

OPERATION MANUAL

Dear SHARP customer

Thank you for your purchase of the 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.

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Precautions for daily use

Observe the following items

Maintenance of the cabinet

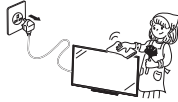
- When cleaning the cabinet, use a soft cloth (made of cotton, floss, etc.) to clean gently.
Do not use a dry or damp rag mixed with chemicals, as this could cause the ingredients of the cabinet body to deteriorate or crack.
- Be careful not to use an abrasive cloth for cleaning or clean with excessive force, as this could scratch the surface of the cabinet.
- If the cabinet is greatly soiled, clean with a soft cloth (made of cotton, floss, etc.) soaked with a small amount of diluted neutral detergent and wrung out, and then clean with a soft dry cloth.
- Because the cabinet is made of plastic, solvents such as benzene, alcohol or thinner could cause it to deteriorate, or make its coating come off. Therefore do not use such solvents to clean the cabinet.
- Because plasticizer is included in the plastics, deterioration or the coating peeling off could occur when the cabinet comes into contact with some substances. Therefore keep it away from volatile substances such as insecticide. In addition, do not let it come into contact with objects made of rubber, resin, etc. for a long time.

Maintenance of the LCD panel

- Before cleaning the LCD panel, be sure to turn off the TV set and unplug the power cord from the outlet.
- When cleaning the LCD panel, use a dry and soft cloth (made of cotton, floss, etc.) to clean the surface of the LCD panel gently. For protecting the LCD panel, do not clean with a dirty cloth, detergent, or a dry or damp rag mixed with chemicals, as this could cause peeling of the panel surface.
- Be careful not to clean with an abrasive cloth or with excessive force, as this could cause the panel surface to be scratched.
- If the LCD panel is greatly soiled, clean it gently with a soft cloth (made of cotton, floss, etc.) soaked with a small amount of water (Do not clean with excessive force, so as to avoid the scratch of the panel surface).
- If dust sticks on the surface of the LCD panel, clean the panel with a commercially available cleaning brush (anti-static brush).

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 alcohol cleaners, spray cleaners or chemical cloth when cleaning because these types of materials may damage the product.



- **Water and moisture** — Do not use the product near water, such as 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. Do not place the product under air conditioner, humidifier and so on. The water may spill onto the product causing fire or electric shock.



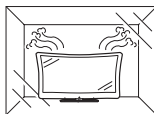
- **Stand** — Do not place the product on an unstable cart, stand, tripod or table. Doing so can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. 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 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.



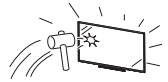
- In case the product is dropped and the cabinet is damaged, be sure to turn off the power of the product, and unplug the power cord. If you continue to use the product, it may cause fire or electric shock.



- Do not open the rear cover of the cabinet to reconstruct the circuits. There exists high voltage within the cabinet and it may cause electric shock and injury. If maintenance is required, contact your dealer.



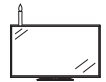
- The LCD panel used in this product is made of glass. Therefore, it can break when the product is struck forcefully or with a sharp object. If the LCD panel is broken, be careful not to be injured by broken glass.



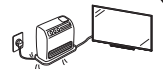
- **Heat sources** — Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers)



- To prevent fire, never place any type of candle or naked flames on the top or near the TV set.



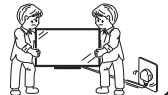
- To prevent fire or shock hazard, do not place the AC power cord under the TV set or other heavy items.



- Do not place heavy objects on this product or stand on it. Doing so could cause injury if the product overturns. Take special care near children and pets.



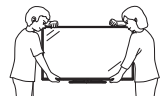
- Unplug the power cord before you move the TV set. If not unplugged beforehand, the power cord may become damaged and cause electric shock.



The LCD panel is a very high technology product with 8,294,400 pixels, giving you 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 blue, green or red. This is within product specifications and does not constitute a fault.

Precautions when transporting the TV

- When transporting the TV, never carry it by holding or otherwise putting pressure onto the display. Be sure to always carry the TV by at least two people holding it with two hands — one hand on each side of the TV.



- Do not display a still picture for a long time, as this could cause an afterimage to remain.

- Install the product on the place where the AC cord can be unplugged easily from the AC outlet.

NOTE

- The above are pictures for reference only; the actual item might be different.

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- SDHC logo is a trademark of SD-3C,LLC.
- MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

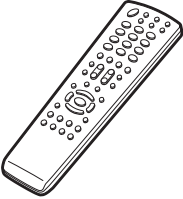



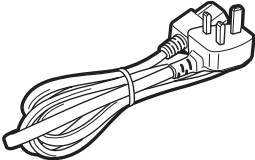
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- The operation manual has been collated and checked strictly. Due to factors such as software upgrading, SHARP can not guarantee that the actual operation keeps pace with the manual description.

Accessories

Supplied accessories

Make sure the following accessories are provided with the product.

Remote control unit	"AAA" size battery (×2)	Operation manual
 Used with batteries inserted. Page 11	 Page 15	
Stand unit		AC cord
 "L"Stand "R"Stand Supporting post(x2) Screws (x12) Page 7		 Please use the AC cord supplied with the TV.

Preparation

Attaching the stand unit

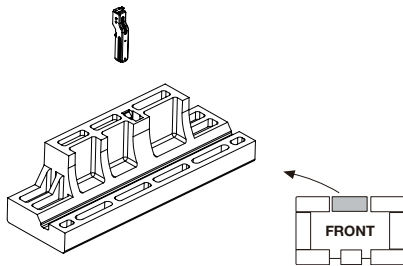
- When you attach the stand unit, put the TV on a flat surface.
- Before attaching (or detaching) the stand unit, unplug the AC power cord from the AC power outlet.
- Before performing work, spread cushioning over the surface on which you will be laying the TV. This will prevent it from being damaged.

CAUTION

- **Attach the stand unit in the correct direction.**
- **Be sure to follow the instructions. Incorrect installation of the stand unit may result in the TV falling over.**

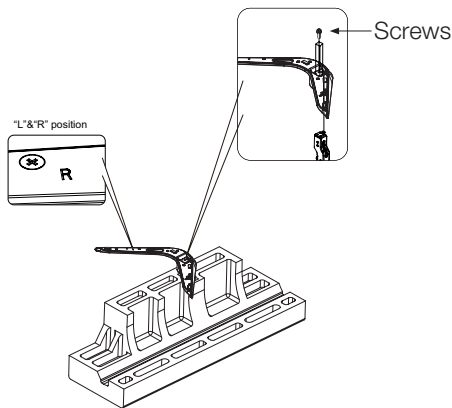
1

- ① Insert the supporting post "R" into the foam block as shown in the figure below.



- ② As illustrated in the following figure, attach the "R" stand onto the supporting post "R". Insert the four screws into the four holes on the bottom of the stand, and tighten them.

- To install the stand correctly, hold the stand with one hand securely, and tighten the screws with the other hand.

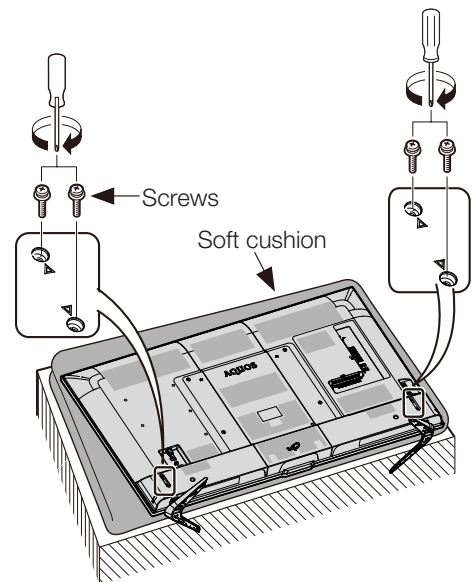


- ③ According to the steps ① ②, install the other stand "L".

2

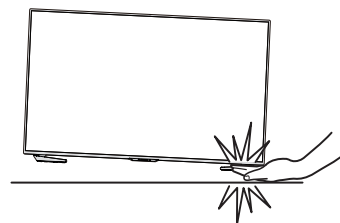
Place the TV on a flat surface with soft cushion on top of it. Insert the stand unit into the slot on the bottom of the TV while holding the stand unit to avoid it falling over.

Insert the rest of four screws into the four holes on the back of the TV, and tighten them.



NOTE

- When installing the stand unit, you need to put your TV on a flat surface. Before that, put a soft cushion on the surface.
- To detach the stand unit, perform the steps in reverse order.
- The angle of the stand unit is not adjustable.
- A screwdriver is not supplied with this product.
- During installation, please be careful to avoid getting your hand trapped between the TV bottom and the floor.

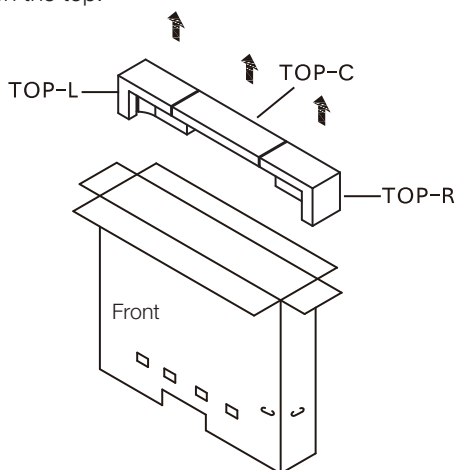


Preparation

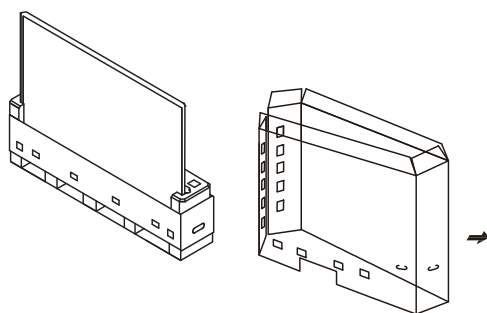
How to make a simple platform

To make such a simple platform, you need to use the packing box and the three foam blocks inside it: TOP-L, TOP-C and TOP-R.

- 1** As shown in the following figure, remove the three foam blocks TOP-L, TOP-C and TOP-R on the top.



- 2** As illustrated in the following figure, disassemble the packing box from one side.



- 3**
- ① As shown in Figure A, reassemble the packing box from the side, and place it face down.
 - ② Attach the foam blocks TOP-L and TOP-R onto the right side and left side of the packing box respectively (as shown in Figure B).
 - ③ Insert the foam block TOP-C into the packing box (as shown in Figure B). Now, a simple platform is ready.

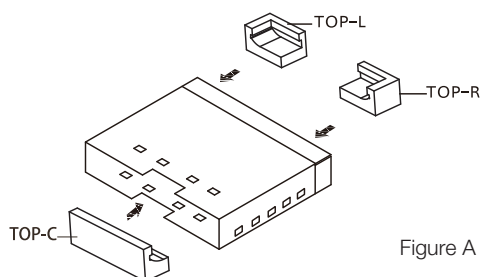


Figure A

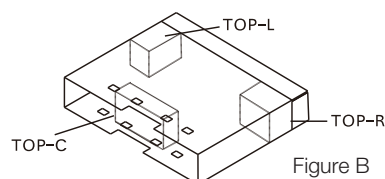


Figure B

NOTE

- Put the platform on the flat floor after you have made it.
- When installing the stand, you need to put the TV face down on the simple platform. Before that, put a shock pad on the platform to protect the screen.
- The simple platform is just for temporary use. Do not apply any load exceeding the weight of the LCD TV onto this platform.

Handling and precautions with the wall-mounted TV

- You can mount the TV on the wall using the optional bracket.
- For details, refer to the instructions supplied with the optional bracket.

CAUTION

- **This TV should be mounted on a wall only with a wall mount bracket recommended by SHARP. The use of other wall mount brackets may result in an unstable installation and may cause serious injuries.**
- **Installing the TV requires special skills 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.**

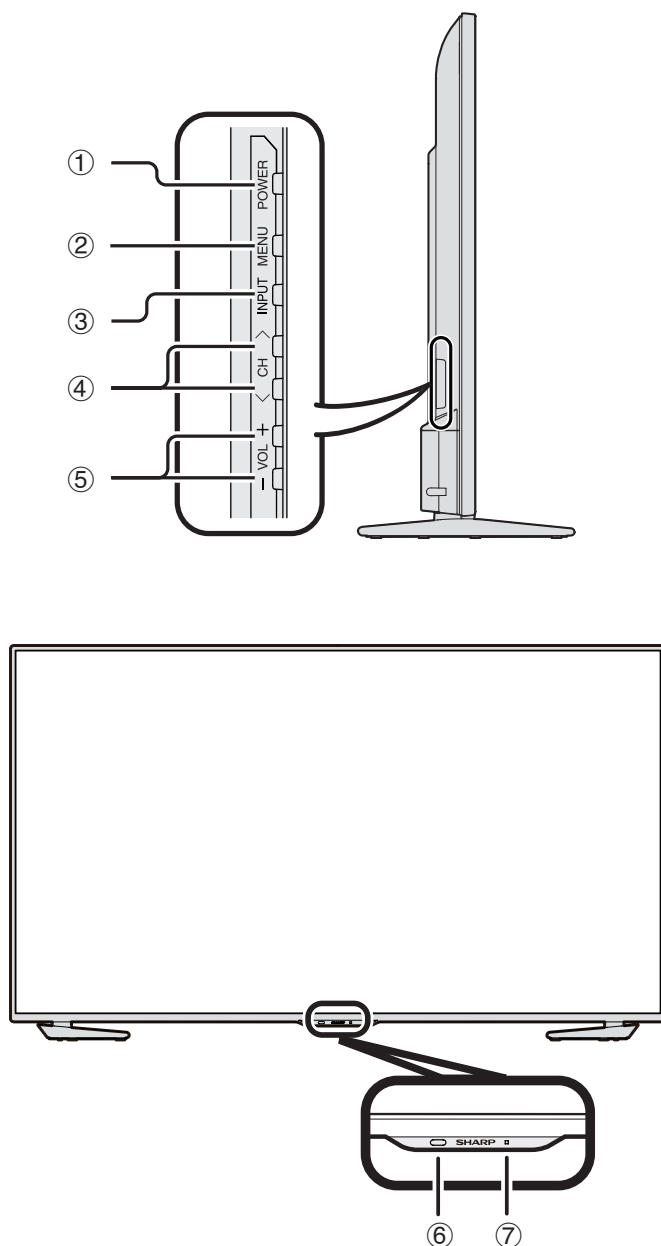
Using a SHARP recommended bracket to mount the TV

- You can ask a qualified service professional about using a SHARP recommended bracket to mount the TV to the wall.
- Carefully read the instructions that come with the bracket before beginning work.

Preparation

Part names

TV (Side / Front)

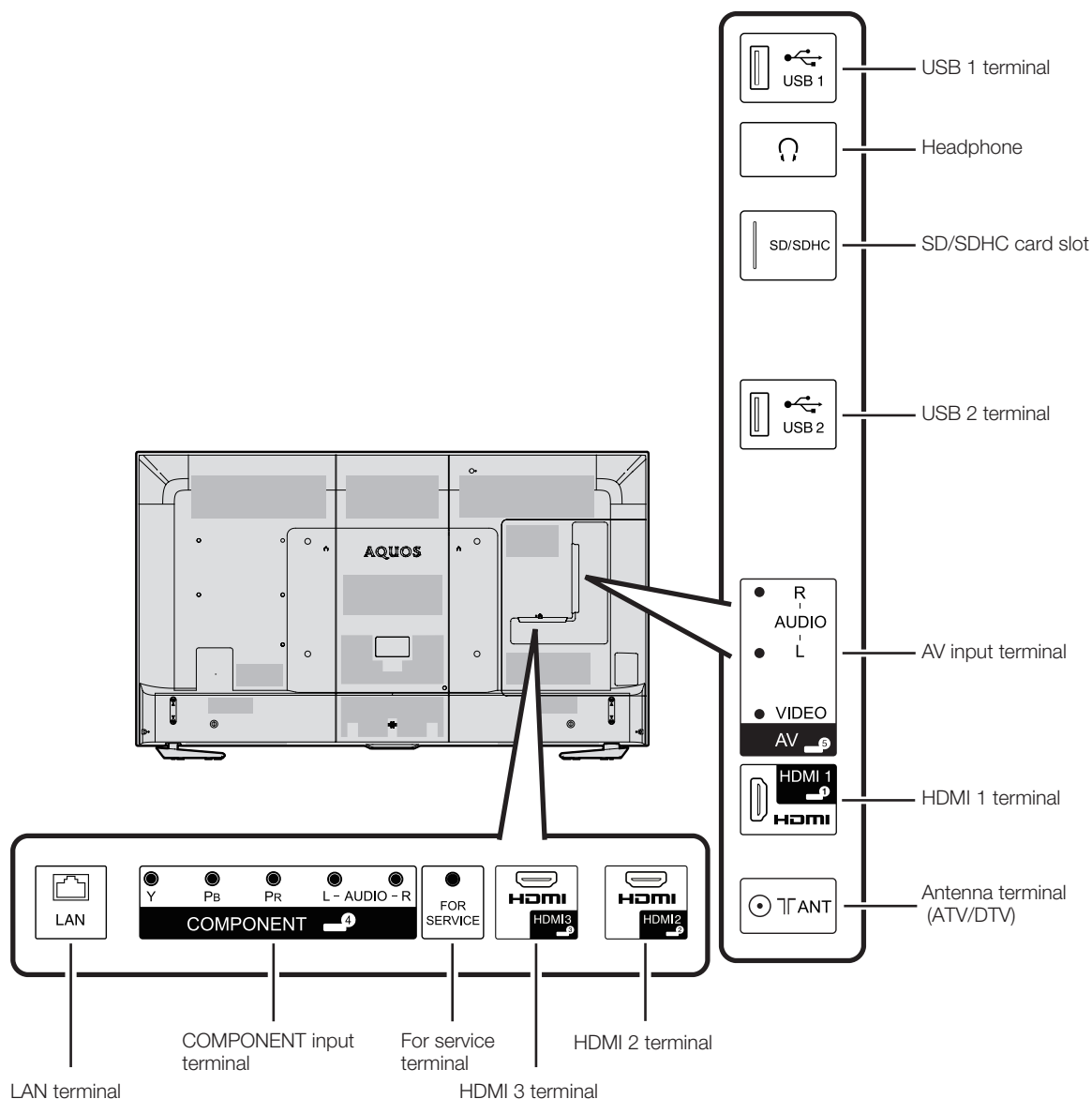


- ① **POWER** (On/Off) button
- ② **MENU** button
- ③ **INPUT** button
- ④ **CH** \wedge/\vee (Channel up/down) buttons

- ⑤ **VOL** $+/-$ (Volume up/down) buttons
- ⑥ Remote control sensor
- ⑦ Power indicator

- The illustrations and on-screen displays in this operation manual are for explanation purposes and may vary slightly from the actual operations.

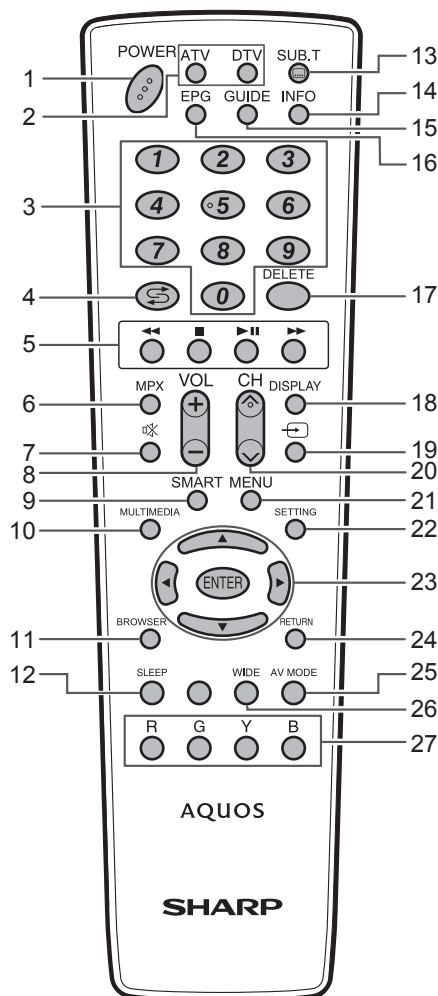
TV (Rear)



Regarding the headphone jack

- Use headphones with a stereo mini plug (Ø 3.5 mm).
- Be sure to unplug headphones from the jack when they are not in use.
- The speakers do not output volume when headphones are plugged in.

Remote control unit



- 1 POWER (Standby/On)**
To switch the power on and off. (See page 16.)
- 2 ATV (Analogue TV)**
Press to access analogue TV mode.
DTV (Digital TV)
Press to access digital TV mode.
- 3 0 - 9**
Set the channel.
- 4 FLASHBACK**
Press to return to the previous selected channel or external input mode. (See page 24.)
- 5 << ■ >> II >>**
(Rewind, Stop, Play/Pause, Fast-forward)
Play in Multi Media Player. (See page 30.)
- 6 MPX**
Select the sound multiplex mode. (See page 24.)
- 7 MUTE**
Mute the sound. (See page 24.)
- 8 VOL + / -**
Set the volume.
- 9 SMART**
Display the smart home. (See page 27.)

- 10 MULTIMEDIA**
Access to multimedia player. (See page 29.)
- 11 BROWSER**
Start browser. (See page 27.)
- 12 SLEEP**
Set the sleep timer. (See page 18.)
- 13 SUB.T (Subtitle)**
Switch subtitles. (See page 22.)
- 14 INFO**
DTV only: Display the programme information.
- 15 GUIDE**
DTV only: To display programme list. (See page 24.)
- 16 EPG**
DTV only: To display channel list screen. (See page 24.)
- 17 DELETE**
Delete the characters. Press it continually to delete characters quickly.
- 18 DISPLAY**
Display the channel or input information.
- 19 INPUT**
Select an input source. (ATV, DTV, HDMI1, HDMI2, HDMI3, Component, AV.) (See pages 13, 27.)
- 20 CH ^ / v**
TV input mode: Select the channel.
- 21 MENU**
Display the menu list.
- 22 SETTING**
Show the App's menu.
- 23 ▲ / ▼ / ◀ / ▶ (Cursor)**
Select a desired item on the setting screen.
- ENTER**
Execute a command.
- 24 RETURN**
Return to the previous menu screen.
- 25 AV MODE**
Select a AV mode. (See page 19.)
- 26 WIDE**
Change the wide image mode. (See pages 19, 20.)
- 27 Colour Buttons (R / G / Y / B)**
The coloured buttons are used to select correspondingly to the coloured items on the screen.

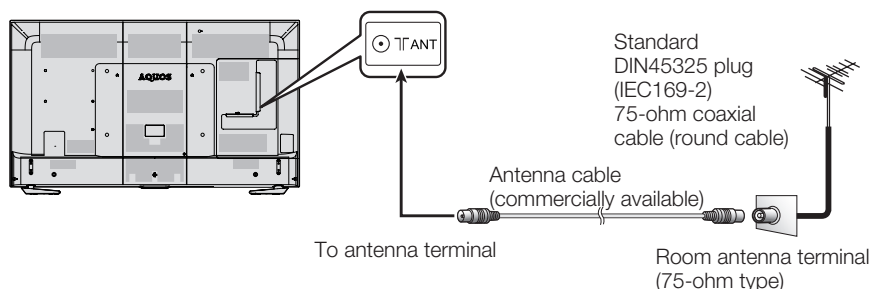
Before turning on the power

Notes on installing the TV

- Avoid direct sunlight and place the TV in a well-ventilated location.
- Place the TV in a level location.
- Do not turn on the power of the TV before connecting the AC cord.
- If there are any protective plastic sheets on the TV cabinet, please take them off before connecting.

1 Connecting the antenna cable

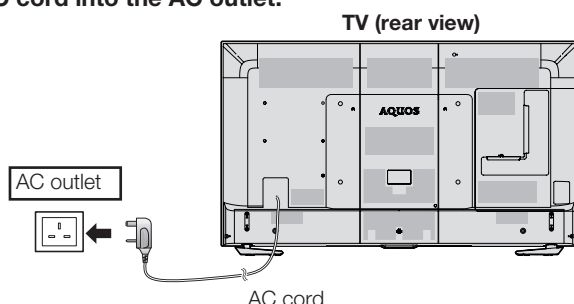
To enjoy a clearer picture, use an outdoor antenna. The following is a brief explanation of the types of connections that are used for coaxial cable.



2 Connecting external devices

See page 13 for connecting external equipment, such as a VCR and DVD player.

3 Plug the AC cord into the AC outlet.



- Place the TV close to the AC outlet, and keep the power plug within reach.
- Disconnect the AC cord from the AC outlet if the TV will not be used for a long period of time.

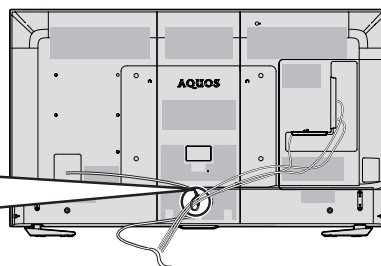
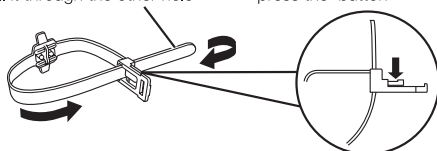
4 Bundling the cables

As the picture illustrated, insert the cable clip into the hole on the TV, and put the cable into the cable clip for banding.

- ① Fix AC cord and other wires with a wire holder.
- ② Pull the band through the hole to adjust the degree of tightness.

If the band is too long, pull it through the other hole.

To loosen the wire holder, press the button.




CAUTION

- To prevent risk of electric shock, do not touch un-insulated parts of any cables with the AC cord connected.

Preparation

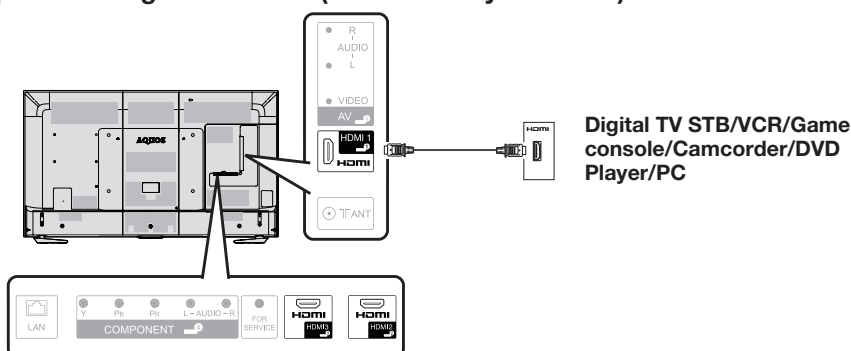
Connecting external devices

You can connect many types of external equipment to your TV, like a VCR, Digital TV Set Top Box (STB), game console, camcorder, DVD player and PC. To view external source images, select the input source from  on the remote control unit or **INPUT** on the TV.

CAUTION

- To protect all equipment, always turn off the TV before connecting to a VCR, game console, camcorder, DVD player, Digital TV Set Top Box (STB), PC or other external equipment.
- Refer to the relevant operation manual (Digital TV Set Top Box (STB), VCR, DVD player, etc.) carefully before making connections.

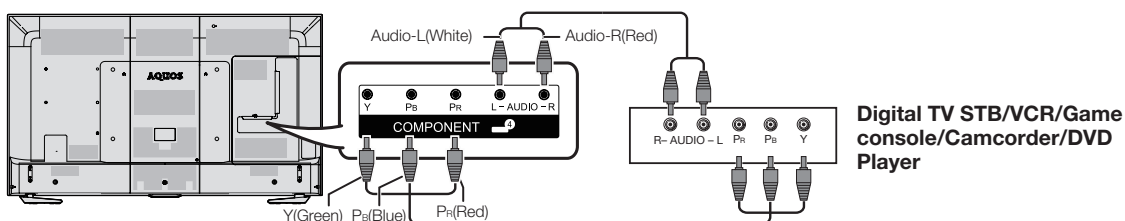
■ When using HDMI cable (commercially available)



NOTE

- When using a TV set-top box to watch TV programs, use the set-top box remote control to switch channels.

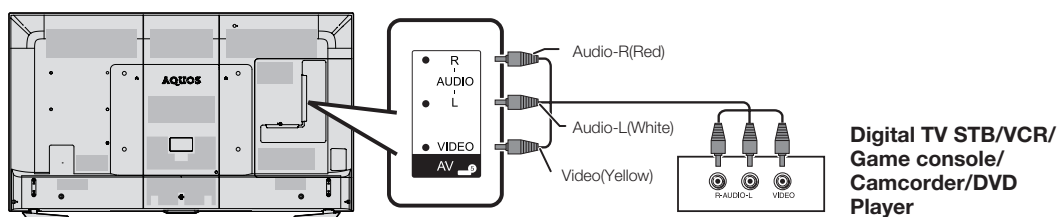
■ When using component cable (commercially available)



NOTE

- Insert the terminals by colour.

■ When using AV cable (commercially available)



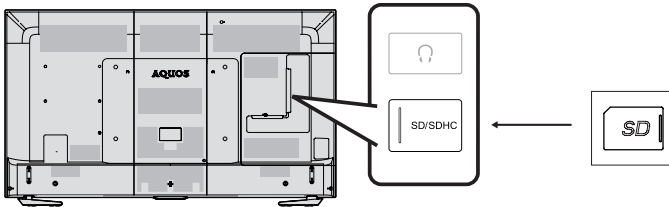
NOTE

- Insert the terminals by colour.

Preparation

Inserting a SD/SDHC memory card (commercially available)

It provides access to Apps ,video,music,and other files in SD/SDHC memory cards.
Insert a SD/SDHC memory card that stores your files into the SD slot. Refer to the method of playing files stored in the USB device specified on page 29 for details.



NOTE

- Insert the memory card into the slot in the direction shown in the figure.
- The SD slot supports SD and SDHC memory cards. However some memory cards may not be supported.
- This product supports memory cards with a maximum storage of 32 GB. We recommend that you use a memory card with at least a speed of Class 4 for a higher read-write speed, thus guaranteeing the system performance.
- Unplug the memory card after you have safely unloaded it or the TV has been turned off.
- Do not unplug the memory card while data is being transferred. Otherwise the TV may malfunction.
- Regularly back up data in the memory card to prevent data corruption or operating errors of the TV. (SHARP shall not bear any responsibility for data corruption or destruction.)

Connecting a USB memory device

See page 29.

Connecting to the Network

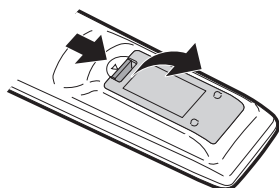
See pages 25 to 26.

Preparation

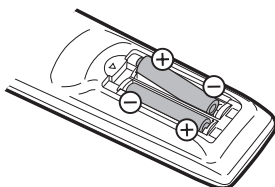
Inserting the batteries

Before using the TV for the first time, insert two “AAA” size batteries (supplied). When the batteries become depleted and the remote control fails to operate, replace the batteries with new “AAA” size batteries.

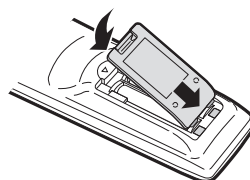
1 Open the battery cover.



2 Insert the two supplied “AAA” size batteries.



3 Close the battery cover.



- Place batteries with their terminals corresponding to the (+) and (–) indications in the battery compartment.

CAUTION

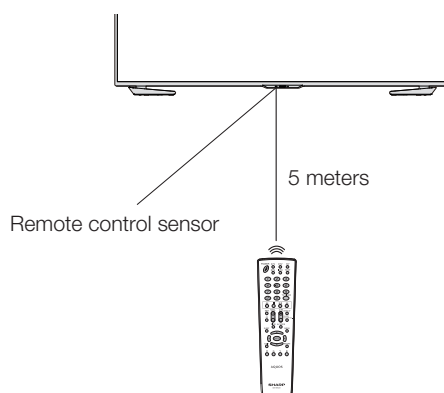
Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.

- Do not mix batteries of different types. 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 thoroughly 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 unit for an extended period of time, remove the batteries from it.
- Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

Using the remote control unit

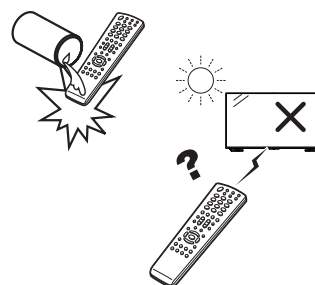
Use the remote control unit by pointing it towards the remote sensor window.

Objects between the remote control unit and sensor window may prevent proper operation.

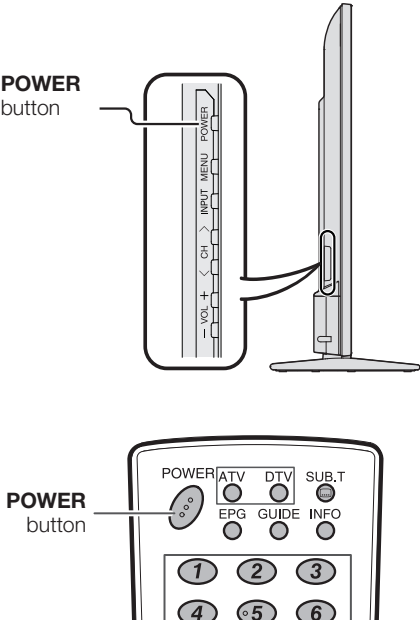


Cautions regarding the remote control unit

- Do not subject the remote control unit to shock. In addition, do not soak the remote control unit with liquids or place it in an area with high humidity.
- Do not install or place the remote control unit under direct sunlight. The heat may cause deformation of the unit.
- The remote control unit may not work properly if the remote sensor window of the TV is under direct sunlight or strong lighting. In such cases, change the angle of the lighting or TV, or operate the remote control unit closer to the remote sensor window.



Turning the TV on/off



Power indicator

Off	Power off
Red	TV is in standby
Green	TV is switched on

NOTE

- If you are not going to use this TV for a long period of time, be sure to remove the AC cord from the AC outlet.
- A small amount of electric power is still consumed even the TV is in standby mode.
- If TV loses power in special circumstances (such as power outage or grid fluctuations, etc.), TV may not work well when TV is switched on again. Please try to power off the TV (by the **POWER** key on the TV or the **POWER** on the remote control) or unplug and replug the AC cord to restart the TV.
- It is a normal phenomenon when the TV temperature rises in the process of watching TV.
- Please do not cut the power off casually in the process of switching on or switching off the TV, running APPS or updating, otherwise TV system could not work rightly. Please turn off TV after closing all APPS.

Running the TV for the first time

After inserting the AC cord, press **POWER** on the TV.

- The power indicator turns green. TV is switched on (After several seconds, an image appears with sound.)
- You can switch the TV to standby by pressing **POWER** on the remote control or the **POWER** on the TV.

Turning off the TV

If the TV is switched on, press **POWER** on the remote control or the **POWER** on the TV:

- TV is switched into standby and the image disappeared.
- The power indicator turns to red from green. Press **POWER** on the remote control or the **POWER** on the TV to turn on the TV .
- If pull out the AC cord and then plug it, the power indicator turns to red. Press **POWER** on the remote control or the **POWER** on the TV to turn it on.

User Guide

When the TV powers on for the first time after purchase, the setting wizard appears. Follow the menus and make the necessary settings one after another.

Confirm the following before turning on the power

- Is the antenna cable connected?
- Is the AC cord plugged in?

Press POWER on the TV.

- It displays the boot screen, and then “Language Setting” appears.
- It may cost a little time when TV is switched on for the first time. Please wait patiently.



Language Setting

- 1 When the screen displays “Language Setting”, press ◀/▶ on the remote control to select “繁體中文”, “简体中文” or “EN”, and then press **ENTER**.

- 2 If you want to exit User Guide, press ▲/▼/◀/▶ on the remote control to select “Exit”, and then press **ENTER**.

Start Settings

- 1 When the screen displays “Start Settings”, press ◀/▶ on the remote control to select “Next” and then press **ENTER**.

- 2 If you want to return to “Language Setting”, press ◀/▶ on the remote control to select “Back”, and then press **ENTER**.

Mode Setting

- 1 When the screen displays “Mode Setting”, press ◀/▶ on the remote control to select “Home” or “Store”, and then press **ENTER**.
 - Please select “Home” when you watch TV at home. “Store” is only for retail store displays.
 - “Store”: “DYNAMIC (Fixed)” will be the default value for the “AV mode” setting. If the “AV mode” is changed, the TV will automatically switch back to “DYNAMIC (Fixed)” when there is no further change to TV setting for 10 minutes.
 - “Home”: “STANDARD” will be the default value for the “AV mode” setting.

2

- If you want to return to “Start Settings”, press ◀/▶ on the remote control to select “Back”, and then press **ENTER**.

TV Channels Setting

1

- When the screen displays “TV Channels Setting”, press ◀/▶ on the remote control to select “Start” and then press **ENTER**.

- The TV searches for sorts and stores all the receivable TV stations according to their settings and the connected antenna.
- To abort the initial channel in progress, press ◀/▶ on the remote control to select “Pause”, and then press **ENTER**. Press ◀/▶ on the remote control to select “Resume” to continue previous scan, and then press **ENTER**.
- If you select “Skip” and press **ENTER**, TV will skip “TV Channels Setting” into “Network Setting”.
- After the search, it appears “Scanned TV Channels”.

2

- After the search, press ◀/▶ on the remote control to select “Next”, and then press **ENTER** into “Network Setting”.

If you want to return to “Mode Setting”, press ◀/▶ on the remote control to select “Back”, and then press **ENTER**.

Network Setting

1

- When the screen displays “Network Setting”, press ◀/▶ on the remote control to select “Ethernet” or “Wi-Fi” to connect the network.

- Ethernet includes “Auto” and “Manual”. Please see page 26.
- If you want to return to “TV Channels Setting”, press ◀/▶ on the remote control to select “Back”, and then press **ENTER**.

2

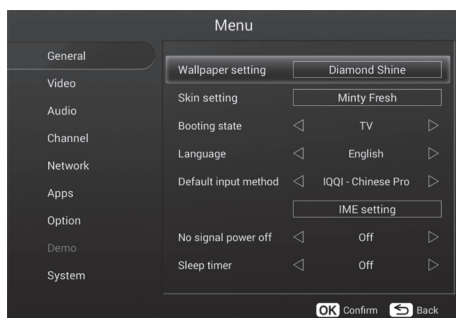
- Press ▲/▼ on the remote control to select “Finish”, and then press **ENTER**.

Watching TV

You can set your TV as you desired by pressing **MENU**.

General

For general setting.



Wallpaper setting

You can change the wallpaper of smart home.

- 1 In the "Menu", press ▲/▼ to select "General", and then press **ENTER**.
- 2 Press ▲/▼ to select "Wallpaper setting", and then press **ENTER**.
- 3 Press ◀/▶ to select "Starry Sky" or "Diamond Shine", and then press **ENTER**.

Skin setting

You can change the skin of smart home.

- 1 In the "Menu", press ▲/▼ to select "General", and then press **ENTER**.
- 2 Press ▲/▼ to select "Skin setting", and then press **ENTER**.
- 3 Press ◀/▶ to select "Colour Surge" or "Minty Fresh", and then press **ENTER**.

Booting state

You can set booting state.

- 1 In the "Menu", press ▲/▼ to select "General", and then press **ENTER**.
- 2 Press ▲/▼ to select "Booting state".
- 3 Press ◀/▶ to select "TV" or "Smart home".
 - "TV": When turn on the TV, It displays TV mode.
 - "Smart home": When turn on the TV, it displays the smart home.

Language

You can select a language from the menu.

Select from among 3 languages: English, 繁體中文, 簡體中文.

- 1 In the "Menu", press ▲/▼ to select "General", and then press **ENTER**.

- 2 Press ▲/▼ to select "Language".

- 3 Press ◀/▶ to select desired language listed on the screen.

NOTE

- Only after restarted the TV, the language of the system can be changed.

Default input method

For setting input method.

- 1 In the "Menu", press ▲/▼ to select "General", and then press **ENTER**.
- 2 Press ▲/▼ to select "IME setting", and then press **ENTER**.
- 3 Depending on your preferences, press ▲/▼ to select desired input method listed on the screen, and then press **ENTER**. Press **RETURN** to save and exit.

NOTE

- The initial installation of the TV is "IQQI-Chinese Pro".
- If you use any other input method, SHARP can not guarantee its compatibility with television system.

No signal power off

You can set the TV to automatically power off in about 15 minutes after the TV goes into a state of receiving no programme signals.

- 1 In the "Menu", press ▲/▼ to select "General", and then press **ENTER**.
- 2 Press ▲/▼ to select "No signal power off".
- 3 Press ◀/▶ to select "Off" or "On".
 - Five minutes before the power shuts down, the remaining time displays every minute.

Sleep timer

Auto power-off at a designated time.

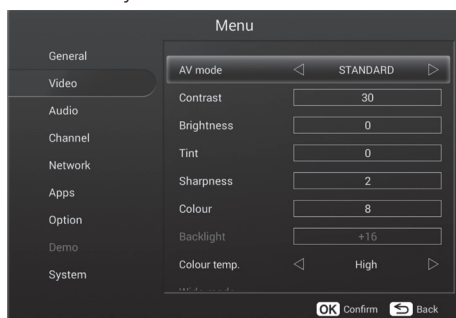
- 1 In the "Menu", press ▲/▼ to select "General", and then press **ENTER**.
- 2 Press ▲/▼ to select "Sleep timer".
- 3 Press ◀/▶ to select "Off", "30min.", "60min.", "90min.", "120min." or "150min.". Or you can press the **SLEEP** on the remote control unit to select.

NOTE

- When the time has been set, countdown automatically starts.
- Five minutes before the preset of time expires, the remaining time displays each minute.

Video

Set the video as you desired .



AV mode

The “AV mode” function enables you to select appropriate settings for audio and video to account for the system environment.

- 1 In the “Menu”, press ▲/▼ to select “Video”, and then press **ENTER**.
- 2 Press ▲/▼ to select “AV mode”.
- 3 Press ◀/▶ to select you want. Or you can press the **AV MODE** on the remote control unit.

Selected item	Description
STANDARD	For a highly defined image in a normally bright room.
MOVIE	For viewing the movies.
GAME	Lowers image brightness for easier viewing.
USER	Allows the user to customise settings as desired. You can set the mode for each input source.
DYNAMIC	For a clear-cut image emphasising high contrast for sports viewing.
DYNAMIC (Fixed)	Changes the image and sound settings to the factory preset values. No adjustments are allowed.

NOTE

- You can select a different “AV mode” item for each input mode.

Contrast/Brightness/Tint/Sharpness/Colour/Backlight

You can adjust the picture to your preference.

- 1 In the “Menu”, press ▲/▼ to select “Video”, and then press **ENTER**.
- 2 Press ▲/▼ to select the desired menu item, and then press **ENTER**.
- 3 Press ◀/▶ to adjust the item. Press **RETURN** to save and exit.

NOTE

- You can not setup backlight, when no signal to be received.

Selected item	◀button	▶button
Contrast	For less contrast.	For more contrast.
Brightness	For less brightness.	For more brightness.
Tint	Skin tones become reddish.	Skin tones become greenish.
Sharpness	For less sharpness.	For more sharpness.
Colour	For less colour intensity.	For more colour intensity.
Backlight	The screen dims.	The screen brightens.

Colour temp. (Colour temperature)

Adjusts the colour temperature to give the best white image.

- 1 In the “Menu”, press ▲/▼ to select “Video”, and then press **ENTER**.
- 2 Press ▲/▼ to select “Colour temp.”.
- 3 Press ◀/▶ to select “High”, “Low”, “M-low”, “Middle” or “M-high”.

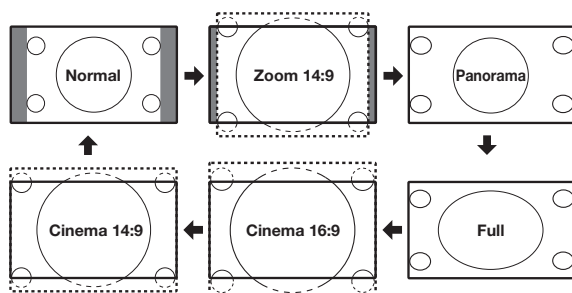
Wide mode

You can select different picture sizes that account for the kind of each picture.

- 1 In the “Menu”, press ▲/▼ to select “Video”, and then press **ENTER**.
- 2 Press ▲/▼ to select “Wide mode”, and then press **ENTER**.
- 3 Press ▲/▼ to select you want. Or you can press the **WIDE** on the remote control unit.

Selected item	Description
Normal	For 4:3 standard pictures. A side bar appears on each side.
Zoom 14:9	For 14:9 letterbox pictures. A thin side bar appears on each side, and you may also 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 16:9	For 16:9 letterbox pictures. Bars may appear on the top and bottom with some programmes.
Cinema 14:9	For 14:9 letterbox pictures. Bars may appear on the top and bottom with some programmes.
Dot by Dot	Display an image with the same number of pixels on the screen (only when receiving 2160p signal).
Underscan	Display with an underscan image only when receiving a 720p / 1080i / 1080p signal. Display with the High-Definition image adjusted optimally. Noise may appear on the edge of the screen with some programmes.
Auto	Keeps the original aspect ratio and enlarges the picture as much as possible.
Original	Keeps the original aspect ratio and size, only when receiving 2160p signal.

Watching TV



NOTE

- Some picture sizes may not be displayable depending on the input signal.
- "Zoom 14:9" and "Cinema 14:9" are only available for the DTV or ATV mode.

DNR

Reduce noise on screen and produces a clearer video.

- In the "Menu", press ▲/▼ to select "Video", and then press **ENTER**.
- Press ▲/▼ to select "DNR".
- Press ◀/▶ to select "Auto", "High", "Low" or "Off".

Fine Motion

Using the fine motion function can view the high speed motion image more clearly.

- In the "Menu", press ▲/▼ to select "Video", and then press **ENTER**.
- Press ▲/▼ to select "Fine Motion".
- Press ◀/▶ to select "Standard", "Advanced" or "Off".

Active contrast

Automatically adjust the contrast of an image according to the scene.

- In the "Menu", press ▲/▼ to select "Video", and then press **ENTER**.
- Press ▲/▼ to select "Active contrast".
- Press ◀/▶ to select "On" or "Off".

Pixel Dimming

Intelligently enhance the contrast of an image to improve clarity.

- In the "Menu", press ▲/▼ to select "Video", and then press **ENTER**.
- Press ▲/▼ to select "Pixel dimming".
- Press ◀/▶ to select "High", "Middle", "Low" or "Off".

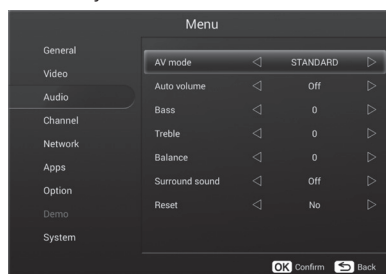
Reset

Reset all picture adjustment items to the factory preset.

- In the "Menu", press ▲/▼ to select "Video", and then press **ENTER**.
- Press ▲/▼ to select "Reset".
- Press ◀/▶ to select "Yes" or "No", and then press **ENTER**.

Audio

Set the audio as you desired .



AV mode

Please see page 19.

Auto volume

Different sound sources sometimes do not have the same volume level, such as a programme and its commercial breaks. The automatic volume control (Auto volume) reduces this problem by equalizing levels.

- In the "Menu", press ▲/▼ to select "Audio", and then press **ENTER**.
- Press ▲/▼ to select "Auto volume".
- Press ◀/▶ to select "On" or "Off".

Bass/Treble/Balance

You can adjust the audio of the selected AV mode.

- In the "Menu", press ▲/▼ to select "Audio", and then press **ENTER**.
- Press ▲/▼ to select the desired menu item.
- Press ◀/▶ to adjust the item.

Selected item	◀button	▶button
Treble	For weaker treble	For stronger treble
Bass	For weaker bass	For stronger bass
Balance	Decrease audio from the right speaker	Decrease audio from the left speaker

NOTE

- They cannot be changed during "DYNAMIC (Fixed)" mode.

Watching TV

Surround sound

The surround sound function produces a surround effect from the speakers.

- 1 In the "Menu", press ▲/▼ to select "Audio", and then press **ENTER**.
- 2 Press ▲/▼ to select "Surround sound".
- 3 Press ◀/▶ to select "On" or "Off".

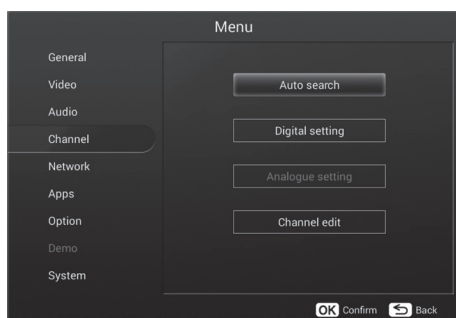
Reset

Reset all audio adjustment items to the factory preset values.

- 1 In the "Menu", press ▲/▼ to select "Audio", and then press **ENTER**.
- 2 Press ▲/▼ to select "Reset".
- 3 Press ◀/▶ to select "Yes" or "No", and then press **ENTER**.

Channel

Set the channel as you desired .



Auto search

You can run auto installation again, even after setting up the preset channels.

- 1 In the "Menu", press ▲/▼ to select "Channel", and then press **ENTER**.
- 2 Press ▲/▼ to select "Auto search", and then press **ENTER**.
- 3 The TV searches for, sorts and stores all the receivable TV stations according to their settings and the connected antenna.
 - Press **RETURN** to abort the auto installation in progress.

NOTE

- Auto search can only search channels from the current mode.

Digital setting

You can set some DTV channel items manually.

- 1 In the "Menu", press ▲/▼ to select "Channel", and then press **ENTER**.
- 2 Press ▲/▼ to select "Digital setting", and then press **ENTER**.
- 3 Press ◀/▶ to select the desired menu item, and then press **ENTER**.

Auto search

Use this menu to add new DTV services automatically after auto installation has been completed.

Manual search

Add new services within a specified frequency band.

Signal info

Show the "Channel No.", "Freq", "Signal strength" and "Signal quality" of the current program.

NOTE

- The values of "Signal strength" and "Signal quality" indicate when to check the appropriate alignment of the antenna.

Antenna power

Press ◀/▶ to select "On" or "Off".

Selected item	Description
On	Select "On" when your antenna is set-up and connected independently. Typical supply voltage: 5V Typical supply current: 50mA
Off	Select "Off" when you do not need to supply voltage to your antenna, i.e. when your antenna is connected to a community antenna. (The factory default setting of this function is "Off".)

Analogue setting

You can set some ATV channel items manually.

- 1 In the "Menu", press ▲/▼ to select "Channel", and then press **ENTER**.
- 2 Press ▲/▼ to select "Analogue setting", and then press **ENTER**.
- 3 Press ◀/▶ to select the desired menu item, and then press **ENTER**.

Auto search

Use this menu to add new ATV services automatically after auto installation has been completed.

Manual search

Press ▲/▼ to select your desired item, and then press ◀/▶ to adjust the settings. Press **RETURN** to save and exit.

Watching TV

Item	Description
Storage to [1~99]	Save programme to your desired channel number. Press ENTER to save.
Current CH	Select the channel you want to edit.
Colour system	Select the optimum colour system to receive. (PAL, SECAM, NTSC)
Sound system	Select the optimum sound system (Broadcasting system) to receive. (BG, DK, I, MN)
Search	Start searching from current channel. You can Search the next channel by pressing ◀/▶ to adjust the frequency .
Fine-Tune	Tune the frequency of the stored channel to your desired position.

Channel edit

Use this menu to set up a channel individually.

- 1 In the “Menu”, press **▲/▼** to select “Channel”, and then press **ENTER**.
- 2 Press **▲/▼** to select “Channel edit”, and then press **ENTER**. Channel list appears.
- 3 Press **▲/▼** to select the desired programme.

Delete

Channels can be erased individually.

Press **R** and then press **◀/▶** to select “Yes”, and then press **ENTER**. Now you can erase the selected channel.

Label

You can change individual channel names.

Press **G** to start labelling. Press **▲/▼/◀/▶** to select a character, and then press **RETURN** to save.

- Maximum 8 alphanumerics can be input.
- Labeling is only available for the ATV mode.

Sort

Channel positions can be sorted freely.

Press **Y** to select the channel you want to move. Press **▲/▼** to move it to the desired position, and then press **Y** to save.

Skip

Channels with “Skip” set to “On” are passed over when using **CH▲/▼** even if selected while watching the image from the TV.

Press **B** to skip the selected channel. Press **B** again to cancel the skip.

Network

Please see pages 25 to 26.

Apps

Please see pages 27 to 28.

Option

For setting other items.



Digital audio language

Set up to preferred multi audio languages to display if the audio languages are available.

- 1 In the “Menu”, press **▲/▼** to select “Option”, and then press **ENTER**.
- 2 Press **▲/▼** to select “1st Language” or “2nd Language” from “Digital audio language” .
- 3 Press **◀/▶** to select the desired language.

NOTE

- This function depends on audio language information from broadcasters.
- If audio for the selected language is not included in a received broadcast, audio will not be output for that language.

Subtitle

Setup preferred subtitle language if the subtitle languages are available. You can switch subtitles by pressing **SUB.T**.

- 1 In the “Menu”, press **▲/▼** to select “Option”, and then press **ENTER**.
- 2 Press **▲/▼** to select “1st Language” or “2nd Language” from “Subtitle”.
- 3 Press **◀/▶** to select the desired language.

NOTE

- If subtitles for the selected language are not included in a received broadcast, subtitles will not be shown for that language.

Watching TV

For hearing impaired

If the broadcast includes subtitles for the hearing impaired, they will take precedence over other subtitles.

- 1 In the "Menu", press ▲/▼ to select "Option", and then press **ENTER**.
- 2 Press ▲/▼ to select "For hearing impaired".
- 3 Press ◀/▶ to select "On" or "Off".

NOTE

- If the broadcast includes no subtitles for the hearing impaired, they will not be displayed even when set to "On".

System

You can view and set the info about the system.

System info

From here, you can view the Hardware info and Software info.

Legal info

From here, you can view the open source licenses.

Local update

This function allows you to transform to the latest software via a USB device.

- 1 Insert the USB device containing the system data file.
- 2 In the "Menu", press ▲/▼ to select "System", and then press **ENTER**.
- 3 Press ▲/▼ to select "Local update", and then press **ENTER**.
- 4 Press ◀/▶ to select "OK" to update the system. The TV restarts automatically, and the software updating will be completed.
 - This operation may take a while.

NOTE

- If the software is not compatible with the system, an error message appears on the screen. Repeat step 1 and step 2 after pressing **ENTER**.
- When an error message displays, check to see if
 - The USB device is inserted firmly.
 - The USB memory has two or more software files.
 - No software for updating the system exists in the USB memory.
 - The software file is broken.
 - The software file is not compatible with your TV's software.
- Please do not turn off TV or execute other operations during version up.

System recovery

If complex adjustments are made and the settings cannot be restored to normal, you can reset the settings to the factory preset values.

- 1 In the "Menu", press ▲/▼ to select "System", and then press **ENTER**.
- 2 Press ▲/▼ to select "System recovery", and then press **ENTER**.
- 3 Press ◀/▶ to select "OK" or "Cancel", and then press **ENTER**.

The added instruction for R/C buttons

↺ (Flashback)

Press **↺** to switch the currently tuned channel or external input source to the previously tuned channel or external input source.

1 Press **↺** to switch the currently tuned channel or external input source to the previously tuned channel or external input source.

2 Press **↺** again to switch back to the currently tuned channel or external input source.

🔇 (Mute)

Using **🔇** (Mute) on the remote control unit to mute the current sound output.

1 Press **🔇** (Mute).

- The sound is silenced.
- "🔇" is displayed while the mute function is on.

2 Press **🔇** (Mute) again to cancel the mute, the sound can return to the original setting.

MPX

You can switch between multiple audio modes when watching a multiple audio or stereo broadcast programme. Each time you press **MPX** the mode switches as follows.

In the NICAM TV broadcasts

Signal	Mode switch
When receiving a stereo signal	NICAM STEREO , MONO
When receiving a bilingual signal	NICAM DUAL I , NICAM DUAL II , NICAM DUAL I + II , MONO.
When receiving a monaural signal	NICAM MONO, MONO

In the TV mode of A2 TV broadcasts

Signal	Mode switch
When receiving a stereo signal	STEREO, MONO
When receiving a bilingual signal	CH A, CH B, CH AB
When receiving a monaural signal	MONO

🔗 NOTE

- Select the sound multiplex for ATV only.

GUIDE

Display the channel list of DTV.

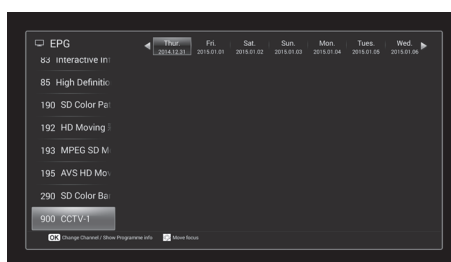
1 Press **GUIDE**, and then display the "Channel List" of DTV on the screen.

2 Press **▲/▼** to select the desired channel , and then press **ENTER** to switch to the selected channel.

- When received a encryption program that cannot be played, it will display the "key" icon.

EPG

The EPG(Electronic Programme Guide) is broadcasted together with DTV. The TV screen shows the EPG when the viewer presses **EPG** on the remote control, provided that the TV is receiving the digital broadcasting signal. The EPG enables you to check the schedule of DTV, view detailed information.



1 Press the **EPG** on the remote control to display EPG screen.

2 Press **▲/▼** to select the desired channel , and press **ENTER**. The programme of the selected channel displays.

3 Press **▲/▼/◀/▶** and **ENTER** to display programme information.

🔗 NOTE

- The time displayed on the EPG is information sent by the TV station.

Network function

Connecting to the Network

To enjoy internet services, you need to connect the TV to a router with a high speed connection to the internet.

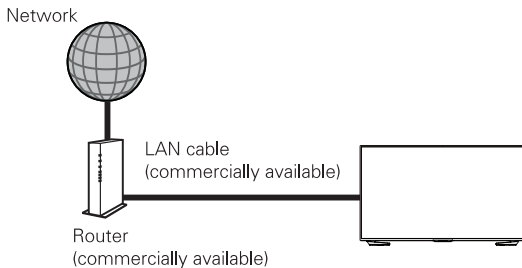
NOTE

- If you do not have a broadband internet connection, consult the store where you purchased your TV or ask your internet service provider or telephone company.
- A stable connection speed is required to play back streaming content, otherwise you may not be able to watch normally.

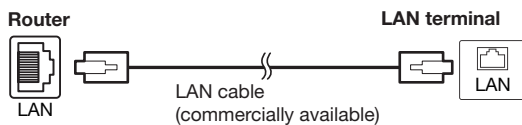
Wired installation

Switch on the router (commercially available). Refer to the router's operation manual for switching on. Connect the LAN terminal on the TV to the router (commercially available) with a LAN cable (commercially available).

Wired connection overview

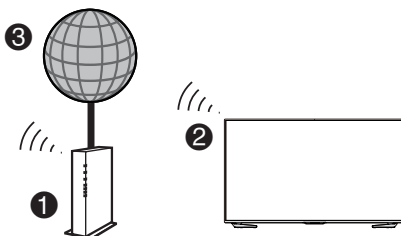


How to connect



Wireless installation

Switch on the router (commercially available). Refer to the router's operation manual for switching on.



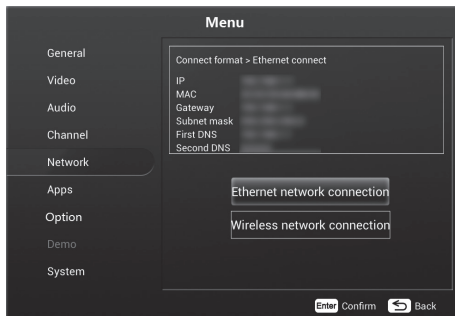
- 1 Wireless LAN router/access point
- 2 TV
- 3 Network

NOTE

- This TV has received the following certifications.
 - Wi-Fi CERTIFIED™ (certification program from the Wi-Fi Alliance®)
- A wireless LAN connection and performance cannot be guaranteed for all residential environments. In the following cases, the wireless LAN signal may be poor or drop, or the connection speed may become slower.
 - When used in buildings made with concrete, reinforced steel, or metal.
 - When placed near objects that obstruct the signal.
 - When used with other wireless devices that emit the same frequency.
 - When used in the vicinity of microwave ovens and other devices that emit a magnetic field, electrostatic charge, or electromagnetic interference.
- Make sure the firewalls in your network allows access to the TV wireless connection.
- Operations cannot be guaranteed when used with access points that do not have Wi-Fi® certification.
- A wireless LAN access point is required to connect the TV to the Internet using a wireless LAN. See the operation manual of your access point for setup.
- A stable connection speed is required to play back streaming content. Use a wired connection if the wireless LAN speed is unstable.
- As there are lot of formats in the internet, some formats may not be supported by this TV unit.
- Before transferring to a third-party or disposal, be sure to initialise the wireless LAN settings.

Network setting

Select "Menu" in the smart home, and then press **ENTER**. Press **▲/▼** to select "Network", and then press **ENTER**. It displays the connect format.



Add network

- 1 Select "Add network", and then press **ENTER**. You can add unbroadcast wireless network manually.
- 2 Enter the information about the unbroadcast wireless network, and then select "Save". Now the TV is connected to the unbroadcasted wireless network.

Ethernet network connection

- 1 Press **▲/▼** to select "Ethernet network connection", and then press **ENTER**.
- 2 Press **◀/▶** to adjust "Ethernet" to "On".

■ DHCP

Press **▲/▼** to select "DHCP". Press **◀/▶** to select "On". System will attempt to obtain IP address and other information automatically.

■ Manual connection

Press **▲/▼** to select "DHCP". Press **◀/▶** to select "Off". You can setup IP address, Gateway, Subnet mask, First DNS and Second DNS following the on-screen instructions. After setting, press **▲/▼** to select "Save", and now you can enjoy the internet services.

Wireless network connection

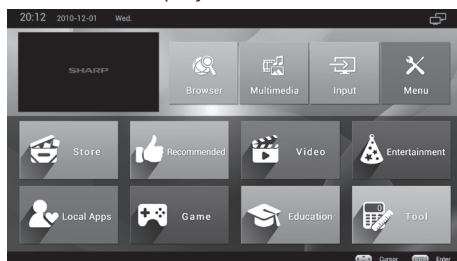
- 1 Press **▲/▼** to select "Wireless network connection", and then press **ENTER**.
- 2 Press **◀/▶** to adjust "Wi-Fi" to "On", it displays the nearly wireless network.
- 3 Press **▲/▼** to select an available wireless network, and then press **ENTER**. If the current network connection security is not open, you should enter the password from software keyboard by pressing **ENTER** on the remote control. If the network connection security is open, you can connect it directly. Select "Refresh", and then press **ENTER**, it displays the "Wireless network list".

🔗 NOTE

- You can press **MENU** to select "Network" to switch the connection between Ethernet network connection and Wireless network connection.

Smart function

You can download and install amounts of Apps from the third-party of the smart TV.
Press **SMART** to display the smart home.

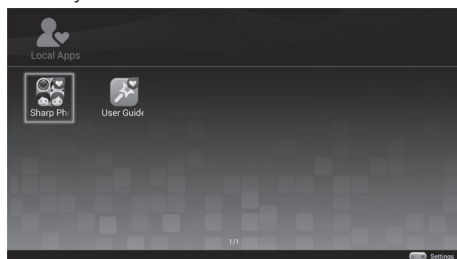


NOTE

- To scan the information of the smart home, you must have a broadband internet connection.
- SHARP is not responsible for the service of third-party.
- Parental consent is necessary for children to use the internet service.
- Intelligent interface in the relevant content in the future will do related adjustment, SHARP company reserves the right to relevant adjustment without prior notice.

Local Apps

Here you can view the local Apps that have been installed into the TV. You can start the games and local Apps directly.



Press **SMART** into smart home .Select “Local Apps”, and then press **ENTER** .Select the desired App, and press **ENTER** to enjoy it.

NOTE

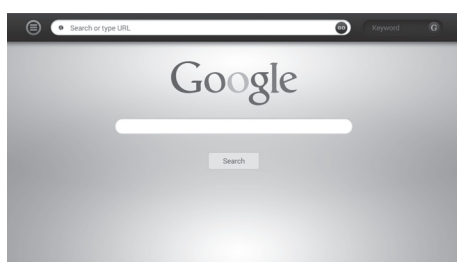
- SHARP is not responsible for the service of third-party.
- Some Apps can be improved operation experience by connecting a usb mouse.

Multimedia

You can enjoy photos, music and video from the external USB device .

Please see pages 29 to 30.

Browser




Press **SMART** to start smart home. Select “Browser”, and then press **ENTER**, or press **BROWSER** to start browsing internet.

NOTE

- Please click the "Browser" icon on the launcher, then download and install the browser at first time.

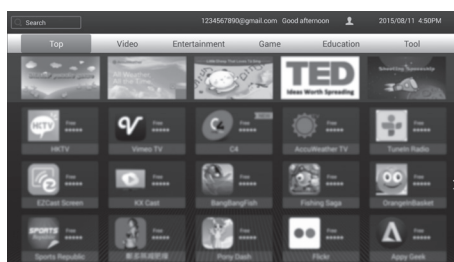
Input

Select an input source (ATV, DTV, HDMI1, HDMI2, HDMI3, COMPONENT, AV.) , and then press **ENTER** on the remote control. You can also press  to select an input source.



Store

Provide you mass Apps.





Press **SMART** into smart home. Select “Store”, and then press **ENTER** .

Installing Apps

From “Store”, select the App you desired, and install it according to prompt in the screen.

Apps

You could manage all Apps that have been downloaded into TV.

- 1 Press **MENU**.
- 2 Press  to select “Apps”, and then press **ENTER**.
- 3 Press  to select the items you want, and then press **ENTER**.

Smart function

Internal storage

From here, you can view the free space and the total space of TV.

SD card storage

From here, you can view free space and the total space of SD card.

Install applications from unknown sources

From here, you can setup whether applications are allowed to install from unknown sources.

Default installation location

From here, you can setup the default installation location. Select from among 3 locations: Default, Internal, External.

My Apps

It will display applications list that have been installed. Operations such as "Force stop", "Uninstall", "Clear cache" or "Move to SD card/Move to internal" can be used to an application.

Format SD card

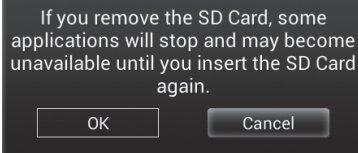
Format SD card .

NOTE

- If you format SD card, the content stored in the SD card will be deleted completely and the content is unrecoverable. Please operate it carefully.

Safely Remove SD

Remove SD card after you have safely unloaded it.

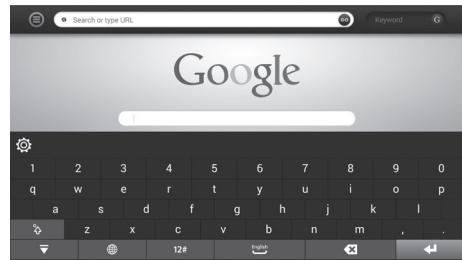


NOTE

- Do not unplug the memory card while data is being transferred. Otherwise the TV may malfunction.
- Unplug the memory card after you have safely unloaded it or the TV has been turned off.
- Please regularly back up data in the memory card to prevent data corruption or operating errors of the TV. (SHARP shall not bear any responsibility for data corruption or destruction.)

Text input

The virtual keyboard appears when you press **ENTER** to input text.



It provides virtual keyboard input mode. In the process, you can choose character by moving cursor, and press **ENTER** to complete character input. At the same time, you can change the input mode from virtual keyboard.

Other useful features

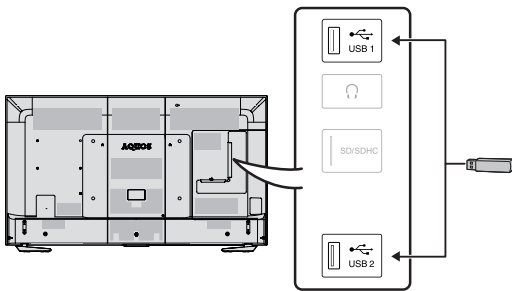
You can connect a USB memory device or a USB hard disk drive (HDD) to the TV to enjoy viewing pictures, listening to music, and watching videos.

NOTE

- Depending on the USB memory device, the TV may not be able to recognise the data.
- It may take time to read the data if the USB memory device contains many files or folders.
- External subtitles for some video files may not be supported.

Connecting a USB memory device

Insert the USB memory device with recorded photos, music or videos into the USB 1 or USB2 terminal on the TV.

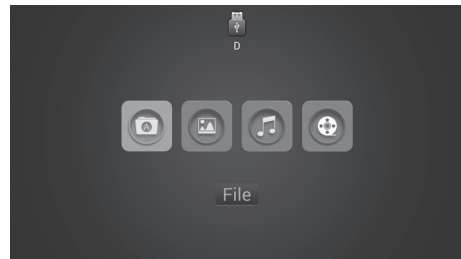


- The USB1 and USB2 terminals cannot be connected with USB hard disk drives at the same time.
- When connecting a USB hard disk drive, be sure to use a hard disk drive with an AC adapter.
- Do not remove the memory device from the TV while transferring files.
- Do not insert and remove a USB memory device/ USB hard disk drive to and from the TV repeatedly.
- When using a card reader, be sure to insert Memory first before using the card reader.
- The TV may not be able to recognise the card reader.
- Please follow the rules below when the TV is displaying the file of the USB device:
 - Please do not turn off the TV directly.
 - Please don't disconnect the USB device directly.
 - Please be sure to exit from USB interface before removing the USB device, otherwise you may lose the data, damage the device or TV system may not work properly.
- If the TV connects with USB-HUB, the TV may not be able to recognise all USB memory devices.

CAUTION






















- **Do not use the USB extension cable, otherwise it may cause the TV does not work properly.**
- **Please insert the USB device after the TV is powered on properly.**

Playing back files on a USB memory device



- 1 Press **SMART** to display the smart home, select "Multimedia" and then press **ENTER**. Or you can press **MULTIMEDIA** to display the mode quickly.
- 2 Press **▲/▼/◀/▶** to select the device or disk drive you want.
- 3 Press **▲/▼/◀/▶** to select the desired folder, such as "File", "Picture", "Audio", "Video", and then press **ENTER**. Select the desired file, and then press **ENTER**.
 - Press **"RETURN"** on the remote control, you can exit to the upper folder.
- 4 Press **SETTING** to display the USB media operation menu when you view a photo or a video. Press **▲/▼** to select the relevant functions, and then press **ENTER**. To know the buttons for USB media operation in detail, please see page 30.

Buttons for USB media operation

Button/ menu	Description	Movie mode	Music mode	Photo mode
	Play/Pause.	✓	✓	–
	Go to the previous file.	–	✓	–
	Go to the next file.	–	✓	–
	Loop. Each time you press ENTER , the mode will switch from Order play, Repeating all songs, Play this song only once, Repeating current song and Shuffle is on.	–	✓	–
	Playlist Select a file from the playlist to start playback.	–	✓	–
Zoom	Press ENTER turn to Zoom In or Zoom Out. Press RETURN to exit this mode.	–	–	✓
Rotation	Rotate the picture Press  or  to rotate the image 90 degrees anticlockwise, and press  or  to rotate the image 90 degrees clockwise. Press RETURN to exit this mode.	–	–	✓
Slide	Set the Time Interval and Switch Mode of the slide.	–	–	✓
 Subtitle Options	Set Subtitle On-off, Subtitle Select, Subtitle Switching, Subtitle Search and Subtitle Advanced.	✓	–	–
 Audio Options	Select audio track.	✓	–	–
 Jump Time	Set the starting playback time.	✓	–	–
 Advanced Options	Set Continue Play, Forward Rewind and Single Cycle.	✓	–	–
	Press ENTER to the previous file.	✓	–	–
	Press ENTER to the next file.	✓	–	–
Fast forward	Press  or  to fast forward.	✓	✓	–
Reverse	Press  or  to reverse.	✓	✓	–
	Go to the previous file.	–	–	✓
	Go to the next file.	–	–	✓

List of file formats compatible with USB mode

Supported video format

File extension	Video decoder	Audio decoder	Subtitle
.avi	MPEG2 MP@HL MPEG4 SP, MPEG4 ASP@Level 5 H.264 HP@Up to Level 4.1	Dolby Digital Plus DTS Dolby Digital	-
.mkv	H.264 HP@Up to Level 4.1 H.265(HEVC) MP / Main 10 Profile @ Up to Level 5 (4k2k 30 fps)	Dolby Digital Plus DTS Dolby Digital	-
.ts	MPEG2 MP@HL H.264 HP@Up to Level 4.1 H.265(HEVC) MP / Main 10 Profile @ Up to Level 5 (4k2k 30 fps) AVS Jizhun Profile @Level 6.0	Dolby Digital Plus DTS AAC Dolby Digital	-
.trp	MPEG2 MP@HL H.264 HP@Up to Level 4.1 H.264(AVC) MP@L4.1	-	-
.vob .mpeg	MPEG2 MP@HL	Dolby Digital Plus Dolby Digital	-
.dat	MPEG1	-	-
.wmv	Advanced Profile@Level 3 Simple Profile and Main Profile	-	-
.mov	MPEG4 SP, MPEG4 ASP@Level 5 H.264 HP@Up to Level 4.1 H.265(HEVC) MP / Main 10 Profile @ Up to Level 5 (4k2k 30 fps) m-jpeg	Dolby Digital Plus Dolby Digital	-
.mp4	MPEG4 SP, MPEG4 ASP@Level 5 H.264 HP@Up to Level 4.1 H.265(HEVC) MP / Main 10 Profile @ Up to Level 5 (4k2k 30 fps)	AAC	-
.3gp	H.264 HP@Up to Level 4.1 H.263	AAC	-
.flv	H.264 HP@Up to Level 4.1	-	-
.webm	VP8	-	-
.tp	MPEG2 MP@HL	-	-

■ Supported audio format

File extension	Audio decoder
.mp3	MPEG1 Layer 1/2/3
.flac	flac
.aac	AAC
.ogg	VORBIS
.wav	PCM
.m4a	AAC
.mid	MIDI

■ Supported picture format

File extension	Picture decoder
PNG	4096*5760
BMP	6000*4000
GIF	4096*5760
JPEG	Progressive 4096*5760 baseline 4096*5760

NOTE

- USB 1.1 devices may not be played properly.
- Operation using USB hubs is not guaranteed.
- Video in Motion .JPEG format with a resolution higher than 1280x720 may not be played back correctly.
- Some file formats in the above list may not be played back correctly (including images, sounds, subtitles, etc.).
- Depending on the bit rate, some files may not be played back.
- The TV supports DTS encoded video files instead of DTS surround sound formats.
- Some subtitles may not be displayed correctly and this may affect the TV operation.
- Only show the compatible file format.
- According to different files, the displayed playback time may be slightly different from the actual .
- The length of time information may not be displayed correctly in some file.

Appendix

Troubleshooting

The problems described below are not always caused by malfunctions. Check the TV again before having the TV serviced.

Problem	Possible solution
<ul style="list-style-type: none">No power.	<ul style="list-style-type: none">Is the AC cord disconnected? (See page 12.)Has the power been turned on? (See page 16.)When the power switch does not work, remove the power plug and insert it again, and press POWER on the TV after waiting more than five seconds.
<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. In this case, operate the unit after first turning the power off or unplugging the AC cord and re-plugging it in after 1 or 2 minutes.
<ul style="list-style-type: none">Remote control unit does not operate.	<ul style="list-style-type: none">Are batteries inserted with polarity (+, -) aligned? (See page 15.)Are batteries worn out? (Replace with new batteries.)Are you using it under strong or fluorescent lighting?Is a fluorescent light shining on the remote control sensor?
<ul style="list-style-type: none">Picture is cut off.	<ul style="list-style-type: none">Are screen mode adjustments such as picture size made correctly? (See pages 19 and 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 tint. (See page 19.)Is the room too bright? The picture may look dark in a room that is too bright.Check the colour system setting. (See pages 22.)
<ul style="list-style-type: none">Power is suddenly turned off.	<ul style="list-style-type: none">The unit's internal temperature has increased. Remove any objects blocking the vent or clean.Is the sleep timer, no signal power off ? (See page 18.)
<ul style="list-style-type: none">No picture.	<ul style="list-style-type: none">Is the connection to external equipment correct? (See pages 13, 14 and 29.)Is the correct input selected? (See pages 10, 11, and 27.)Is the picture adjustment correct? (See page 19.)Is the antenna connected properly? (See page 12.)
<ul style="list-style-type: none">No sound.	<ul style="list-style-type: none">Is the volume too low? (See page 11.)Check the sound system setting. (See page 22.)Make sure that headphones are not connected. (See page 10.)Has the mute been opened. (See page 24.)
<ul style="list-style-type: none">The TV sometimes makes a cracking noise.	<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.
<ul style="list-style-type: none">Cannot select the desired channel.	<ul style="list-style-type: none">Switch between Digital TV and Analogue TV modes. (See page 11.)
<ul style="list-style-type: none">Cannot connect to the Network	<ul style="list-style-type: none">Is the LAN cable connected correct. (See pages 25 and 26.)Check the "LAN setting".

Cautions regarding use in high and low temperature environments

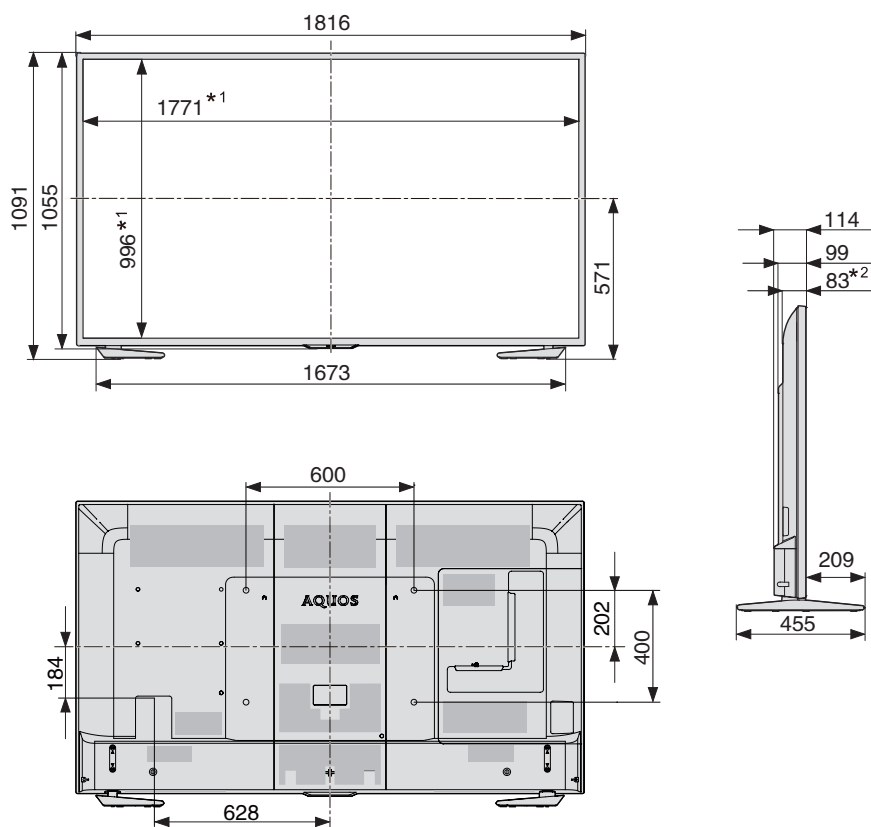
- When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.
- Do not leave the unit in a hot or cold location. Also, do not leave the unit 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.
Storage temperature: -20°C to +60°C.

Specifications

Item			Model	LC-80UD30H
Resolution				8,294,400 pixels (3840(H) x 2160(V))
Video colour system				PAL / SECAM / NTSC 3.58 / NTSC 4.43 / PAL 60
TV function	TV-Standard	Analogue	PAL:BG, DK, I SECAM:BG, DK NTSC:MN	
		Digital	DTMB	
	Receiving channel	VHF/UHF	44.25MHz-863.25 MHz	
		CATV	S1-S41ch (including Hyperband)	
	Digital terrestrial broadcast		52.50MHz-866.00MHz	
	STEREO/BILINGUAL		NICAM: BG, I, DK ; A2 stereo: BG	
TV tuning system	Analogue		Auto preset 99 channel	
	Digital		Auto preset 999 channel	
Audio amplifier				10W×2 (L / R)
Speaker				(100 mm x 45mm) x 2
Terminals	Side	USB1		USB 2.0
		Headphone		Ø 3.5 mm jack
		SD		SD/SDHC
		USB2		USB 3.0
		AV INPUT		VIDEO in, AUDIO in
		HDMI 1		HDMI (HDMI input) (480I, 576I, 480P, 576P, 720P/50Hz, 720P/60Hz, 1080I/50Hz, 1080I/60Hz, 1080P/50Hz, 1080P/60Hz, 1080P/24Hz, 2160P/30Hz)
		ANTENNA		UHF/VHF 75 Ω Din type
	Below	LAN (ETHERNET 10/100)		Network connector
		COMPONENT INPUT		COMPONENT in (480I, 576I, 480P, 576P, 720P/50Hz, 720P/60Hz, 1080I/50Hz, 1080I/60Hz), AUDIO in
		Special service terminal		Only for service
		HDMI 3		HDMI (HDMI input) (480I, 576I, 480P, 576P, 720P/50Hz, 720P/60Hz, 1080I/50Hz, 1080I/60Hz, 1080P/50Hz, 1080P/60Hz, 1080P/24Hz, 2160P/30Hz)
		HDMI 2		HDMI (HDMI input) (480I, 576I, 480P, 576P, 720P/50Hz, 720P/60Hz, 1080I/50Hz, 1080I/60Hz, 1080P/50Hz, 1080P/60Hz, 1080P/24Hz, 2160P/30Hz)
OSD language				English/Simplified Chinese/Traditional Chinese
Power requirement				AC 110-240 V, 50Hz
Power consumption (Standby)				480W (0.5W)
Weight	Without stand		52.0 kg	
	With stand		55.0 kg	
Operating temperature				0 °C to + 45 °C
● As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice.				

Dimensional drawings

Unit: mm



*1 Active area
*2 Thinnest part