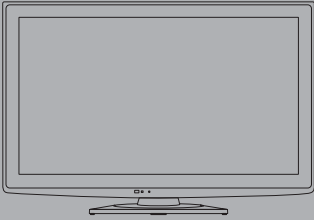


Panasonic®

Model No.

TX-L32S20E TX-L32S20ES
TX-L37S20E TX-L37S20ES
TX-L42S20E

Operating Instructions LCD Television



For more detailed instructions, refer to the **Operating Instructions on the CD-ROM**. To view the **Operating Instructions on the CD-ROM**, you need a computer equipped with a CD-ROM drive, and **Adobe® Reader® (Version 7.0 or later is recommended)** installed on your computer.

Depending on the operating system or settings on your computer, the Operating Instructions may not start automatically. In this case, open the PDF file under the "MANUAL" folder manually to view the instructions.

VIERA

Contents

Be Sure to Read

- Safety Precautions (Warning / Caution) 2
- Maintenance 3

Quick Start Guide

- Accessories / Options 4
- Identifying Controls 6
- Basic Connection 8
- Auto Setup 10
- How to Use VIERA TOOLS 12
- How to Use Menu Functions 13



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

English



TQB0E0912U-G

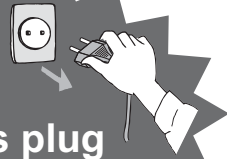
Safety Precautions

Warning

Handling the mains plug and lead

- Insert the mains plug fully in to the socket outlet. (If the mains plug is loose, it could generate heat and cause fire.)
- Ensure that the mains plug is easily accessible.
- Do not touch the mains plug with a wet hand. This may cause an electrical shock.
- Do not damage the mains lead, damaged lead may cause fire or electrical shock.
 - Do not move the TV with the lead plugged in to a 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 on to the mains plug body when disconnecting the plug.
 - Do not use a damaged mains plug or socket outlet.
 - Ensure TV does not crush the mains lead.

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



AC 220-240V
50Hz



Power source

- This TV is designed to operate on 220-240V 50Hz AC.

Do not remove covers and NEVER modify the TV yourself

- High voltage components may cause serious electrical shock, do not remove the rear cover as live parts are accessible when it is removed.
- There are no user serviceable parts inside.
- Have the TV checked, adjusted or repaired at your local Panasonic dealer.

Do not expose to rain or excessive moisture

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

Do not expose the TV set to direct sunlight and other sources of heat

- Avoid exposing the TV to direct sunlight and other sources of heat.

To prevent the spread of fire, keep candles or other open flames away from this product at all times



Do not place foreign objects inside the TV

- Do not allow any objects to drop into the TV through the air vents as fire or electric shock may result.

Do not place TV on unstable surfaces

- The TV may fall or tip over.

Use only original dedicated pedestal / 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 the set up or installation.
- Use approved pedestals / wall-hanging brackets (p. 4 – 5).

Do not allow children to handle SD Card or dangerous parts

- As with any small object the SD card could be swallowed by young children. Please remove SD card immediately after use and store out of reach of children.
- This product contains possibly dangerous parts that can be breathed in or swallowed by young children accidentally. Keep these parts out of reach of young children.

Caution

■ When cleaning the TV remove the mains plug

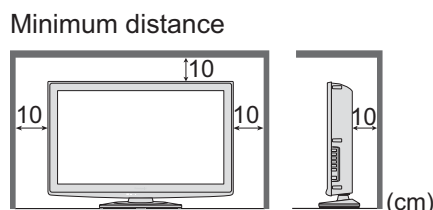
- Cleaning an energized TV may cause electric shock.

■ Remove the mains plug from the wall socket when TV is not in use for a prolonged period of time

- The TV will still consume some power even in the off mode, as long as the mains plug is still connected.
- Remove the mains plug from the wall socket before connecting or disconnecting leads.

■ Do Not block the rear air vents

- Adequate ventilation is essential to prevent failure of electronic components.
- Ventilation should not be impeded by covering the ventilation openings with items such as newspapers, table cloths and curtains.
- We recommend that a gap of at least 10 cm is left all around this television receiver even when placed inside a cabinet or between shelves.
- When using the pedestal, keep the space between the bottom of the TV and the surface where the TV is set.
- If pedestal is not used, ensure the vents in the bottom of the TV set are not blocked.



■ Do not apply strong force or impact to the display panel

- This may cause damage resulting in injury.

■ Do not expose your ears to excessive volume from the headphones

- Irreversible damage can be caused.

■ Auto power standby function

- If no signal is received and no operation is performed in analogue TV mode for 30 minutes, the TV will automatically go to standby mode.

■ Transport TV set in upright position

Maintenance

First, remove the mains plug from the socket outlet.

Display panel, Cabinet, Pedestal

Regular care:

Gently wipe the surface of the display panel, cabinet, or pedestal by using a soft cloth to clean the dirt or fingerprints.

For stubborn dirt:

Dampen a soft cloth with clean water or diluted neutral detergent (1 part detergent to 100 parts water). Then wring the cloth and wipe the surface. Finally, wipe away all the moisture.

Caution

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

Mains plug

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

Accessories / Options

Standard accessories

Check that you have the accessories and items shown

- Remote Control
 - N2QAYB000487

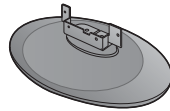


- Batteries for the Remote Control (2)
 - R6 (UM3)

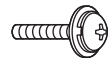


- Operating Instructions
- Pan European Guarantee Card

- Pedestal (p. 5)



- Assembly screw for Pedestal (4)

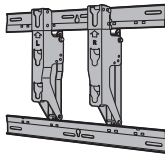


M4

Optional accessories

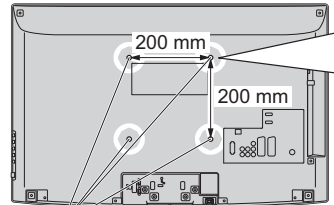
Wall-hanging bracket

- TY-WK3L2RW



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

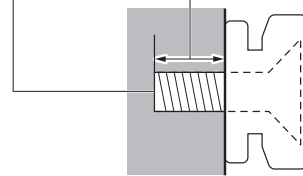
Rear of the TV



Holes for wall-hanging bracket installation

Screw for fixing the TV onto the wall-hanging bracket (not supplied with the TV)

Depth of screw:
minimum 9 mm, maximum 12 mm



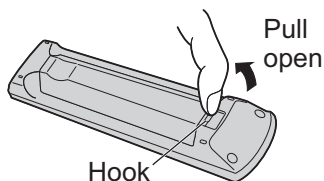
(View from the side)

WARNING!

- Failure to use a Panasonic bracket or choosing to mount the unit yourself will be done at the risk of the consumer. Always be sure to ask a qualified technician to carry out set up. Incorrect fitting may cause equipment to fall, resulting in injury and product damage. Any damage resulting from not having a professional installer mount your unit will void your warranty.
- When any optional accessories or wall hanging brackets are used, always ensure that the instructions provided are followed fully.
- Do not mount the unit directly below ceiling lights (such as spotlights or halogen lights) which typically give off high heat. Doing so may warp or damage plastic cabinet parts.
- Take care when fixing wall brackets to the wall. Wall mounted equipment shall not be grounded by metal within the wall. Always ensure that there are no electrical cables or pipes in the wall before hanging bracket.
- To prevent fall and injury, remove TV from its fixed wall position when no longer in use.

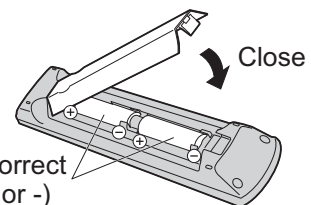
Installing / removing remote's batteries

1



Hook

2



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.
- Replace only with same or equivalent type. Do not mix different battery types (such as alkaline and manganese batteries).
- Do not use rechargeable (Ni-Cd) batteries.
- Do not burn or break up batteries.
- Do not expose batteries to excessive heat such as sunshine, fire or the like.
- Make sure you dispose of batteries correctly.
- Ensure batteries are replaced correctly, there is danger of explosion and fire if battery is reversed.

Attaching the pedestal

Warning

Do not disassemble or modify the pedestal.

- Otherwise the TV may fall over and become damaged, and personal injury may result.

Caution

Do not use any other TV and displays.

- Otherwise the TV may fall over and become damaged, and personal injury may result.

Do not use the pedestal if it becomes warped or physically damaged.

- If you use the pedestal while it is physically damaged, personal injury may result. Contact your nearest Panasonic dealer immediately.

During assembly, use only screws supplied and make sure that all screws are securely tightened.

- If sufficient care is not taken to ensure screws are properly tightened during assembly, the pedestal will not be strong enough to support the TV. It might fall over and become damaged and personal injury may result.

Ensure that the TV does not fall over.

- If the TV is knocked or children climb onto the pedestal with the TV installed, the TV may fall over and personal injury may result.

Two or more people are required to install and remove TV.

- If two or more people are not present, the TV may be dropped, and personal injury may result.

Ⓐ Assembly screw (4)

- XSS4+16FNK



Ⓑ Assembly screw (4)

- XYN4+F12FJK



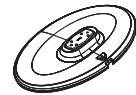
Ⓒ Bracket (1)

- TUX0E197 (TX-L32S20E) (TX-L32S20ES)
- TUX0E198 (TX-L37S20E) (TX-L37S20ES)
- TUX0EA007 (TX-L42S20E)



Ⓓ Base (1)

- TBL0E0104 (TX-L32S20E)
- TBL0E0105 (TX-L37S20E)
- TBL0E0106 (TX-L42S20E)
- TBL0E0117 (TX-L32S20ES)
- TBL0E0118 (TX-L37S20ES)

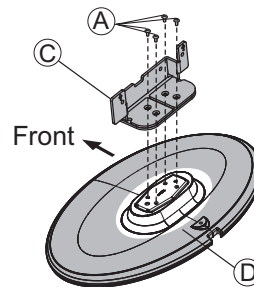


■ Assembling the pedestal

Use the four assembly screws Ⓐ to fasten the bracket

Ⓒ to the base securely.

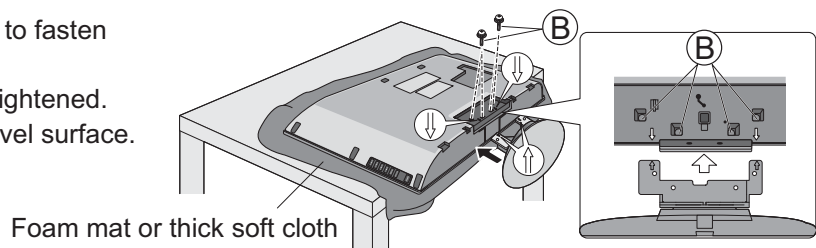
- Make sure that the screws are securely tightened.



■ Securing the TV

Use only the supplied assembly screws Ⓑ to fasten securely.

- Make sure that the screws are securely tightened.
- Carry out the work on a horizontal and level surface.



Identifying Controls

Remote Control

Media Player

- Switches to SD Card viewing mode (VIERA IMAGE VIEWER)

Standby On / Off switch

- Switches TV On or Off standby

Main Menu

- Press to access Picture, Sound and Setup Menus

Aspect

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

Channel / Programme Information

- Displays channel and programme information

VIERA Link Menu

- Accesses VIERA Link Menu

OK

- Confirms selections and choices
- Press after selecting channel positions to quickly change channel
- Displays the Channel List

Option Menu

- Easy setting for viewing and sound options

Coloured buttons

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

Teletext

- Switches to teletext mode

Subtitles

- Displays subtitles

Numeric buttons

- Changes channel and teletext pages
- Sets characters
- When in Standby mode, switches TV On (Press for about 1 second)

Sound Mute

- Switches sound mute On or Off

Volume Up / Down

Input mode selection

- TV - switches DVB-C / DVB-T / Analogue mode
- AV - switches to AV input mode from Input Selection list

Direct TV Recording

- Records programme immediately in DVD Recorder / VCR with Q-Link or VIERA Link connection

Normalise

- Resets picture and sound settings to their default levels

Exit

- Returns to the normal viewing screen

VIERA TOOLS

- Displays some special feature icons and accesses easily

TV Guide

- Displays TV Guide

Cursor buttons

- Makes selections and adjustments

Return

- Returns to the previous menu / page

Hold

- Freeze / unfreeze picture
- Holds the current teletext page (teletext mode)

Index

- Returns to the teletext index page (teletext mode)

Last view

- Switches to previously viewed channel or input mode

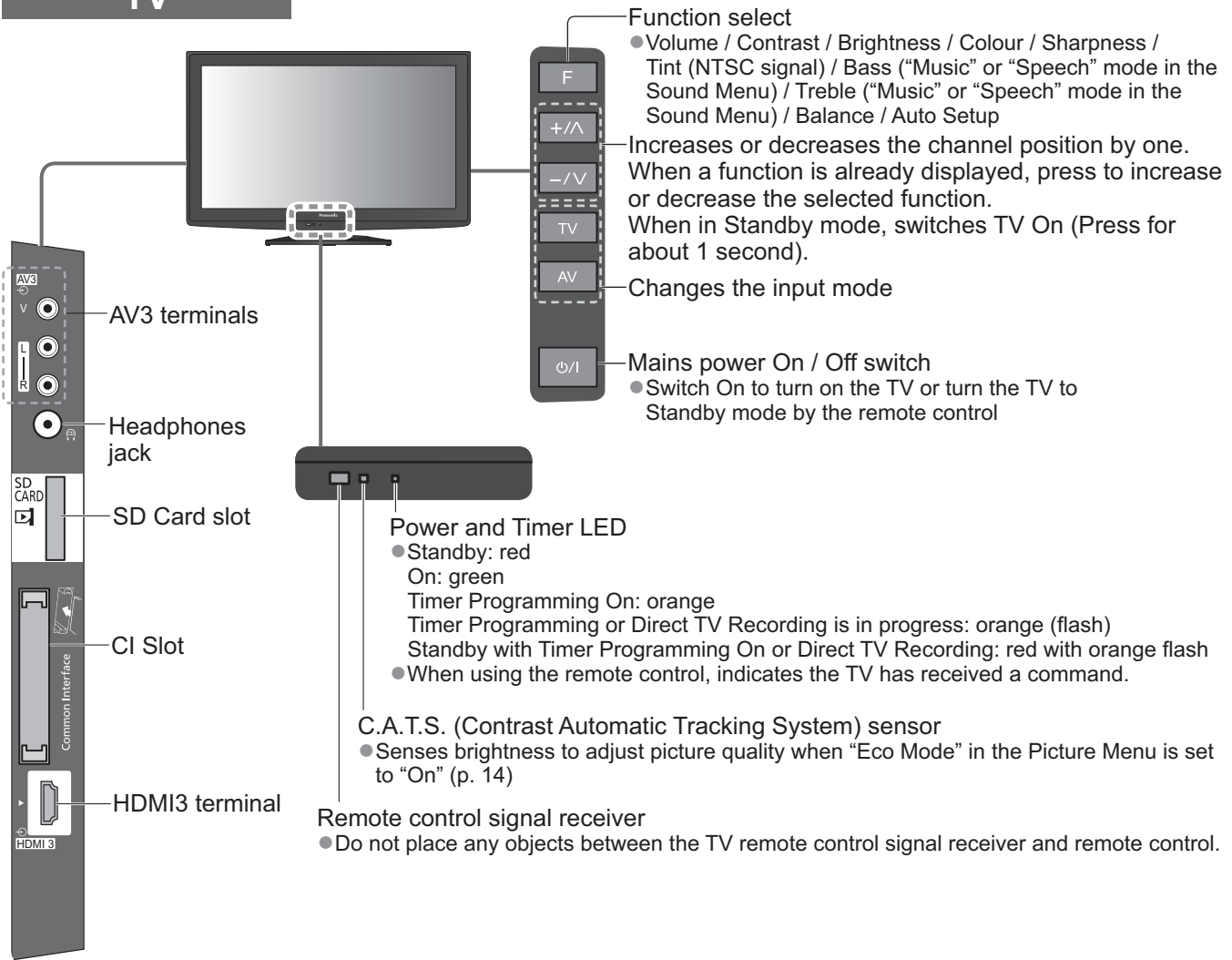
Channel Up / Down

- Selects channel in sequence

Connected equipment operations



TV



Using the On Screen Displays

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

■ How to use remote control



Move the cursor / select the menu item



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



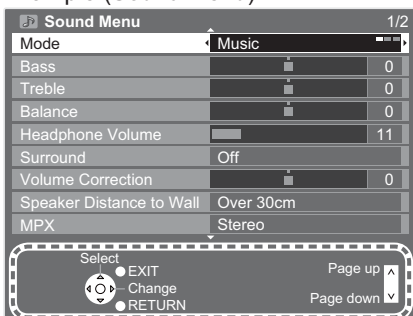
Open the main menu



Exit the menu system and return to the normal viewing screen

■ ON SCREEN HELP Instructions box - Operation guide

Example (Sound Menu):



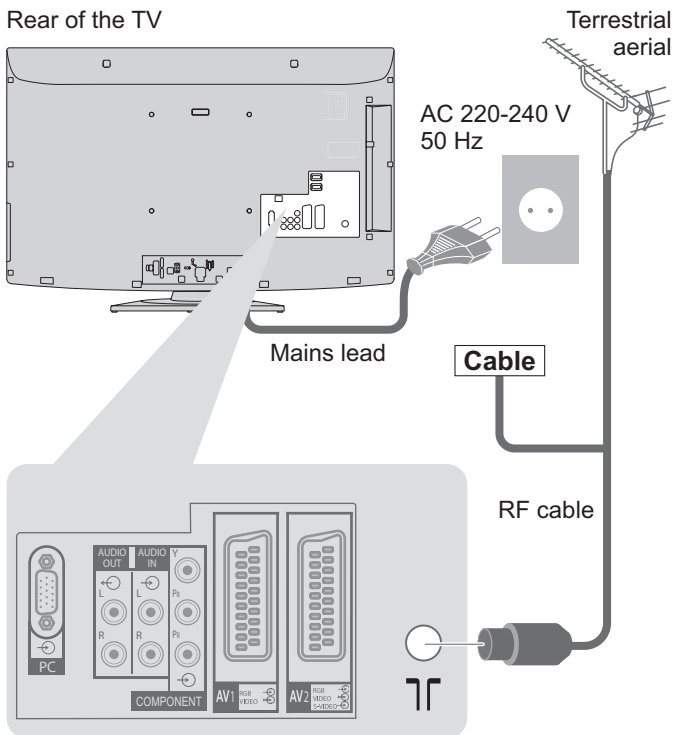
Operation guide will help you.

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.

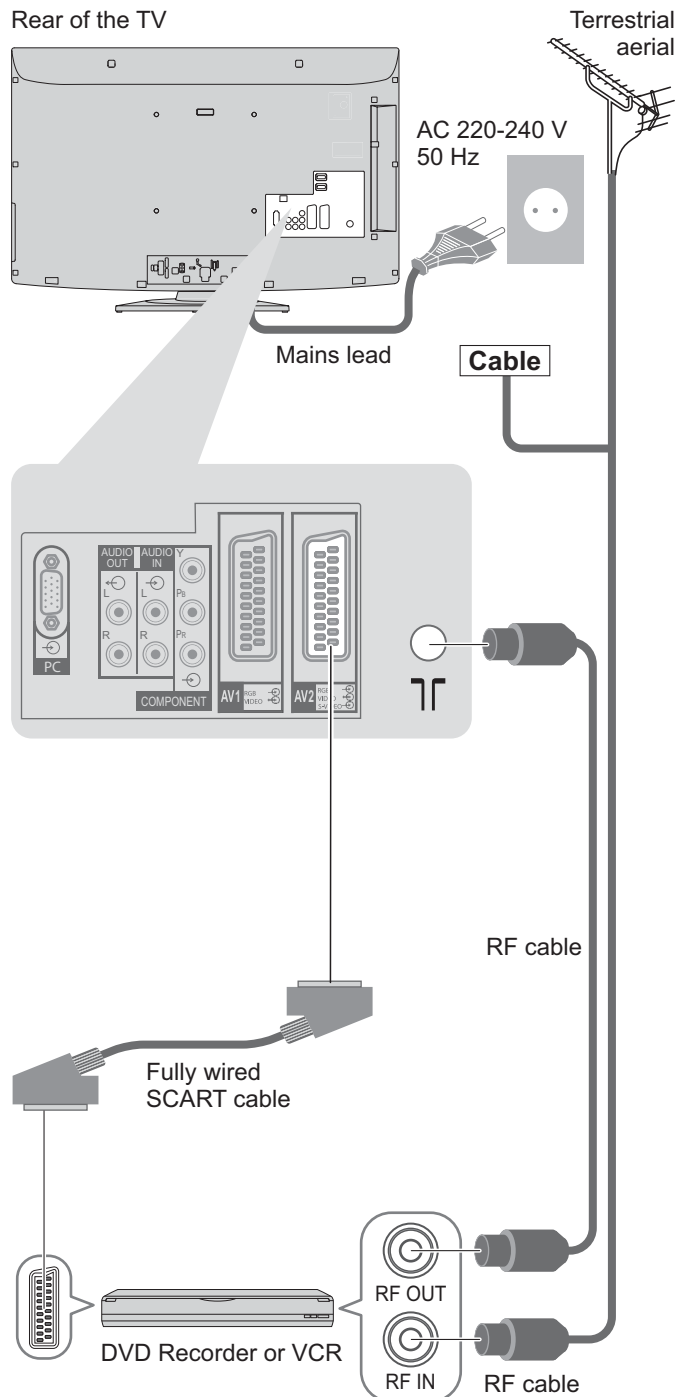
Example 1 Connecting aerial

TV only



Example 2 Connecting DVD Recorder / VCR

TV, DVD Recorder or VCR



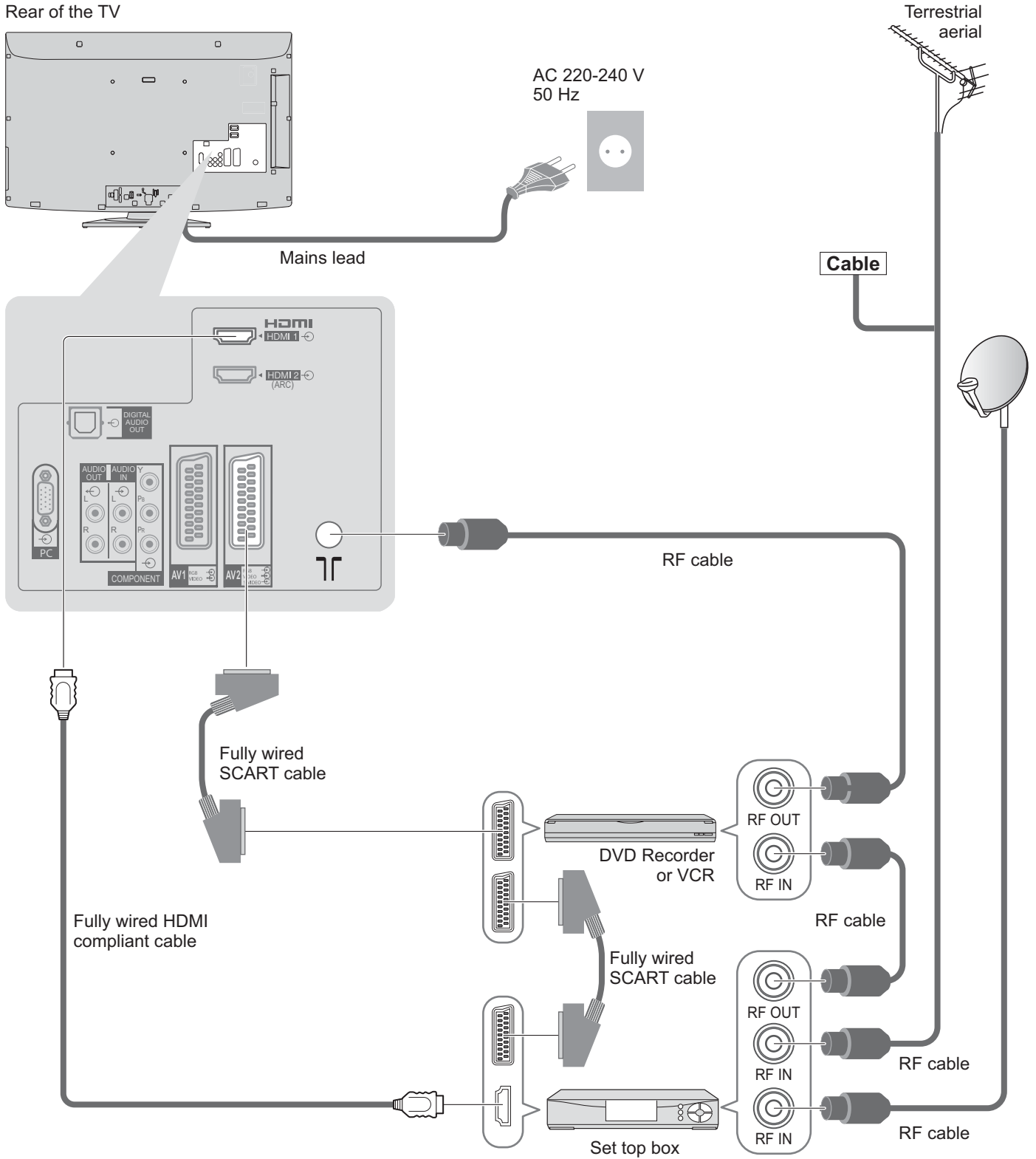
Note

- Connect to the TV's AV1 / AV2 for a DVD Recorder / VCR supporting Q-Link.
- For HDMI-compatible equipment, possible to connect to HDMI terminals (HDMI1 / HDMI2 / HDMI3) by using HDMI cable.
- Please also read the manual of the equipment being connected.

Example 3 Connecting DVD Recorder / VCR and Set top box

TV, DVD Recorder / VCR and Set top box

Rear of the TV



Auto Setup

Search and store TV channels automatically.

- These steps are not necessary if the setup has been completed by your local dealer.
- Please complete connections (p. 8 and p. 9) and settings (if necessary) of the connected equipment before starting Auto Setup. For details of settings for the connected equipment, read the manual of the equipment.



1

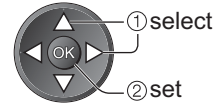
Plug the TV into mains socket and switch On (Takes a few seconds to be displayed)



2

Select the language

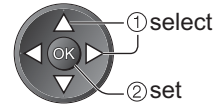
Menüsprache			
Deutsch	Dansk	Polski	Srpski
English	Svenska	čeština	Hrvatski
Français	Norsk	Magyar	Slovenščina
Italiano	Suomi	Slovenčina	Latviešu
Español	Türkçe	Български	eesti keel
Português	Ελληνικά	Română	Lietuvių
Nederlands			



3

Select your country

Country		
Germany	Denmark	Poland
Austria	Sweden	Czech
France	Norway	Hungary
Italy	Finland	Slovakia
Spain	Luxembourg	Slovenia
Portugal	Belgium	Estonia
Switzerland	Netherlands	Lithuania
Malta	Turkey	Others
Andorra	Greece	

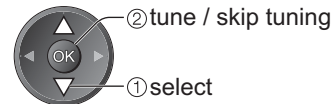


- Depending on the country you select, you may be required to select the Region. In this case, select your region.

4

Select the mode you want to tune

TV Signal Selection	
<input type="checkbox"/>	DVB-C
<input checked="" type="checkbox"/>	DVB-T
<input checked="" type="checkbox"/>	DVB-T support for HD services
<input checked="" type="checkbox"/>	Analogue
Start Auto Setup	

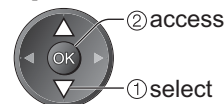


- : tune (the mode will be tuned and searched for the available channels)
- : skip tuning
- "DVB-C" may not appear depending on the country you select.

5

Select "Start Auto Setup"

TV Signal Selection	
<input checked="" type="checkbox"/>	DVB-C
<input checked="" type="checkbox"/>	DVB-T
<input checked="" type="checkbox"/>	DVB-T support for HD services
<input checked="" type="checkbox"/>	Analogue
Start Auto Setup	

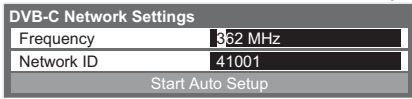


Auto Setup starts

- Auto Setup will start to search for TV channels and store them. The stored channels and sorted channel order vary depending on the country, area, broadcasting system and conditions of signal reception.
- If tuning has failed, check the connection of the RF cable, and then, follow the on screen instructions.

Auto Setup varies depending on the country you select.

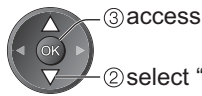
- **DVB-C Network Settings**
Enter the Home Frequency and Network ID specified by your cable provider. And then, select "Start Auto Setup".



① enter the frequency and network ID

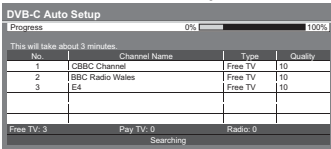


Depending on the country you select, "Auto" is displayed and you do not have to enter them. In this case, Home Frequency and Network ID will be set automatically.

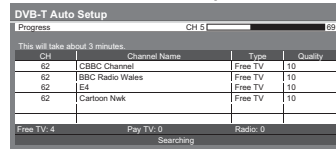


③ access
② select "Start Auto Setup"

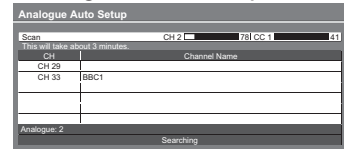
- **DVB-C Auto Setup**



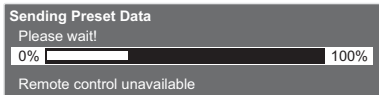
- **DVB-T Auto Setup**



- **Analogue Auto Setup**

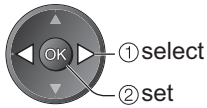
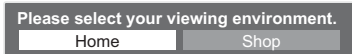


Depending on the country you select, the channel selection screen will be displayed after DVB-T Auto Setup if multiple channels have the same logical channel number. Select your preferred channel or exit the screen for automatic selections.



- If Q-Link, VIERA Link or similar technology compatible recorder is connected, channel, language, country / region settings are automatically downloaded to the recorder.
- If downloading has failed, you can download later by the menu item. ➔ "Download" (p. 16)

6 Select "Home"



- ① select
- ② set
- Select "Home" viewing environment to use in your home environment.

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



■ "Shop" viewing environment (for shop display only)

"Shop" viewing environment is the demonstration mode to explain main features of this TV.

Select "Home" viewing environment to use in your home environment.

- You can return to viewing environment selection screen at the stage of Shop confirmation screen and Automatic Demo Off / On selection screen.

① Return to viewing environment selection screen



② Select "Home"



Auto Setup is complete

- To change viewing environment later on, you will need to initialise all settings by accessing Shipping Condition. ➔ "Shipping Condition" (p. 19)

Note

- If tuning has failed or to retune all channels ➔ "Auto Setup" (p. 17)
- To add the available TV mode later ➔ "Add TV Signal" (p. 17)
- To initialise all settings ➔ "Shipping Condition" (p. 19)
- 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.

How to Use VIERA TOOLS

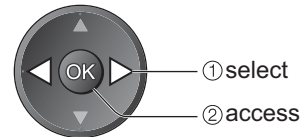
You can access some special features easily by using the VIERA TOOLS function.



1 Display icons of the feature



2 Select a feature



3 Follow the operations of each feature

- VIERA Link Control



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

- Pause Live TV



- Photo



- Video



■ To return to TV



Note

- If the selected feature is not available, the demonstration to explain how to use it can be displayed. Press the OK button to view the demonstration after selecting the unavailable feature.

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

 (example: Picture Menu)

3 Select the item

 (example: Picture Menu)

4 Adjust or select

 (example: Picture Menu)

■ To return to TV at any time

■ To return to the previous screen

■ To change menu pages

■ Choose from among alternatives
 Number and positions of alternatives

 Changed

■ Adjust using the slide bar

 Moved

■ Go to the next screen

 Displays the next screen

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

 Set characters one by one

 Store RETURN

● To reset the settings
 ● To reset the picture settings only
 → “Reset to Defaults” in the Picture Menu (p. 14)
 ● To reset the sound settings only
 → “Reset to Defaults” in the Sound Menu (p. 15)
 ● To reset the picture and sound settings together
 → (Also volume level and aspect mode are reset)
 ● To initialise all settings
 → “Shipping Condition” in the Setup Menu (p. 19)

● You can set characters by using numeric buttons.

● How to Use Menu Functions
 ● How to Use VIERA TOOLS

How to Use Menu Functions

■ Menu list

Menu	Item	Adjustments / Configurations (alternatives)
Picture	Viewing Mode	<p>Basic picture mode (Dynamic / Normal / Cinema / True Cinema / Game) In each Viewing Mode and input, Contrast, Brightness, Colour, Sharpness, Tint, Colour Balance, Vivid Colour, Eco Mode, P-NR and 3D-COMB can be adjusted and stored to suit your particular viewing requirement.</p> <ul style="list-style-type: none"> ● Set for each input signal. <p>Dynamic : Provides enhanced picture contrast and sharpness when viewing in a bright room.</p> <p>Normal : Recommended for viewing under normal ambient room lighting conditions.</p> <p>Cinema : For watching movies in a darkened room with the improved performance of contrast, black and colour reproduction</p> <p>True Cinema : Precisely reproduces the original quality of the image without any revision.</p> <p>Game : Fast response signal specifically to provide suitable images for playing games</p> <ul style="list-style-type: none"> ● Not valid on TV mode ● A continuous record of time spent using Game mode can be displayed in the top right of the screen. <ul style="list-style-type: none"> ➔ "Playing Time Display" (p. 18)
	Contrast, Brightness, Colour, Sharpness	Increases or decreases the levels of these options according to your personal preference
	Tint	<p>With an NTSC signal source connected to the TV, the picture hue can be adjusted to suit your taste</p> <ul style="list-style-type: none"> ● For NTSC signal reception only
	Colour Balance	Allows you to set the overall colour tone of the picture (Cool / Normal / Warm)
	Vivid Colour	<p>Automatically adjusts colours to vivid ones (Off / On)</p> <ul style="list-style-type: none"> ● Not valid on PC signal
	Eco Mode	<p>Automatic Brightness Control function Adjusts picture settings automatically dependent on ambient lighting conditions (Off / On)</p>
	P-NR	<p>Picture Noise Reduction Automatically reduces unwanted picture noise and flicker noise in the contoured parts of a picture (Off / Min / Mid / Max)</p>
	3D-COMB	<p>Makes still or slow moving pictures look more vivid (Off / On)</p> <ul style="list-style-type: none"> ● Occasionally, whilst viewing still or slow moving pictures, colour patterning may be seen. Set to "On" to display sharper and more accurate colours. ● For PAL or NTSC signal reception only ● Not valid on RGB, S-Video, Component, PC, HDMI and SD Card
	Panel	<p>Turns the screen off when you select "Off" (Off / On)</p> <ul style="list-style-type: none"> ● The sound is active even if the screen turns off. ● Press any buttons to turn the screen on. ● This function is effective in reducing power consumption when listening to a sound without watching the TV screen.
	Reset to Defaults	Press the OK button to reset the present Picture Viewing Mode to the default settings

Menu	Item	Adjustments / Configurations (alternatives)
Sound	Mode	<p>Selects the basic sound mode (Music / Speech / User)</p> <ul style="list-style-type: none"> ● The selected mode affects all input signals. <p>Music: Improves sound quality for watching music video, etc. Speech: Improves sound quality for watching news, drama, etc.</p> <ul style="list-style-type: none"> ● In Music and Speech mode, you can adjust “Bass” and “Treble” settings, and those settings will be stored for each mode. <p>User: Adjusts the sounds manually by using the equalizer to suit your favourite sound quality.</p> <ul style="list-style-type: none"> ● For the User mode, “Equalizer” will appear on the Sound Menu instead of “Bass” and “Treble”. Select the “Equalizer” and adjust the frequency. ➔ “Equalizer” (below)
	Bass	Increases or decreases level to enhance or minimise lower, deeper sound output
	Treble	Increases or decreases level to enhance or minimise sharper, higher sound output
	Equalizer	<p>Adjusts the frequency level to suit your favourite sound quality</p> <ul style="list-style-type: none"> ● This function is available when “Mode” is set to “User”. ● Select the frequency and change the frequency level by using the cursor button. ● If you want to enhance the bass sound, raise the level of the lower frequency. If you want to enhance the treble sound, raise the level of the higher frequency. ● To reset the levels of each frequency to the default settings, select the “Reset to Defaults” by using cursor button, and then press the OK button.
	Balance	Adjusts volume level of right and left speakers
	Headphone Volume	Adjusts the volume of the headphones
	Surround	<p>Surround sound settings (Off / V-Audio / V-Audio Surround)</p> <p>V-Audio: Provides a dynamic enhancer of width to simulate improved spatial effects V-Audio Surround: Provides a dynamic enhancer of width and depth to simulate improved spatial effects</p>
	Volume Correction	Adjusts the volume of individual channel or input mode
	Speaker Distance to Wall	<p>Adjusts the low frequency sound (Over 30cm / Up to 30cm)</p> <ul style="list-style-type: none"> ● 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	<p>Selects multiplex sound mode (if available)</p> <ul style="list-style-type: none"> ● Normally: Stereo ● Stereo signal cannot be received: Mono ● M1 / M2: Available while mono signal is transmitted ● Analogue mode only
	Audio Preference	<p>Selects the initial setting for audio tracks (Auto / MPEG)</p> <p>Auto : Automatically selects the audio tracks if programme has more than two tracks. The priority is given in the following order - Dolby Digital Plus, HE-AAC, Dolby Digital, MPEG.</p> <p>MPEG : The priority is given to MPEG as long as the programme contains MPEG audio.</p> <ul style="list-style-type: none"> ● Dolby Digital Plus and Dolby Digital are the methods of coding digital signals developed by Dolby Laboratories. Apart from stereo (2ch) audio, these signals can be multi-channel audio. ● HE-AAC is a perceptual coding method used to compress digital audio for efficient storage and transmission. ● MPEG is an audio compression method that compresses audio to the smaller size without any considerable loss of audio quality. ● Dolby Digital Plus and HE-AAC are the technologies for HD (High definition) programmes. ● DVB mode only
	SPDIF Selection	<p>SPDIF : A standard audio transfer file format</p> <p>Selects the initial setting for digital audio output signal from DIGITAL AUDIO OUT terminal (Auto / PCM)</p> <p>Auto : Dolby Digital Plus and Dolby Digital are output as Dolby Digital Bitstream. HE-AAC (48 kHz) is output as DTS. MPEG is output as PCM.</p> <p>PCM : Digital output signal is fixed to PCM.</p> <ul style="list-style-type: none"> ● For DVB mode or Video mode
	MPEG Optical Level	<p>Adjusts the audio level of MPEG output from DIGITAL AUDIO OUT terminal as the initial setting (0 / -2 / -4 / -6 / -8 / -10 / -12dB)</p> <ul style="list-style-type: none"> ● Normally, MPEG sound is larger comparing with the other types of audio track. ● DVB mode only
	HDMI1 / 2 / 3 Input	<p>Select to fit the input signal (Digital / Analogue)</p> <p>Digital : HDMI cable connection Analogue : HDMI-DVI adapter cable connection</p> <ul style="list-style-type: none"> ● HDMI input mode only
SPDIF Delay	<p>Adjusts the delay time of the sound output from DIGITAL AUDIO OUT terminal if the sound does not synchronize the image</p> <ul style="list-style-type: none"> ● DVB mode only 	
Reset to Defaults	Press the OK button to reset the present Sound Mode, Balance, Headphone Volume and Surround to the default settings	

- A different menu will be displayed while PC or SD Card is used.
- Only available items can be selected.

How to Use Menu Functions

Menu	Item	Adjustments / Configurations (alternatives)
Setup	Link Settings	Timer Programming Sets a timer to remind watching or record forthcoming programmes ● DVB mode only
		Off Timer Sets the time the TV automatically goes to Standby mode (Off / 15 / 30 / 45 / 60 / 75 / 90 minutes)
	VIERA Link Sets to use VIERA Link functions (Off / On)	
	Q-Link Selects which AV terminal is to be used for data communication between this TV and a compatible recorder (AV1 / AV2) ● Select the connected terminal to the recorder even it is not compatible with Q-Link.	
	AV1 / AV2 out Chooses the signal to be transmitted from the TV to Q-Link (TV / AV1 / AV2 / AV3 / Monitor) ● Monitor: Image displayed on screen ● Component, PC and HDMI signals cannot be outputted.	
	Power on Link Sets to use Power on Link function (Off / On)	
	Power off Link Sets to use Power off Link function (Off / On)	
	Standby Power Save Controls the power consumption in Standby mode of the connected equipment to reduce the consumption (Off / On) ● This function is available when "VIERA Link" is set to "On" and "Power off Link" is set to "On".	
	Intelligent Auto Standby Makes non-watched or non-used connected equipment go into Standby mode to reduce the power consumption (Off / On (With reminder) / On (No reminder)) ● This function is available when "VIERA Link" is set to "On".	
	Download Downloads channel, language, country / region settings to a Q-Link or VIERA Link compatible equipment connected to the TV ● DVB-C channel setting cannot be downloaded.	
Child Lock Locks a channel / AV input to prevent access to it		

Menu	Item	Adjustments / Configurations (alternatives)	
Setup	DVB-C Tuning Menu	Favourites Edit	Creates list of favourite DVB-C channels
		Channel List	Skips the unwanted DVB-C channels or edits DVB-C channels
		Auto Setup	Automatically sets the DVB-C channels supplied
		Manual Tuning	Sets the DVB-C channels manually
		Update Channel List	Updates DVB-C Channel List with keeping your settings
		New Channel Message	Selects whether to give a notification message when a new DVB-C channel is found (Off / On)
		Signal Condition	Checks the DVB-C signal condition
		Attenuator	Automatically reduces the DVB-C signal to avoid the interference (Off / On)
		Add TV Signal	Adds the TV mode <ul style="list-style-type: none"> ● This function is available if you skip any modes to tune in "Auto Setup" for first using the TV. ● To operate, refer to the "Auto Setup" operations for first using the TV (p. 10 and p. 11).
	DVB-T Tuning Menu	Favourites Edit	Creates list of favourite DVB-T channels
		Channel List	Skips the unwanted DVB-T channels or edits DVB-T channels
		Auto Setup	Automatically sets the DVB-T channels received in the area
Manual Tuning		Sets the DVB-T channels manually	
Update Channel List		Updates DVB-T Channel List with keeping your settings	
Favourite Network		Selects your favourite network for each broadcasters (only available in some countries)	
New Channel Message		Selects whether to give a notification message when a new DVB-T channel is found (Off / On)	
Signal Condition		Checks the DVB-T signal condition	
Add TV Signal		Adds the TV mode <ul style="list-style-type: none"> ● This function is available if you skip any modes to tune in "Auto Setup" for first using the TV. ● To operate, refer to the "Auto Setup" operations for first using the TV (p. 10 and p. 11). 	
Analogue Tuning Menu	Channel List	Skips the unwanted Analogue channels or edits Analogue channels	
	Auto Setup	Automatically sets the Analogue channels received in the area	
	Manual Tuning	Sets the Analogue channels manually	
	Add TV Signal	Adds the TV mode <ul style="list-style-type: none"> ● This function is available if you skip any modes to tune in "Auto Setup" for first using the TV. ● To operate, refer to the "Auto Setup" operations for first using the TV (p. 10 and p. 11). 	

- A different menu will be displayed while PC or SD Card is used.
- Only available items can be selected.

How to Use Menu Functions

Menu	Item	Adjustments / Configurations (alternatives)
Setup	Language	OSD Language Changes language for on screen displays
		Preferred Audio 1 / 2 Selects the first and second preferred language for DVB multi audio (depending on the broadcaster)
		Preferred Subtitles 1 / 2 Selects the first and second preferred language for DVB subtitles (depending on the broadcaster)
		Preferred Teletext Selects the preferred language for DVB teletext service (depending on the broadcaster)
	Display Settings	Preferred Subtitle Type Selects the preferred subtitle type (Standard / Hard of Hearing) <ul style="list-style-type: none"> ● “Hard of Hearing” provides aids in understanding and enjoyment with DVB subtitles (depending on the broadcaster). ● “Preferred Subtitles 1 / 2” in “Language” are given priority.
		Teletext Teletext display mode (TOP (FLOF) / List)
		Teletext Character Set Selects teletext language (West / East1 / East2) <ul style="list-style-type: none"> ● West: English, French, German, Greek, Italian, Spanish, Swedish, Turkish, etc. ● East1: Czech, English, Estonian, Lettish, Rumanian, Russian, Ukrainian, etc. ● East2: Czech, Hungarian, Lettish, Polish, Rumanian, etc.
		Default Guide Selects the default TV Guide type when the GUIDE button is pressed (TV Guide / Channel List) TV Guide : Electronic Programme Guide (EPG) is available. Channel List: EPG is not available and the channel list will appear instead of it.
		Input Labels Labels or skips each input terminal
		Banner Display Timeout Sets how long the Information banner stays on screen (0 (No display) / 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 seconds)
		Playing Time Display Set to “On” to display a continuous record of time spent using Game mode every 30 mins (Off / On) <ul style="list-style-type: none"> ● This function is available when “Game” is selected in “Viewing Mode” (p. 14).
		Radio Mode Sets the timer for turning off the screen automatically when a radio channel is selected (Off / 5 / 10 / 15 / 20 seconds) <ul style="list-style-type: none"> ● The sound is active even if the screen turns off. ● Press any buttons to turn the screen on. ● This function is effective in reducing power consumption when listening to a radio channel.
	Common Interface Uses include to watch pay-TV	

Menu	Item	Adjustments / Configurations (alternatives)		
Setup	System Menu	Shipping Condition	Resets all settings, for example, when moving house	
		System Update	Downloads new software to TV	
		Software Licence	Displays the software licence information	
		System Information	Displays the system information of this TV	
	Other Settings	AV Colour System		Selects optional colour system based on video signals in AV mode (Auto / PAL / SECAM / M.NTSC / NTSC)
		GUIDE Plus+ Settings	Update	Performs the update of the GUIDE Plus+ schedule and advertising informations for the GUIDE Plus+ system
			Postcode	Sets your postcode to display advertisements in the GUIDE Plus+ system
			System Information	Displays the system information of the GUIDE Plus+ system
		Intelligent Frame Creation		Automatically compensates the picture frame rate to make the image smooth (Off / Mid / Max) ● Not valid on 24p signal ● Set to "Off" if noise is generated on the screen.
		24p Smooth Film		Automatically compensates the picture frame rate to make the image smooth (Off / Mid / Max) ● 24p signal input only ● Set to "Off" if noise is generated on the screen.
		Auto Standby		Sets the time the TV automatically goes to Standby mode when no operation is performed for the selected times (Off / 2 / 4 hours) ● Starting Timer Programming automatically does not affect this function. ● Automatic input switching with the connected equipment affects this function and time-count will be reset. ● The notification message will appear 3 minutes before going to Standby mode.
		Power Save		Reduces brightness of picture to economise on power consumption (Off / On)
		16:9 Overscan		Selects the screen area displaying the image (Off / On) On : Enlarged the image to hide the edge of the image. Off : Displayed the image in the original size. ● Set to "On" if noise is generated on the edge of the screen. ● This function is available when aspect is set to Auto (16:9 signal only) or 16:9. ● This function can be memorized separately for SD (Standard definition) and HD (High definition) signals.
		Time Zone		Adjusts the time data ● The time data will be corrected based on GMT. ● Set to "Auto" to adjust the time automatically according to your area.
DVI Input Setting		Changes the black level in the image for HDMI input mode with DVI input signal manually (Normal / Full) ● When the DVI input signal from the external equipment, especially from PC, is displayed, the black level may not be suitable. In this case, select "Full". ● The black level for HDMI input signal will be adjusted automatically.		

- A different menu will be displayed while PC or SD Card is used.
- Only available items can be selected.

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



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

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

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.



For business users in the European Union

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

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

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



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

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

Cd

	TX-L32S20E, TX-L32S20ES	TX-L37S20E, TX-L37S20ES	TX-L42S20E
Power Source	AC 220-240 V, 50 Hz		
Rated Power Consumption	103 W	145 W	184 W
On mode Average Power Consumption (based on IEC 62087 Ed.2) (measurement method)	84 W	116 W	134 W
Standby Power Consumption	0.25 W 13 W (With monitor out recording)		

- This equipment complies with the EMC standards listed below.
EN55013, EN61000-3-2, EN61000-3-3, EN55020, EN55022, EN55024.

Notice for DVB functions

This TV is designed to meet the standards (current as of August, 2009) of DVB-T (MPEG2 and MPEG4-AVC(H.264)) digital terrestrial services and DVB-C (MPEG2 and MPEG4-AVC(H.264)) digital cable services.

Consult your local dealer for availability of DVB-T services in your area.

Consult your cable service provider for availability of DVB-C services with this TV.

- This TV may not work correctly with the signal which does not meet the standards of DVB-T or DVB-C.
- Not all the features are available depending on the country, area, broadcaster and service provider.
- Not all CI modules work properly with this TV. Consult your service provider about the available CI module.
- This TV may not work correctly with CI module that is not approved by the service provider.
- Additional fees may be charged depending on the service provider.
- The compatibility with future DVB services is not guaranteed.
- Check the latest information on the available services at the following website. (English only)
<http://panasonic.jp/support/global/cs/>

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 _____

Panasonic Corporation

Web Site : <http://www.panasonic.net>

© Panasonic Corporation 2010

Printed in Czech Republic