WARRANTY - Australia only

- 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.
- 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.
- . This warranty does not cover the following items unless the fault or defect existed at the time of purchase
- (a) Video or Audio Tapes (d) Cabinet Parts (b) Video or Audio Heads and Stylii resulting
 - (e) User replaceable Batteries
- (g) Microwave Oven cook plates. (h) Kneader mounting shaft unit
- (f) Thermal Paper, Toner/Ink Cartridges Drums, Developer, Film (Ink/Ribbon),
- (bread bakery)

- (c) Shaver Heads or Cutters
- Film Cartridge, Printer Heads
- 5. If warranty service is required you should:

from wear and tear in normal use

- 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
- (b) Convection/Combination Microwave Ovens
- (c) Whiteboard (except portable type)
- televisions / displays (screen size greater than 103 cm)
- 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 November 2005 herein shall restrict or modify such rights, remedies, obligations or liabilities.

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

PRO-031-F01 Issue: 3.0

23-11-2005

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/

© 2007 Matsushita Electric Industrial Co., Ltd. All Rights Reserved.

Panasonic

Operating Instructions Plasma Television

Model No TH-42PX7A















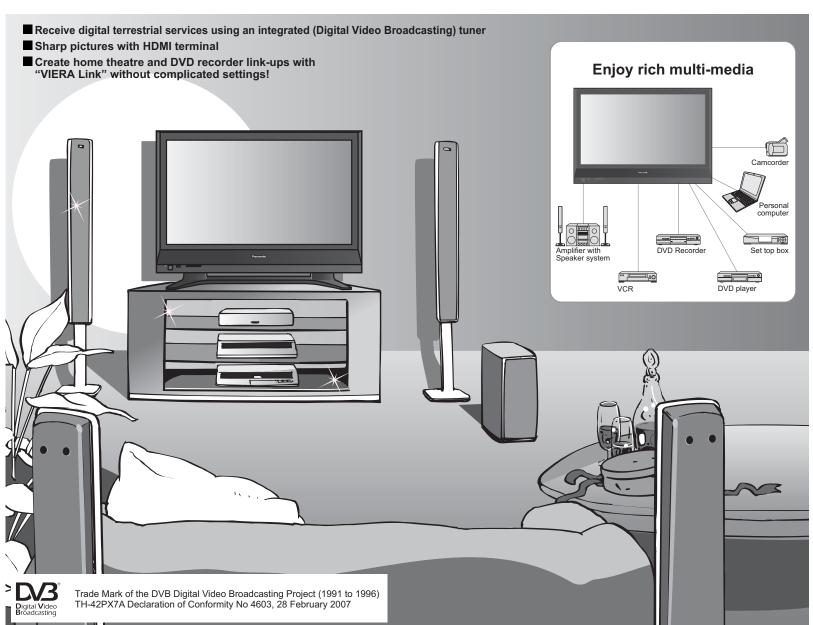
English

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

Printed in China

TQBC2197

Experience an amazing level of multi- media excitement



	_		_		-	-	_	_
Be	Su	ıre	to	F	Сe	a	d	

Safety Precautions
(Warning / Caution)
● Notes 5
Maintenance

Quick Start Guide

Quion otali ouldo
●Accessories / Options ·········
●Identifying Controls ······
Basic Connection
•Auto Tuning·····

Enjoy your TV!

Basic Features

Watching TV······10
Using TV Guide······12
■ Watching Videos and DVDs······1
Viewing Teletext ······ 16

Advanced Features

How to Use Menu Functions	18
(picture, sound quality, etc.)	
DVB Settings (DVB)	22
Editing and Setting Channels	24
Restore Settings	26
Input Labels ······	27
Displaying PC Screen on TV······	28
HDMI Functions	29
VIERA Link "HDAVI Control™"············	30
External Equipment	32

FAQs, etc.

Technical Information 34	
FAQs 37	
Licence39	
Specifications39	
WARRANTY40	

Safety Precautions

Warning

Handling the mains plug and lead

- Insert the mains plug fully into the socket outlet. (If the mains plug is loose, it could generate heat and cause fire.)
- Ensure that the mains plug is easily accessible.
- Ensure the grounding pin on the mains plug is securely connected to prevent electrical shock.
- 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.



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 let metal or flammable objects 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 stands / mounting equipment

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

Caution

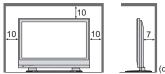
■When cleaning the TV, remove the mains plug

(Cleaning an energized TV may cause electrical shock.)

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

- This TV will still consume some power even in the Off mode, as long as the mains plug is still connected to a live socket outlet.
- Transport only in upright position
- Transporting the TV with its display panel facing upright or downward may cause damage to the internal circuitry.
- Allow sufficient space around the TV for radiated heat

Minimum distance



Do not block the rear air vents

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



Notes

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

- Channel 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. 37)

■ 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 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 by 100 times of water. Then, using a soft dry cloth, evenly wipe the surface clean until it is dry.

Caution

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

Cabinet

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

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

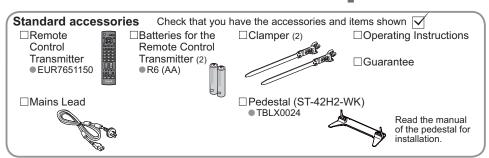
Caution

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

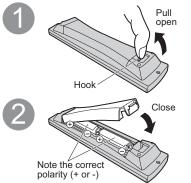
Mains plug

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

Accessories / Options



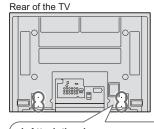
Installing remote's batteries



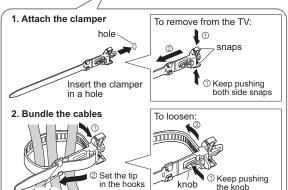
Caution

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

Using the clamper



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



Optional accessories



Wall-hanging bracket (vertical)

TY-WK42PV3W



(angle)

TY-WK42PR2W

TY-WK42PR3W

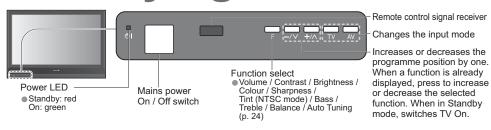


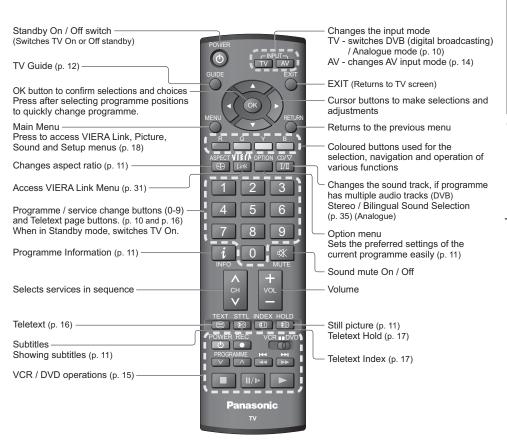
Caution

Pedestal

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

Identifying Controls





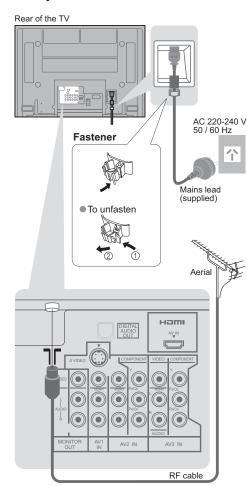
Basic Connection

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

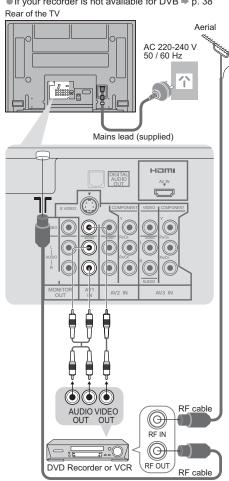
TV only



Example 2 Connecting DVD Recorder / VCR

TV. DVD Recorder or VCR

• If your recorder is not available for DVB ⇒ p. 38



- Do not put the RF cable close to the mains lead to avoid noise.
- Do not place the RF cable under the TV.
- lacktriangle 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.

Auto Tuning

Search and store TV channels automatically.

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



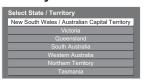
Plug the TV into mains socket and switch On (Takes a few seconds to be displayed)



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



Select your state







Start Auto Tuning





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



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



- To edit channels
- ⇒ Editing and Setting Channels (p. 24) If tuning has failed
- → "Auto Tuning" (p. 24).
- 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.



Displays

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

■ How to use remote control

Open the main menu



Move the cursor / select the menu



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



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



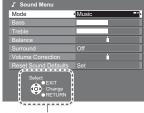
Return to the previous menu



Exit the menu system and return to the normal viewing screen

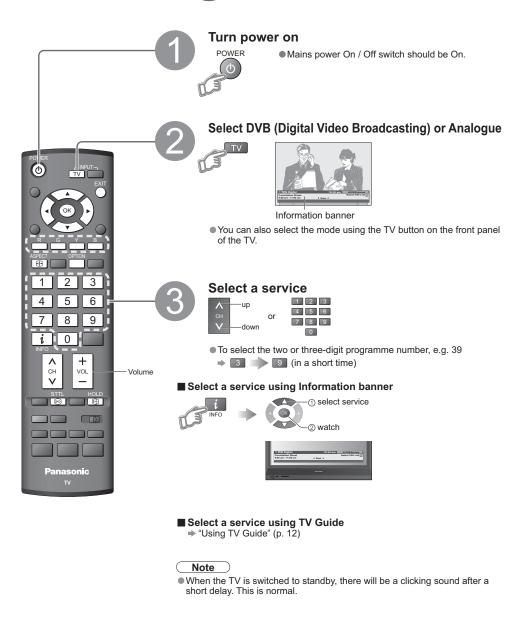
■ ON SCREEN HELP Instructions box

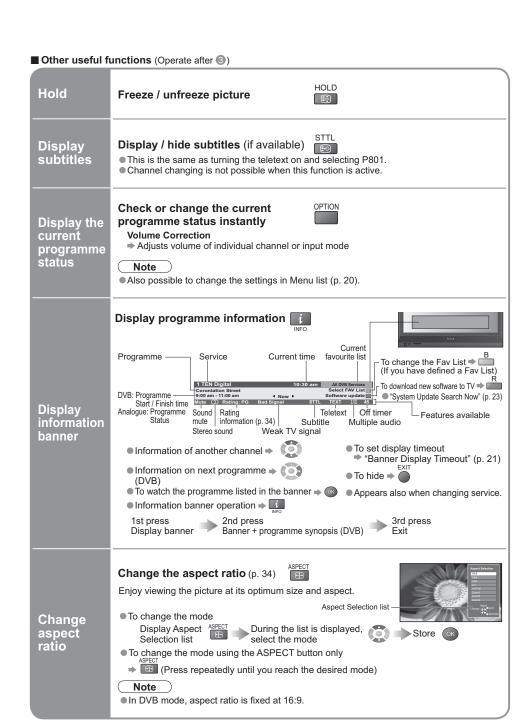
(example: Sound Menu)



On-screen operation quide will help you.

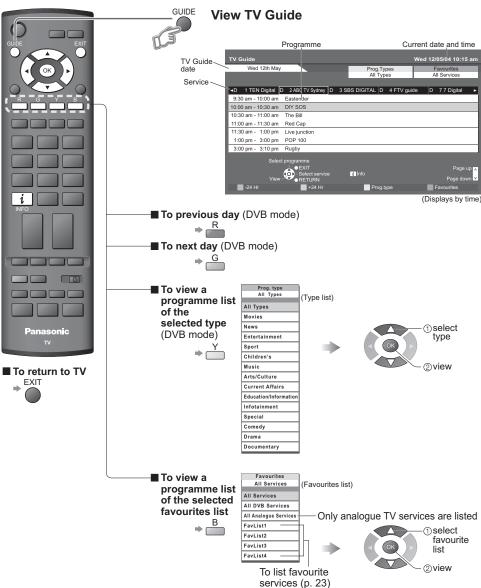
Watching TV



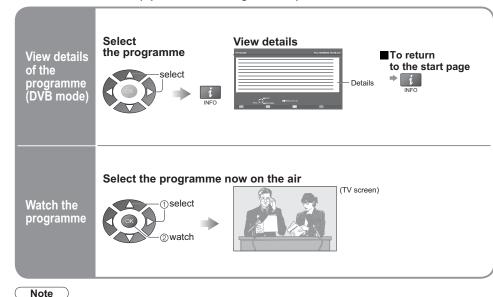


Using TV Guide

TV Guide—Electronic Programme Guide (EPG) provides an on-screen listing of programmes currently broadcast and future broadcasts over the next seven days (depending on the broadcaster). Analogue broadcasts will be listed after DVB broadcasts. "D" means DVB channel and "A" means Analogue channel.



■ Other useful functions (Operate after viewing TV Guide)

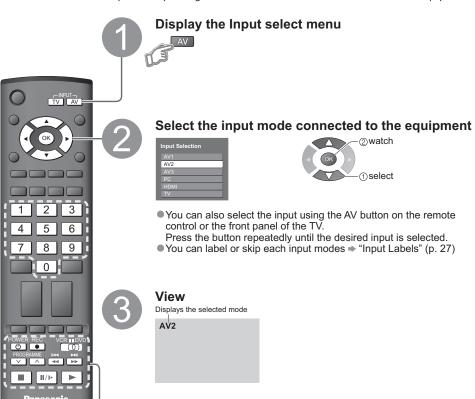


• When this TV is turned on for the first time, or the TV is switched off for more than a week, it may take some time before the TV Guide is completely shown.

Watching Videos and DVDs

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

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



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
144	Rewind / Skip / Search VCR: Rewind, view the picture rapidly in reverse DVD: Skip to the previous track or title Press and hold to search backward
₩	Fast-forward / Skip / Search VCR: Fast-forward, view the picture rapidly forward DVD: Skip to the next track or title Press and hold to search forward
II/Þ	Pause Pause / Restart 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 → Press to be controlled, see table below 7 8 9

"VCR" position Equipment Code VCR 10 (default) DVD 11

DVD" position	
Equipment	Code
DVD	70 (default)
Player home theatre	71
•	

Note

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

■ To return to TV ⇒ TV

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 quide.

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

Available page up / down ⇒ R G

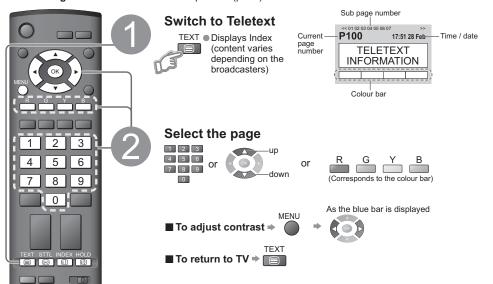
To select among subject blocks ⇒ B

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

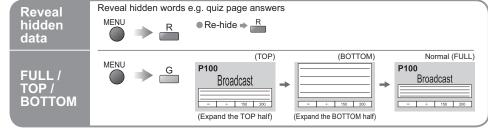
What is List mode?

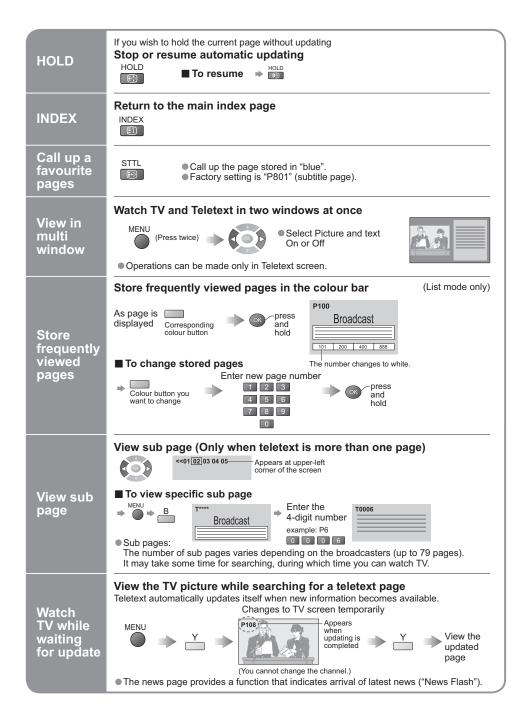
In List mode, four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory. ("Store frequently viewed pages", p. 17)

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



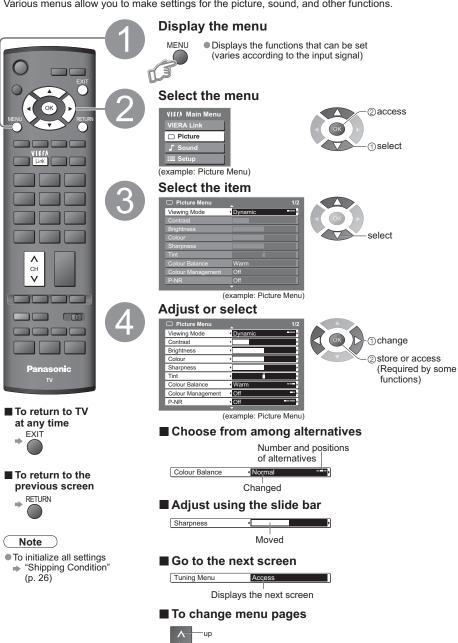
■ Using teletext conveniently



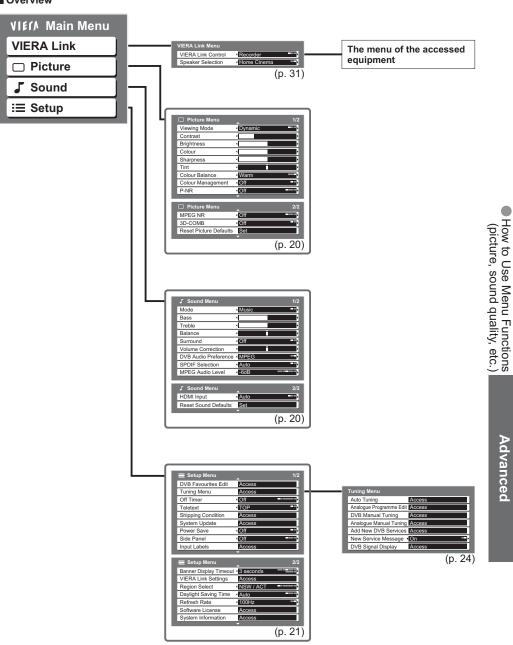


How to Use Menu Functions

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







How to Use Menu Functions

■ Menu list

■ IVIE	nu list	
Menu	Item	Adjustments / Configurations (alternatives)
VIERA Lin	VIERA Link Control	Controls the connected Panasonic equipment "Easy control only with VIERA remote control" (p. 31) "Speaker control" (p. 31)
Link	Speaker Selection	You can also access VIERA Link Menu directly using the VIERA Link button on the remote control.
	Viewing Mode	Basic picture mode (Dynamic / Normal / Cinema) ■ Set for each input signal
	Contrast, Brightness, Colour, Sharpness	Adjusts colour, brightness, etc. for each picture mode to suit your taste
	Tint	Adjusts tint of image ● For NTSC signal reception only
	Colour Balance	Chooses the colour balance of the entire image (Cool / Normal / Warm)
Pict	Colour Management	Automatically adjusts colours to vivid ones (Off / On) ■ Not valid on PC signal
ure	P-NR	Picture Noise Reduction Automatically reduces unwanted picture noise (Off / Normal / Dynamic / Auto) Not valid on HDMI, PC signal or DVB
	MPEG NR	Automatically reduces noise for watching DTV, DVD and VCD (Off / Min / Mid / Max)
	3D-COMB	Automatically makes still pictures and slow pictures look more vivid (Off / On) For PAL or NTSC signal reception only Not valid on S-Video, components, PC and HDMI Cannot be used with DVB
	Reset Picture Defaults	Press the OK button to reset the present Picture Mode to the default settings
	Mode	Basic sound mode (Music / Speech)
	Bass	Adjusts the output level of deep bass
	Treble	Adjusts the output level of high-pitch, shrill sound
	Balance	Adjusts volume level of right and left speakers
	Surround	Surround sound settings (Off / On)
	Volume Correction	Adjusts volume of individual channel or input mode
Sound	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 Audio Level	Normally, MPEG sound is larger than Dolby Digital one You can adjust the audio level of MPEG as the initial setting OdB to -12dB in -2dB reductions DVB mode only
	HDMI Input	Select to fit the input signal (Auto / Digital / Analogue) (p. 29) Auto : Automatic detection of digital or analogue sound source Digital : HDMI cable connection Analogue : HDMI-DVI adapter cable connection HDMI input mode only
	Reset Sound Defaults	Press the OK button to reset the present Sound Mode to the default settings

■ Menu list

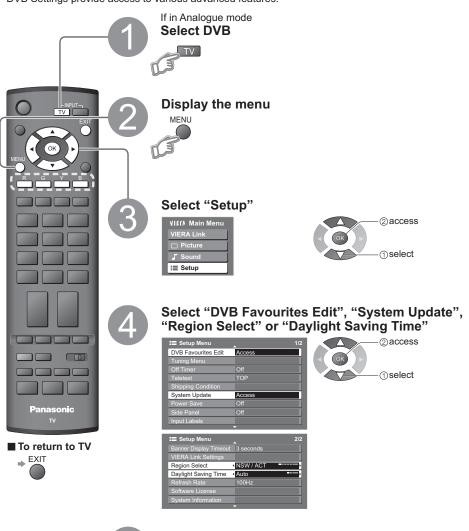
Menu		Item	Adjustments / Configurations (alternatives)	
	DVB Favourites Edit		Creates list of favourite programmes (p. 23)	
	Tuning Menu	Auto Tuning	Automatically sets the channels received in the area (p. 24)	
		Analogue Programme Edit	Edits analogue channels (p. 25)	
		DVB Manual Tuning	Sets the DVB channels manually (p. 25)	
		Analogue Manual Tuning	Sets the analogue channels manually (p. 25)	
		Add New DVB Services	Adds new DVB services (p. 25)	
		New Service Message	Selects whether to give a notification message when a new DVB service is found (p. 25)	
		DVB Signal Display	Checks the DVB signal condition (p. 25)	
	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. 16)	
	Sh	ipping Condition	Resets all settings, for example, when moving house (p. 26)	
40	Sy	stem Update	Downloads new software to TV (p. 23)	
Set	Power Save		Reduces brightness of picture to economise on power consumption (Off / On)	
qu	Side Panel		Increases the brightness of the side panel (Off / Low / Mid / High) The recommended setting is "High" to prevent panel "image retention"	
	Input Labels		Labels or skips each input terminals (p. 27)	
	Banner Display Timeout		Sets how long the information banner (p. 11) stays on screen O (No display) to 10 sec. in 1-sec. increments	
	VIERA	VIERA Link	Sets to use VIERA Link functions (Off / On) (p. 30)	
	VIERA Link Settings	Power off Link	Set to "Set" to use Power off Link function (No / Set) (p. 31)	
	ttings	Power on Link	Set to "Set" to use Power on Link function (No / Set) (p. 31)	
	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. 23)	
	Daylight Saving Time		Select time offset from the standard time for Summer Time (Auto / Off / +1/2 Hr / +1 Hr) (p. 23) 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 diff	eren	d while PC or DVI to HDMI adapter cable is used. (p. 28 and p. 29)		

A different menu will be displayed while PC or DVI to HDMI adapter cable is used. (p. 28 and p. 29)

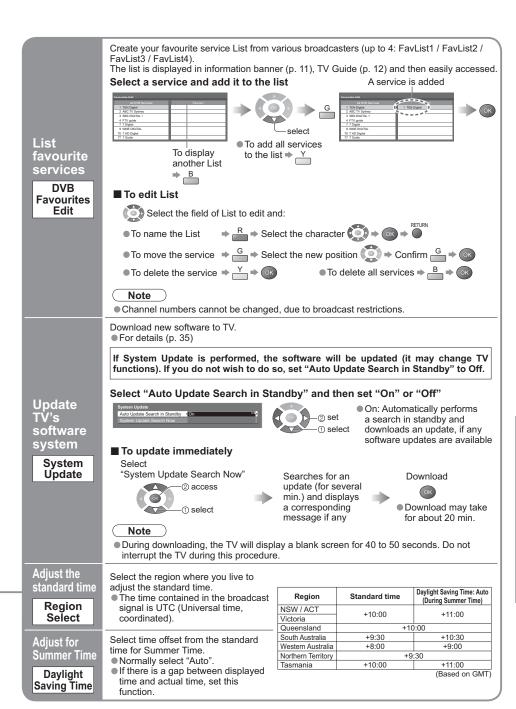
Only available items can be selected.

DVB Settings (DVB mode)

DVB Settings provide access to various advanced features.



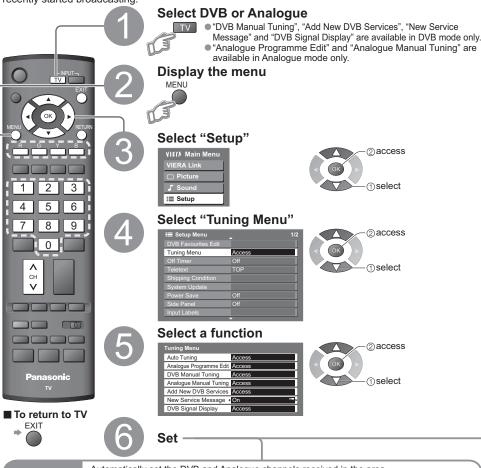


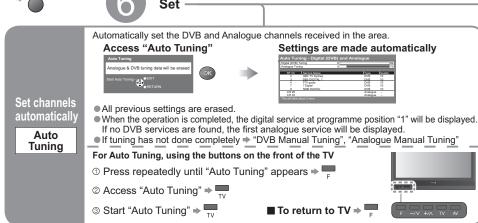


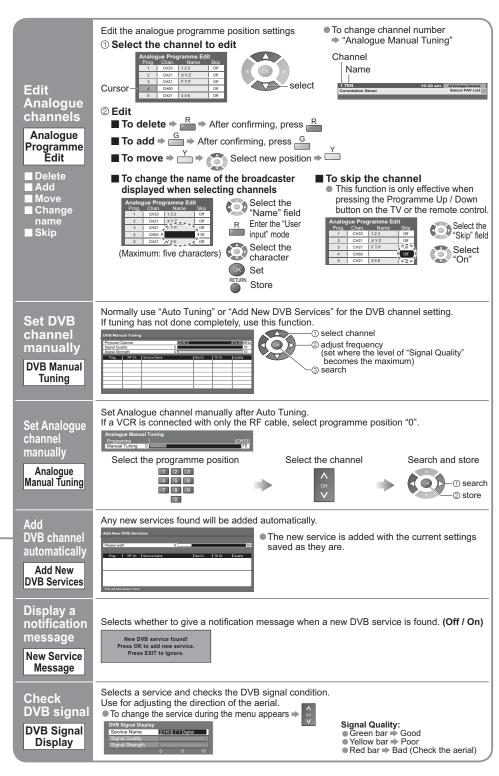
__

Editing and Setting Channels

The current channel settings can be changed according to your needs and reception conditions. You can re-tune all TV channels when moving house or search for new services which may have recently started broadcasting.

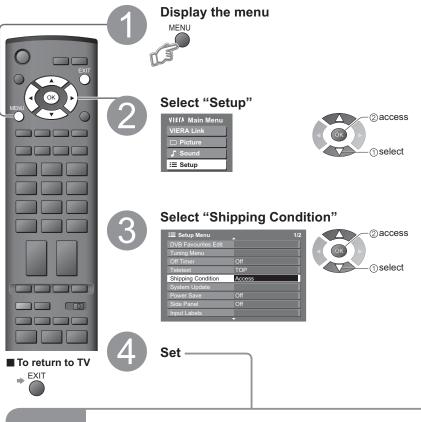


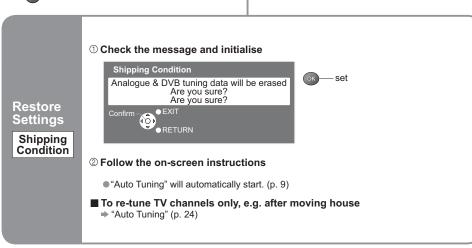




Restore Settings

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

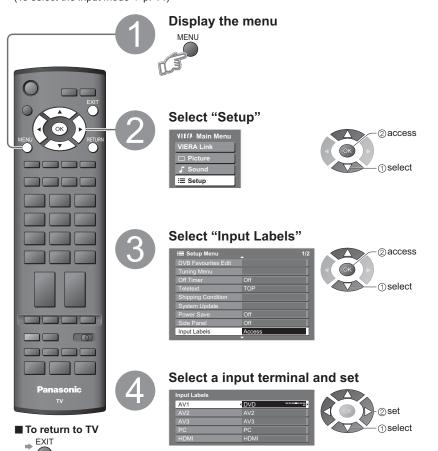




Input Labels

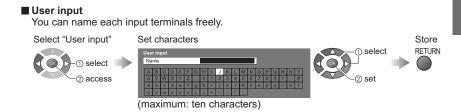
For easier identification and selection of the input mode, you can label each input terminals or skip terminal that is not connected to any equipment.

(To select the input mode ⇒ p. 14)



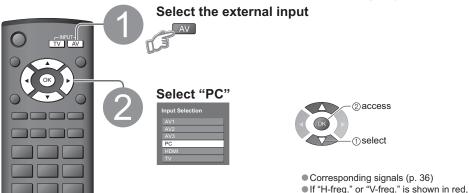
The labels you set will be displayed in "Input Selection" menu (p. 14) or banner.

If "Skip" is selected, you cannot select the mode.



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. 32)



- To return to TV
- ⇒ TV
- PC menu setting (changed as desired)
- To make settings ⇒ "How to Use Menu Functions" 1 to 4 (p. 18)

Vlenu	Item		Adjustments / Configurations (options)
	Advanced PC	W/B High R	White balance of bright red area
		W/B High B	
ö		W/B Low R	White balance of bright blue area White balance of dark red area White balance of dark red area ① and ② repeatedly adjusted ②
Picture		W/B Low B	White balance of dark blue area
Te	Settings	Gamma	(2.0 / 2.2 / 2.5 / S Curve)
		Reset PC Settings	Press the OK button to reset to the default settings
		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
Setup		H-pos	Adjusts horizontal position
	PC Setup	V-pos	Adjusts vertical position
		Clock Phase	Eliminates flicker and distortion Adjust after Clock adjustment Set to the minimum level if noise occurs
			Sync
		Reset PC Settings	Press the OK button to reset to the default settings

the signals may not be supported.

Other items ⇒ p. 20 and p. 21

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. 32).

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 "HDMI Input" menu screen. (p. 20)
- Applicable audio signal sampling frequencies (2ch L.PCM): 48 kHz, 44.1 kHz, 32 kHz
- Use with a PC is not assumed.
- If the connected equipment has an aspect adjustment function, set the aspect ratio to "16:9".
- This HDMI connector is "type A".
- This HDMI connector is 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. 36.

■ DVI connection

If the external equipment has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adapter cable (*2) When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal (use AUDIO IN 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" 1 to 4 (p. 18)

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

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

VIERA Link "HDAVI Control™"*

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

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

The equipment with "HDAVI Control" function enables the following operations:

- Easy playback (p. 31)
- Power on Link (p. 31)
- Power off Link (p. 31)
- Speaker control (p. 31)

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

Easy control only with VIERA remote control (p. 31)

These features are limited to models incorporating Panasonic's "HDAVI Control" and "VIERA Link". 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.

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

■ HDMI cable

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

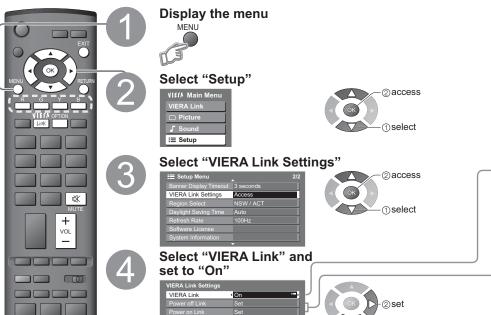
- RP-CDHG15 (1.5 m)
- RP-CDHG30 (3.0 m)
- RP-CDHG50 (5.0 m)

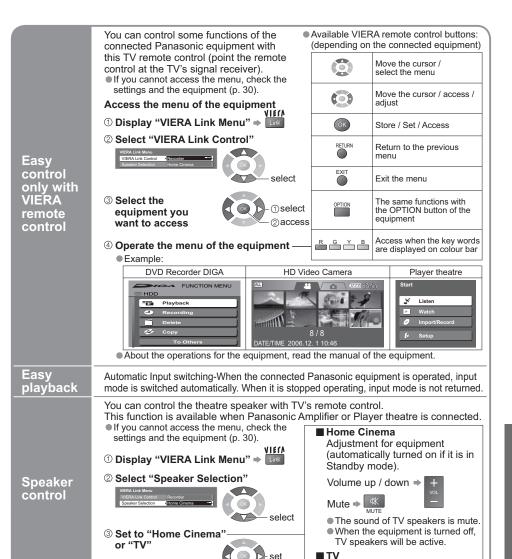
■ Preparations

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

About connections, see "External Equipment" (p. 32), Read the manuals of the equipment too.

■ For the first time / When adding new equipment, reconnecting equipment or changing setup After connection turn the equipment on and then switch the TV on. Select the input mode to HDMI (p. 14), and make sure that an image is displayed correctly.





Power on Link Set to "Set"

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

TV speakers are active.

Power off Link

- Set to "Set"
- → When TV is set to Standby mode, the connected Panasonic equipment is also automatically set to Standby
- This function will work even if the TV enters standby mode automatically by Off Timer function or auto power standby function.

Osolost

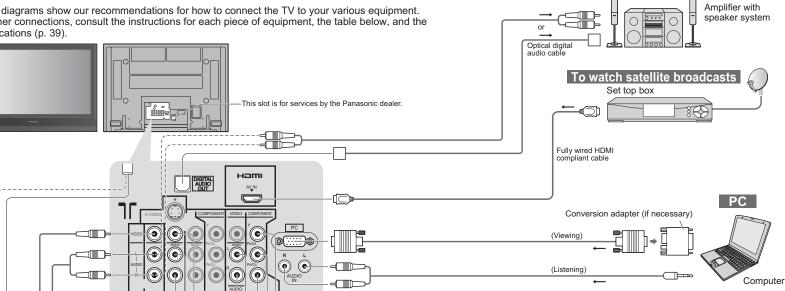
[•] The TV remains on even if the "VIERA Link" compatible equipment is turned off.

Speaker system

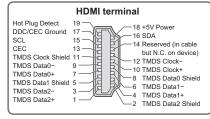
Speaker system



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



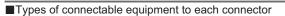
S VIDEO 4 pin terminal Chrominance in Luminance in Chrominance earth Luminance earth



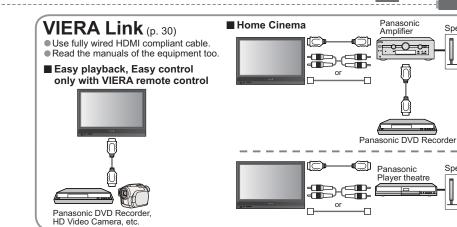
- Connect the S-VIDEO or VIDEO terminal when using AV1 IN terminals.
- Connect the COMPONENT or VIDEO terminal when using AV2 / AV3 IN terminals.

To record / playback

DVD Recorder / VCR



Connector Recording / Playback (equipment)	AV1 IN (a) (b)	AV2 IN •••••••••••••••••••••••••••••••••••	AV3 IN ••• •••	MONITOR OUT © ©	DIGITAL AUDIO OUT	Hami
■To record / playback videocassettes / DVDs (VCR / DVD recorder)	0	0	0	0		
■To watch DVDs (DVD player)	0	0	0			0
■To watch camcorder images (Video camera)	0	0	0			0
■To watch satellite broadcasts (Set top box)	0	0	0			0
■To play games (Game equipment)	0	0	0			
■To use amplifier with speaker system				0	0	
■VIERA Link						0



DVD player

(Listening)

To listen with speakers

Technical Information

Channel Allocation (Analogue mode)

		/
CH Display / Receive Channel	CH Display / Receive Channel	CH Display / Receive Channel
CH 0	S _. 6	CH 10
CH 5	S 10	CH 12
S 2	CH 6	S 11
S 5	CH 9	S 44
CH 5A	CH9A	CH 20
		CH 75

Rating (DVB mode)

Rating	Meaning	Rating	Meaning
-	Not classified	M	Mature
Р	Pre school	MA 15+	Mature Adult 15+
С	Children	AV 15+	Adult strong Violence 15+
G	General	R	Restricted 18+
PG	Parental Guidance recommended		

Aspect Ratio

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

_		Aspect modes							
Sign	al name	16:9	14:9	Just	4:3	4:3 Full	Zoom1	Zoom2	Zoom3
\ V	PAL	0	0	0	0	_	0	0	0
TVIAV1/AV2/AV3	PAL 525/60	0	0	0	0	_	0	0	0
፟	DVB-T	0	_	_	_	_	_	_	_
1214	M.NTSC	0	0	0	0	_	0	0	0
\$	NTSC	0	0	0	0	_	0	0	0
	480i (60 Hz)	0	0	0	0	_	0	0	0
0	480p (60 Hz)	0	0	0	0	_	0	0	0
ě	576i (50 Hz)	0	0	0	0	_	0	0	0
Component/HDMI	576p (50 Hz)	0	0	0	0	_	0	0	0
Š	720p (50 Hz)	0	0	0	0	0	0	0	0
me	720p (60 Hz)	0	0	0	0	0	0	0	0
Ì	1,080i (50 Hz)	0	0	0	0	0	0	0	0
Š	1,080i (60 Hz)	0	0	0	0	0	0	0	0
_	1,080p (50 Hz)	0	0	0	0	0	0	0	0
	1,080p (60 Hz)	0	0	0	0	0	0	0	0
PC i	nput	0	_	_	0	_	_	_	_

Note

- The ratio varies depending on the programme, etc. If the ratio is greater than the standard "16:9", black bands may appear at the top and bottom of the screen.
- If the screen size looks unusual when a widescreen-recorded programme is played back on a VCR, adjust the tracking of the VCR. (See the VCR manual.)
- To select the ratio manually: (Only "16:9" or "4:3" in PC mode)



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



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



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



Displays the image at the standard "4:3" without distortion.



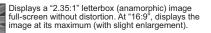
Displays a "4:3" image enlarged horizontally to fit the screen.



Displays a
"16:9" letterbox or
"4:3" image without
distortion.



Displays a
"16:9" letterbox
(anamorphic) image
full-screen without



Updating the software system

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

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

■ To download new software, press "OK" ⇒ Downloading (approx. 20 min.)

If you choose not to download, press "EXIT".

■ To update automatically

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

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

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

■To update manually

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

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

■ To download new software, press "OK" → Downloading (approx. 20 min.)

If you choose not to download, press "EXIT".

Note

During downloading, do not turn Off the TV or touch any button.
 (The TV is automatically activated after downloading is completed.)

VIERA Link "HDAVI Control™"

HDMI connections to some Panasonic equipment allow you to interface them automatically. (p. 30)

- This function may not work normally depending on the equipment condition.
- Image or sound may not be available for the first few seconds when the playback starts.
- Image or sound may not be available for the first few seconds when Input mode is switched.
- Volume function will be displayed when adjusting the volume of the equipment.
- If you connect the equipment that has "HDAVI Control 2" function to the TV with HDMI cable, the sound from DIGITAL AUDIO OUT terminal can be output as multi channel surround.
- Easy playback is also available by using the remote control for Amplifier or Player theatre. Read the manuals of the equipment.
- "HDAVI Control 2" is the newest standard (current as of February, 2007) for Panasonic's HDAVI Control compatible equipment. This standard is compatible with Panasonic's conventional HDAVI equipment.

Stereo / Bilingual Sound Selection (Analogue mode)

©/♥ When you receive the stereo / bilingual sound system, sound output modes can be selected by pressing the stereo / Bilingual Sound Selection button.

Audio Signal	STEREO	MAIN I	SUB I	MONO
Mode Indicator	0	I	п	∇

NICAMUsed 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 $\longrightarrow \nabla$	$I \leftrightarrow \nabla$	$\odot \longrightarrow \triangledown$	ı → I

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 $\longrightarrow \nabla$	I II	\bigcirc \leftarrow \triangledown

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, using the stereo / bilingual sound selection button.
- 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.

- 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

(5 4 3 2 1)
10 9 8 7 6
(15 (14 (13 (12 (11)

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	В	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, PB/CB, PR/CR), HDMI

* Mark: Applicable input signal

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

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

FAQs

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

White spots or shadow images (noise)





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

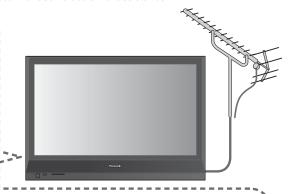
Neither image nor sound is produced

- Is the TV in "AV mode"?
- Is the mains lead plugged into the socket
- Is the TV turned On?
- Check Picture Menu (p. 20) and volume.

An error message appears

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

is connected via HDMI



Permanently lit spots on screen

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

Contrast is reduced

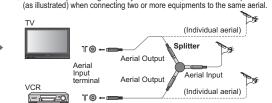
Contrast is lowered when the following conditions without any user operation for a few minutes:

Use an equipment compliant with EIA/CEA-861/861B.

- no signal in DVB or AV mode
- selected invalid channel
- selected radio channel
- displayed menu

``					
	Problem		Actions		
Screen	Chaotic image, noisy	>	Set "P-NR" in the Picture Menu (to remove noise). (p. 20) Check nearby electrical products (car, motorcycle, fluorescent lamp).		
	No image can be displayed	>	• Is "Colour" or "Contrast" in the Picture Menu set to the minimum? (p. 20)		
	Blurry or distorted image (no sound or low volume)	>	Reset channels. (p. 24)		
	Unusual image is displayed	>	Turn off the TV with Mains power On / Off switch, then turn it on again.		
Sound	No sound is produced	>	Is "Sound mute" active? (p. 7) Is the volume set to the minimum?		
	Sound level is low or sound is distorted		Sound signal reception may be deteriorated.		
HDMI	Sound is unusual	>	 Set the sound setting of the connected equipment to "2ch L.PCM". Check the "HDMI Input" setting in the Sound Menu. (p. 20) If digital sound connection has a problem, select analogue sound connection. (p. 29) 		
	Pictures from external equipment are unusual when the equipment		 Is the HDMI cable connected properly? (p. 32) Turn Off the TV and equipment, then turn them On again. Check an input signal from the equipment. (p. 36) 		

Aerial connection when using DTV and VCR / DVD Recorder



To maintain optimum signal quality from TV aerial, use a TV aerial splitter

After DVB Auto Tuning only some or no DVB channels are found

DVB

 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 channels, or "No Signal" message Check "Signal Display". (p. 25)
 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.

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" channel to generate a stable picture. Repeat the tuning procedure (p. 24). If problem persists consult your local TV aerial installer.

Picture very infrequently breaks up on some or all channels

 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.

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 broadcast channels.

The channel cannot be changed

Is the TV in Teletext mode? (p. 16)

The channel cannot be selected

Is the channel locked? (p. 25)

TV goes into "Standby mode"

Off Timer function is activated.

The TV enters "Standby mode" about 30 min. after broadcasting ends.

The remote control does not work

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

Licence

Trademark Credits

- 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 Computer, USA.
- S-VGA is a registered trademark of the Video Electronics Standard Association.
- Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.

 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.
- Manufactured under license from Dolby Laboratories.

Dolby and the double-D symbol are trademarks of Dolby Laboratories.

Specifications

	er Sour	ce	AC 220-240 V, 50 / 6	60 Hz	
Power Consumption	Averag	je use	350 W		
nption	Standb	y condition	0.7 W		
Display panel	Aspect	t Ratio	16:9		
	Visible screen size 106 cm (diagonal) 922 mm (W) × 518 n 786,432 (1,024 (W) × 518 n 786,432 (W) × 518 n 78				
			922 mm (W) × 518 mm (H) 786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots]		
Sound	Speake		120 mm × 60 mm × 2 pcs, 8 Ω		
ᇗ	Audio	Output	20 W (10 W + 10 W), 10% THD	
PC signals Receiving Systems / Band name			VGA, SVGA, XGA SXGA (compressed) Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz PAL B/G Reception of Off air broadcasts DVB-T 7 MHz VHF / UHF (Australia) free-to-air TV broadcast reception		
		systems /	PAL 60 Hz Playb	pack of NTSC tape from some PAL Video recorders (VCR) pack from M. NTSC Video recorders (VCR) pack from NTSC Video recorders (VCR)	
Aerial - Rear Standard Belling & Lee conne		Standard Belling & L	ee connector		
Operating Conditions		onditions	Temperature: 0 °C - 35 °C Humidity: 20 % - 80 % RH (non-condensing)		
Ö	AV1 Input	AUDIO L - R	RCA PIN Type × 2	0.5 V[rms]	
ĕ		VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)	
ĕ		S VIDEO	Mini DIN 4-pin	Y:1.0 V[p-p] (75 Ω) C:0.286 V[p-p] (75 Ω)	
Ë	AV2	AUDIO L - R VIDEO	RCA PIN Type × 2 RCA PIN Type × 1	0.5 V[rms] 1.0 V[p-p] (75 Ω)	
Connection Terminals	Input	COMPONENT	Y PB/CB. PR/CR	1.0 V[p-p] (including synchronization) ±0.35 V[p-p]	
₫.		AUDIO L - R	RCA PIN Type × 2	0.5 V[rms]	
na	AV3	VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)	
S	Input	COMPONENT	Y P _B /C _B , P _R /C _R	1.0 V[p-p] (including synchronization) ±0.35 V[p-p]	
		AUDIO L - R	RCA PIN Type × 2	0.5 V[rms] (high impedance)	
	Output	VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)	
	Others PC	HDMI Input	TYPE A Connector	This TV supports "HDAVI Control 2" function.	
		PC Input	HIGH-DENSITY D-S	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)	
		Audio Input	RCA PIN Type × 2	0.5 V[rms]	
		DIGITAL AUDIO OUT			
Dimensions (W × H × D)		(W × H × D)	1,020 mm × 750 mm × 320 mm (With Pedestal) 1,020 mm × 705 mm × 95 mm (TV only)		
Mass			29.0 kg Net (With Pedestal) 27.0 kg Net (TV only)		

Note

Licence SpecificationsFrequently Asked Questions

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