

SHARP®

LC-32WD1E

LC-32WT1E

LC-32WD1S

LC-37WD1E

LC-37WT1E

LC-37WD1S

LC-42WD1E

LC-42WT1E

LC-42WD1S

LCD COLOUR TELEVISION
LCD-FARBFERNSEHGERÄT
TÉLÉVISION COULEUR À ÉCRAN
À CRISTAUX LIQUIDES (LCD)
TELEVISORE A COLORI LCD
LCD-KLEURENTELEVISIE
TELEVISIÓN EN COLOR LCD

OPERATION MANUAL
BEDIENUNGSANLEITUNG
MODE D'EMPLOI
MANUALE DI ISTRUZIONI
GEBRUIKSAANWIJZING
MANUAL DE MANEJO

AQUOS



HD
ready

SRS (C) (O)
TruSurround

HDMI™

DVB
Digital Video
Broadcasting

ENGLISH

DEUTSCH

FRANÇAIS

ITALIANO

NEDERLANDS

ESPAÑOL



SPECIAL NOTE FOR USERS IN THE U.K.

The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 5A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked  or  and of the same rating as above, which is also indicated on the pin face of the plug, must be used.

Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted.

In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut off the mains plug and fit an appropriate type.

DANGER:

The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner.

Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet, as a serious electric shock may occur.

To fit an appropriate plug to the mains lead, follow the instructions below:

IMPORTANT:

The wires in the mains lead are coloured in accordance with the following code:

Blue: Neutral

Brown: Live

As the colours of the wires in the mains lead of this product may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The wire which is coloured blue must be connected to the plug terminal which is marked N or coloured black.
- The wire which is coloured brown must be connected to the plug terminal which is marked L or coloured red.

Ensure that neither the brown nor the blue wire is connected to the earth terminal in your three-pin plug.

Before replacing the plug cover make sure that:

- If the new fitted plug contains a fuse, its value is the same as that removed from the cut-off plug.
- The cord grip is clamped over the sheath of the mains lead, and not simply over the lead wires.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

- The illustrations and on-screen displays in this operation manual are for explanation purposes and may vary slightly from the actual operations.
- The examples used throughout this manual are based on the LC-32WD1E model.
- The factory preset PIN is “1234”

TV only

TV/AV only

TV/DTV/AV only

AV only

PC only

DTV only

Throughout the manual, these icons indicate menu items that can be adjusted only for this input mode.

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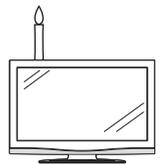
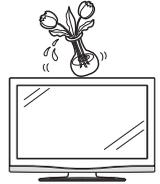
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Dear Sharp customer

Thank you for your purchase of this SHARP LCD colour TV product. To ensure safety and many years of trouble-free operation of your product, please read the “Important safety precautions” carefully before using this product.

Important safety precautions

- **Cleaning** — Unplug the AC cord from the AC outlet before cleaning the product. Use a damp cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.
- **Water and moisture** — Do not expose to rain or moisture. Do not use the product near water, such as a bathtub, washbasin, kitchen sink, laundry tub, swimming pool and in a wet basement.
- **Do not place vases or any other water-filled containers on this product.** The water may spill onto the product, causing fire or electric shock.
- **Stand** — Do not place the product on an unstable cart, stand, tripod or table. Doing so can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer’s instructions. Use only the mounting hardware recommended by the manufacturer.
- **When relocating the product placed on a cart, it must be moved with the utmost care.** Sudden stops, excessive force and uneven floor surface can cause the product to fall from the cart.
- **Ventilation** — The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer’s instructions are followed.
- **The LCD panel used in this product is made of glass.** Therefore, it can break when the product is dropped or impact applied. If the LCD panel is broken, be careful not to be injured by broken glass.
- **Heat sources** — Keep the product away from heat sources such as radiators, heaters, stoves and other heat generating products (including amplifiers).
- **To prevent fire, never place any type of candle or naked flames on the top or near the TV set.**
- **To prevent fire or shock hazard, do not place the AC cord under the TV set or other heavy items.**
- **Do not display a still picture for a long time, as this could cause an afterimage to remain.**
- **There is always power consumption if the main plug is connected.**



The LCD panel is very high technology product, giving you a fine picture details.

Due to the very large number of pixels, occasionally a few non-active pixels may appear on the screen as a fixed point of black, white, blue, green, or red. This is within product specifications and does not constitute a fault.

Precautions when transporting the TV

When moving the TV, it should always be carried by two people using both hands. Be careful not to apply pressure to the display.

Trademarks

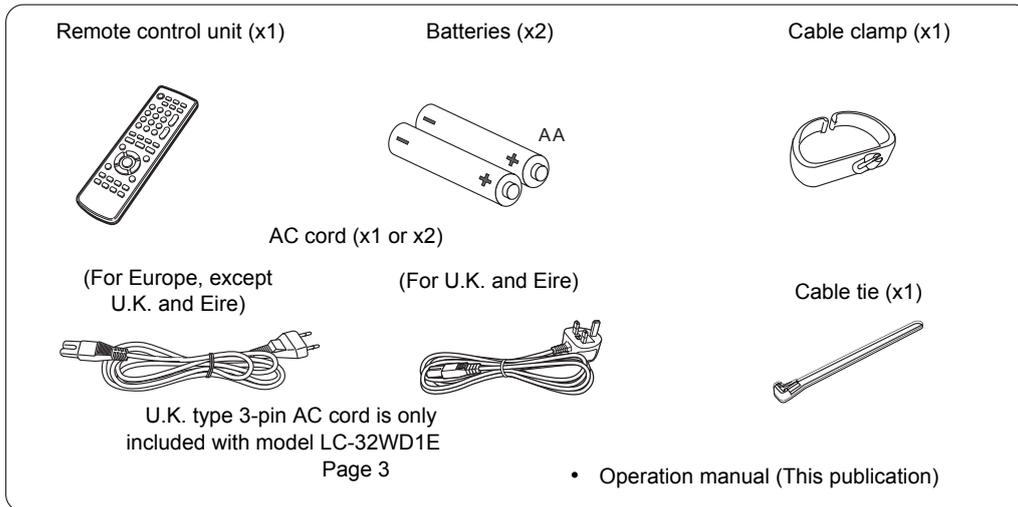
HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

TruSurround, SRS and symbol (●●) are trademarks of SRS Labs, Inc. TruSurround technology is incorporated under license from SRS Labs, Inc.

The “HD ready” Logo is a trademark of EICTA.

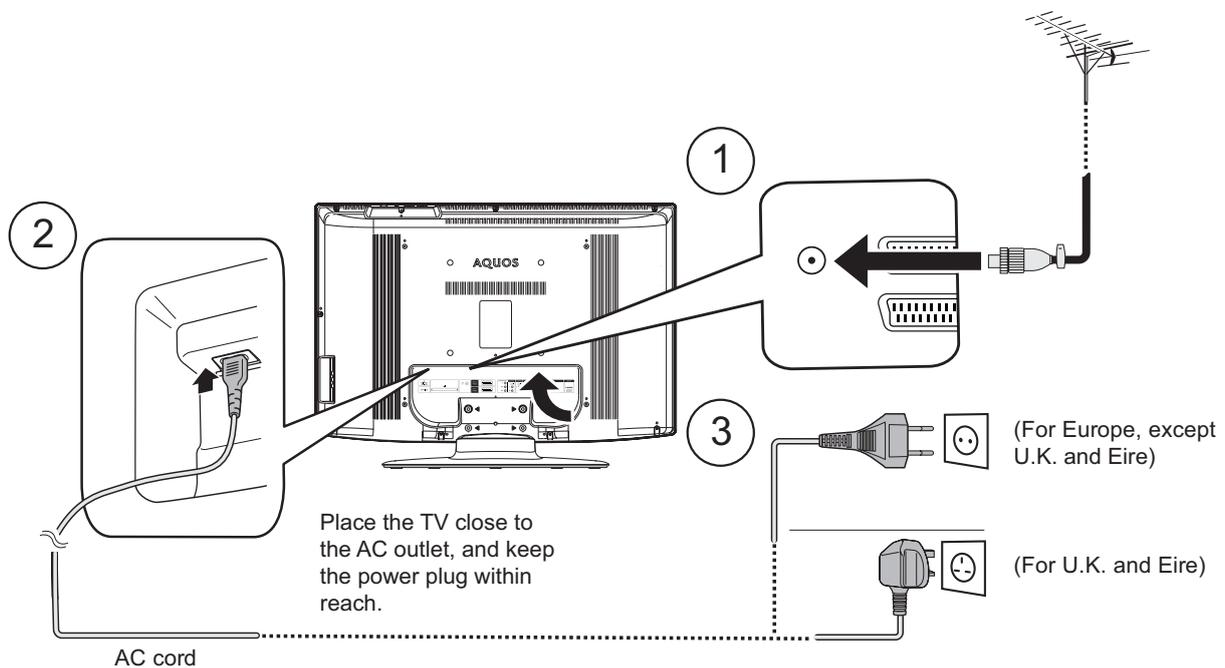
The DVB logo is the registered trademark of the Digital Video Broadcasting – DVB – Project.

Supplied accessories



Quick start guide

Setting up the TV



- 1** To receive analogue or digital terrestrially broadcasted stations, connect the antenna cable (from the antenna/cable socket or the room/roof antenna) to the input antenna port on the back of the television. If there is good reception, an indoor antenna can also be used. If you are using an active antenna, the supply voltage (5V) must also be set. (See page 18.)
- 2** Connect the AC cord to the power port on the back of the television.
- 3** Plug the AC cord into the AC outlet.

WARNING!



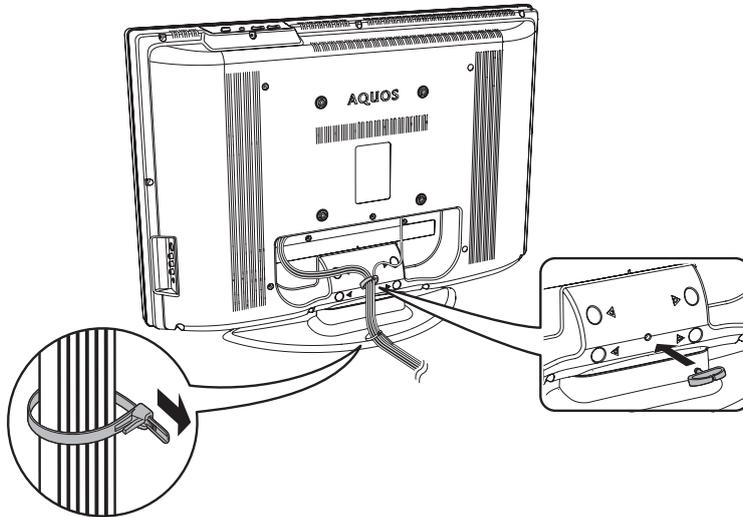
IT IS THE RESPONSIBILITY OF THE INSTALLER TO MAKE SURE THE TELEVISION IS INSTALLED SAFELY. IF YOU ARE USING ANY ACCESSORIES WITH THIS TELEVISION (SUCH AS A WALL MOUNT BRACKET OR A TELEVISION STAND), FOLLOW THE ACCESSORY MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.

Quick start guide

Setting the TV on the wall

- This TV should be mounted on the wall only with a wall mount bracket approved and available from SHARP. (See page 30.) The use of other wall mount brackets may result in an unstable installation and may cause serious injuries.
- You can ask a qualified service personnel about using an optional bracket to mount the TV to the wall.
- Installing the TV on the wall requires special skill that should only be performed by qualified service personnel. Customers should not attempt to do the work themselves. SHARP bears no responsibility for improper mounting or mounting that results in accident or injury.

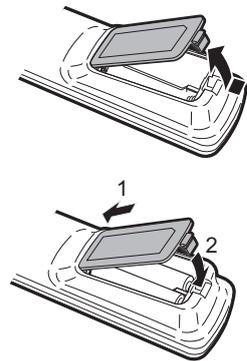
Bundling the cables



Installing batteries in the remote control

Before using the remote control, install the two (supplied) AA batteries. When the batteries become worn out or “dead”, replace the batteries.

- 1** Hold in the tab on the battery cover and pull the cover towards the direction of the arrow.
- 2** Insert two AA batteries.
Place the batteries with the terminals on the batteries (+ and -) in the positions as indicated in the battery compartment.
- 3** Insert the smaller tab of the battery cover into the remote control opening (1) and then press down on the cover until it clicks into place (2).



CAUTION:

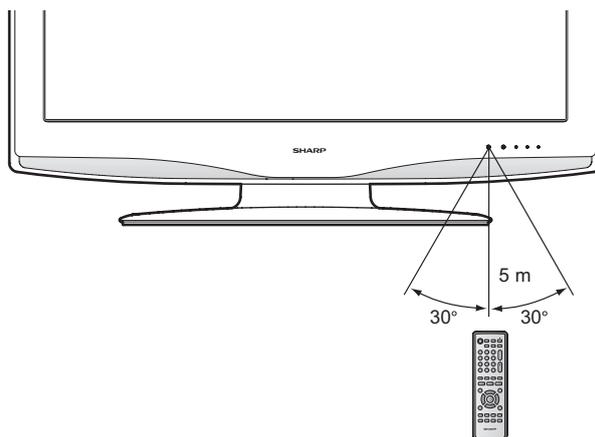
Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.

- Do not mix different types of batteries. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they have worn out. Chemicals that leak from batteries can cause a rash. If you find any chemical leakage, wipe the area clean with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not be using the remote control for an extended period of time, remove the batteries from it.
- Dispose batteries according to local requirements. Please do not use the ordinary dust bin.

Quick start guide

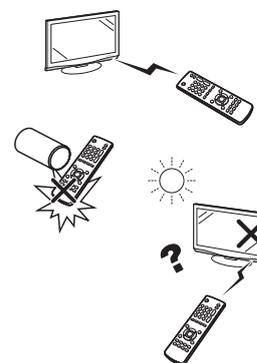
Using the remote control

To use the remote control, point it towards the remote control sensor on the front of the TV.



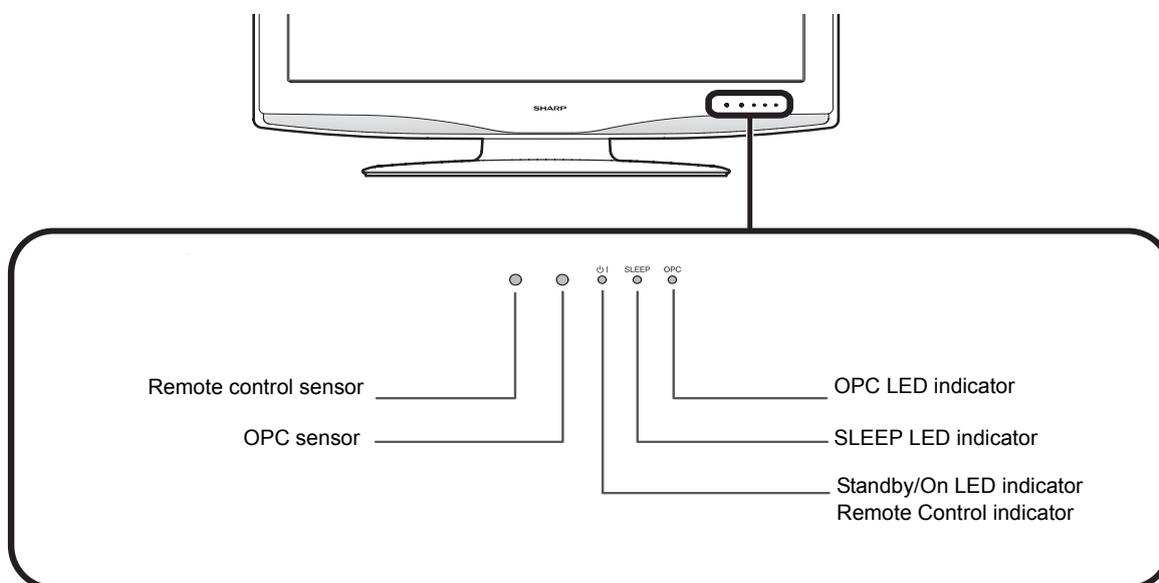
About using the remote control

- Do not expose the remote control to shock.
- Do not expose the remote control to high humidity conditions or liquids.
- Do not expose the remote control to direct sunlight. The heat may cause deformations of the remote control.
- If there are objects between the remote control and the sensor, it may prevent normal operation.
- If the remote control sensor on the TV is in direct sunlight or strong lighting, the remote control may not work as expected. If you experience this, change the lighting, angle to the television, or use the remote control closer to the TV.



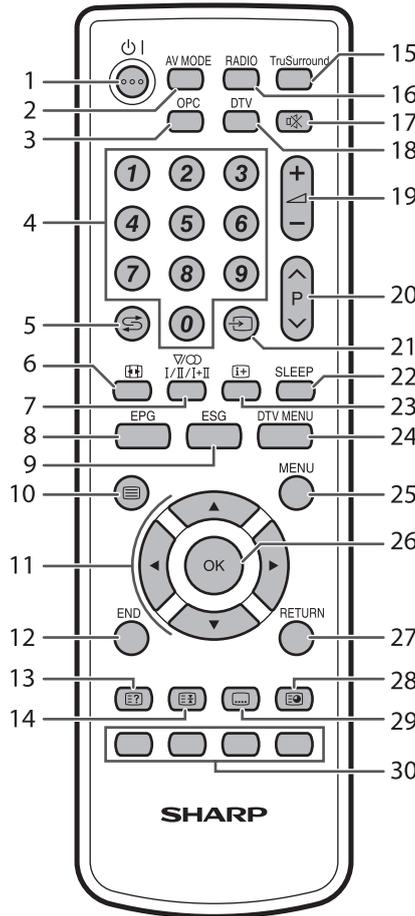
TV front view

For information on the LED indicator meanings, see page 7.



Remote control function

- 1 **Standby/On**
Switches the TV between on and standby mode. (See page 7.)
- 2 **AV MODE**
Selects a preset audio/video setting (AV Mode). (See page 13.)
- 3 **OPC**
Turns the Optical Picture Control (OPC) "On" and "Off". (See page 13.)
- 4 **0-9**
TV/DTV: Directly selects the channel. Teletext: Selects the page.
- 5 **Flashback**
Returns to the previous channel or AV input.
- 6 **WIDE MODE**
Selects wide mode. (See page 20.)
- 7 **Sound mode**
See "Using Multiplex" on page 6.
- 8 **EPG**
DTV: Displays the EPG (Electronic Programme Guide) screen. (See page 26.)
- 9 **ESG**
DTV: Displays the ESG (Electronic Service Guide) screen. (See page 26.)
- 10 **Teletext**
TV: Selects the teletext mode. (See page 21.)
DTV: Selects the teletext mode or MHEG5 (if available). If both are available, press for MHEG5. Press for 1-2 seconds for teletext. (See page 21 and 28.)
- 11 **Cursor**
Selects an item on the screen.
- 12 **END**
Press to exit the on-screen display menu screen.
- 13 **Reveal hidden teletext**
Reveals/hides hidden teletext information. (See page 20.)
- 14 **Freeze/Hold**
TV/DTV/External: Freezes the on-screen image.
Teletext: Stop updating teletext pages automatically or release the hold mode. (See page 20.)
- 15 **TruSurround**
Turns SRS TruSurround® "On" and "Off". (See page 15.)
- 16 **RADIO**
DTV: Switches between RADIO and DTV Mode.
- 17 **Mute**
Turns the sound "On" and "Off".



- 18 **DTV**
Switches between analogue TV mode and DTV mode.
- 19 **Volume**
Increases or decreases the volume.
- 20 **P**
TV/DTV: Selects the channel.
External: Switches to TV or DTV input mode.
Teletext: Move to the next or previous page.
- 21 **Input source**
Selects an input source. (See page 9.)
- 22 **SLEEP**
Sets the amount of time the TV will stay on before automatically turning off. (In units of 30 minutes to a maximum of 2 hours 30 minutes.)
- 23 **Display information**
TV: Displays channel information. (See page 21.)
DTV: Displays the service banner. (See page 27.)

- 24 **DTV MENU**
DTV: Displays the DTV on-screen display menus. (See page 22.)
- 25 **MENU**
Displays the Main TV on-screen display menus. (See page 11.)
- 26 **OK**
Selects an option in the on-screen display menu. Displays the programme list (except for external input).
- 27 **RETURN**
Returns to the previous menu.
- 28 **Subpage**
Displays current time.
Teletext: Displays or hides subpages. (See page 20.)
- 29 **Subtitle for Teletext**
TV/External: Turns the teletext subtitles "On" and "Off".
DTV: Displays/hides the subtitle selection.
- 30 **Colour (Red/Green/Yellow/Blue)**
TeleText: Selects a group or block of pages displayed in the coloured brackets at the bottom of the screen by pressing the corresponding colour button on the remote control.
DTV: When using the on-screen display, assigned tasks as indicated at the bottom of the screen.

Using Multiplex

DTV mode— Press $\frac{\nabla \circ \triangleright}{\text{I/II/I+II}}$ to change languages.

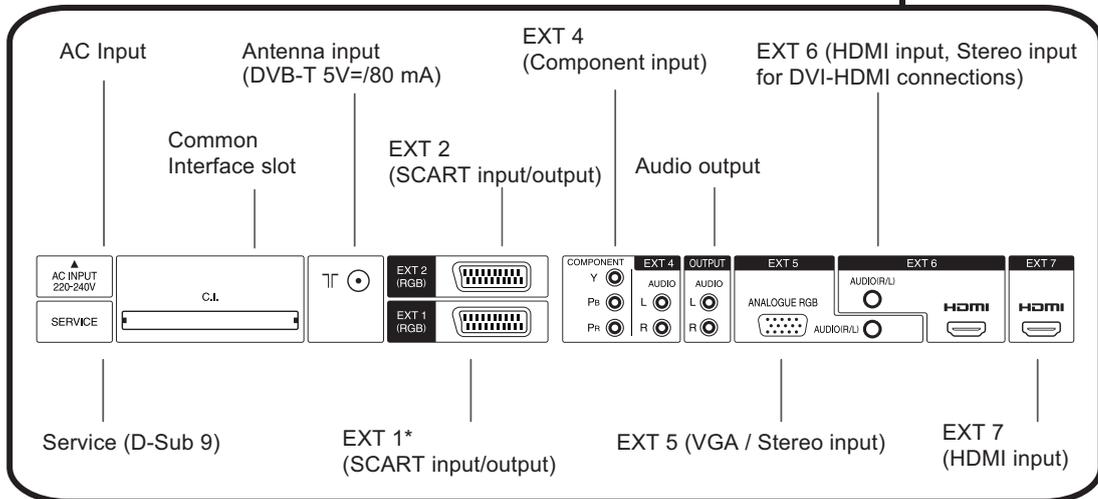
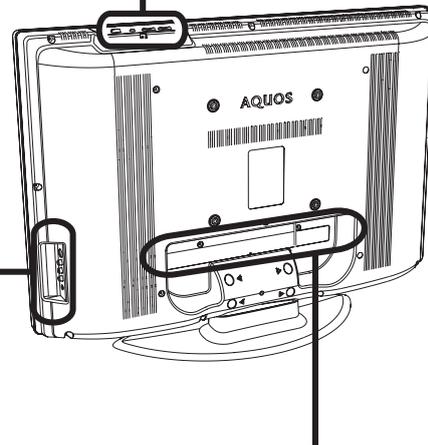
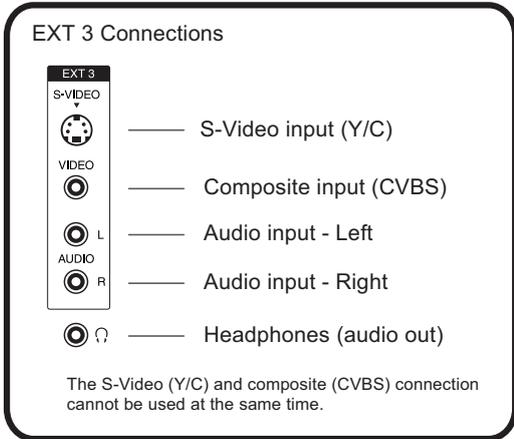
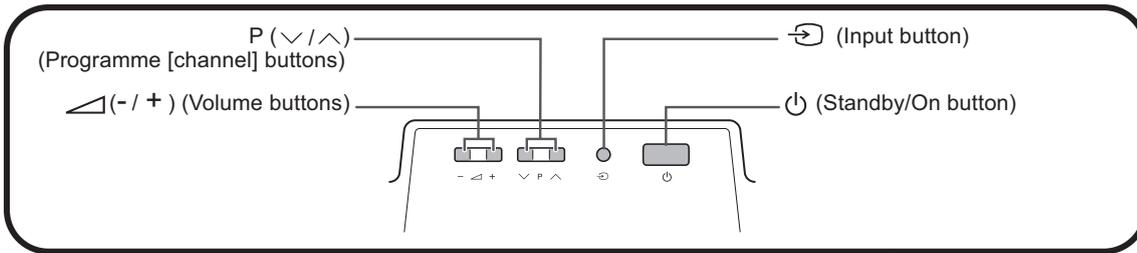
Analogue TV mode—Each time you press $\frac{\nabla \circ \triangleright}{\text{I/II/I+II}}$, the mode switches as illustrated in the following table.

Signal	Selectable Item
Mono	
Mono	Mono
A2 TV broadcasts selection	
Mono	Mono
Stereo	Stereo, Mono
Dual	Channel A (I), Channel B (II), Channel AB (I+II)
NICAM TV broadcasts selection	
Mono	NICAM Mono
Stereo	NICAM Stereo, FM/AM* Mono
Dual	NICAM Channel A (I), NICAM Channel B (II), NICAM Channel AB (I+II), FM/AM Mono*

* Depending on the country, the option is either AM or FM mono.

Quick start guide

Television rear and side view



*EXT 1 provides tuner output. Use EXT 1 to connect a decoder or audiovisual equipment used for recording purposes (ex. VCR).

Turning on the television

To turn on the TV, press on the remote control or on the TV.

NOTE:

- If the TV is not going to be used for a long period of time, unplug the power cord from the AC outlet to remove AC power.

Standby mode and LED indicator

Press on the remote control when the TV is on.

- This will put the TV into standby mode. The image on the TV will disappear and the indicator on the TV will change from green to red. (See page 5.)
- Small amounts of electrical power are being used when the TV is in standby mode. To completely remove power from the TV, unplug the power cord from the AC outlet.
- There is an active standby mode and a passive standby mode.

Quick start guide

- The TV goes into active standby mode when the digital tuner is active. (This is necessary for features such as the timer feature.)
- The TV goes into passive standby mode when the digital tuner is not active.
- When the TV is in active standby mode, it consumes more power than when the TV is in passive standby mode. See "Specifications" on page 31 for specific power consumption information.
- If you want to keep power consumption as low as possible, avoid using features that require the digital tuner to remain active while in standby mode.

The Standby/On LED has the following indications.

Off	Power is off. There is no power to the TV. (The TV is not connected to the mains plug.)
Green	The TV is on.
Red	The TV is in standby mode.

Other LED indicators

See page 5 for the location of the LED indicators.

The Sleep LED indicator has the following indications.

Off	The SLEEP timer mode is set to "Off".
Red	The SLEEP timer mode is set to "On".

The OPC LED indicator has the following indications.

Off	The OPC setting is set to "Off".
Green	The OPC setting is set to "On".

Automatic setup

The first time the TV is powered on, **Auto Install** is activated automatically. The automatic setup feature allows you to set the on-screen display language, set the country or region, and do a search for channels.

NOTE:

- The automatic setup feature will automatically appear only once and only the first time the TV is plugged in. However, you can change these settings at any time (see "Setup Menu" on page 16).
 - Press **END** to exit automatic setup at any time.
 - For the TV to find channels (step 3), you must have an analogue antenna cable connected properly to the TV. (See page 3.)
- 1** Press **▲/▼** to select **Language**, and then press **◀/▶** to select the desired language.
 - 2** Press **▲/▼** to select **Country**, and then press **◀/▶** to select the desired country or region.
 - 3** To do a search for available analogue channels, press **▲/▼** to select **Installation**, and then press **◀/▶** or **OK**.

The auto search begins. The TV performs a frequency scan to detect the TV channels available on the network. During the frequency scan, a TV channel with ACI (Automatic Channel Installation) information may be detected.

ACI information is teletext-based information from the channel source that describes the TV channels (including channel labels and channel numbers) available on the network.

- 4** If ACI information is detected, the ACI information will be displayed on the screen. Press **▲/▼** to select the correct region and then press **MENU**.
- 5** The Auto Installation will end and you are ready to watch analogue TV.

Automatic installation (DTV)

Digital TV or Digital Video Broadcasting (DVB) is a transmission scheme. DVB typically provides more stations, clearer picture quality and other services displayed on the screen. It also allows a range of new features and services including subtitles and multiple audio tracks.

To watch DTV broadcasts, complete the following procedure to scan all available services in your area.

NOTE:

- You cannot use any DTV features until Auto Installation has been completed.
- To complete this step, you must have a digital antenna cable connected properly to the TV. (See page 3.)

- 1** On the remote control, press **DTV**.
 - The DTV Automatic Installation displays.
- 2** Press **◀/▶** to select the desired country or region. Press **OK**. The auto search begins, using the pre-defined frequency channel list for the country or region. Auto Installation will end and you are ready to watch DTV.

Selecting a channel

- 1** On the remote control, press **DTV** to choose the analogue TV mode or the DTV mode.
 - Depending on your selection, a corresponding analogue antenna cable or digital antenna cable must be properly connected to the TV. See page 3.
- 2** You can scroll through the channels using the **P(▲/▼)** buttons. Press **OK** to display the programme list. Or enter the channel using the **0-9** numeric buttons.
- 3** If you are using DTV, you can use the Electronic Programme Guide (EPG) or the Electronic Service Guide (ESG). (See page 26.)

Using external equipment

Setting the input source

To receive audio or video from an external source, set the input source using  on the remote control or the TV.

Connecting audio/video equipment

The way you connect your television depends on the equipment you want to connect, the ports available on the equipment (and the TV), and the quality of the signal you want to receive.

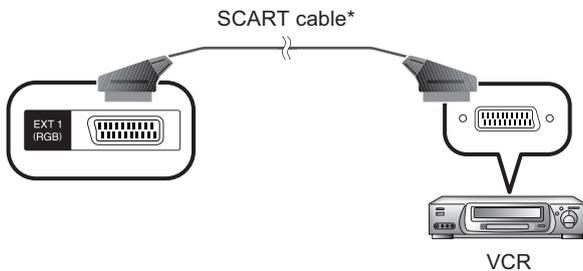
Input and output connections are available on the rear and on the side of the TV. Refer to "Television rear and side view" on page 7 for more information.

NOTE:

- The following diagrams show common connection scenarios. For best results, use the highest quality connection possible.
- The cables marked with * are commercially available items.

Connecting a VCR or DVD (display)

Use EXT1 or EXT2 to connect a VCR, DVD player, and other audiovisual equipment that are used for display.

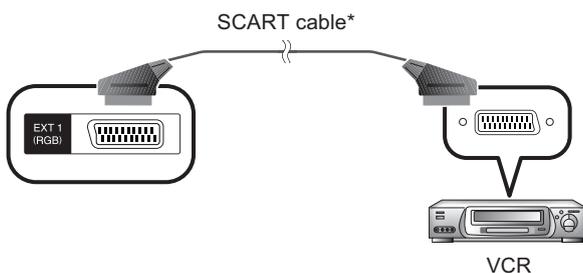


NOTE:

- For optimal display, set the input setting to the type of input being received. See "Input Select" on page 18.
- If you are connecting recording equipment, you must use EXT1.

Connecting a VCR (recording)

Use the EXT1 to connect a VCR or other audiovisual equipment that are used for recording purposes.

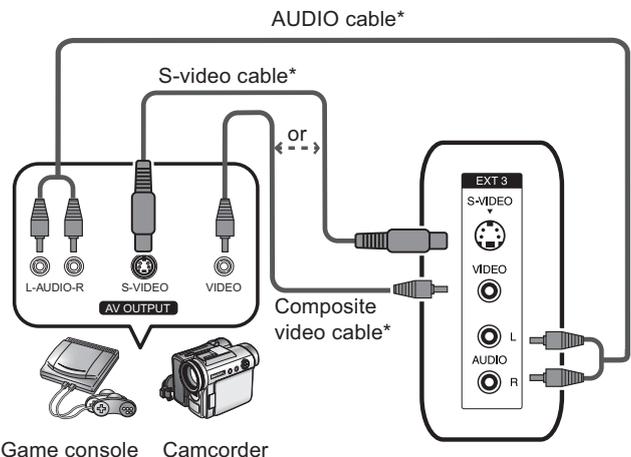


NOTE:

- For optimal display, set the input setting to the type of input being received. See "Input Select" on page 18.

Connecting a game console or camcorder

Connect a game console, camcorder, or similar device to any of the appropriate connections on the TV. However, we suggest using EXT3 on the side panel for convenience.



Game console Camcorder

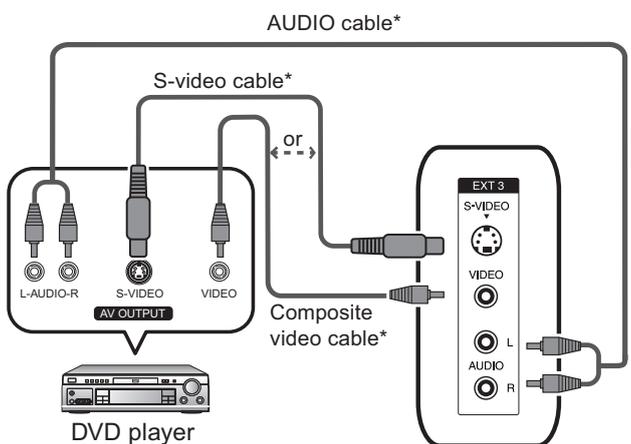
NOTE:

- The S-Video (Y/C) and composite (CVBS) connection cannot be used at the same time.
- For optimal display, set the input setting to the type of input being received. See page 18.

Connecting a DVD player

Use EXT3 (side panel), EXT4, EXT6, or EXT7 to connect a DVD player or similar equipment.

Example 1: EXT3 (side panel)

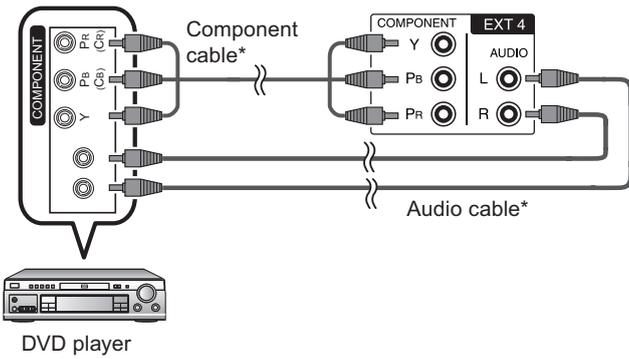


NOTE:

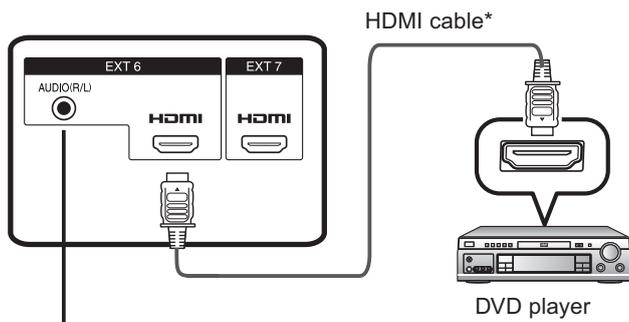
- The S-Video (Y/C) and composite (CVBS) connection cannot be used at the same time.

Using external equipment

Example 2: EXT4



Example 3: EXT6 or EXT7



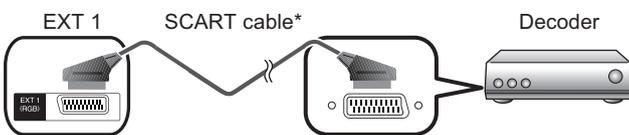
When using an HDMI-DVI conversion adapter/cable, input the Audio signal here

NOTE:

- When connecting an HDMI-DVI conversion adapter/cable to the HDMI terminal, the image may not come in clearly.

Connecting a decoder

Connect a decoder to the EXT1 connection on the TV. Do not use EXT2.

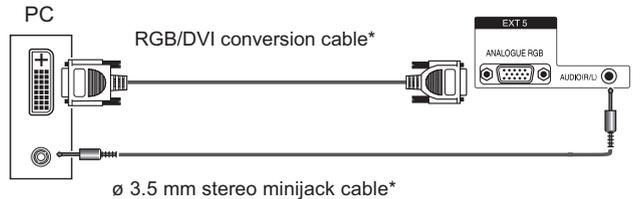
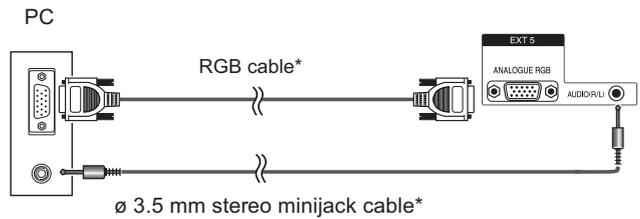


NOTE:

- If the decoder needs to receive signals from the TV, be sure to set the "Decoder" setting on page 17.

Connecting a computer

Use EXT5 to connect a computer. You can also use the S-Video connector in EXT3 (not shown).



NOTE:

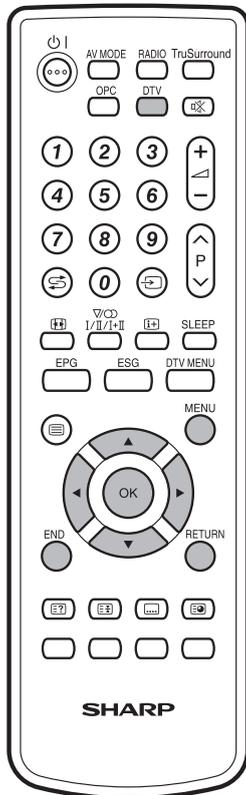
- When connecting to a PC, the correct signal type (of the supported options) is automatically detected. See "PC compatibility chart" on page 30.

Menu operations (main)

This section describes how to use the main menu. The settings in these menus control both the analogue and digital portions of the TV. For information on DTV-specific menus, see page 22.

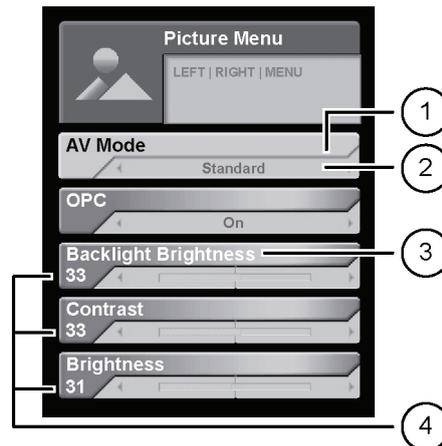
Menu operation buttons

To enter and operate the main on-screen display menus, use the following buttons on the remote control.



- DTV** Switches between analogue TV mode and digital TV mode.
- MENU** Press to display the main menu or close the main menu.
- ▲/▼/◀/▶** Press to move through the on-screen display menu, select an item on the screen, or adjust an item.
- OK** Press to select or execute a highlighted item.
- RETURN** Press to return to the previous menu.
- END** Press to exit the on-screen display menu.

Using the on-screen display



- 1** Items in yellow
 - Indicates the item currently selected.
- 2** Items in light blue
 - Indicates the current setting for an item.
- 3** Items in dark blue
 - Indicates an item that can be selected.
- 4** Number value below a setting
 - For items with a range setting, indicates the exact setting of the item.

NOTE:

- The screens in the operation manual are for explanation purposes (some are enlarged, others are cropped) and may vary slightly from the actual screens.

Menu operations (main)

Common operations

When navigating through the on-screen display, there are three types of menus (described in the following sections).

Menu operation: A

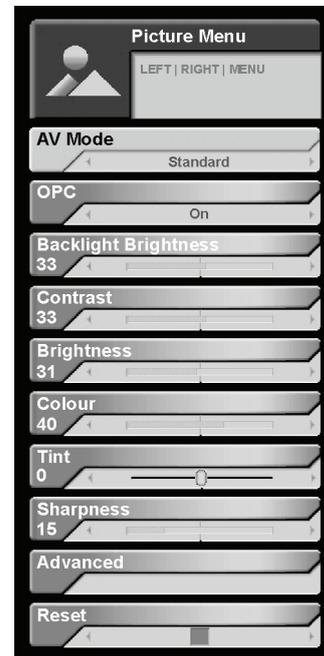
- 1 Press **MENU**.
 - The **TV Menu** screen displays.
- 2 Press **▲/▼** to select the desired menu, and then press **OK**. (Example: **Picture Menu**, **Sound Menu**, etc.).



- 3 Press **▲/▼** to select the desired setting, and then press **◀/▶** to adjust the setting. (Example: **AV Mode**, **OPC**, etc.).
- 4 Press **END** to exit.

Menu operation: B

- 1 Press **MENU**.
 - The **TV Menu** screen displays.
- 2 Press **▲/▼** to select the desired menu, and then press **OK**. (Example: **Picture Menu**, **Sound Menu**, etc.).



- 3 Press **▲/▼** to select the desired setting, and then press **◀/▶** to adjust the setting to the desired position (Example: **Backlight Brightness**, **Contrast**, etc.).
- 4 Press **END** to exit.

Menu operation: C

- 1 Press **MENU**.
 - The **TV Menu** screen displays.
- 2 Press **▲/▼** to select the desired menu, and then press **OK**. (Example: **Picture Menu**, **Sound Menu**, etc.).
- 3 Press **▲/▼** to select the desired sub-menu item, and then press **OK** (Example: **Advanced**, etc.).
- 4 Press **▲/▼** to select the desired setting, and then press **◀/▶** to adjust the setting (Example: **Colour Temperature**, **Blackstretch**, etc.).
- 5 Press **END** to exit.

Menu operations (main)

Picture Menu



AV Mode

Menu Operation: A (page 12)

The **AV Mode** setting provides pre-programmed options that adjust the picture and sound settings. The following options are available.

Dynamic	Provides a high-contrast image. Most useful when viewing sports.
Standard	For use in a normally bright room. Provides a highly defined image.
Soft	Provides a softer image.
User	The user defined setting. To use this feature, select User . Then manually define the video and audio settings. When you select User , these settings will be used.
Eco	Reduces the power consumption of the TV.

NOTE:

- You can also select these options by pressing **AV MODE** on the remote control. (See page 6.)
- Once chosen, you can still manually adjust the picture and sound settings using the available options. See "Picture adjustments" on page 13 and "General Audio Adjustments" on page 15.

Optical Picture Control (OPC)

Menu Operation: A (page 12)

The **OPC** setting automatically adjusts the brightness of the screen to the optimal setting for the background light in the room. The OPC sensor cannot be blocked for this feature to work properly. (See page 5.)

On	The screen brightness automatically adjusts to the optimal setting for the brightness of the room.
On (Display)	The OPC setting is on. The Backlight Brightness setting is displayed on the TV during the adjustment.
Off	The screen brightness is fixed to the value set in the Backlight Brightness setting.

NOTE:

- You can also select these options by pressing **OPC** on the remote control. (See page 6.)

Picture adjustments

Menu Operation: B (page 12)

You can adjust the picture settings manually using the following options.

Option	◀ Button	▶ Button
Backlight Brightness	For less backlight	For more backlight
Contrast	For less contrast	For more contrast
Brightness	For less brightness	For more brightness
Colour*	For less colour intensity	For more colour intensity
Tint*	Skin tones become purplish	Skin tones become greenish
Sharpness*	For less sharpness	For more sharpness
Red**	Removes red from the picture	Adds red to the picture
Green**	Removes green from the picture	Adds green to the picture
Blue**	Removes blue from the picture	Adds blue to the picture

NOTE:

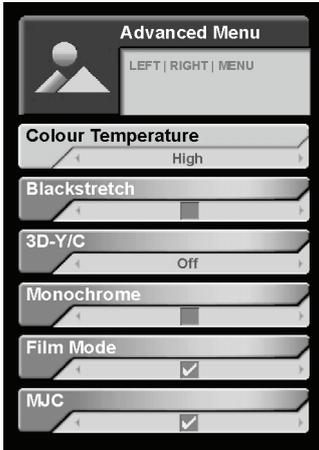
- Items with * are not available when connected to a computer source.
- Items with ** are only available when connected to a computer source.

Menu operations (main)

Advanced

Menu Operation: C (page 12)

The following options allow you to finely tune the picture settings.



Colour Temperature

The **Colour Temperature** setting adjusts the image to provide the best white colour in the image.

High	Adds blue tones to the image
Mid-High	Intermediate
Middle	Natural colourings (middle)
Mid-Low	Intermediate
Low	Adds red tones to the image

Blackstretch

The **Blackstretch** setting automatically adjusts the dark areas of the image for better depth.

3D-Y/C

The **3D-Y/C** setting reduces artifacts in the image such as dot crawl and colour noise.

Off	No adjustments
Standard	Normal adjustment
Fast	For fast moving images
Slow	For slow moving images

NOTE:

- For the SECAM colouring system, only **Off** and **Standard** are available.
- This setting is only available for analogue TV and CVBS input (from the side panel or the SCART connections).

Monochrome

The **Monochrome** setting displays the image in black-and-white.

Film Mode

The **Film Mode** setting increases picture quality by detecting film-based source (originally encoded at 24/25 frames/second, depending on the vertical frequency) and recreating the source for better quality.

Movie Judder Cancellation (MJC)

The **MJC** setting (Movie Judder Cancellation) increases the clarity of fast moving images.

NOTE:

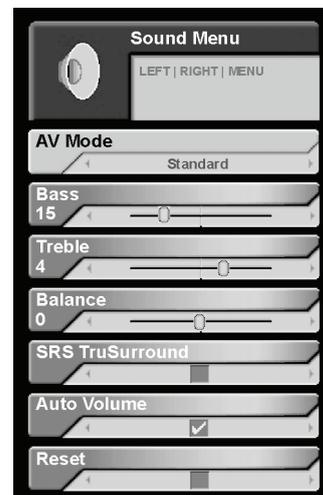
- This setting is not applicable to high-definition or computer source inputs.

Reset

Menu Operation: A (page 12)

The **Reset** setting resets all **Picture** and **Sound** menu settings to the factory default.

Sound Menu



AV Mode

Menu Operation: A (page 12)

This setting links to the **AV Mode** setting in the **Picture** menu. (See page 13.)

Menu operations (main)

General Audio Adjustments

Menu Operation: B (page 12)

Adjust the sound quality to your preference with the **Bass**, **Treble**, and **Balance** settings.

Option	◀ Button	▶ Button
Bass	For less loud lower pitches	For louder lower pitches
Treble	For less loud higher pitches	For louder higher pitches
Balance	Less audio from the right speaker	Less audio from the left speaker

SRS TruSurround

Menu Operation: A (page 12)

SRS TruSurround: This setting provides SRS TruSurround technology. TruSurround delivers a compelling, virtual surround sound experience through the television's two stereo speakers. You will feel as if you are surrounded by additional "phantom" speakers placed all around the room, producing a distinctly immersive surround sound field without the clutter of extra speakers.

NOTE:

- You can also choose this setting by pressing **TruSurround** on the remote control.
- If set to "On", this will automatically turn the **Auto Volume** setting "Off".

Auto Volume

TV/DTV/AV only

Menu Operation: A (page 12)

Sometimes different sound sources do not have the same volume level. (For example, the change in volume between a TV show and advertisements.) The **Auto Volume** setting equalizes the volume levels.

NOTE:

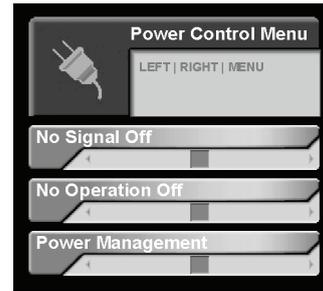
- If set to "On", this will automatically turn the **SRS TruSurround** setting "Off".

Reset

Menu Operation: A (page 12)

The **Reset** setting resets all **Picture** and **Sound** menu settings to the factory default.

Power Control Menu



No Signal Off

Menu Operation: A (page 12)

The **No Signal Off** setting automatically switches the TV into standby mode if there is no signal input or user interaction for 15 minutes.

NOTE:

- A warning is given, starting five minutes before the TV enters standby mode.

No Operation Off

Menu Operation: A (page 12)

The **No Operation Off** setting automatically switches the TV into standby mode if there is no user interaction for three hours.

NOTE:

- A warning is given, starting five minutes before the TV enters standby mode.

Power Management

PC only

Menu Operation: A (page 12)

The **Power Management** setting automatically switches the TV into standby mode if there is no signal input for eight minutes.

NOTE:

- A warning is given, starting 60 seconds before the TV enters standby mode.
- This setting is only applicable to EXT5 connections.

Menu operations (main)

Setup Menu



Language

Menu Operation: A (page 12)

The **Language** setting selects the on-screen display language. Refer to “Specifications” on page 31 for a list of available languages.

Country

TV only

Menu Operation: A (page 12)

The **Country** setting selects the country or region. It specifies settings specific to your country or region, such as the frequency list when doing auto channel scans.

Installation

TV only

The **Installation** setting allows you to setup the analogue TV channels manually.

- 1 Press \Rightarrow to select the TV input source.
- 2 Press **MENU**. The **TV Menu** screen displays.
- 3 Press $\blacktriangle/\blacktriangledown$ to select the **Setup** menu, and then press OK.
- 4 Press $\blacktriangle/\blacktriangledown$ to select **Installation**, and then press OK.
If you have a PIN set in **Child Lock**, enter it now using **0–9**. See page 17 for information.
- 5 Press $\blacktriangle/\blacktriangledown$ to select the desired setting option and then press $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ and OK to select the desired setting.

Programme Selection

The **Programme Selection** setting selects the channel that you want to modify. Enter the desired channel using $\blacktriangleleft/\blacktriangleright$.

Programme Name

The **Programme Name** setting allows you to change channel names to a personalized name.

Use $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ to enter each letter of the new name, and then press OK.

NOTE:

- The channel name can be six characters or less.

Tuner Frequency

The **Tuner Frequency** setting allows you to specify the exact frequency for the channel. Enter the desired frequency using $\blacktriangleleft/\blacktriangleright$ or **0–9**.

NOTE:

- Adjust while checking the background picture as a reference.

Example:

- 179.25 MHz: Press **1** \rightarrow **7** \rightarrow **9** \rightarrow **2** \rightarrow **5**
- 49.25 MHz: Press **0** \rightarrow **4** \rightarrow **9** \rightarrow **2** \rightarrow **5**

Skip

With the Skip setting set to “On”, when scrolling through channels, this channel will not be displayed.

Child Locked

The **Child Locked** setting blocks this channel by means of a password PIN.

NOTE:

- For information on Child Lock, see page 17.

Automatic Installation

The **Automatic Installation** setting searches for all available analogue channels.

- 1 Press $\blacktriangle/\blacktriangledown$ to select this setting, and then press OK.
- 2 The auto search begins.

The TV performs a frequency scan to detect the TV channels available on the network. During the frequency scan, a TV channel with ACI (Automatic Channel Installation) information may be detected.

ACI information is teletext-based information from the channel source that describes the TV channels (including channel labels and channel numbers) available on the network.

- 3 If ACI information is detected, the ACI information will be displayed on the screen. Press $\blacktriangle/\blacktriangledown$ to select the correct region and then press **MENU**.
- 4 The Auto Installation will end and you are ready to watch TV.

NOTE:

- Press **END** to exit at any time.

Menu operations (main)

Colour Standard

The **Colour Standard** setting selects the colour system to receive. See “Specifications” on page 31 for a list of the available colour systems.

NOTE:

- If **AUTO** is selected, the colour system is automatically set. If an image does not display clearly, select a different colour system.
- Depending on the input, not all colour systems are available.

Sound Standard

The **Sound Standard** setting selects the sound system to receive. See “Specifications” on page 31 for a list of the available sound standards.

NOTE:

- Depending on the input, not all sound standards are available.

Decoder

The **Decoder** setting informs the TV that you are using a decoder as part of your audiovisual equipment. See “Connecting a decoder” on page 10.

Overview Menu

TV only

The **Overview Menu** allows you to delete channels and change the channel order.

- 1 Press to select the TV input source.
- 2 Press **MENU**. The **TV Menu** screen displays.
- 3 Press **▲/▼** to select **Setup Menu**, and then press **OK**.
- 4 Press **▲/▼** to select **Overview**, and then press **OK**.

If you have a PIN set in **Child Lock**, enter it now using **0–9**. See page 17 for information.

The **Overview Menu** displays.



- 5 Press **▲/▼/◀/▶** to select the channel.
 - To delete the channel, press **RED**. Press **RED** to confirm.
 - To change the channel order:
 - a. Press **GREEN** to select the channel.
 - b. Press **▲/▼/◀/▶** to go to the desired new position.
 - c. Press **GREEN** again to place the channel in the new position.

Child Lock

TV only

Menu Operation: C (page 12)

The **Child Lock** setting blocks children from accessing specified channels and some on-screen display menus.

If you try to access blocked content when **Child Lock** is set to “On”, the PIN input menu displays. Entering the correct PIN lifts the child lock temporarily until the TV enters standby mode. Enter the PIN using **0–9**.

- If you have already set this feature to “On”, you must enter your PIN to access this menu.

- 1 Press **MENU**. The **TV Menu** screen displays.
- 2 Press **▲/▼** to select the **Setup** menu, and then press **OK**.
- 3 Press **▲/▼** to select **Child Lock**, and then press **OK**.
- 4 Press **▲/▼** to select **Active**, and then press **◀/▶** to set the setting to on or off.
- 5 Press **▲/▼** to select **PIN**, and then enter a 4-digit PIN using **0–9**.

NOTE:

- This setting activates the Child Lock feature and sets a PIN. To block a channel, you must specify which channels to block. See page 16.
- This setting only applies to the analogue TV channels and menus. To block DTV channels and menus, see “Child Lock” on page 25.
- See page 29 for information on resetting the PIN to the factory preset “1234”.
- To change the PIN, enter a new PIN in this menu. To activate the PIN, select **Active**, and change the setting to “Off” and then “On” again.

Fine Sync

PC only

Menu Operation: C (page 12)

The **Fine Sync** setting allows you to manually adjust the image on the TV.

V-Pos.	Moves the image up or down.
H-Pos.	Moves the image left or right.
Clock	Adjusts the screen if the image flickers with vertical stripes.
Phase	Automatically adjusts the screen if text has low contrast or if the image flickers.
Reset	Resets the settings to the factory default.

NOTE:

- Similar adjustments are available on your computer.

Menu operations (main)

Input Label

The **Input Label** setting allows you to customize the label that is displayed for each input source.

- 1 Press  to select the input source whose label you want to change.
- 2 With the input source selected, press **MENU**. The **TV Menu** displays.
- 3 Press **▲/▼** to select **Setup Menu**, and then press **OK**.
- 4 Press **▲/▼** to select **Input Label**, and then press **OK**.
- 5 Use **▲/▼/◀/▶** to enter each letter of the new name, and then press **OK**.

NOTE:

- The name can be six characters or less.
- You cannot change the label if the input source is TV or DTV.

Position

TV/DTV/AV only

Menu Operation: C (page 12)

The **Position** setting adjusts the horizontal and vertical position of the image on the screen.

V-Pos.	Moves the image up or down.
H-Pos.	Moves the image left or right.
Reset	Resets the settings to the factory default.

WSS (Wide Screen Signalling)

TV/DTV/AV only

Menu Operation: A (page 12)

If the incoming broadcast contains wide screen signals, the **WSS** setting allows the TV to automatically switch to the appropriate screen format.

NOTE:

- To adjust the wide screen format manually, see "Wide Mode" on page 20.

Antenna Supply Voltage

Menu Operation: A (page 12)

The **Antenna Supply Voltage** setting turns power "On" or "Off" to the antenna input connection on the rear of the television. (See page 3.)

Clock Menu

Menu Operation: C (page 12)

The **Clock Menu** setting allows you to set a 12-hour or 24-hour clock and set the time manually.

- Press **▲/▼** to select **12/24 Hours Selection**. Press **◀/▶** to set this setting to **12 Hours** or **24 Hours**.
- Press **▲/▼** to select **Set Time**. Press **0-9** to enter the current time.

NOTE:

- If teletext information is available, the TV will automatically synchronize with the time included with the teletext information.

Option Menu



Input Select

Menu Operation: A (page 12)

The TV will automatically detect the type of input for EXT1, EXT2, or EXT3. However, this can be set manually if desired. (For example if the image is unclear.)

EXT 1, EXT 2	Y/C (S-Video), RGB, CVBS
EXT 3	Y/C (S-Video), CVBS

Audio Only

Menu Operation: A (page 12)

The **Audio Only** setting turns off video and only plays the audio from the source.

DNR (Digital Noise Reduction)

TV/DTV/AV only

Menu Operation: C (page 12)

The **DNR** setting (Digital Noise Reduction) produces a clearer image by reducing digital noise. Available options are **High**, **Low**, and **Off**.

Menu operations (main)

Colour Standard

AV only

Menu Operation: C (page 12)

This setting is the same as the **Colour Standard** setting in **Installation**, except for audiovisual input sources. For information on this setting, see page 17.

HDMI Setup

AV only

Menu Operation: C (page 12)

The **HDMI Setup** setting allows you to set the colour space conversion method for HDMI RGB inputs. Available options are **ITU601**, **ITU709**, and **AUTO**.

NOTE:

- This option is only available when EXT6 or EXT7 is selected and an active HDMI source is present.

Useful features

Wide Mode

TV/AV only

You can select the picture size to match the type of signal received.

Image Sizes for Standard Signals

Normal	Displays the picture with a 4:3 aspect ratio. Bars appear on both sides of the image.
Zoom 14:9	For 14:9 letterbox pictures. A thin side bar appears on each side, and you may see bars on the top and bottom with some programmes.
Panorama	In this mode the picture is progressively stretched toward each side of the screen.
Full	For 16:9 squeeze pictures.
Cinema 14:9	For 14:9 letterbox pictures. Bars may appear on the top and bottom with some programmes.
Cinema 16:9	For 16:9 letterbox pictures. Bars may appear on the top and bottom with some programmes.
Auto Format	Automatically selects the most appropriate wide mode for the input.

NOTE:

- For HDMI input, the wide mode is set to **Full** and cannot be changed.

Manual Selection

- 1 Press **[W]**.
 - The **Wide Mode** menu displays.
- 2 Press **[D]** again to scroll through the available options.
 - Each option is immediately reflected on the screen. There is no need to press OK.

Auto Selection

If you want, you can set the following settings to allow the TV to automatically select the wide mode setting using information received from the input source.

- Set **WSS** to "On". Refer to "WSS (Wide Screen Signalling)" on page 18.

Wide Mode

PC only

You can select the picture size to match your preferences.

Image Sizes for PC Input Signals

Normal	The input picture is displayed using the full height of the screen, while maintaining the original aspect ratio of the picture.
Dot-by-Dot	The input picture is displayed without any scaling, matching each picture pixel with a display pixel.
Full	Stretches the picture to fill the screen. This may distort the picture slightly.

NOTE:

- Connect the PC before making any adjustments.
- Selectable picture sizes may vary with the input signal type.
- For best picture quality, set your PC to 1360x768 or 1280x768 format and then select **Dot-by-Dot** in this setting.

Manual Selection

- 1 Press **[W]**.
 - The **Wide Mode** menu displays.
- 2 Press **[D]** again to scroll through the available options.
 - Each option is immediately reflected on the screen. There is no need to press OK.

Freezing Images

You can freeze a picture on the screen.

- 1 Press **[F]** to freeze an image on the screen.
- 2 Press **[F]** again to un-freeze the image.

Using Teletext

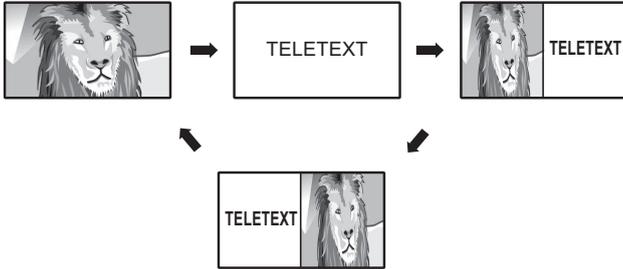
What is Teletext?

Teletext broadcasts pages of information and entertainment to specially equipped television sets. Your TV receives teletext signals broadcast by a TV network, and decodes them into graphical format for viewing. News, weather and sports information, stock exchange prices and programme previews are among the many services available.

Useful features

Turning on and off Teletext

- 1 Select a TV channel or external input source providing the teletext programme.
- 2 Press  to display the teletext.
- 3 Press  again to change the format of the teletext.
 - Each time you press , the screen changes format as shown below.



- If you select a programme with no teletext signal, a warning displays.

Time display

You can display the time information on the screen included in the DTV and teletext broadcasts.

- 1 Select a TV channel that provides teletext information. (The teletext broadcast must include time information. The time information is automatically captured.)
- 2 Press .

NOTE:

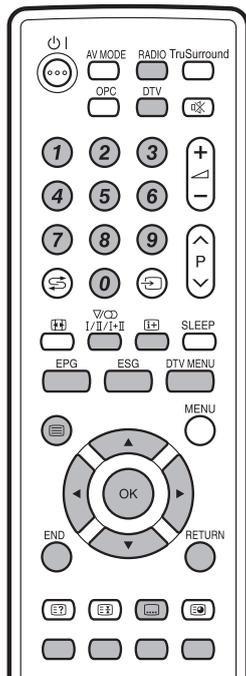
- The time display cannot be stored once the power is turned off. When you turn on the power, perform steps 1 to 2 again.

Button functions

Buttons	Description
P (^ / v)	Move to the next or previous page.
Colour (Red/ Green/Yellow/ Blue)	Select a group or block of pages displayed in the coloured brackets at the bottom of the screen by pressing the corresponding Colour (Red/ Green/Yellow/Blue) on the remote control.
0-9	Directly select any page from 100 to 899 by using 0-9 .
 (Reveal Hidden Teletext)	Reveal or hide hidden information such as an answer to a quiz.
 (Freeze/hold)	Stop updating teletext pages automatically or release the hold mode.
 (Subtitle for Teletext)	Display the subtitle or exit the subtitle screen. <ul style="list-style-type: none"> • Subtitles will not be displayed if the service does not contain the subtitle information.
 (Subpage)	Reveal or hide subpages. <ul style="list-style-type: none"> • The ▲ button is used to navigate to the previous (available) subpage. • The ▼ button is used to navigate to the next (available) subpage.

DTV menu operations

To enter and operate the digital TV on-screen display menus, use the following buttons on the remote control.



-  Press to display the subtitle selection screen.
-  Press to display teletext or the MHEG5 presentation, if available. If both are available, press for MHEG5. Press for 1-2 seconds for teletext.
- 0-9** Press for direct channel entry.
- DTV** Switches between analogue TV mode and digital TV mode.
- EPG** Press to open the **EPG** (Electronic Programme Guide) screen.
- ESG** Press to open the **ESG** (Electronic Service Guide) screen.
- RADIO** Press to switch between TV and RADIO.
-  Press to open the multi audio screen.
- DTV MENU** Press to open or close the **DTV Main Menu** screen.
-  Press to open the service banner or view detailed information from the EPG/ESG screen.
- ▲/▼/◀/▶** Press to move through the on-screen display menu, select an item on the screen, or adjust an item.
- OK** Press to select or execute a highlighted item. Press to access the programme list.
- END** Press to exit the on-screen display menus.
- Colour** Each of the coloured buttons have a unique function assigned in the menu screen.
- RETURN** Press to return to the previous menu.

Using the on-screen display

The DTV on-screen display menus operate in a similar manner to the main on-screen display menus (except the exact colouring differs slightly). (See page 11.)

Common Operations

- 1** Press **DTV** to access DTV mode.
- 2** Press **DTV MENU** to open the DTV on-screen display menus.
- 3** Press **▲/▼** to select the desired menu, and then press **OK**.
 - Press **▲/▼/◀/▶** and **OK** to move through the on-screen display menus and modify settings. Some menu operations differ depending on the item you are going to adjust. See the specific instructions in this section for more information.

Timer

The **Timer** setting allows you to set the TV to automatically tune to a digital TV-event when its on-air time begins.

Use this feature to automatically output audio and video through the SCART connection for recording purposes.

- 1** Press **DTV MENU**.
- 2** Press **▲/▼** to select **Timer**, and then press **OK**.
 - The currently programmed TV-event timers are displayed.



Service	Event	Start	Stop	Date	Mode
BBC 1	Business News	09:00	9:30	08/03/06	daily
ProSieben	S.O.S. Style & Home	09:56	10:00	08/03/06	weekly
KABEL1	Bill Cosby Show	10:16	10:47	08/03/06	once
BBC 2	Holiday Show	20:00	20:50	10/03/06	once

- 3** Press the coloured button to complete the desired task.
 - **YELLOW** — Delete or cancel the selected timer. Press **▲/▼** to select the desired timer and then press the **Yellow** button to delete it. Press **GREEN** to confirm.
 - **GREEN** — Add a new timer. See "New Timer".
 - **BLUE** — Edit a timer. Press **▲/▼** to select the desired timer and then press the **BLUE** button to edit it. See "New Timer" step 3.

DTV menu operations

New Timer

Use the following to setup a new TV-event timer.

- 1 Complete steps 1 to 2 in "Timer" on page 22.
- 2 Press **GREEN**.
- 3 Press **▲/▼** to select the setting, and then enter the timer information using **◀/▶** or **0-9**. Press **GREEN** to accept the timer.

List	Select the channel list for the programme. Either the complete programme list (indicated as TV List), or the favourite list name.
Channel	Select the programme or channel.
Day	Enter the date for the timer.
Mode	Select how often you want the timer to occur. Available options are Once , Daily , and Weekly .
Start	Enter the TV-event start time.
Stop	Enter the TV-event end time.

NOTE:

- If you are using this setting for recording, be sure to set the timer on the recording equipment to the same settings.
- This function cannot be set for channels that are child locked.
- Up to six timers can be set.
- If you are watching another channel, when the TV-event nears, the TV will give a warning on screen before the TV changes channels.
- If timers overlap, when the first TV-event is complete, the TV will switch to the second TV-event (at the current point in the second TV-event).
- Once you set a timer and press **⏻** to enter standby mode, the TV will be in active standby mode and therefore have higher power consumption (in standby mode) until all TV-events are over and the digital tuner is not active.

Channels



To access the **Channels** menu:

- 1 Press **DTV MENU**.

- 2 Press **▲/▼** to select the **Channels** menu, and then press **OK**.

If you have a PIN set in **Child Lock**, enter it now using **0-9**. See page 25 for information.

- The **DTV Channels** menu displays.

Favourites

The **Favourites** setting allows you to create favourite channel lists to allow quicker access to specified channels.

- 1 Complete steps 1 to 2 in "Channels" on page 23.
- 2 Press **▲/▼** to select **Favourites**, and then press **OK**.
- 3 Press **▲/▼/◀/▶** to modify the setting. When finished, press **GREEN**.

Start-Up	Select the default channel list. <ul style="list-style-type: none"> • TV List—The complete programme list. • Personalized names
Favourite 1 - 4	Enter a personalized favourite list name to allow easy selection of the list.

NOTE:

- Up to eight favourite lists can be created. Four for DTV channels and four for radio channels.
- For information on adding and removing channels from a list, see "Edit" on page 23.

Edit

The **Edit** menu allows you to edit and view information about channels.

- 1 Complete steps 1 to 2 in "Channels" on page 23.
- 2 Press **▲/▼** to select **Edit**, and then press **OK**.
- 3 Press **▲/▼** to select the channel.
 - Press **RED** to sort the channel list alphabetically or numerically.
 - Press **BLUE** to change the list from the all channels list (TV List) to channels from different networks.
 - Press **◀/▶** to change channel page.
 - Press **RADIO** to view radio channels.
- 4 Modify the channel as described in the following sections.

Edit Favourite List

The feature allows you to modify the Favourite lists.

- Press **1**, **2**, **3**, or **4** to add the channel to the corresponding favourite list.

DTV menu operations

Child Lock

The **Child Lock** setting allows specific channels to be blocked from viewing.

- Press **YELLOW**. An "L" will appear next to the channel name, indicating that the channel is locked.

NOTE:

- Press **YELLOW** again to unlock the channel.
- This setting indicates what channels to block from access. However, for the **Child Lock** setting to be active, you must first set a PIN. See "Child Lock" on page 25.

Channel Search

Automatic Search

The **Automatic Search** setting allows you to auto search for available channels and radio stations, using the pre-defined frequency channel list for the country or region.

- 1 Complete steps 1 to 2 in "Channels" on page 23.
- 2 Press **▲/▼** to select **Search**, and then press OK.
- 3 To do an automatic search, press **GREEN**.

NOTE:

- Completing an Automatic Search will re-set all modifications previously made.
- Only new channels will be displayed. Already known channels will be not.
- To change the country or region setting, you must reset the receiver. See page 25.
- Press **YELLOW** to enter a specific frequency to scan.

Manual Search

The **Manual Search** menu allows you to manually search for a channel by frequency. (For example, if you want to search for a specific channel, but do not want to re-set all of the channels back to their default settings.)

- 1 Complete steps 1 to 2 in "Edit" on page 23.
- 2 Press **▲/▼** to select **Search**, and then press OK.
- 3 Press **YELLOW**.
- 4 Press **◀/▶** to select the channel you want to search and then press **GREEN**.

Signal Info

The **Signal Info** setting provides advanced information about the signal being received for a service.

Installation



To access the **Installation** menu:

- 1 Press **DTV MENU**.
- 2 Press **▲/▼** to select **Installation**, and then press OK.
If you have a PIN set in **Child Lock**, enter it now using **0-9**. See page 25 for information.
 - The **DTV Installation** menu displays.

Language

The **Language** menu allows you to select the language preference. If a programme contains multiple language information, you can set your first and second preferences for audio and subtitles.

- 1 Repeat steps 1 - 2 in "Installation" on page 24.
- 2 Press **▲/▼** to select **Language**, and then press OK.
- 3 Press **▲/▼** to select the desired setting, and then press **◀/▶** to change the setting.

Audio 1	Specifies the first language preference for the audio.
Audio 2	Specifies the second language preference for the audio.
Subtitles 1	Specifies the first language preference for the subtitles.
Subtitles 2	Specifies the second language preference for the subtitles.

NOTE:

- Additional settings may be available if MHEG service is available. The options for these settings depend on the input received from the channel system.

DTV menu operations

Clock

The **Clock** menu allows you to specify the clock settings.

- 1 Repeat steps 1 - 2 in "Installation" on page 24.
- 2 Press ▲/▼ to select **Clock**, and then press OK.
- 3 Press ▲/▼ to select **Time Zone**, and ◀/▶ to change the setting. If needed, press ▲/▼ to select other settings.

Automatic		The TV will automatically set the time using the information from the input source.
Manual		Allows manual setting of the TV clock.
	Time Zone	Select the number of hours before or after Greenwich Mean Time (GMT).
	Daylight Savings	Set to observe or not observe daylight savings. <ul style="list-style-type: none"> • Yes — The clock will observe daylight savings time. • No — The clock will not observe daylight savings time. • Automatic — The TV will automatically adjust to observing or not observing daylight savings time at the appropriate points in the year.

Child Lock

The **Child Lock** setting blocks children from accessing unwanted channels or content and some on-screen display menus.

You can block access by specifying the specific channel to block or you can specify a maturity rating.

If you try to access blocked content when **Child Lock** is set to "On", the PIN input menu displays. Entering the correct PIN lifts the child lock temporarily until the TV enters standby mode. Enter the PIN using **0–9**.

- 1 Press **DTV MENU**.
- 2 Press ▲/▼ to select **Installation**, and then press OK.
 - The **DTV Installation** menu displays.
- 3 Press ▲/▼ to select **Child Lock**, and then press OK.
- 4 Press ▲/▼ to select **Child Lock**, and then press ◀/▶ to turn the setting "On" or "Off".
- 5 Press ▲/▼ to select **PIN Code**, and then enter a 4-digit PIN using **0–9**.
- 6 Press ▲/▼ to select **PIN Code Again**, and then re-enter the PIN.

- 7 Press ▲/▼ to select **Maturity Level**. Press ▲/▼/◀/▶ to select the desired rating. See page 32.

- 8 Press **GREEN**.

NOTE:

- To activate the PIN, you must reset the receiver. See page 25.
- To restrict a specific channel, see "Child Lock" on page 24.
- For information on resetting the PIN to the factory preset "1234", see page 29.
- To change the PIN, enter a new PIN in this menu.

Reset Receiver

The **Reset Receiver** menu resets the DTV receiver.

- 1 Repeat steps 1 - 2 in "Installation" on page 24.
- 2 Press ▲/▼ to select **Reset receiver**, and then press OK. Press **GREEN** to confirm.
The digital receiver is reset. All channel lists are removed and any user settings (DTV only) are reset to the factory default.
- 3 The receiver will restart automatic installation at step 2. (See "Automatic installation (DTV)" on page 8.)

NOTE:

- Press **RED** to cancel.

About (software version)

The **About** menu provides television software version information.

- 1 Repeat steps 1 - 2 in "Installation" on page 24.
- 2 Press ▲/▼ to select **About**, and then press OK.

Conditional Access

If you are using a conditional access card, this setting provides information about the card.

- 1 Press ▲/▼ to select the name of the conditional access card, and then press OK.

NOTE:

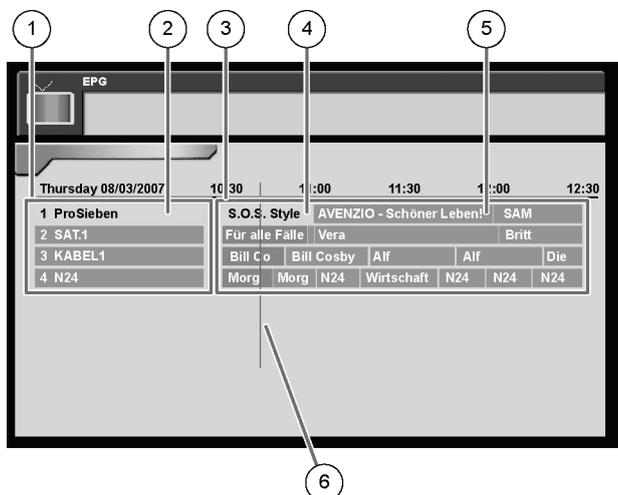
- See page 30 for installation instructions.

Useful features (DTV)

About the Electronic Programme Guide (EPG)

With the Electronic Programme Guide (EPG), you can check the schedule of DTV and Radio events, tune to an event currently on-air, and set a timer for future events.

General EPG screen



- 1 Service list
 - Shows the list of services currently available. As you scroll down the list, the rows in this list update automatically.
- 2 Current service name (highlighted)
- 3 TV-event list
 - Shows the names of current and future TV-events. In most cases, you can check the schedule of TV-events several days ahead.
- 4 Currently tuned TV-event (highlighted)
- 5 Future TV-events
- 6 Current time indicator

Using EPG

- 1 Press **EPG**.

NOTE:

To switch between DTV and Radio mode:

- Press **RADIO**.

To watch a TV-event that is currently playing:

- Press **▲/▼** to select a current TV-event and press **OK**.

To view future TV-events:

- Press **◀/▶** to move the page to the left or right.
- Press **RED** and **GREEN** to go to the previous and next page for this time period.
- Press **Yellow** and **Blue** to go to the previous and next page for these services but a different time period.
- Press **EPG** again to view all TV-events for the selected service.

To get more information about a TV-event:

- Select the TV-event and press **i+** to open the service banner screen.

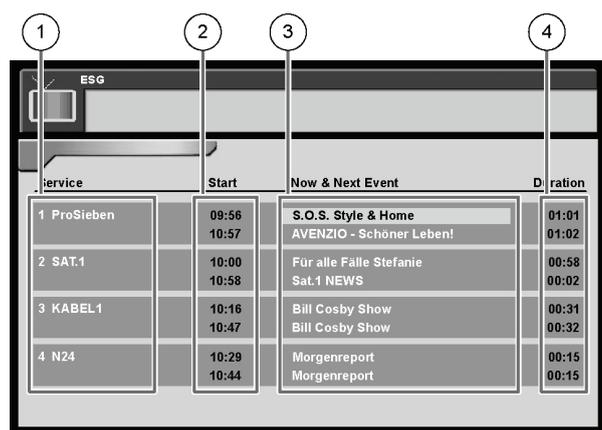
To access the Timer setting:

- Press **▲/▼/◀/▶** to select a future TV-event, and press **OK**. See "New Timer" on page 23 and begin at step 2.

About the Electronic Service Guide (ESG)

The Electronic Service Guide (ESG) is a simplified version of the EPG, giving you only essential information of current events for faster access.

General ESG screen



- 1 Service list
- 2 TV-event start times
- 3 Current and next (future) TV-event information
- 4 TV-event duration

Using ESG

- 1 Press **ESG**.

NOTE:

To scroll through services:

- To scroll service by service, press **▲/▼**.
- Press **RED** and **GREEN** to go to the previous and next page.

To watch a TV-event that is currently playing:

- Press **▲/▼** to select a current TV-event and press **OK**.

To get more information about a TV-event:

- Press **▲/▼** to select the TV-event and press **i+** to open the service banner screen.

To access the Timer setting:

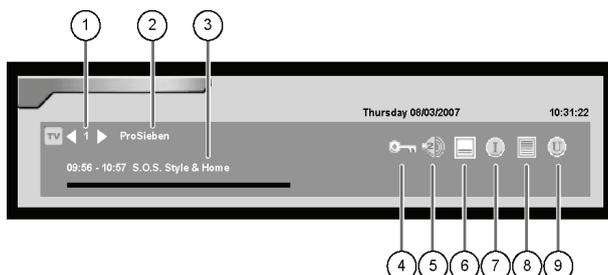
- Press **▲/▼/◀/▶** to select a future TV-event, and press **OK**. See "New Timer" on page 23 and begin at step 2.

Useful features (DTV)

About the Service Banner

The service banner provides information about the selected TV-event.

Service banner (option 1)



- 1 Logical channel number
- 2 Service name
- 3 Current TV-event information
- 4 Content is scrambled (requires CA-card)
- 5 Multiple audio inputs available
- 6 Subtitles are available
- 7 MHEG5 service is available
- 8 Teletext is available
- 9 Maturity rating for this TV-event (see page 32.)
 - **U** — Universal
 - **P** — Parental guidance
 - **X** — X-rated
 - Other numbers — Indicates age appropriateness

NOTE:

- For information on the maturity rating system, see page 32.
- The maturity ratings can always be used to block unwanted content in any country. However, in the service banner:
 - Only digital broadcasts from France will show the Universal and Parental icon.
 - Only digital broadcasts from Spain will show the X-rated icon.

Using the Service Banner

- 1 Press **i+**.
- 2 For more detailed information, press **i+** again.

Using the Digital Programme List

You can select a channel using the digital programme list.

- 1 Press OK when no other on-screen display menu is on the TV.
- 2 Press **▲/▼** to select the TV-event and press OK.
 - Press **◀/▶** to change to the previous or next page.
 - Press **GREEN** to change the list (for example, to a favourites list).



Displaying subtitles

To use the subtitle feature in DTV, do the following.

- 1 Press **...**.
- 2 Press **◀/▶** to select the desired setting.

NOTE:

- The default primary and secondary subtitle language is set in **Language**. (See page 24.)
- More languages may be available (in the digital stream) to select than are available in the **Language** setting.
- Subtitles will not be displayed if the service does not contain the subtitle information.

Useful features (DTV)

Using the MHEG5 application (UK only)

Some services bring you programmes with the MHEG (Multimedia and Hypermedia Expert Group) application encoded, letting you experience DTV interactively.

When provided, the MHEG5 application will start when you press .

- If not available, you will access the Teletext feature. If neither are available, the TV will display a message saying that no information is available.

Software Upgrade (Auto)

The software can be upgraded when necessary via an Over Air Download.

- 1** When you press  to enter standby mode, a message displays that a software upgrade is available.
 - To upgrade the software now, select **Yes**, and then press OK. Follow the screen prompts.
 - To postpone the upgrade, select **No**, and then press OK.
- 2** After the upgrade is completed, the TV restarts automatically with the new software version installed.

NOTE:

- Check the new software version to confirm the successful upgrade. (See page 25.)
- The software upgrade may take up to 30 minutes to complete, depending on the signal status. While updating, you cannot switch to TV or external input mode or enter standby mode using  on the remote control unit.

CAUTION:

- **Do not disconnect the AC cord when the software upgrade is in progress, as this may cause the upgrade to fail. If problem arises, ask a qualified service personnel before the software upgrade period expires.**

Appendix

Troubleshooting

Problem	Possible Solution
<ul style="list-style-type: none"> No power. 	<ul style="list-style-type: none"> Did you press  on the remote control or TV? (See page 7.) If the indicator on the TV is red, press . Is the TV connected to AC power? (See page 3.)
<ul style="list-style-type: none"> Unit cannot be operated. 	<ul style="list-style-type: none"> External influences such as lightning, static electricity, etc., may cause improper operation. Unplug the power cord and wait for one minute. Re-insert the plug into the main socket, wait one minute, and turn on the unit again.
<ul style="list-style-type: none"> Remote control does not operate. 	<ul style="list-style-type: none"> Are the batteries inserted with polarity (+,-) aligned? (See page 4.) Are the batteries worn out? (Replace with new batteries.) (See page 4.) Are you using the remote control under strong or fluorescent lighting?
<ul style="list-style-type: none"> Picture is cut off. 	<ul style="list-style-type: none"> Is the image position correct? (See page 18.) Are the screen mode adjustments (WSS) such as picture size made correctly? (See page 20.)
<ul style="list-style-type: none"> Strange colour, light colour, or dark, or colour misalignment. 	<ul style="list-style-type: none"> Adjust the picture tone. Is the room too bright? The picture may look dark in a room that is too bright. Check the colour system setting. (See page 14, 17, 19.)
<ul style="list-style-type: none"> Power is suddenly turned off. 	<ul style="list-style-type: none"> Check the power control settings. (See page 15.) Is sleep timer set? Press SLEEP on the remote control until it sets to "Off".
<ul style="list-style-type: none"> No picture. 	<ul style="list-style-type: none"> Is connection to external components correct? (See page 9.) Is input signal type selected correctly after connection? (See page 18.) Is the correct input source selected? (See page 9) Is picture adjustments correct? (See page 13.) Is the antenna connected properly? (See page 3 and page 18.) Is "On" selected in "Audio Only"? (See page 18.)
<ul style="list-style-type: none"> No sound. 	<ul style="list-style-type: none"> Is the volume too low? Are headphones connected? (See page 7) Is Mute set to "On"? Check if you pressed  on the remote control. (See page 6.)
<ul style="list-style-type: none"> The menus are displayed in monochrome and it is hard to select the item. 	<ul style="list-style-type: none"> Check if "Monochrome" is set to "On". If so, set it to "Off". (See page 14.)
<ul style="list-style-type: none"> The TV sometimes makes a cracking sound. 	<ul style="list-style-type: none"> This is not a malfunction. This happens when the cabinet slightly expands and contracts according to changes in temperature. This does not affect the TV's performance.

High and low temperature environments

- When the unit is used in a low temperature environment, the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.
- Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction. Refer to "Specifications" on page 31 for information on proper storage temperatures.

IMPORTANT NOTE ON RESETTING THE PIN

We suggest that you remove the following instruction from the operation manual to prevent children from reading it. As this operation manual is multilingual, we also suggest the same with each language. Keep it in a safe space for future reference.



- Analogue TV: Repeat steps 1 to 5 in "Child Lock" on page 17.
For DTV: Repeat steps 1 to 8 in "Child Lock" on page 25.
- Enter "3001" to cancel out the current PIN. The PIN resets to the factory preset "1234".

Appendix

Optional accessories

The listed optional accessories are available for the LCD colour TV. Please purchase them at your nearest shop.

Additional optional accessories may be available in near future. When purchasing, please read the newest catalogue for compatibility and check the availability.

No.	Part Name	Part Number
1	Wallmount bracket	AN-52AG1

Removing / installing the TV stand

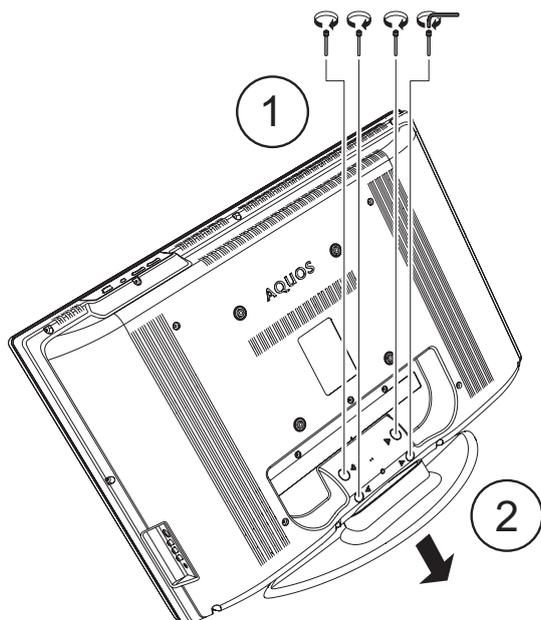
Before you begin, make sure the work area is completely flat. Spread cushioning over the work area to be sure the television does not get scratched or damaged.

To re-attach the stand, reverse these instructions.

CAUTION Before you attach or detach the stand, unplug the AC cord from AC power.



- 1 Remove the four screws from the holes on the rear of the television.
- 2 Slide the stand out of the opening on the bottom of the TV.



PC compatibility chart

Resolution		Vertical Frequency	VESA Standard
VGA	640 x 480	60 Hz	Yes
SVGA	800 x 600	60 Hz	Yes
XGA	1024 x 768	60 Hz	Yes
WXGA	1280 x 768	60 Hz	Yes
WXGA	1360 x 768	60 Hz	Yes

VGA, SVGA, XGA, and WXGA are registered trademarks of International Business Machines Co., Inc.

NOTE:

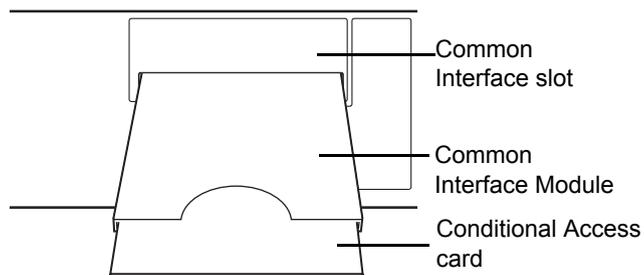
- This TV has only limited PC compatibility, correct operation can only be guaranteed if the video card conforms exactly to the VESA 60Hz standard. Any variations from this standard will result in picture distortions.

Inserting a Conditional Access (CA) card

DTV only

A single DVB Common Interface (CI) will be implemented to allow adoption of a Conditional Access (CA) system by means of a plug-in CA module. Scrambled Broadcasting service can be routed via the CA system.

If the CA system on the CI module requires a smart-card reader, this reader shall be part of the CI module. When the compatible CA card is inserted, you can view the programme without any operations.



When the compatible card is inserted:

- 1 Select the programme which needs the compatible CA card. The caution screen appears.
- 2 Insert the compatible CA card. The caution screen disappears and you can view the programme.

NOTE:

- To view paid TV broadcasting, you need to make a contract with a service provider. Please contact a service provider for details.
- The Common Interface Module and the CA card are neither supplied nor optional accessories.
- For information on the CA card, see "Conditional Access" on page 25. See the CA card instructions for more information.

Specifications

			32" LCD Colour TV ^a	37" LCD Colour TV ^b	42" LCD Colour TV ^c
LCD screen size			32" diagonal	37" diagonal	42" diagonal
Number of pixels			1366 x 768		
Video colour system			PAL, PAL 60, NTSC 3.58, NTSC 4.43, SECAM		
Sound standard			B/G, L/L', I, D/K		
TV Function	TV-Standard	Analogue	CCIR (B/G, I, D/K, L, L')		
		Digital	DVB-T (2K/8K OFDM)		
	Receiving Channels	VHF/UHF	E2-E69ch, F2-F10ch, I21-I69ch, IR A-IR Jch, (Digital: E5-E69ch)		
		CATV	Hyper-band, S1-S41ch		
	TV Tuning System		Auto Preset channels, Auto Label, Auto Sort		
Stereo/Bilingual		NICAM/A2			
Brightness			450 cd/m ²		
Backlight life			60,000 hours		
Viewing Angles			H: 176° V: 176°		
Audio amplifier			Class D audio amplifier, 2x 10Watt		
Speaker			126 mm x 58 mm		
Terminals	Rear	Antenna	UHF/VHF 75 ohm Din type (Analogue & Digital)		
		EXT 1	SCART (S-Video input, analogue RGB input, CVBS input, tuner CVBS output)		
		EXT 2	SCART (S-Video input, analogue RGB input, CVBS input/output)		
		EXT 4	Component Video input (Y,Pb,Pr input), left/right RCA pin audio input		
		EXT 5	VGA input, ∅ 3.5 mm stereo input		
		EXT 6	HDMI input, ∅ 3.5 mm stereo input		
		EXT 7	HDMI input		
		CI-Slot (Common Interface)	EN50221, R206001		
		Output	Left/right RCA pin audio output		
		Service	D-Sub 9 Service port (for qualified service personnel only)		
	Side	EXT 3	S-Video (Y/C input), CVBS input, left/right RCA pin audio input		
		Headphones	∅ 3.5 mm jack (audio output)		
OSD Languages			English, German, French, Spanish, Dutch, Portuguese, Turkish, Greek, Russian, Italian, Polish, Swedish, Finnish		
Power Requirement			AC 220-240 V, 50 Hz		
Power Consumption			141 W (<9 W Active standby) (<1 W Passive standby)	177 W (<9 W Active standby) (<1 W Passive standby)	190 W (<9 W Active standby) (<1 W Passive standby)
Weight			19 kg (display with stand) 17 kg (display only)	23.5 kg (display with stand) 20 kg (display only)	32 kg (display with stand) 28.5 kg (display only)
Operating Temperature			0°C – 35°C		

a. Model numbers: LC-32WD1E, LC-32WT1E, LC-32WD1S

b. Model numbers: LC-37WD1E, LC-37WT1E, LC-37WD1S

c. Model numbers: LC-42WD1E, LC-42WT1E, LC-42WD1S

As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

NOTE: Refer to inside back cover for dimensional drawings.

Appendix

Rating Table for Child Lock

Broadcasted rating \ User-adjusted rating	AGE														
	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Universal	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Parental	✓	✓	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
X-rated	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Broadcasted rating \ User-adjusted rating	Universal	Parental	X-rated
	Universal	—	—
Parental	✓	—	—
X-rated	✓	✓	—

A. Information on Disposal for Users (private households)



Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

1. In the European Union

Attention: If you want to dispose of this equipment, please do not use the ordinary dust bin!

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment. Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one.
*) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

2. In other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the homepage of www.swico.ch or www.sens.ch.

B. Information on Disposal for Business Users

1. In the European Union

If the product is used for business purposes and you want to discard it:

Please contact your SHARP dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.

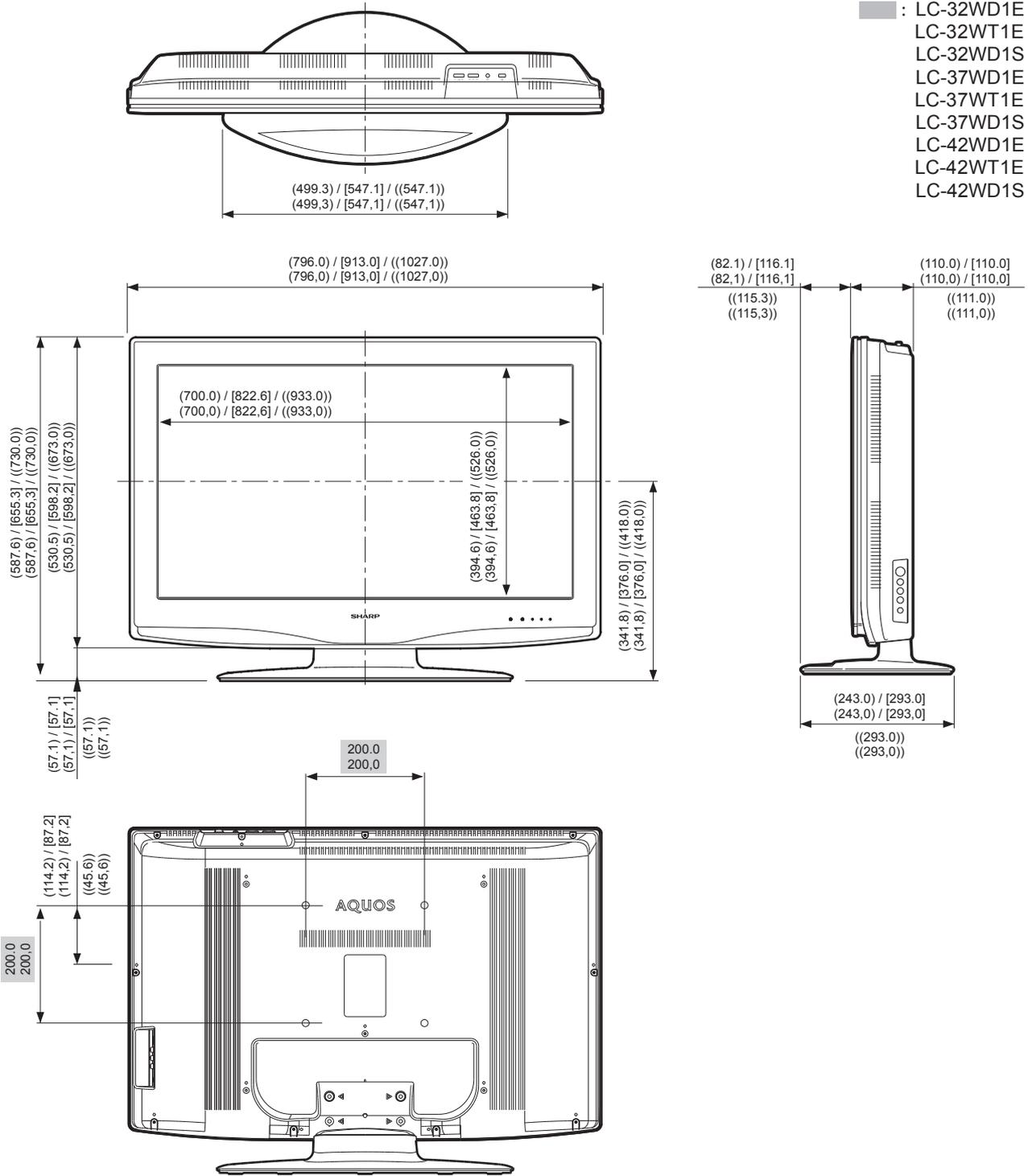
For Spain: Please contact the established collection system or your local authority for take-back of your used products.

2. In other Countries outside the EU

If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.

LC-32WD1E / LC-37WD1E / LC-42WD1E
 LC-32WT1E / LC-37WT1E / LC-42WT1E
 LC-32WD1S / LC-37WD1S / LC-42WD1S

- () : LC-32WD1E
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