tabs click

**Make sure that
the mains lead is
securely fixed.**

● To remove from the TV:

① ①

②

tabs

Press both tabs
and pull on
mains connector
to release

Aerial

AC 220-240 V
50 / 60 Hz

Mains lead (supplied)

RF cable

HDMI
AV IN
1   2

ANT

S VIDEO

PC AUDIO
via AV2

PC

VIDEO   VIDEO   VIDEO   VIDEO

L   L   Y   L   Y

AUDIO   AUDIO   Pa/Ca AUDIO   Pa/Ca   AUDIO

R   R   Pr/Cr R   Pr/Cr   R

MONITOR COMPONENT   COMPONENT   DIGITAL
OUT   AV1 IN   AV2 IN   AV3 IN AUDIO OUT

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.

Example 2
Connecting DVD Recorder / VCR

TV, DVD Recorder or VCR

Rear of the TV
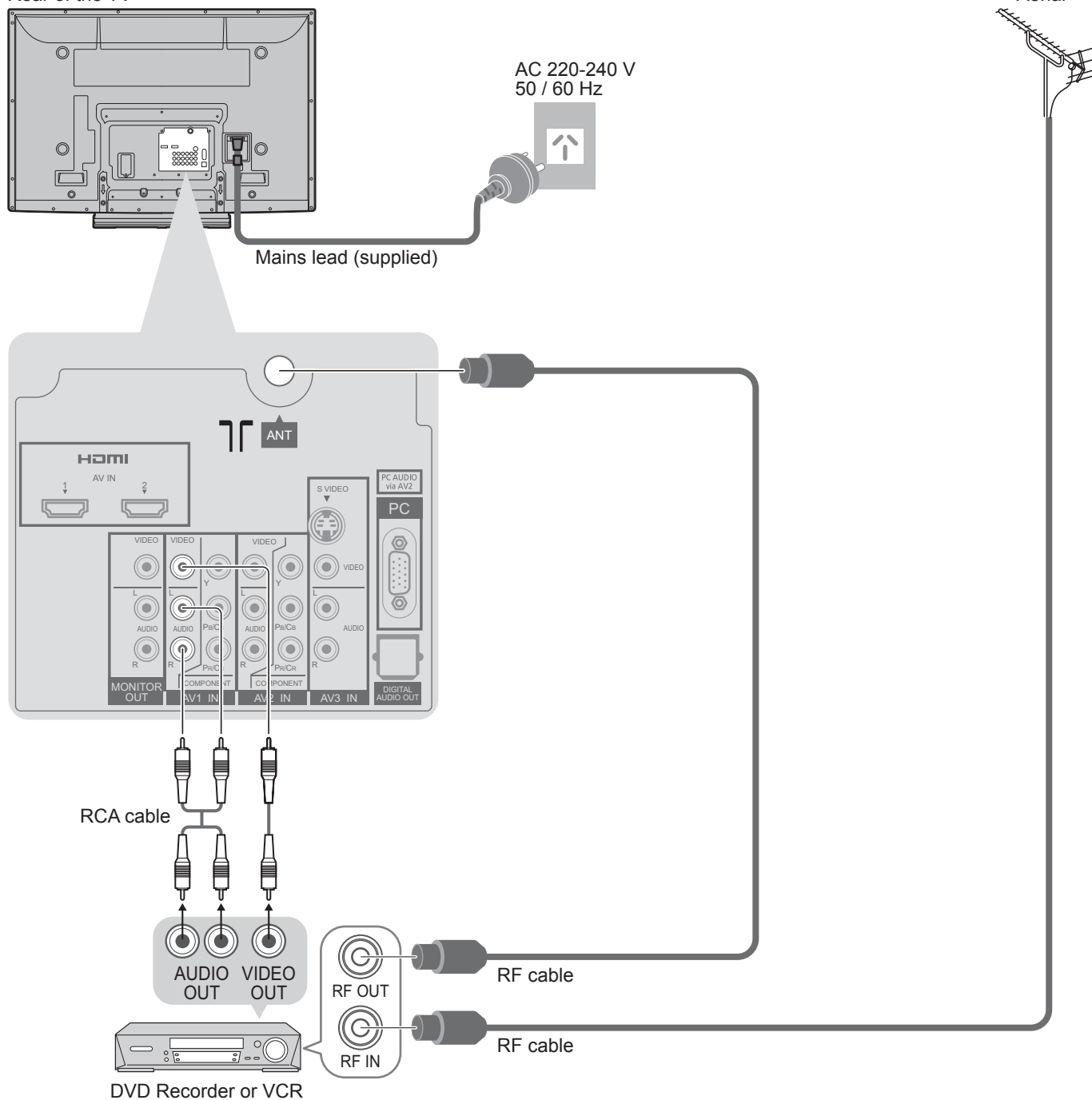
Aerial

AC 220-240 V
50 / 60 Hz

Mains lead (supplied)

ANT

HDMI

AV IN
1   2

VIDEO   VIDEO   VIDEO

Y   Y

L   L   L

AUDIO   AUDIO   PB/CB   AUDIO

R   R   PR/CR   PR/CR   R

MONITOR   COMPONENT   COMPONENT
OUT   AV1 IN   AV2 IN   AV3 IN

S VIDEO

VIDEO

PC AUDIO
via AV2

PC

DIGITAL
AUDIO OUT

RCA cable

AUDIO   VIDEO
OUT   OUT

RF OUT

RF cable

RF IN

RF cable

DVD Recorder or VCR

Quick Start Guide

● Basic Connection

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Basic Connection

Example 3
Connecting DVD Recorder / VCR and Set top box

TV, DVD Recorder / VCR and Set top box

Rear of the TV

AC 220-240 V
50 / 60 Hz

Aerial

Mains lead
(supplied)

RF cable

DVD Recorder
or VCR

RF OUT

RF IN

RF cable

HDMI
AV IN

1   2

PC AUDIO
via AV2

PC

S VIDEO

VIDEO

VIDEO

VIDEO

VIDEO

Y

Y

Pb/Cb

Pb/Cb

Pr/Cr

Pr/Cr

L

L

L

AUDIO

AUDIO

AUDIO

AUDIO

R

R

R

MONITOR
OUT

AV1 IN
COMPONENT

AV2 IN
COMPONENT

AV3 IN

DIGITAL
AUDIO OUT

VIDEO
OUT

AUDIO
OUT

AUDIO
IN

VIDEO
IN

RCA cable

RCA cable

Fully wired HDMI
compliant cable

HDMI
OUT

AUDIO
OUT

VIDEO
OUT

RF IN

RF cable

Set top box

Using the clamper

Rear of the TV

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

■ **Attach the clamper**

hole

Insert the clamper in a hole

To remove
from the TV:

①

②

snaps

① Keep pushing both side snaps

■ **Bundle the cables**

①

②

hooks

② Set the tip in the hooks

To loosen:

②

knob

① Keep pushing the knob

Identifying Controls

TV

Function select
- Volume / Contrast / Brightness / Colour / Sharpness / Tint (NTSC mode) / Bass / Treble / Balance / Auto Tuning (p. 30)

Lift door to open

F −/∨ +/∧ TV AV

AV4 IN S VIDEO VIDEO — AUDIO — L — R

Changes the input mode

Headphones jack (p. 40)

AV4 terminals (p. 40)

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

Remote control signal receiver

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

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

Remote Control

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

Guide (p. 17)
- Displays TV Guide

OK
- Confirms selections and choices
- Press after selecting programme positions to quickly change programme (DVB) (p. 14)

Main Menu (p. 22)
- Press to access VIERA Link, Picture, Sound and Setup Menus

Aspect (p. 16)
- Changes aspect ratio from Aspect Selection list
- Also possible by pressing this button repeatedly until you reach the desired aspect

VIERA Link Menu (p. 37)
- Press to access VIERA Link Menu directly

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

Programme Information (p. 15)
- Displays programme information

Programme Up / Down
- Selects programme in sequence
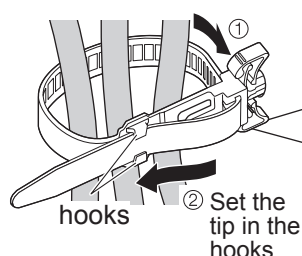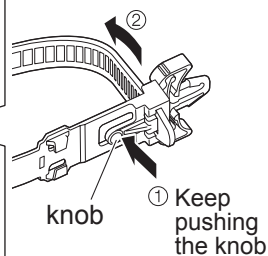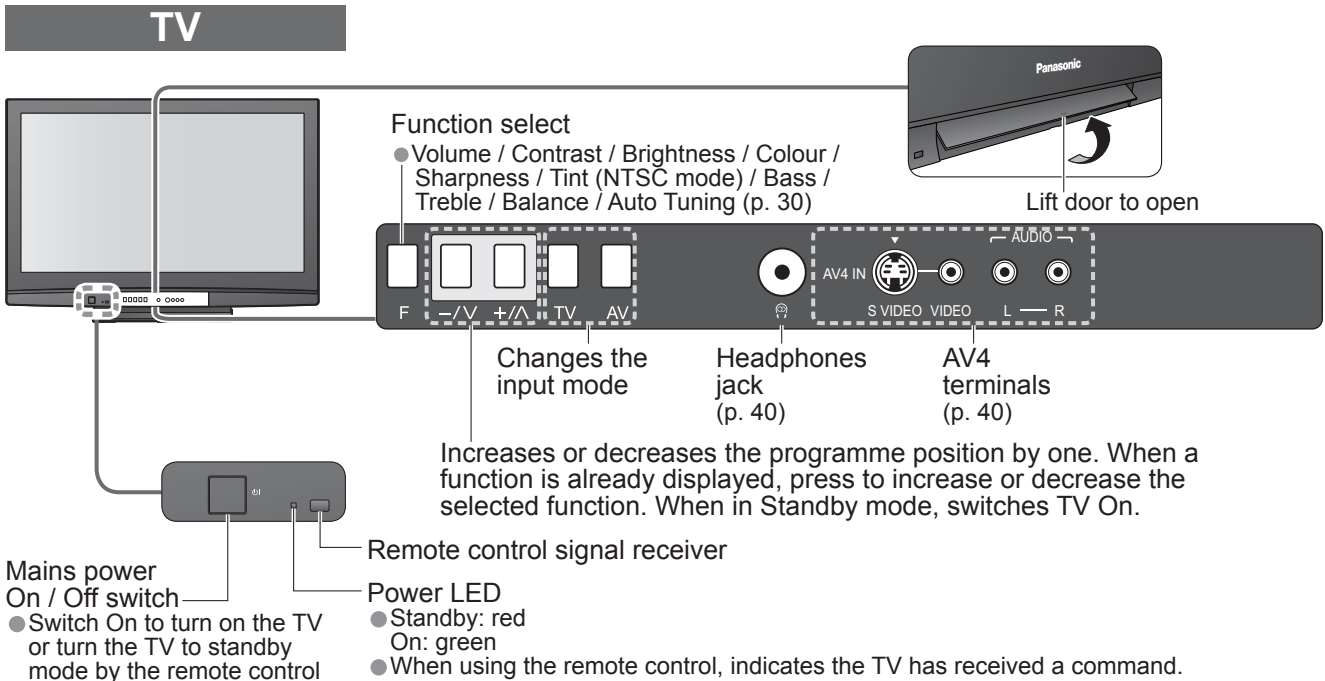- When in Standby mode, switches TV On

Teletext (p. 18)
- Switches to teletext mode

Subtitles (p. 14)
- Displays Subtitles

VCR / DVD Panasonic equipment operations (p. 21)

Input mode selection
- TV - switches DVB / Analogue mode (p. 14)
- AV - switches to AV input mode from Input Selection list (p. 20)

Exit
- Returns to the normal viewing screen

Cursor buttons
- Makes selections and adjustments

Return
- Returns to the previous menu

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

Stereo / Bilingual Sound Selection (p. 43) (Analogue)
- Changes the sound track, if programme has multiple audio tracks (DVB)

Option Menu (p. 15)
- Easy setting for viewing and sound options

Sound Mute
- Switches sound mute On or Off

Volume Up / Down

Hold
- Freeze / unfreeze picture (p. 14)
- Holds the current teletext page (teletext mode) (p. 19)

Index (p. 19)
- Returns to the teletext index page (teletext mode)
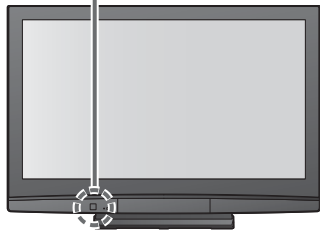
Panasonic
TV

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Auto Tuning

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

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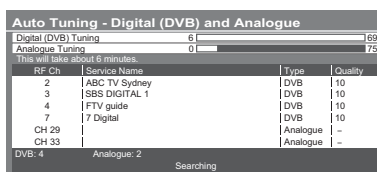(Takes a few seconds to be displayed)

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

2 Select your state

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

select

3 Start Auto Tuning

OK

Auto Tuning - Digital (DVB) and Analogue

| Digital (DVB) Tuning | 6 | | 69 |
| Analogue Tuning | 0 | | 75 |

This will take about 6 minutes.

RF Ch	Service Name	Type	Quality
2	ABC TV Sydney	DVB	10
3	SBS DIGITAL 1	DVB	10
4	FTV guide	DVB	10
7	7 Digital	DVB	10
CH 29		Analogue	–
CH 33		Analogue	–

DVB: 4   Analogue: 2

Searching

- Auto Tuning will start to search for TV programmes and store them in the numbered order as specified by the broadcasters.

4 Select the picture setting

Please select your viewing environment.
Home   Shop
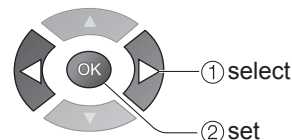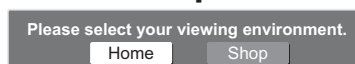
① select
② set

- "Home" is the recommended mode for viewing at home. Select "Home" for optimal picture / power consumption. "Shop" is for in-store display.
- If "Shop" is selected, the word "Shop" appears every time the TV is switched on. (p. 14)
  Home: "Viewing Mode" is set as "Normal". (p. 24)
  Shop: "Viewing Mode" is set as "Dynamic". (p. 24)

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

- To edit programmes
  ➡ "Editing Programmes" (p. 28)

POWER
EXIT
OK
MENU
RETURN

Panasonic
TV

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

■ How to use remote control

Using the On Screen Displays

MENU

Open the main menu

Move the cursor / select the menu

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

OK

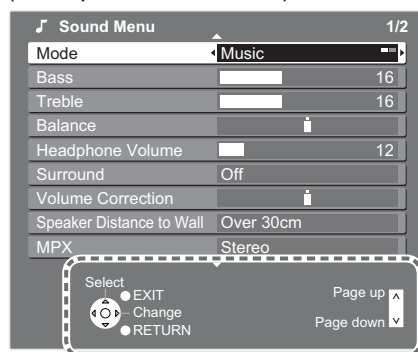Access the menu / store settings after adjustments have been made or options have been set

RETURN

Return to the previous menu

EXIT

Exit the menu system and return to the normal viewing screen

■ ON SCREEN HELP Instructions box

(example: Sound Menu)

♪ Sound Menu		1/2
Mode	◄ Music	■■►
Bass		16
Treble		16
Balance		
Headphone Volume		12
Surround	Off	
Volume Correction		
Speaker Distance to Wall	Over 30cm	
MPX	Stereo	

Select
● EXIT
◄○► ● Change
● RETURN

Page up ▲
Page down ▼

On-screen operation guide will help you.

Note

● If tuning has failed ➡ "Auto Tuning" (p. 31)
● To initialize all settings ➡ "Shipping Condition" (p. 32)
● If you turned the TV Off during Standby mode last time, the TV will be in Standby mode when you turn the TV On with Mains power On / Off switch.
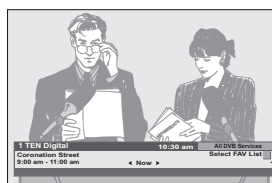
Watching TV
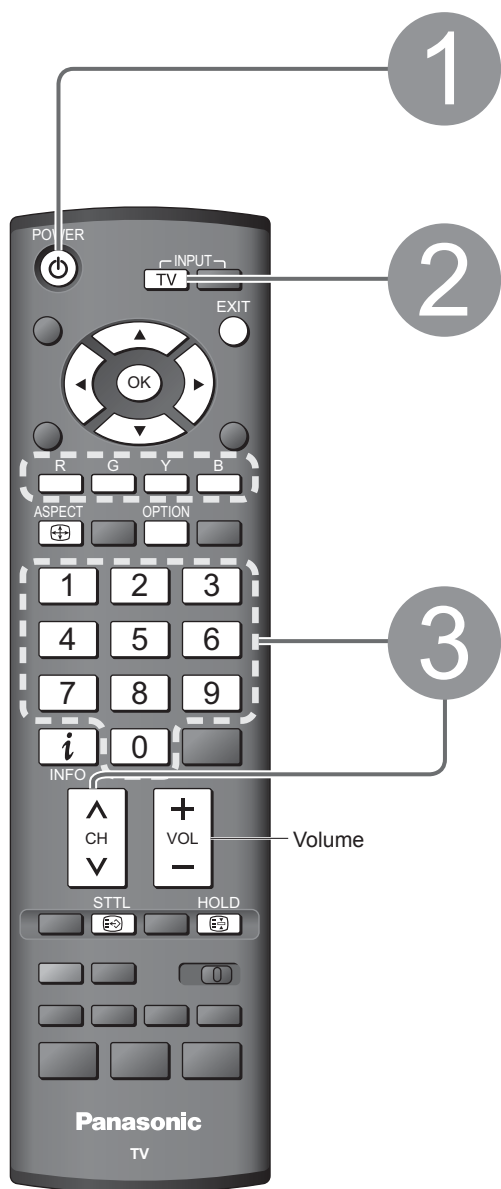
① Turn power on

POWER

- Mains power On / Off switch should be On. (p. 11)
- If "Shop" is displayed on the top right of the screen, reset settings in "Shipping Condition" (p. 32), and select "Home" in "Auto Tuning" (p. 12).

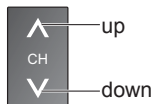### ② Select DVB (Digital Video Broadcasting) or Analogue mode

TV

- Also possible to select the mode using the TV button on the front panel of the TV. (p. 11)

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

1 TEN Digital 　　　　　　10:30 am 　　All DVB Services
Coronation Street 　　　　　　　　　　Select FAV List
9:00 am - 11:00 am 　　◄ Now ►

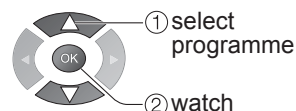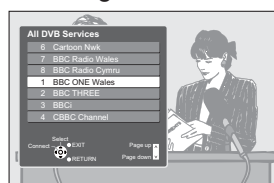### ③ Select a programme

^ up
CH
∨ down

or

1 2 3
4 5 6
7 8 9
0

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

- To select from the Programme List
  ➡ OK

All DVB Services
6 Cartoon Nwk
7 BBC Radio Wales
8 BBC Radio Cymru
1 BBC ONE Wales
2 BBC THREE
3 BBCi
4 CBBC Channel
Select
Connect : :EXIT 　　　　　Page up
：RETURN 　　　　　Page down

① select programme
② watch

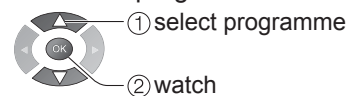■ **Select a programme using Information banner** (p. 15)
Possible to confirm the programme name before selecting programmes.

Display Information banner if it is not displayed

i
INFO

- Possible to set display timeout in "Banner Display Timeout" (p. 25).

While the banner is displayed, select the programme

① select programme
② watch

■ **Select a programme using TV Guide** (p. 17)
Possible to confirm the TV Guide (EPG) before selecting programmes.

Display TV Guide
GUIDE

Select the programme
① select programme
② watch

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

Volume

Panasonic
TV
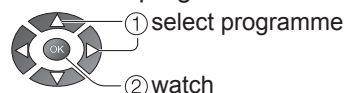
■ **Other useful functions**

Hold	Freeze / unfreeze picture	HOLD
Display subtitles	**Display / hide subtitles** (if available) ● Channel changing is also possible when this function is active.	STTL

■ Other useful functions

Display Information banner

Display Information banner | i INFO

● Also appears when changing a programme

Event — Programme — Current time — Category

Example:

| 1 TEN Digital | 10:30 am | All DVB Services |
Coronation Street		Select FAV List
9:00 am - 11:00 am	◄ Now ►	Software update
🔇 ◯◯ Rating: PG Bad Signal	⬚ ☰ I/II	45

DVB: Event Start / Finish time
Analogue: Programme status

Features available / Message meanings

🔇
Sound mute On

◯◯, I, II, ▽
Audio mode (Analogue mode) (p. 43)

Rating:
Rating information (p. 42)

Bad signal
Poor TV signal quality

Encrypted
Scrambled programme

⬚
Subtitle service available

☰
Teletext service available

I/II
Multiple audio available (DVB mode)

1 - 90
Off Timer remaining time
● For settings ➡ see below

● To confirm another tuned programme name
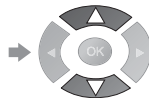
● To change the category (To select a Fav List if you have defined) ➡ B

● Information on the next event (DVB mode)

● Extra information ➡ i INFO (press again to hide the banner) (DVB mode)

● To watch the programme listed in the banner ➡ OK

● To download new software to TV
➡ R "System Update Search Now" (p. 27)

● To hide ➡ EXIT

● To set display timeout
➡ "Banner Display Timeout" (p. 25)

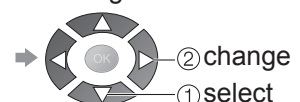### Display the selectable settings for the current programme

Check or change the current programme status instantly | OPTION

● To change ➡ ② change ① select

Volume Correction
➡ Sound Menu (p. 24)
Adjusts volume of individual programme or input mode

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

MPX (Analogue mode)
➡ Sound Menu (p. 24)

Note

● Also possible to change the settings in Menu list (p. 24 and p. 25).

Off Timer

Turn the TV off automatically after a fixed period

Display the menu
MENU

Select "Setup"

| VIERA Main Menu |
| VIERA Link |
| ☐ Picture |
| ♪ Sound |
| ☰ Setup |

② access ① select
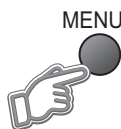
Select "Off Timer" and set the time

☰ Setup Menu	1/2
DVB Favourites Edit	
DVB Service List	
Tuning Menu	
Off Timer	◄ Off ►
Teletext	TOP
Shipping Condition	
System Update	
Power Save	Off
Side Panel	Off

② set ① select
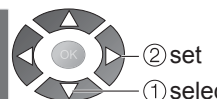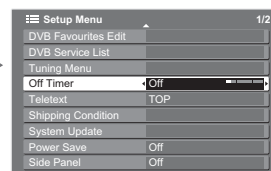
● To cancel ➡ Set to "Off" or turn the TV off.
● To display the remaining time ➡ Information banner (above)
● When the remaining time is within 3 minutes, the remaining time will flash on screen.

15

Watching TV

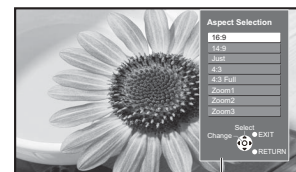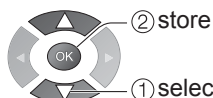## ■ Other useful functions

Change the aspect ratio

ASPECT ⊕

Enjoy viewing the picture at its optimum size and aspect.

Display Aspect Selection list

ASPECT ⊕

➡ While the list is displayed, select the mode

② store
OK
① select

Aspect Selection list

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

Change aspect ratio

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

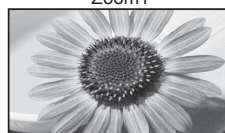Displays a "4:3" image full-screen. Stretching is only noticeable at the left and right edges.

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.
- Only available in DVB mode or HD signal

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

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

Using TV Guide

Using TV Guide enables you to select programme easily, view event informations, etc.
TV Guide—Electronic Programme Guide (EPG) provides an on-screen listing of the programmes currently broadcast and the future broadcasts over the next seven days (depending on the broadcasters).
● Analogue programmes will be listed after DVB programmes. "D" means DVB programme and "A" means Analogue programme.

GUIDE **View TV Guide**
Each time pressed, the layout will be changed.
(Landscape / Portrait)

Current date and time
TV Guide date
TV Guide time
Event

Example:

TV Guide				
Wed 24.10.2007 3:07 am	Landscape		All Types	All Services
Wed, 24.10.2007				
2:54 am - 3:24 am DIY SOS : We open in the Battersbys				
Time:	3:00 am	3:30 am	4:00 am	4:30 am	5:00 am
D 1 TEN Digital	Eastender	DIY SOS	The Bill	Red Cap	Sports
D 2 ABC TV Sydney	Hot Wars		Horiday Program		Live junction
D 3 SBS DIGITAL	Emmerdal.	Coronation Street		The Bill	Drama
D 4 FTV guide	10 O' clock News BBC		Pepsi Char.	Good bye	NEWS
D 7 7 Digital	Panorama	Sex And The City		Terminator	Hello
D105 BBCi	I'm A Celebrity		Pop Idol	News	News
D719 BBC Radi	Rugby	15 To 1		The Bill	Japan

Select service
Portrait/Landscape ● EXIT
● Select programme
View ● RETURN
i Info
Page up
Page down
+24 Hr   Prog.Type   Favourites

Landscape (Displays by service)

Service

Example:

TV Guide				
Wed 24.10.2007 3:07 am	Portrait		All Types	All Services
Wed, 24.10.2007				
◄ D 1 TEN Digital	D 2 ABC TV Sydney	D 3 SBS DIGITAL	D 4 FTV guide	D 7 7 Digital ►
3:00 am - 3:30 am	Eastender			
3:30 am - 4:00 am	DIY SOS			i
4:00 am - 4:30 am	The Bill			
4:30 am - 5:00 am	Red Cap			
5:00 am - 5:30 am	Live junction			
5:30 am - 6:00 am	POP 100			
6:00 am - 6:30 am	Rugby			

Select programme
Portrait/Landscape ● EXIT
● Select service
View ● RETURN
i Info
Page down
+24 Hr   Prog.Type   Favourites

Portrait (Displays by time)

■ **To the previous day** ➡ **R**
(DVB mode)

■ **To the next day** ➡ **G**
(DVB mode)

■ **To watch the programme**
Select the event or programme now on the air
①select
②watch

■ **To return to TV**
➡ EXIT

■ **To view details of the event** (DVB mode)
Select the event
select
➡ **i** INFO ● Press again to return to TV Guide.

■ **To view a programme list of the selected type** (DVB mode)
(Type list)

Prog. type
All Types
All Types
Movie
News
Entertainment
Sport
Children's
Music

➡ **Y** ➡ ①select type
②view

■ **To view a programme list of the selected favourites list**
(Favourites list)

Favourites
All Services
All Services
All DVB Services
All Analogue Services
Fav List1
Fav List2
Fav List3
Fav List4

Only Analogue TV programmes are listed

➡ **B** ➡ ①select a favourites list
②view

To list favourite programmes

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

You can enjoy teletext broadcasting, including news, weather forecasts and subtitles, if this service is provided by 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 ➡ Y
(After the last subject, it moves to the next subject block.)

What is List mode?
In List mode, four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory. ("Store frequently viewed pages", p. 19)

■ **To change mode** ➡ "Teletext" in Setup Menu (p. 25)

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)
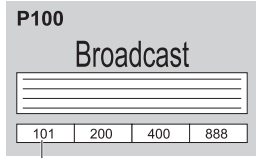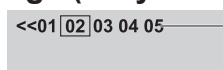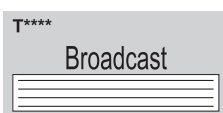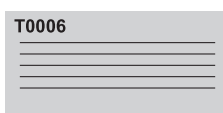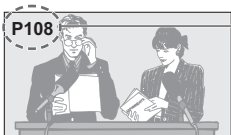
1 2 3
4 5 6
7 8 9
0
or OK or CH or R G Y B
(Corresponds to the colour bar)

As the blue bar is displayed

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

■ **To return to TV** ➡ TEXT or EXIT

■ **Using teletext conveniently**

Reveal hidden data	Reveal hidden words e.g. quiz page answers
	MENU ➡ R ■ **Re-hide** ➡ R
FULL / TOP / BOTTOM	MENU ➡ G

(TOP)
P100
Broadcast
(Expand the TOP half)

(BOTTOM)
(Expand the BOTTOM half)

Normal (FULL)
P100 Broadcast

HOLD	**Stop automatic updating** (If you wish to hold the current page without updating) HOLD ⊞ ■ **To resume** ➡ HOLD ⊞
INDEX	**Return to the main index page** INDEX ⊞
Call up subtitles	**Display subtitles** STTL ⊟ ● 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.
View in multi window	**Watch TV and Teletext in two windows at once** MENU ⬤ (Press twice) ➡ ◀ OK ▶ ▲▼ ● Select Picture and text On or Off ● Operations can be made only in Teletext screen.
Store frequently viewed pages	**Store frequently viewed pages in the colour bar** (List mode only) As page is displayed ▭ Corresponding colour button ➡ OK press and hold **P100** Broadcast 101 200 400 888 The number changes to white. ■ **To change stored pages** Enter new page number ➡ ▭ Colour button you want to change ➡ [1][2][3] [4][5][6] [7][8][9] [0] ➡ OK press and hold
View sub page	**View sub page (Only when teletext is more than one page)** ◀ OK ▶ ▲▼ <<01 |02| 03 04 05 — Appears at top of the screen ■ **To view specific sub page** ➡ MENU ⬤ ➡ B ▭ T**** Broadcast ➡ Enter the 4-digit number example: P6 [0][0][0][6] T0006 ● Sub pages: The number of sub pages varies depending on the broadcasters (up to 79 pages). It may take some time for searching, during which time you can watch TV.
Watch TV while waiting for update	**View the TV picture while searching for a teletext page** Teletext automatically updates itself when new information becomes available. Changes to TV screen temporarily MENU ⬤ ➡ Y ▭ ➡ **P108** Appears when updating is completed ➡ Y ▭ ➡ View the updated page (You cannot change the programme.) ● The news page provides a function that indicates arrival of latest news ("News Flash").

Watching Videos and DVDs

Connect the external equipment (VCRs, DVD equipment, etc.) and you can watch the input.
- To connect the equipment ➡ p. 8 - 10

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

1 **Display the Input select menu**

AV

2 **Select the input mode connected to the equipment**

Input Selection
AV1
AV2
AV3
AV4
PC
HDMI1
HDMI2
TV

② watch
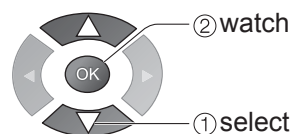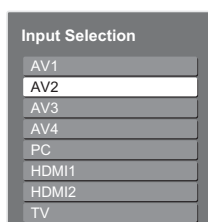
① select

- You can also select the input using the AV button on the remote control or the front panel of the TV.
  Press the button repeatedly until the desired input is selected.
- You can label or skip each input modes ➡ "Input Labels" (p. 33)

3 **View**

Displays the selected mode

AV2
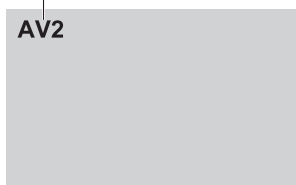
Panasonic
TV

■ **To return to TV**
➡ TV

Note
- If the external equipment has an aspect adjustment function, set to "16:9".
- For details, see the manual of the equipment or ask your local dealer.

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

VCR ▉▉DVD ⬤	**VCR / DVD switch∗** Select VCR to operate Panasonic VCR or DVD equipment Select DVD to operate Panasonic DVD equipment or Player home theatre
POWER ⏻	**Standby** Set to Standby mode / Turn on
▶	**Play** Playback videocassette / DVD
■	**Stop** Stop the operations
⏮ ◀◀	**Rewind / Skip / Search** VCR: Rewind, view the picture rapidly in reverse DVD: Skip to the previous track or title Press and hold to search backward
⏭ ▶▶	**Fast-forward / Skip / Search** VCR: Fast-forward, view the picture rapidly forward DVD: Skip to the next track or title Press and hold to search forward
▮▮/▶	**Pause** Pause / Resume DVD: Press and hold to play at slow speed
PROGRAMME ∨ ∧	**Programme Up / Down** Select programme
REC ●	**Record** Start recording

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

① Set the VCR / DVD switch to the appropriate position ➡ VCR ▉▉DVD ⬤

② Press and hold POWER ⏻ during the following operations

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

"VCR" position

Equipment	Code
VCR	10 (default)
DVD	11

"DVD" position

Equipment	Code
DVD	70 (default)
Player home theatre	71

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

● Watching Videos and DVDs

How to Use Menu Functions

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

1 ## Display the menu

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

2 ## Select the menu

VIErA **Main Menu**
VIERA Link
☐ **Picture**
♪ Sound
≡ Setup

(example: Picture Menu)

② access
① select

3 ## Select the item

☐ **Picture Menu**		1/2
Viewing Mode	◄ Normal	■■■ ►
Contrast		60
Brightness		50
Colour		50
Sharpness		50
Tint		
Colour Balance	Normal	
Colour Management	On	
P-NR	Off	

(example: Picture Menu)

select

4 ## Adjust or select

☐ **Picture Menu**		1/2
Viewing Mode	◄ Normal	■■■ ►
Contrast	◄	60 ►
Brightness	◄	50 ►
Colour	◄	50 ►
Sharpness	◄	50 ►
Tint	◄	►
Colour Balance	◄ Normal	■■■ ►
Colour Management	◄ On	■■ ►
P-NR	◄ Min	■■■■ ►

(example: Picture Menu)

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

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

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

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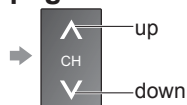
■ **Choose from among alternatives**

Number and positions of alternatives

Colour Balance ◄ Normal ■■■ ►

Changed

■ **Adjust using the slide bar**

Sharpness ◄ 50 ►

Moved

■ **Go to the next screen**

Tuning Menu Access

Displays the next screen

■ **Enter characters by free input menu**
You can enter names or numbers freely for some items.

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

Set characters
① select
② set

Store
RETURN

■ **To reset the settings**

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

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

● To initialize all settings
➡ "Shipping Condition" in Setup Menu (p. 32)

Panasonic
TV

■ Overview

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

VIERA Link Menu

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

(p. 37)

The menu of the accessed equipment

▢ Picture Menu 1/2

Viewing Mode	◀ Normal ▶
Contrast	◀ 60 ▶
Brightness	◀ 50 ▶
Colour	◀ 50 ▶
Sharpness	◀ 50 ▶
Tint	◀ ▶
Colour Balance	◀ Normal ▬▬ ▶
Colour Management	◀ On ▬▬ ▶
P-NR	◀ Min ▬▬ ▶

▢ Picture Menu 2/2

3D-COMB	◀ On ▶
Reset Picture Defaults	Reset

(p. 24)

♪ Sound Menu 1/2

Mode	◀ Music ▬▬ ▶
Bass	◀ 16 ▶
Treble	◀ 16 ▶
Balance	◀ ▶
Headphone Volume	◀ 12 ▶
Surround	◀ Off ▬▬ ▶
Volume Correction	◀ ▶
Speaker Distance to Wall	◀ Over 30cm ▶
MPX	◀ Stereo ▶

♪ Sound Menu 2/2

DVB Audio Preference	◀ MPEG ▬▬ ▶
SPDIF Selection	◀ Auto ▶
MPEG Optical Level	◀ 0dB ▬▬ ▶
Audio Selection	◀ English ▶
HDMI1 Input	◀ Auto ▬▬ ▶
Reset Sound Defaults	Reset

(p. 24)

☰ Setup Menu 1/2

DVB Favourites Edit	Access
DVB Service List	Access
Analogue Service List	Access
Tuning Menu	Access
Off Timer	◀ Off ▬▬▬ ▶
Teletext	◀ TOP ▬▬ ▶
Shipping Condition	Access
System Update	Access
Power Save	◀ Off ▬▬ ▶
Side Panel	◀ High ▬▬ ▶

Tuning Menu

Auto Tuning	Access
DVB Manual Tuning	Access
Analogue Manual Tuning	Access
Add New DVB Services	Access
New Service Message	◀ On ▶
DVB Signal Display	Access

(p. 31)

☰ Setup Menu 2/2

Picture Overscan	◀ On ▶
Input Labels	Access
Banner Display Timeout	◀ 3 seconds ▬▬▬ ▶
VIERA Link Settings	Access
Region Select	◀ NSW / ACT ▶
Daylight Saving Time	◀ Auto ▬▬ ▶
Refresh Rate	◀ 100Hz ▬▬ ▶
Software Licence	Access
System Information	Access

VIERA Link Settings

VIERA Link	◀ On ▬▬ ▶
Power off Link	◀ Set ▬▬ ▶
Power on Link	◀ No ▬▬ ▶

(p. 25, 36)

(p. 25)

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

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

Advanced

How to Use Menu Functions

■Menu list

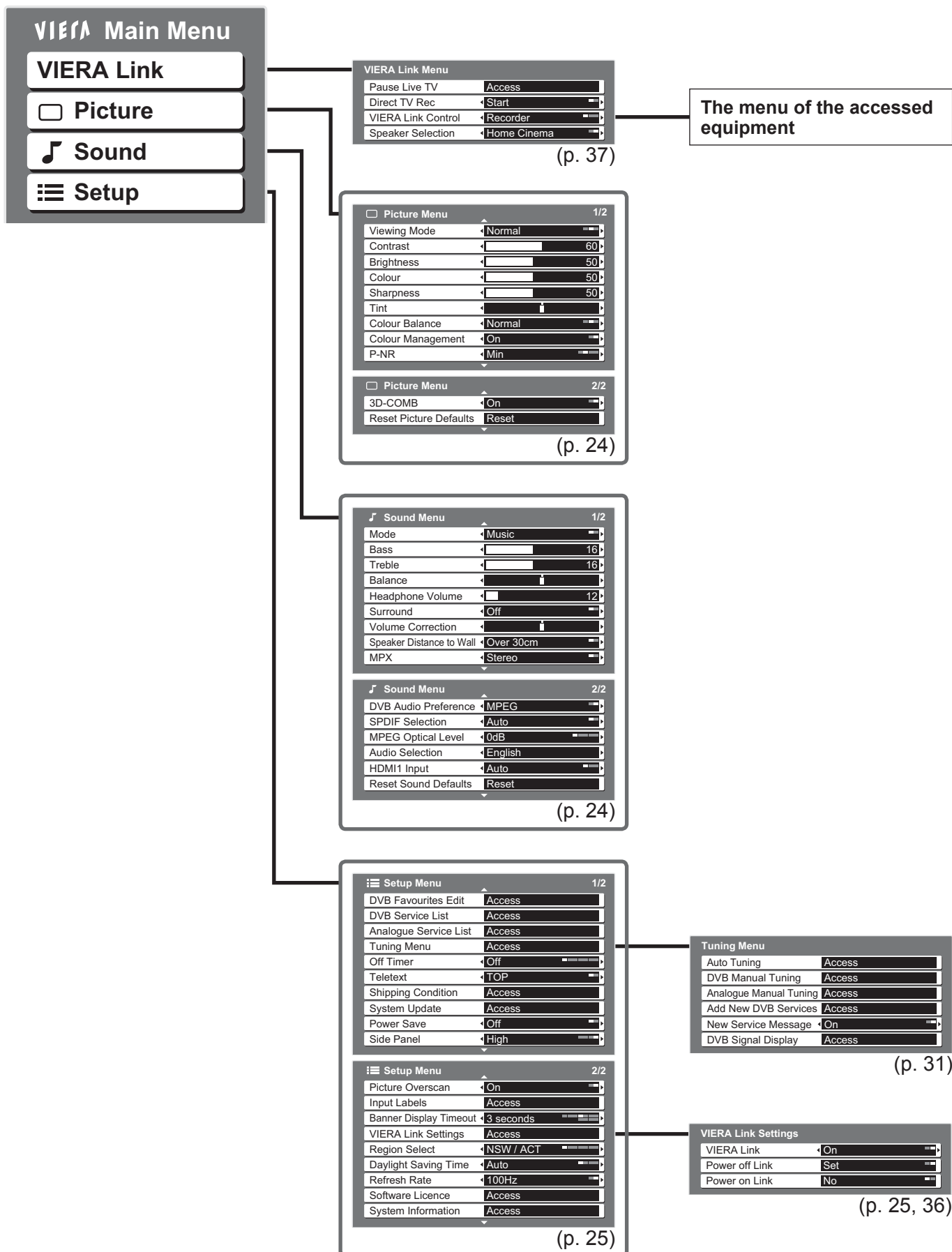| Menu	Item	Adjustments / Configurations (alternatives)
VIERA Link	**Pause Live TV**	Controls the connected equipment with VIERA Link function, and enables various convenient recording, playback, etc. (p. 37 - 39) ● You can also access VIERA Link Menu directly using the VIERA Link button on the remote control.
	Direct TV Rec	
	VIERA Link Control	
	Speaker Selection	
Picture	**Viewing Mode**	Basic picture mode **(Dynamic / Normal / Cinema)** Dynamic : Provides enhanced picture contrast and sharpness when viewing in a bright room Normal : Recommended for viewing under normal ambient room lighting conditions Cinema : For watching movies in a darkened room producing a cinema-like picture ● Set for each input signal
	Contrast, Brightness, Colour, Sharpness	Increases or decreases the levels of these options according to your personal preference
	Tint	With an NTSC signal source connected to the TV, the picture hue can be adjusted to suit your taste ● For NTSC or 60Hz (Component / HDMI) input signal reception only
	Colour Balance	Allows you to set the overall colour tone of the picture **(Cool / Normal / Warm)**
	Colour Management	Automatically adjusts colours to vivid ones **(Off / On)** ● Not valid on PC signal
	P-NR	Picture Noise Reduction Automatically reduces unwanted picture noise and flicker noise in the contoured parts of a picture **(Off / Min / Mid / Max)** ● Not valid on PC signal
	3D-COMB	Occasionally, whilst viewing still or slow moving pictures, colour patterning may be seen Set to "On" to display sharper and more accurate colours **(Off / On)** ● For PAL or NTSC signal reception only ● Not valid on S-Video, Component, PC and HDMI
	Reset Picture Defaults	Press the OK button to reset Viewing Mode on all inputs to default settings.
Sound	**Mode**	Basic sound mode **(Music / Speech)**
	Bass	Increases or decreases level to enhance or minimise lower, deeper sound output
	Treble	Increases or decreases level to enhance or minimise sharper, higher sound output
	Balance	Adjusts volume level of right and left speakers
	Headphone Volume	Adjusts the volume of the headphones
	Surround	Surround sound settings **(Off / On)** Provides a dynamic enhancer to simulate improved spatial effects
	Volume Correction	Adjusts volume of individual programme or input mode
	Speaker Distance to Wall	Adjusts the low frequency sound **(Over 30cm / Up to 30cm)** ● If the back space between the TV and wall is over 30 cm, "Over 30cm" is recommended. ● If the back space between the TV and wall is within 30 cm, "Up to 30cm" is recommended.
	MPX	Select stereo / monaural **(Mono / Stereo)** (p. 43) ● Normally: Stereo ● Stereo signal cannot be received: Mono ● M1 / M2: Available while mono signal is transmitted ● Analogue mode only
	DVB Audio Preference	Selects the initial setting for Audio tracks **(Dolby Digital / MPEG)** If programme has both Dolby Digital and MPEG audio tracks, priority is given to what you select Dolby Digital: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. ● DVB mode only
	SPDIF Selection	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:Dolby Digital is output as PCM. MPEG is output as PCM. ● DVB mode only
	MPEG Optical Level	Normally, MPEG sound is larger than Dolby Digital one You can adjust the audio level of MPEG output from DIGITAL AUDIO OUT terminal as the initial setting ● 0dB to -12dB in -2dB reductions ● DVB mode only
	Audio Selection	Selects the preferred language for DVB multi audio (depending on the broadcaster)
	HDMI1 Input	Select to fit the input signal **(Auto / Digital / Analogue)** (p. 35) Auto: Automatic detection of digital or analogue sound source Digital: HDMI cable connection Analogue: HDMI-DVI adapter cable connection ● HDMI input mode only ● HDMI2 terminal is for digital signal only ● No setting for HDMI2 available
	Reset Sound Defaults	Press the OK button to reset the present Sound Mode to the default settings

24

■Menu list

Menu	Item		Adjustments / Configurations (alternatives)
Setup		DVB Favourites Edit	Creates list of favourite programmes (p. 29)
		DVB Service List	Skips the unwanted DVB programmes (p. 29)
		Analogue Service List	Skips the unwanted Analogue programmes or edits Analogue programmes (p. 29)
	Tuning Menu	Auto Tuning	Automatically sets the programmes received in the area (p. 31)
		DVB Manual Tuning	Sets the DVB programmes manually (p. 31)
		Analogue Manual Tuning	Sets the Analogue programmes manually (p. 31)
		Add New DVB Services	Adds new DVB services (p. 31)
		New Service Message	Selects whether to give a notification message when a new DVB service is found (p. 31)
		DVB Signal Display	Checks the DVB signal condition (p. 31)
		Off Timer	Sets the time the TV automatically turns Off **(Off / 15 / 30 / 45 / 60 / 75 / 90 minutes)**
		Teletext	Teletext display mode **(TOP (FASTEXT) / List)** (p. 18)
		Shipping Condition	Resets all settings, for example, when moving house (p. 32)
		System Update	Downloads new software to TV (p. 27)
		Power Save	Reduces brightness of picture to economise on power consumption **(Off / On)**
		Side Panel	Increases the brightness of the side panel **(Off / Low / Mid / High)** ● The recommended setting is "High" to prevent panel "image retention"
		Picture Overscan	Selects the screen area displaying the image **(Off / On)** On : Enlarged the image to hide the edge of the image. Off : Displayed the image in the original size. ● Set to "On" if noise is generated on the edge of the screen. ● This function is available when aspect is set to 16:9. ● This function can be memorized separately for SD (Standard definition) and HD (High definition) signals.
		Input Labels	Labels or skips each input terminals (p. 33)
		Banner Display Timeout	Sets how long the information banner (p. 15) stays on screen ● 0 (No display) to 10 sec. in 1-sec. increments
	VIERA Link Settings	VIERA Link	Sets to use VIERA Link functions **(Off / On)** (p. 36)
		Power off Link	Sets to use Power off Link function **(No / Set)** (p. 36)
		Power on Link	Sets to use Power on Link function **(No / Set)** (p. 36)
		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. 27)
		Daylight Saving Time	Select time offset from the standard time for Summer Time **(Auto / Off / +1/2 Hr / +1 Hr)** (p. 27) ● Set to "Auto" normally
		Refresh Rate	Changes the image processing of the panel (depending on the input signal) **(50Hz / 100Hz)** ● Set to "100Hz" normally
		Software Licence	Displays the software licence information
		System Information	Displays the system information of this TV

● A different menu will be displayed while PC, DVI to HDMI adapter cable is used. (p. 34-35)
● Only available items can be selected.
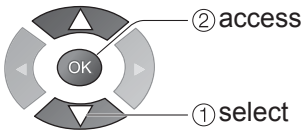
DVB Settings (DVB mode)
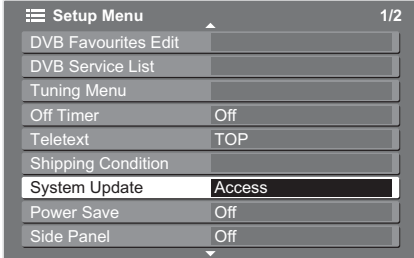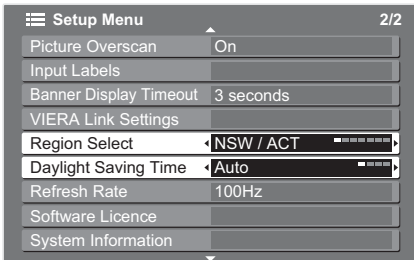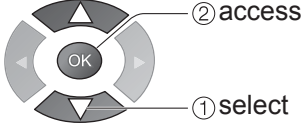
DVB Settings provide access to various advanced features.

1 If in Analogue mode
Select DVB

[TV]

2 **Display the menu**

MENU

3 **Select "Setup"**

VIEΓΛ Main Menu
VIERA Link
☐ Picture
♪ Sound
☰ Setup

② access
① select

4 **Select "System Update", "Region Select" or "Daylight Saving Time"**

☰ Setup Menu	▲	1/2
DVB Favourites Edit		
DVB Service List		
Tuning Menu		
Off Timer	Off	
Teletext	TOP	
Shipping Condition		
System Update	Access	
Power Save	Off	
Side Panel	Off	
	▼	

☰ Setup Menu	▲	2/2
Picture Overscan	On	
Input Labels		
Banner Display Timeout	3 seconds	
VIERA Link Settings		
Region Select	◄ NSW / ACT ■■■■■ ►	
Daylight Saving Time	◄ Auto ■■■ ►	
Refresh Rate	100Hz	
Software Licence		
System Information		
	▼	

② access
① select

■ **To return to TV**

EXIT
➡

5 **Set**

Update TV's software system

System Update

Download new software to TV.
● For details ➡ p. 42

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

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

```
System Update
Auto Update Search in Standby  ◄ On        ►
System Update Search Now
```
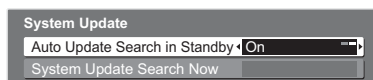
② set
① select

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

Note

● When the TV is switched to standby, there will be a clicking sound after a short delay. Similar clicking sounds will also occur at 3:00 AM and 5:00 AM (p. 44) when "Auto update Search in Standby" is set to "On". These sounds are normal.

■ **To update immediately**

Select "System Update Search Now"
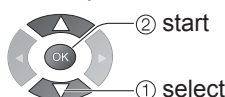
② start
① select

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

Download

OK

● Download may take for about 20 mins.

Note

● During downloading, the TV will display a blank screen for 40 to 50 seconds. Do not interrupt the TV during this procedure.

Adjust the standard time

Region Select

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).

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	+9:00
Northern Territory	+9:30	
Tasmania	+10:00	+11:00

(Based on GMT)

Adjust for Summer Time

Daylight Saving 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.

Editing Programmes

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

1 **Select DVB or Analogue**

TV
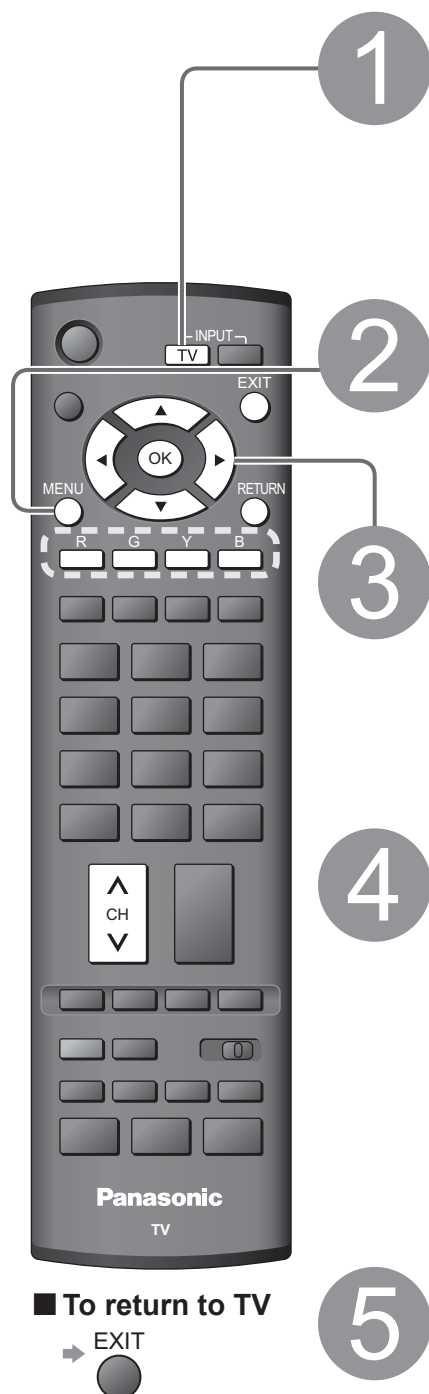
● "DVB Favourites Edit" and "DVB Service List" are available in DVB mode only.
● "Analogue Service List" is available in Analogue mode only.

2 **Display the menu**

MENU

3 **Select "Setup"**

VIE**r**A Main Menu
VIERA Link
☐ Picture
♪ Sound
☰ Setup

② access
① select
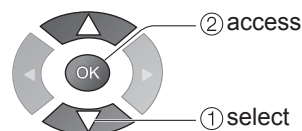
4 **Select "DVB Favourites Edit", "DVB Service List" or "Analogue Service List"**
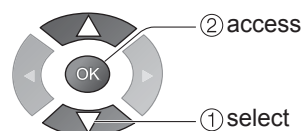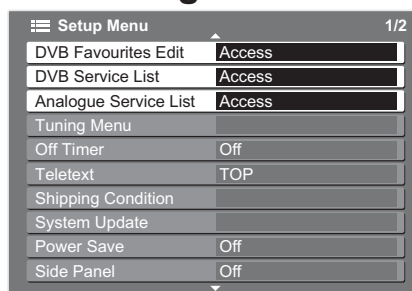
☰ Setup Menu	1/2
DVB Favourites Edit	Access
DVB Service List	Access
Analogue Service List	Access
Tuning Menu	
Off Timer	Off
Teletext	TOP
Shipping Condition	
System Update	
Power Save	Off
Side Panel	Off

② access
① select

■ **To return to TV**
➡ EXIT

5 **Set**

Create your favourite programme list from various broadcasters (up to 4: Fav List1 / Fav List2 / Fav List3 / Fav List4).
The list is added to "Favourites" list in TV Guide (p. 17) and information banner (p. 15) and then easily accessed.

Select a programme and add it to the list

Favourites Edit

All DVB Services	Fav List1
1 TEN Digital	
2 ABC TV Sydney	
3 SBS DIGITAL 1	
4 FTV guide	
7 7 Digital	
9 NINE DIGITAL	
70 7 HD Digital	
77 7 Guide	

To display another List
➡ B

select

● To add all programmes to the list ➡ Y

G

Favourites Edit

All DVB Services	Fav List1
1 TEN Digital	1 TEN Digital
2 ABC TV Sydney	
3 SBS DIGITAL 1	
4 FTV guide	
7 7 Digital	
9 NINE DIGITAL	
70 7 HD Digital	
77 7 Guide	

A programme is added

OK

■ To edit List

Select the field of List to edit and:

● To name the List ➡ R ➡ Select the character ➡ OK ➡ RETURN

● To move the programme ➡ G ➡ Select the new position ➡ Confirm G ➡ OK

● To delete the programme ➡ Y ➡ OK

● To delete all programmes ➡ B ➡ OK

Note

● Programme numbers (known as logical channel numbers) are defined by the broadcaster and cannot be changed.
● Hidden services (see below) can be selected but not viewed.

You can hide unwanted services. The deleted services cannot be displayed except in this function. Use this function to skip unwanted programmes.
● "DVB Service List" is listed all tuned DVB programmes in DVB mode.
● "Analogue Service List" is listed all tuned Analogue programmes in Analogue mode.

Select a service and add / delete

DVB Service 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 add / delete

① select

☑ :add
☐ :delete (skip)

● To retune each programme (Manual Tuning)
➡ R (p. 31)

You can change the programme name and programme position for Analogue programmes.
● This function is available in Analogue mode.
● If a VCR is connected only with the RF cable, edit "VCR".

① Select the programme to edit

Analogue Service List

1	BBC1	☑
2	*****	☐
3	*****	☐
4	*****	☑
5	*****	☑
6	*****	☑
7	*****	☑

∧ page up
CH
∨ page down

select

Programme position
— Name

1 TEN	10:30 am	All Analogue Services
Coronation Street		

② Edit

■ To change the name displayed when selecting programmes

Select "Rename"
G

Set characters
① select
② set

Edit service name

Name [   ]

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

(maximum: five characters)

Store
RETURN

■ To move the programme position

Select new position
Y

select

Store
Y

List favourite programmes

DVB Favourites Edit

(DVB mode)

Skip unwanted programmes
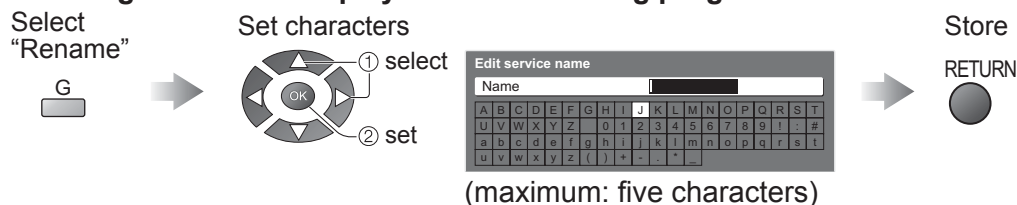
DVB Service List

Analogue Service List
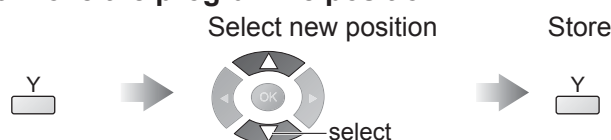
Edit analogue programmes (Change name, Move)

Analogue Service List

Tuning Programmes

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

① Select DVB or Analogue

`TV`
- "DVB Manual Tuning", "Add New DVB Services", "New Service Message" and "DVB Signal Display" are available in DVB mode only.
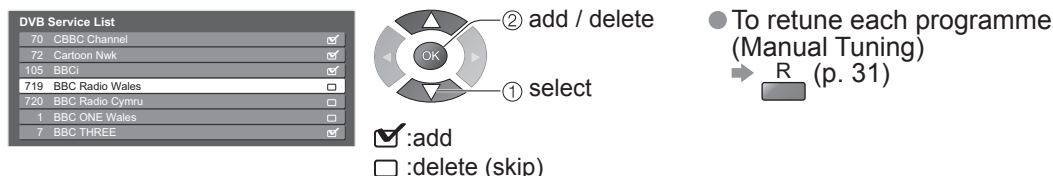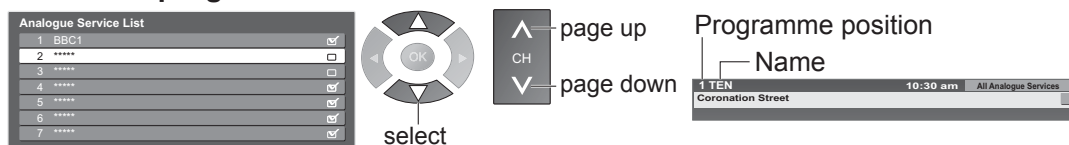- "Analogue Manual Tuning" is available in Analogue mode only.

② Display the menu

MENU

③ Select "Setup"

VIErA **Main Menu**

VIERA Link
☐ Picture
♪ Sound
☰ Setup

② access
① select

④ Select "Tuning Menu"

☰ Setup Menu	1/2
DVB Favourites Edit	
DVB Service List	
Tuning Menu	Access
Off Timer	Off
Teletext	TOP
Shipping Condition	
System Update	
Power Save	Off
Side Panel	Off

② access
① select

⑤ Select a function

Tuning Menu	
Auto Tuning	Access
DVB Manual Tuning	Access
Analogue Manual Tuning	Access
Add New DVB Services	Access
New Service Message	◄ On ►
DVB Signal Display	Access

② access
① select

■ **To return to TV**
EXIT

⑥ Set

■ **For Auto Tuning, using the buttons on the front of the TV** (p. 11)
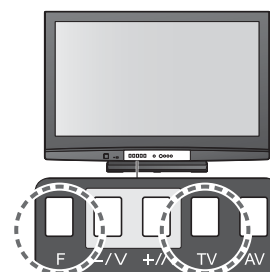 ① Press repeatedly until "Auto Tuning" appears

  F

  ② Access "Auto Tuning"

  TV
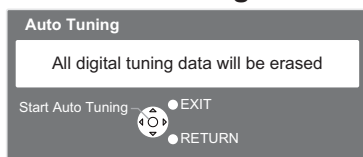
  ③ Start "Auto Tuning"

  TV

  ● To return to TV ➡ ☐
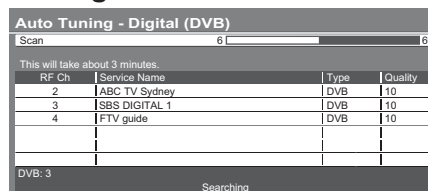 F

F   -/V   +/▲   TV   ▶AV

30

Automatically retune all DVB or Analogue programmes received in the area.
● Only DVB programmes are retuned in DVB mode.
● Only Analogue programmes are retuned in Analogue mode.

Set all DVB or Analogue programmes automatically

Auto Tuning

Start Auto Tuning

```
Auto Tuning
All digital tuning data will be erased
Start Auto Tuning     ● EXIT
                      ● RETURN
```

OK

Settings are made automatically

```
Auto Tuning - Digital (DVB)
Scan                    6 [            ] 69
This will take about 3 minutes.
RF Ch   Service Name              Type    Quality
 2      ABC TV Sydney             DVB     10
 3      SBS DIGITAL 1             DVB     10
 4      FTV guide                 DVB     10

DVB: 3
                    Searching
```
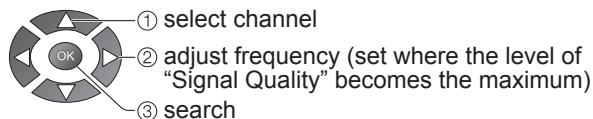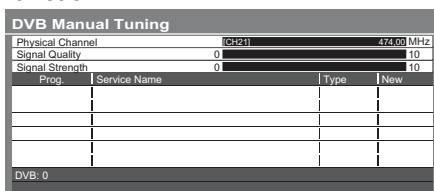
● All the previous tuning settings are erased.
● When the operation is completed, the programme at programme position "1" will be displayed.
● If tuning has not been done completely ➡ "DVB Manual Tuning", "Analogue Manual Tuning"

Set DVB programme manually

DVB Manual Tuning

Normally use "Auto Tuning" or "Add New DVB Services" to add DVB programmes to your service list.
If tuning has not been done completely or for adjusting the direction of the aerial, use this function.

```
DVB Manual Tuning
Physical Channel        [CH21]        474.00 MHz
Signal Quality       0                       10
Signal Strength      0                       10
Prog.   Service Name          Type    New


DVB: 0
```

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

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

Set Analogue programme manually

Analogue Manual Tuning

Set Analogue programme manually after Auto Tuning.
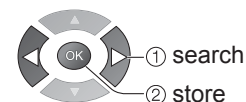● If a VCR is connected only with the RF cable, select programme position "0".

```
Analogue Manual Tuning
1                                    CH33
Manual Tuning        0◄              ►75
```

Select the programme position

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

Select the programme
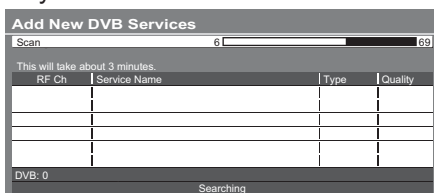
∧
CH
∨

Search and store

OK
① search
② store

Add DVB programme automatically

Add New DVB Services

Any new services found will be added to the DVB Service List.

```
Add New DVB Services
Scan                    6 [            ] 69
This will take about 3 minutes.
RF Ch   Service Name              Type    Quality




DVB: 0
                    Searching
```

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

Display a notification message

New Service Message

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

```
New DVB service found!
Press OK to add new service.
Press EXIT to Ignore.
```
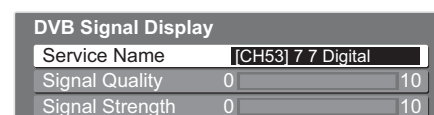
Check DVB signal

DVB Signal Display

Selects a programme and checks the DVB signal condition.
● To change the programme

➡ ∧
   CH
   ∨

```
DVB Signal Display
Service Name      [CH53] 7 7 Digital
Signal Quality    0 [          ] 10
Signal Strength   0 [          ] 10
```
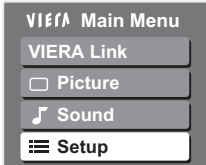
A good Signal Strength is not an indication of suitable signal for DVB reception. Please use the Signal Quality indicator as follows:
Signal Quality:
● Green bar ➡ Good
● Yellow bar ➡ Poor
● Red bar ➡ Bad (Check the aerial)

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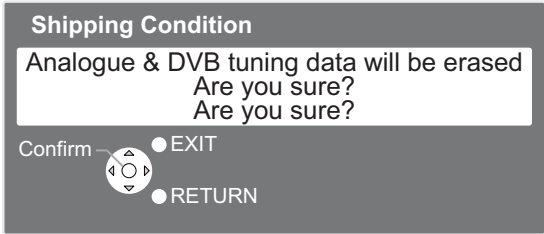
Resets the TV to its original condition, i.e. no programmes tuned in.
All settings (programmes, picture, sound quality, etc.) are reset.

1 **Display the menu**

MENU

2 **Select "Setup"**

VIErA **Main Menu**

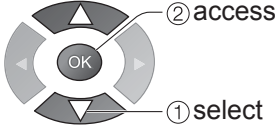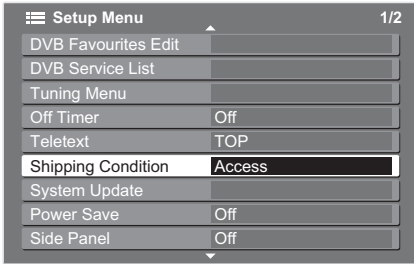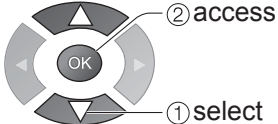| VIERA Link |
| Picture |
| Sound |
| **Setup** |

② access

① select

3 **Select "Shipping Condition"**

☰ Setup Menu		1/2
DVB Favourites Edit	
DVB Service List	
Tuning Menu	
Off Timer	Off
Teletext	TOP
Shipping Condition	Access
System Update	
Power Save	Off
Side Panel	Off

② access

① select

■ **To return to TV**

EXIT

4 **Set**

Restore Settings

Shipping Condition

① **Check the message and initialise**

Shipping Condition

Analogue & DVB tuning data will be erased
Are you sure?
Are you sure?

OK

Confirm ●EXIT

●RETURN

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

■ **To retune TV programmes only, e.g. after moving house**
➡ "Auto Tuning" (p. 31)

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. 20

1 Display the menu

MENU

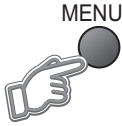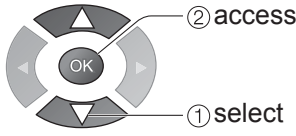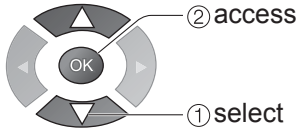## 2 Select "Setup"

VIErA Main Menu
VIERA Link
☐ Picture
♪ Sound
☰ Setup

②access
①select

3 Select "Input Labels"
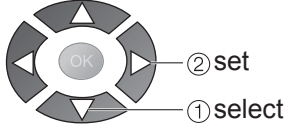
☰ Setup Menu	2/2
Picture Overscan	On
Input Labels	Access
Banner Display Timeout	3 seconds
VIERA Link Settings	
Region Select	NSW / ACT
Daylight Saving Time	Auto
Refresh Rate	100Hz
Software Licence	
System Information	

②access
①select

4 Select a input terminal and set

Panasonic
TV

■ **To return to TV**
➡ EXIT

Input Labels	
AV1	◄ DVD ▶
AV2	AV2
AV3	AV3
AV4	AV4
PC	PC
HDMI1	HDMI1
HDMI2	HDMI2

②set
①select

The labels you set will be displayed in "Input Selection" menu (p. 20) or banner.
●If "Skip" is selected, you cannot select the mode.

Advanced

■ **User input**
You can name each input terminals freely.

Select "User input"   Set characters   Store

①select   ①select
②access   ②set

RETURN

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	(	)	+	-	.	*	_							
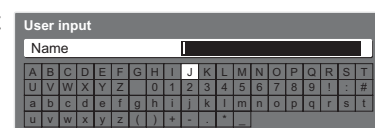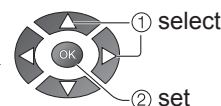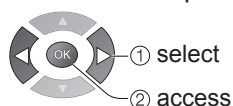
(maximum: ten characters)

Displaying PC Screen on TV

The screen of the PC connected to the TV can be displayed on the TV.
You can also listen to PC sound with the audio cable connected.
● To connect PC ➡ p. 40

① Select the external input

AV

② Select "PC"

Input Selection

AV1
AV2
AV3
AV4
PC
HDMI1
HDMI2
TV

② access

① select

● Corresponding signals ➡ p. 44
● If "H-freq." or "V-freq." is shown in red, the signals may not be supported.
● PC Audio input is via AV2 Audio connection. (p. 41)

■ To return to TV
➡ TV

■ PC menu setting (changed as desired)
● To make settings ➡ "How to Use Menu Functions" ① to ④ (p. 22)

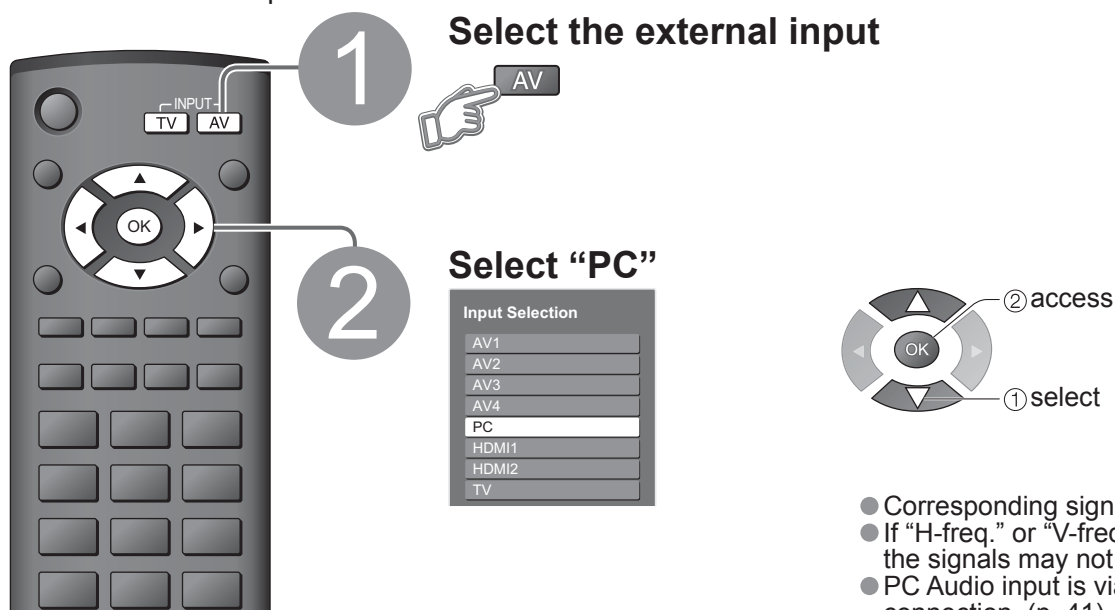| Menu	Item		Adjustments / Configurations (options)	
Picture	**Advanced PC Settings**	W/B High R	White balance of bright red area	①
		W/B High B	White balance of bright blue area	① and ② repeatedly adjusted
		W/B Low R	White balance of dark red area	②
		W/B Low B	White balance of dark blue area	
		Gamma	**(S Curve / 2.0 / 2.2 / 2.5)**	
		Reset PC Settings	Press the OK button to reset to the default Picture settings	
Setup	**PC Setup**	Input Resolution	Switches to a wide view ● VGA (640 × 480 pixels), WVGA (852 × 480 pixels), XGA (1,024 × 768 pixels), WXGA (1,366 × 768 pixels) ● Options change depending on signals	
		Clock	Set to the minimum level if noise occurs	
		H-pos	Adjusts horizontal position	
		V-pos	Adjusts vertical position	
		Clock Phase	Eliminates flicker and distortion ● Adjust after Clock adjustment ● Set to the minimum level if noise occurs	
		Sync	PC sync signal type **(H & V / SOG)** ● H & V : Horizontal and Vertical sync from your PC (Most common sync format) SOG : Sync on Green sync from your PC	
		Reset PC Settings	Press the OK button to reset to the default Setup settings	

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● Other items ➡ p. 24 and p. 25

HDMI Functions

HDMI (high-definition multimedia interface) allows you to enjoy high-definition digital images and high-quality sound by connecting the TV and the equipment.
HDMI-compatible equipment (∗1) with an HDMI or DVI output terminal, such as a set top box or a DVD player, can be connected to the HDMI terminal using an HDMI compliant (fully wired) cable.
About connections, see "External Equipment" (p. 40).

Note
● HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
● Audio settings can be made on the "HDMI1 Input" menu screen. (p. 24)
● Applicable audio signal sampling frequencies (2ch L.PCM): 48 kHz, 44.1 kHz, 32 kHz
● HDMI2 terminal is for digital audio signal only.
● Use with a PC is not assumed.
● If the connected equipment has an aspect adjustment function, set the aspect ratio to "16:9".
● These HDMI connectors are "type A".
● These HDMI connectors are compatible with HDCP (High-Bandwidth Digital Content Protection) copyright protection.
● An equipment having no digital output terminal may be connected to the input terminal of either "COMPONENT", "S-VIDEO", or "VIDEO" to receive analogue signals.
● The HDMI input terminal can be used with only the following image signals:
  480i, 480p, 576i, 576p, 720p, 1080i and 1080p. Match the output setting of the digital equipment.
● For details of the applicable HDMI signals, see p. 44.
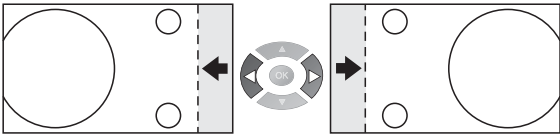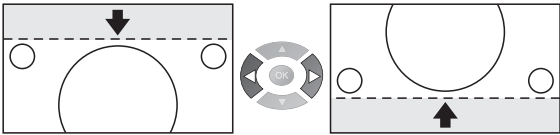
■ DVI connection
● If the external equipment has only a DVI output, connect to the HDMI1 terminal via a DVI to HDMI adapter cable (∗2).
● When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal (HDMI1: use AV2 IN AUDIO terminals).

■ DVI Position Settings
If the picture position is not fit to the screen during the DVI connection, adjust the position on "DVI Position Settings" in Setup Menu. The settings are memorized for each HDMI terminals and input signals.
● To make settings ➡ "How to Use Menu Functions" ❶ to ❹ (p. 22)

Menu	Item		Adjustments
Setup	DVI Position Settings	H-pos	Adjusts horizontal position
		V-pos	Adjusts vertical position
		Reset DVI Position Settings	Press the OK button to reset to the default Setup settings

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

● Displaying PC Screen on TV ● HDMI Functions

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VIERA Link "HDAVI Control™"∗

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

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

■ Summary of VIERA Link functions

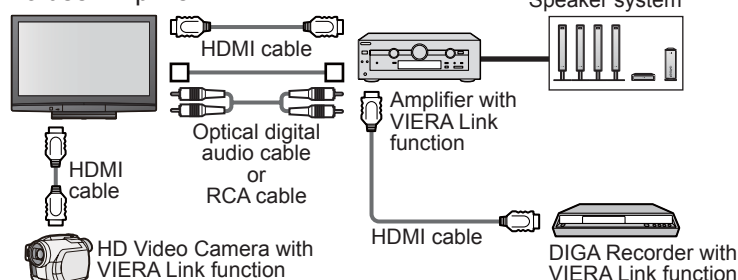| ● Easy playback	● Power on link	● Power off link	● Speaker control
● Control the menu of the connected equipment by VIERA remote control (Available with the equipment which has "HDAVI Control 2" or "HDAVI Control 3" function.)			
● Pause Live TV programme (Available with the equipment which has "HDAVI Control 3" function.)		● Direct TV Recording	

■ Connections
Read the manual of the equipment, too.
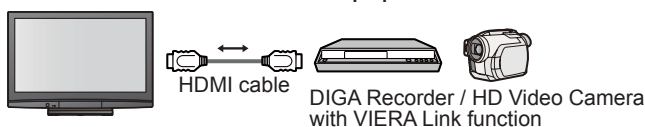
● HDMI cable
Use fully wired HDMI compliant cable.
Non-HDMI-compliant cables cannot be utilized.
Recommended Panasonic's HDMI cable part number:
• RP-CDHG10 (1.0 m)   • RP-CDHG30 (3.0 m)
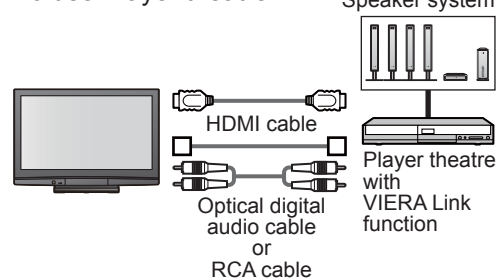• RP-CDHG15 (1.5 m)   • RP-CDHG50 (5.0 m)
• RP-CDHG20 (2.0 m)

HDMI cable

DIGA Recorder / HD Video Camera with VIERA Link function

● Connect the equipment supporting VIERA Link to the TV's HDMI1 or HDMI2 terminals via fully wired HDMI cables.

For Speaker control (Home Cinema)

● To use Amplifier

HDMI cable

Speaker system

Amplifier with VIERA Link function

Optical digital audio cable or RCA cable

HDMI cable

HD Video Camera with VIERA Link function

HDMI cable

DIGA Recorder with VIERA Link function

● To use Player theatre

Speaker system

HDMI cable

Optical digital audio cable or RCA cable

Player theatre with VIERA Link function

■ 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. 25)
● Set up the TV ➡ **After connection, turn the equipment on and then switch the TV on. Select the input mode to HDMI1 or HDMI2 (p. 20), and make sure that an image is displayed correctly.**
This setup should be done each time when the following conditions occur:
• for the first time / • when adding or reconnecting equipment / • when changing setup

■ Features available

Easy playback	Automatic Input switching - When the connected equipment is operated, input mode is switched automatically. When it is stopped operating, input mode is not returned.
Power on link	**Set Power on Link "Set" in Setup Menu to use this function** ➡ "Power on Link" (p. 22 - 23, 25) When the connected equipment starts playback or direct navigator / function menu for the equipment are activated, the TV is automatically turned on. (Only when TV is in Standby mode.)
Power off link	**Set Power off Link "Set" in Setup Menu to use this function** ➡ "Power off Link" (p. 22 - 23, 25) When TV is set to Standby mode, the connected equipment is also automatically set to Standby. ● This function will work even if the TV enters standby mode automatically by Off Timer function or auto power standby function.

● The TV remains on even if the "VIERA Link" compatible equipment is turned off.

You can pause the live TV programme and resume later.
● This function is available with DIGA Recorder which has HDD and "HDAVI Control 3" function.
● If you cannot operate, check the settings and the equipment ➡ "Preparations" (p. 36)
● Available conditions:
  • when watching TV programme
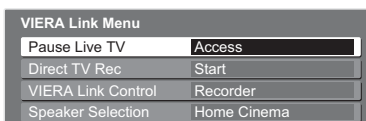 • when watching the input from DIGA Recorder

Access and pause the live TV programme

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

**Pause Live
TV**

① **Display "VIERA Link Menu"**

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

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

② pause
① select

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

■ **To resume** (stop pause)
Select "Pause Live TV"
and access
● About the operations after resuming, read the manual of the equipment.

② resume
① select

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

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

Recording the current programme in DIGA Recorder immediately.
● This function is available with DIGA Recorder which has "HDAVI Control 3" function.
● If you cannot operate, check the settings and the equipment ➡ "Preparations" (p. 36)
● Available conditions:
  • when watching TV programme
● The recording is performed by using the tuner of DIGA Recorder.
Changing programme, input mode or turning off the TV is available during the recording.

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

**Direct TV
Rec**

① **Display "VIERA Link Menu"**

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

VIERA Link Menu	
Pause Live TV	
Direct TV Rec	◄ Start
VIERA Link Control	Recorder
Speaker Selection	Home Cinema
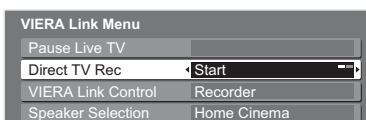
② start
① select

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

VIERA Link Menu	
Pause Live TV	
Direct TV Rec	◄ Stop
VIERA Link Control	Recorder
Speaker Selection	Home Cinema
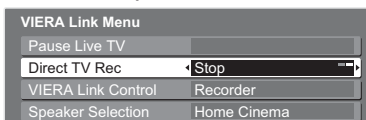
① select
② stop

● VIERA Link "HDAVI Control™"

Advanced

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VIERA Link "**HDAVI** Control™"

You can control some functions of the connected equipment with this TV remote control (point the remote control at the TV's signal receiver).
● This function is available with the equipment which has "HDAVI Control 2" or "HDAVI Control 3" function.
● If you cannot operate, check the settings and the equipment ➡ "Preparations" (p. 36)

Access and operate the menu of the equipment

① **Display "VIERA Link Menu"**

② **Select "VIERA Link Control"**

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

select

③ **Select the equipment you want to access**
● "Home Cinema" means Player theatre, Recorder theatre and Amplifier.

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

Recorder / Player / Home Cinema / Video Camera

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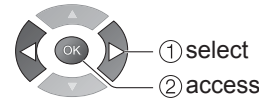
① select
② access

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

Control the menu of the connected equipment by VIERA remote control
(HDAVI Control 2)
(HDAVI Control 3)

VIERA Link Control

■ **If you access the invalid equipment**

When the equipment with "HDAVI Control" function is connected

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

Recorder / Player / Home Cinema / Video Camera

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

When the equipment of other types or manufacturers is connected

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

Others

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

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

◀ OK ▶ ▲▼	Move the cursor / select the menu
◀ OK ▶ ▲▼	Move the cursor / access / adjust
OK	Store / set / access
RETURN	Return to the previous menu
EXIT	Exit the menu
OPTION	Display the operation guide for the equipment / The same functions with the OPTION button of the equipment
R G Y B	Access when the key words are displayed on colour bar

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

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

You can control the theatre speaker with this TV remote control (point the remote control at the TV's signal receiver).
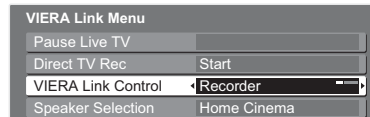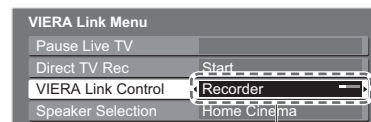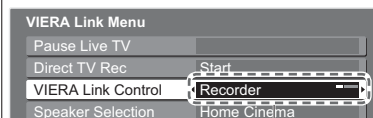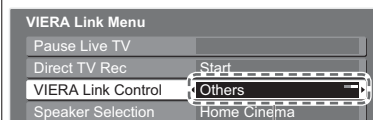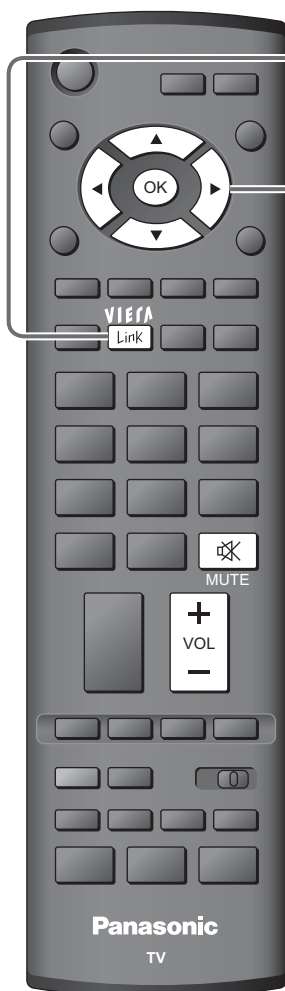● This function is available with the Amplifier or Player theatre which has "HDAVI Control" function.
● If you cannot operate, check the settings and the equipment ➡ "Preparations" (p. 36)

Access and control the speaker volume
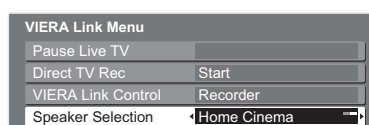
Speaker control

Speaker Selection

① **Display "VIERA Link Menu"**

② **Select "Speaker Selection"**

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

select

③ **Set to "Home Cinema" or "TV"**

set

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

● Volume up / down ➡ VOL

● Mute ➡ MUTE

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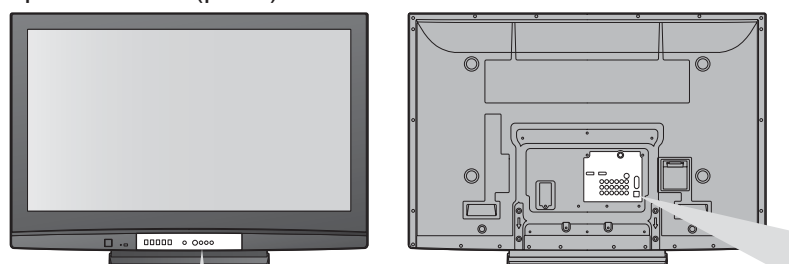● When the equipment is turned off, TV speakers will be active.

■ **TV**
TV speakers are active.

●VIERA Link "HDAVI Control™"

Advanced

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(**Note**)
● This function may not work properly depending on the connected equipment.
● Image or sound may not be available for the first few seconds when the playback starts.
● Image or sound may not be available for the first few seconds when Input mode is switched.
● Volume function will be displayed when adjusting the volume of the equipment.
● Easy playback is also available by using the remote control for Amplifier or Player theatre. Read the manual of the equipment.
● About HDMI cable for connecting Panasonic HD Video Camera, read the manual of the equipment.
● If more than one equipment of the same type are connected to the TV by HDMI cables, for example two DIGA Recorders to HDMI1 and HDMI2, VIERA Link will only be available for the lower terminal number, in this case HDMI1.
● "HDAVI Control 3" is the newest standard (current as of December, 2007) for HDAVI Control compatible equipment. This standard is compatible with conventional HDAVI equipment.
● To confirm this TV's version of HDAVI Control ➡ "System Information" (p. 25)

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. 48).

Camcorder / Game equipment

(VIDEO)
or
(S-VIDEO)

(AUDIO)

AUDIO

AV4 IN

S VIDEO   VIDEO   L — R

(M3 stereo mini plug)
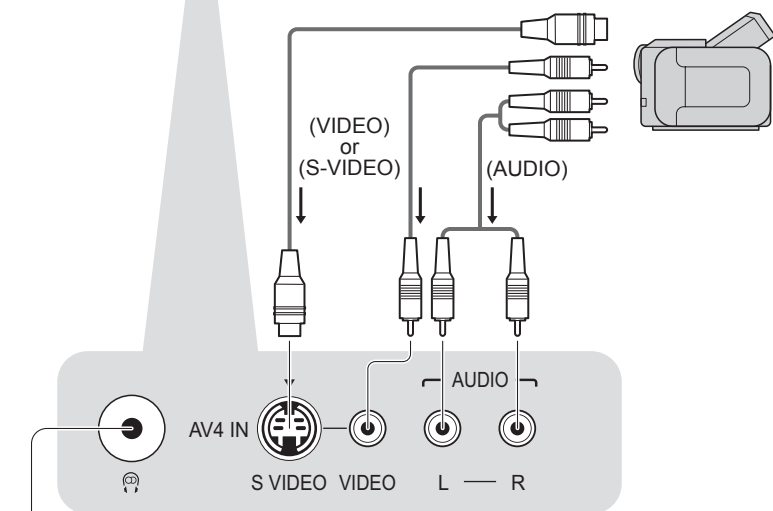
Headphones

■ **To adjust volume**
  ➡ "Headphone Volume" in the Sound Menu (p. 24)

To listen with speakers

or

Amplifier with speaker system
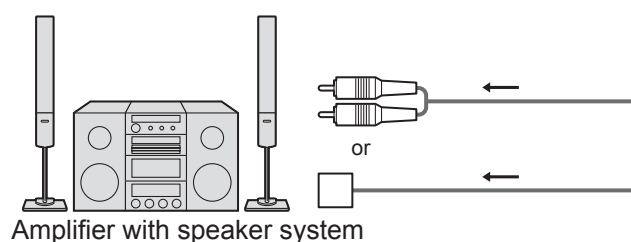
■Types of connectable equipment to each terminal

Terminal / Recording / Playback (equipment)	AV1 IN	AV2 IN	AV3 IN	AV4 IN (Front of TV)	
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					
VIERA Link					

40 ◯: Recommended Connection

To watch satellite broadcasts

Set top box

Fully wired HDMI compliant cable

HDMI equipment

DVD Recorder

Fully wired HDMI compliant cable

To record / playback

RF cable

or

DVD Recorder / VCR

HƏMI

AV IN

VIDEO
VIDEO
VIDEO
S VIDEO ▽

PC AUDIO via AV2

PC

(Listening)

PC

VIDEO

(Viewing)

Computer

Conversion adapter (if necessary)

VIDEO

L
AUDIO
R

L
AUDIO
R
Y
PB/CB
PR/CR
COMPONENT

L
AUDIO
R
Y
PB/CB
PR/CR
COMPONENT

L
AUDIO
R

MONITOR OUT

AV1 IN

AV2 IN

AV3 IN

DIGITAL AUDIO OUT

ANT

RCA cable

(Viewing)

To watch DVDs

DVD player

(Listening)

Optical digital audio cable

MONITOR OUT	DIGITAL AUDIO OUT	HƏMI	
VIDEO / L AUDIO R		1	2
○			
		○	○
		○	○
		○	○
○	○		
		○	○

S VIDEO 4 pin terminal

Chrominance in   Luminance in

Chrominance earth   Luminance earth

HDMI terminal

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

● Connect the S VIDEO or VIDEO terminal when using AV3 / AV4 IN terminals.
● Connect the COMPONENT or VIDEO terminal when using AV1 / AV2 IN terminals.

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Technical Information

Programme Allocation (Analogue mode)

CH Display / Receive Programme	CH Display / Receive Programme	CH Display / Receive Programme
CH 0 ⌇ CH 5	S 6 ⌇ S 10	CH 10 ⌇ CH 12
S 2 ⌇ S 5	CH 6 ⌇ CH 9	S 11 ⌇ S 44
CH 5A	CH 9A	CH 20 ⌇ CH 75

Rating (DVB mode)

Rating	Meaning	Rating	Meaning
-	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		

Updating the software system (DVB mode)

Update system software regularly to ensure that you have latest version software.
If there is an update available, a notification banner is displayed when the service has the update information.
- To download new software, press "OK" ➡ Downloading (approx. 20 mins.)
  If you choose not to download, press "EXIT".

■ **To update automatically**
   Set "Auto Update Search in Standby" to "On" (p. 27)
   If there is a new version software being broadcast, the TV will download this automatically.
- The automatic updating sequence is carried out at 3:00 AM and 5:00 AM every morning under the following conditions.
  Standby (TV turned Off with the remote control)
  Recording is not in progress.

■ **To update manually**
   Perform "System Update Search Now" (p. 27)
   If there is an update available, a notification banner is displayed.
- To download new software, press "OK" ➡ Downloading (approx. 20 mins.)
  If you choose not to download, press "EXIT".

Note
- During downloading, do not turn Off the TV or touch any buttons.
  (The TV is automatically activated after downloading is completed.)
- When the TV is switched to standby, there will be a clicking sound after a short delay. Similar clicking sounds will also occur at 3:00 AM and 5:00 AM when "Auto update Search in Standby" (p. 27) is set to "On". These sounds are normal.

Stereo / Bilingual Sound Selection (Analogue mode)

When you receive the stereo / bilingual sound system, sound output modes can be selected by "MPX" in the Sound Menu (p. 24).

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	⊂⊃ ⟷ ▽

Note
- 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.
- DUAL, also known as DUAL MONO or as BILINGUAL is not currently transmitted in some countries.

Technical Information

PC connection

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

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

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

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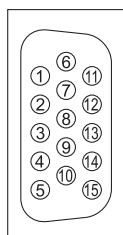
Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
①	R	⑥	GND (Ground)	⑪	NC (not connected)
②	G	⑦	GND (Ground)	⑫	NC (not connected)
③	B	⑧	GND (Ground)	⑬	HD
④	NC (not connected)	⑨	NC (not connected)	⑭	VD
⑤	GND (Ground)	⑩	GND (Ground)	⑮	NC (not connected)

Input signal that can be displayed

COMPONENT (Y, P_B/C_B, P_R/C_R), HDMI

∗ Mark: Applicable input signal

Signal name	COMPONENT	HDMI
480i (60 Hz)	∗	∗
480p (60 Hz)	∗	∗
576i (50 Hz)	∗	∗
576p (50 Hz)	∗	∗
720p (60 Hz)	∗	∗
720p (50 Hz)	∗	∗
1,080i (60 Hz)	∗	∗
1,080i (50 Hz)	∗	∗
1,080p (60 Hz)		∗
1,080p (50 Hz)		∗
1,080p (24 Hz)		∗

PC (D-sub 15P)

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

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

FAQs

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

White spots or shadow images (noise)
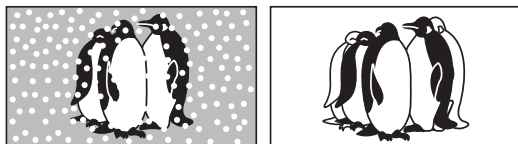
- Check the position, direction, and connection of the aerial.

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.

An error message appears

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

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

- Confirm the connection.
- Turn the connected equipment on and then switch the TV on. (p. 36)
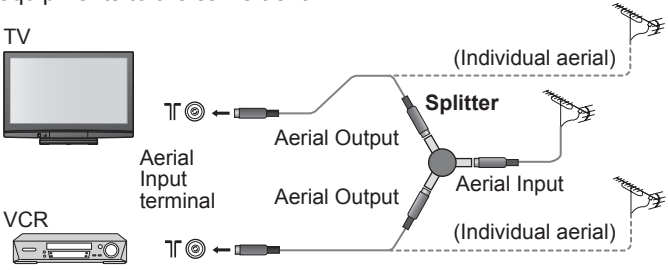
Contrast is reduced

- Contrast is lowered in the following conditions without any user operation for a few minutes:
  - no signal in DVB or AV mode
  - selected invalid programme
  - selected radio service
  - displayed menu

Pixel Statement

- 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/subpixel failures that still allow the panel to be defi ned as a good panel. It is not possible to guarantee absolutely no pixel loss.

Problem		Actions
Screen	**Chaotic image, noisy**	• Set "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 programme. (p. 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. 32), then select "Home" in "Auto Tuning" (p. 12).
Sound	**No sound is produced**	• Is "Sound mute" active? (p. 11) • Is the volume set to the minimum?
	Sound level is low or sound is distorted	• Sound signal reception may be deteriorated. • Set "MPX" (p. 24) in the Sound Menu to "Mono".

FAQs

Problem		Actions

HDMI

Sound is unusual ▶
- Set the sound setting of the connected equipment to "2ch L.PCM".
- Check the "HDMI1 Input" setting in the Sound Menu. (p. 24)
- If digital sound connection has a problem, select analogue sound connection. (p. 35)

Pictures from external equipment are unusual when the equipment is connected via HDMI ▶
- Is the HDMI cable connected properly? (p. 40)
- Turn Off the TV and equipment, then turn them On again.
- Check an input signal from the equipment. (p. 44)
- Use an equipment compliant with EIA/CEA-861/861B.

DVB

- Digital TV reception technology requires high quality, robust DTV signals which in some domestic aerial installations, may be relatively poor despite good analogue reception.

Aerial connection when using DTV and VCR / DVD Recorder ▶
- To maintain optimum signal quality from TV aerial, use a TV aerial splitter (as illustrated) when connecting two or more equipments to the same aerial.

TV

(Individual aerial)

Splitter

Aerial Output

Aerial Input terminal

Aerial Output

Aerial Input

VCR

(Individual aerial)

After DVB Auto Tuning only some or no DVB services are found ▶
- Check to ensure your area is covered by DVB transmissions. (www.dba.org.au/)
- Check that the aerial and antenna cable are designed for DVB. For your safety, the aerial and cable should be inspected / installed by a licenced installer that should comply with Australian Standard AS1417.1.
  Note: If you live within 5-10 Km of DVB transmission towers, a combined VHF / UHF 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 DVB-T reception. Please consult your body corporate. (www.dba.org.au/)

Picture regularly breaks up on some programmes, or "No Signal" message ▶
- Check "Signal Display". (p. 31)
  If "Signal Quality" or "Signal Strength" are displayed in red or constantly changing, check aerial.
  If problem persists consult your local TV aerial installer.
- Check that the aerial and antenna cable are designed for DVB. For your safety, the aerial and cable should be inspected / installed by a licenced installer that should comply with Australian Standard AS1417.1.
- Interference (known as impulse noise) from household appliances such as light switches, fridges etc may cause picture break up and / or audio distortion. Use high quality quad shielded coaxial cable fly lead between TV and antenna wall socket to minimise impulse noise pickup. If problem persists consult your local TV aerial installer.
- When "No Signal" message is displayed check TV aerial connection.
- The received signal may be too weak to allow the TV to reliably lock to the desired "No Signal" programme to generate a stable picture. Repeat the tuning procedure (p. 31). If problem persists consult your local TV aerial installer.

Picture very infrequently breaks up on some or all programmes ▶
- Electrical atmospheric interference caused by local or distant lighting storms or heavy rain with wind in "leafy" locations may cause pictures to break up and audio to mute or distort momentarily.
- Impulse noise interference from an infrequently used electrical appliance, or a passing vehicle or lawn mower with a "noisy" ignition system.

Problem		Actions
TV takes so long to turn on	▶	● Like your computer, the TV has to run a number of diagnostic and software checks before it can display any programmes.
The programme cannot be changed	▶	● Is the TV in Teletext mode? (p. 18)
The programme cannot be selected	▶	● Is the programme skipped? (p. 29)
TV goes into "Standby mode"	▶	● Off Timer function is activated. ● The TV enters "Standby mode" about 30 mins. after analogue broadcasting ends.
The remote control does not work	▶	● Are the batteries installed correctly? (p. 6) ● Has the TV been switched On?

(left vertical label: Other)

Licence

● DVB is a trademark of the DVB Digital Video Broadcasting Project (1991 to 1996).

● VGA is a trademark of International Business Machines Corporation.

● Macintosh is a registered trademark of Apple Inc., USA.

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● HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

● HDAVI Control™ is a trademark of Matsushita Electric Industrial Co., Ltd.

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DVB®
Digital **V**ideo **B**roadcasting

Trade Mark of the DVB Digital Video Broadcasting Project (1991 to 1996)
TH-42PX8A Declaration of Conformity No. 5217, 10 December 2007

Specifications

		TH-42PX8A
Power Consumption	**Power Source**	AC 220-240 V, 50 / 60 Hz
	Power rating	335 W
	Standby condition	0.7 W
Display panel	**Aspect Ratio**	16:9
	Visible screen size	106 cm (diagonal) 922 mm (W) × 518 mm (H)
	Number of pixels	786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots]
Sound	**Speaker**	Full range × 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, XGA SXGA ⋯⋯ (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** Playback of NTSC tape from some PAL Video recorders (VCR) **M.NTSC** Playback from M. NTSC Video recorders (VCR) **NTSC** 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]
		VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)
		COMPONENT	Y P$_B$/C$_B$, P$_R$/C$_R$	1.0 V[p-p] (including synchronization) ±0.35 V[p-p]
	AV2 Input	**AUDIO L - R**	RCA PIN Type × 2	0.5 V[rms]
		VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)
		COMPONENT	Y P$_B$/C$_B$, P$_R$/C$_R$	1.0 V[p-p] (including synchronization) ±0.35 V[p-p]
	AV3 Input	**AUDIO L - R**	RCA PIN Type × 2	0.5 V[rms]
		VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)
		S VIDEO	Mini DIN 4-pin	Y:1.0 V[p-p] (75 Ω) C:0.286 V[p-p] (75 Ω)
	AV4 Input	**AUDIO L - R**	RCA PIN Type × 2	0.5 V[rms]
		VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)
		S VIDEO	Mini DIN 4-pin	Y:1.0 V[p-p] (75 Ω) C:0.286 V[p-p] (75 Ω)
	Monitor Output	**AUDIO L - R**	RCA PIN Type × 2	0.5 V[rms] (high impedance)
		VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)
	Others	**HDMI1 / 2 Input**	TYPE A Connectors	● This TV supports "HDAVI Control 3" function.
		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) (PC AUDIO via AV2 Input Audio L-R)
		DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber optic	
		Card slot	SD Card slot × 1 (Factory use)	

Dimensions (W × H × D)	1,020 mm × 727 mm × 327 mm (With Pedestal) 1,020 mm × 679 mm × 92.5 mm (TV only)
Mass	28.0 kg Net (With Pedestal) 26.0 kg Net (TV only)

Note

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

WARRANTY - Australia only

1. The product is warranted for 12 months from the date of purchase. Subject to the conditions of this warranty Panasonic or it's 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), 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) Video or Audio Tapes
    (b) Video or Audio Heads and Stylii resulting from wear and tear in normal use
    (c) Shaver Heads or Cutters
    (d) Cabinet Parts
    (e) User replaceable Batteries
    (f) Thermal Paper, Toner/Ink Cartridges, Drums, Developer, Film (Ink/Ribbon), Film Cartridge, Printer Heads
    (g) Microwave Oven cook plates.
    (h) Kneader mounting shaft unit (bread bakery)

5. 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.
    • Note that home or pick-up/delivery service is available for the following products in the major metropolitan areas of Australia or the normal operating areas of the nearest Authorised Service Centres:

    (a) Picture tube (CRT) based Television Receivers (screen sizes greater than 66cm); Rear Projection TV's; Plasma/LCD televisions / displays (screen size greater than 103 cm)
    (b) Convection/Combination Microwave Ovens
    (c) Whiteboard (except portable type)

6. 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.

November 2005

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 visit the Panasonic Australia 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
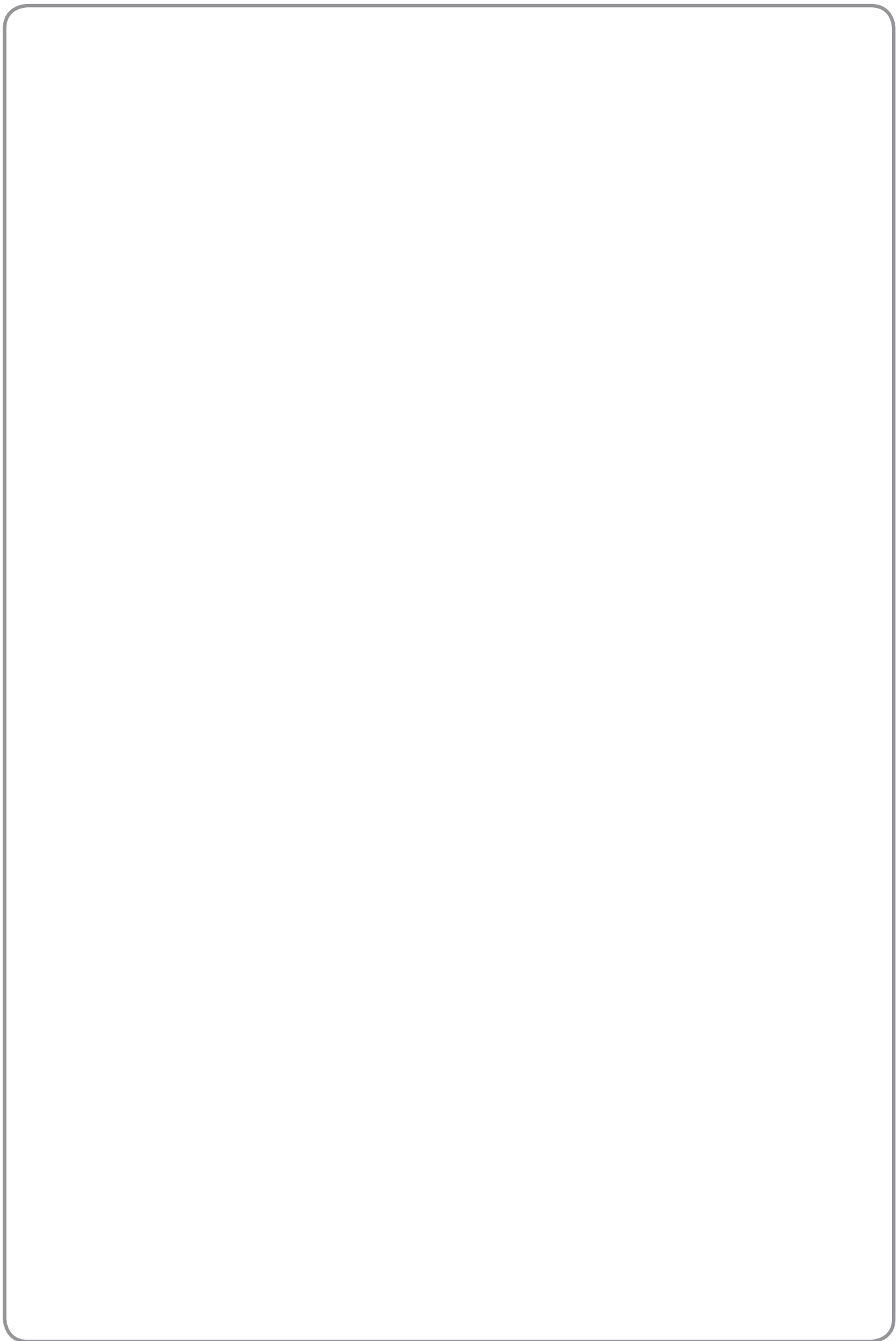ACN 001 592 187   ABN 83 001 592 187

Locked Bag 505, Frenchs Forest, NSW 2086
www.panasonic.com.au

PRO-031-F01 Issue: 3.0   23-11-2005

MEMO

Customer's Record

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

Model Number _____ Serial Number _____

Matsushita Electric Industrial Co., Ltd.

Web Site : http://panasonic.net/

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