



LG

Life's Good

OWNER'S MANUAL LED TV

*LG LED TV applies LCD screen with LED backlights.

Please read this manual carefully before operating
your set and retain it for future reference.

22LN4000-TA

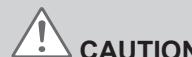
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WARNING

- If you ignore the warning message, you may be seriously injured or there is a possibility of accident or death.



CAUTION

- If you ignore the caution message, you may be slightly injured or the product may be damaged.



NOTE

- The note helps you understand and use the product safely. Please read the note carefully before using the product.

SAFETY INSTRUCTIONS

Please read these safety precautions carefully before using the product.

WARNING



- Do not place the TV and/or remote control in the following environments:
 - A location exposed to direct sunlight
 - An area with high humidity such as a bathroom
 - Near any heat source such as stoves and other devices that produce heat
 - Near kitchen counters or humidifiers where they can easily be exposed to steam or oil
 - An area exposed to rain or wind
 - Near containers of water such as vases
 Otherwise, this may result in fire, electric shock, malfunction or product deformation.



- Do not place the product where it might be exposed to dust.
This may cause a fire hazard.



- Mains Plug is the TV connecting/disconnecting device to AC mains electric supply. This plug must remain readily attached and operable when TV is in use.



- Do not touch the power plug with wet hands. Additionally, if the cord pin is wet or covered with dust, dry the power plug completely or wipe dust off.
You may be electrocuted due to excess moisture.



- Make sure to connect Mains cable to compliant AC mains socket with Grounded earth pin. (Except for devices which are not grounded on earth.) Otherwise possibility you may be electrocuted or injured.



- Insert power cable plug completely into wall socket otherwise if not secured completely into socket, fire ignition may break out.



- Ensure the power cord does not come into contact with hot objects such as a heater. This may cause a fire or an electric shock hazard.



- Do not place a heavy object, or the product itself, on power cables. Otherwise, this may result in fire or electric shock.



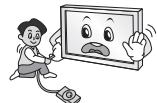
- Bend antenna cable between inside and outside building to prevent rain from flowing in.
This may cause water damaged inside the Product and could give an electric shock.



- When mounting TV onto wall make sure to neatly install and isolate cabling from rear of TV as to not create possibility of electric shock / fire hazard.



- Do not plug too many electrical devices into a single multiple electrical outlet.
Otherwise, this may result in fire due to over-heating.



- Do not drop the product or let it fall over when connecting external devices.
Otherwise, this may result in injury or damage to the product.



- Keep the anti-moisture packing material or vinyl packing out of the reach of children. Anti-moisture material is harmful if swallowed. If swallowed by mistake, force the patient to vomit and visit the nearest hospital. Additionally, vinyl packing can cause suffocation. Keep it out of the reach of children.



- Do not let your children climb or cling onto the TV. Otherwise, the TV may fall over, which may cause serious injury.



- Dispose of used batteries carefully to ensure that a small child does not consume them. Please seek Doctor- Medical Attention immediately if child consumes batteries.



- Do not insert any metal objects/conductors (like a metal chopstick/cutlery/ screwdriver) between power cable plug and input Wall Socket while it is connected to the input terminal on the wall. Additionally, do not touch the power cable right after plugging into the wall input terminal. You may be electrocuted. (Depending on model)



- Do not put or store inflammable substances near the product. There is a danger of combustion/ explosion or fire due to careless handling of the inflammable substances.



- Do not drop metallic objects such as coins, hair pins, chopsticks or wire into the product, or inflammable objects such as paper and matches. Children must pay particular attention. Electrical shock, fire or injury can occur. If a foreign object is dropped into the product, unplug the power cord and contact the service centre.



- Do not spray water on the product or scrub with an inflammable substance (thinner or benzene). Fire or electric shock accident can occur.



- Do not allow any impact, shock or any objects to fall into the unit, and do not drop anything onto the screen. You may be injured or the product can be damaged.



- Never touch this product or antenna during a thunder or lighting storm. You may be electrocuted.



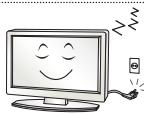
- Never touch the wall outlet when there is leakage of gas, open the windows and ventilate. It may cause a fire or a burn by a spark.



- Do not disassemble, repair or modify the product at your own discretion. Fire or electric shock accident can occur. Contact the service centre for check, calibration or repair.



- If any of the following occur, unplug the product immediately and contact your local service centre.
 - The product has been impacted by shock
 - The product has been damaged
 - Foreign objects have entered the product
 - The product produced smoke or a strange smell
 This may result in fire or electric shock.



- Unplug the TV from AC mains wall socket if you do not intend to use the TV for a long period of time. Accumulated dust can cause fire hazard and insulation deterioration can cause electric leakage/shock/fire.
- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.



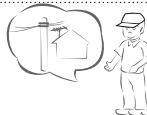
CAUTION



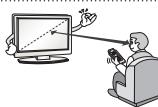
- Install the product where no radio wave occurs.
- There should be enough distance between an outside antenna and power lines to keep the former from touching the latter even when the antenna falls. This may cause an electric shock.
- Do not install the product on places such as unstable shelves or inclined surfaces. Also avoid places where there is vibration or where the product cannot be fully supported. Otherwise, the product may fall or flip over, which may cause injury or damage to the product.
- If you install the TV on a stand, you need to take actions to prevent the product from overturning. Otherwise, the product may fall over, which may cause injury.



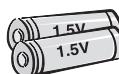
- If you intend to mount the product to a wall, attach VESA standard mounting interface (optional parts) to the back of the product. When you install the set to use the wall mounting bracket (optional parts), fix it carefully so as not to drop.
- Only use the attachments / accessories specified by the manufacturer.



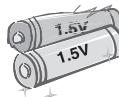
- When installing the antenna, consult with a qualified service technician. If not installed by a qualified technician, this may create a fire hazard or an electric shock hazard.



- We recommend that you maintain a distance of at least 2 to 7 times the diagonal screen size when watching TV. If you watch TV for a long period of time, this may cause blurred vision.



- Only use the specified type of battery. This could cause damage to the remote control.



- Do not mix new batteries with old batteries. This may cause the batteries to overheat and leak.

- Batteries should not be exposed to excessive heat. For example, keep away from direct Sunlight , open fireplace and electric heaters.
- Do not place non-rechargeable batteries in charging device.



- Make sure there are no objects between the remote control and its sensor.



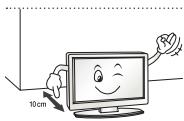
- Signal from Remote Control can be interrupted due to external/internal lighting eg Sunlight, fluorescent lighting. If this occurs turn off lighting or darken viewing area.



- When connecting external devices such as video game consoles, make sure the connecting cables are long enough. Otherwise, the product may fall over, which may cause injury or damage the product.



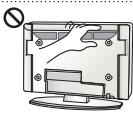
- Do not turn the product On/Off by plugging-in or unplugging the power plug to the wall outlet. (Do not use the power plug for switch.) It may cause mechanical failure or could give an electric shock.



- Please follow the installation instructions below to prevent the product from overheating.

- The distance between the product and the wall should be more than 10 cm.
- Do not install the product in a place with no ventilation (e.g., on a bookshelf or in a cupboard).
- Do not install the product on a carpet or cushion.
- Make sure the air vent is not blocked by a tablecloth or curtain.

Otherwise, this may result in fire.



- Take care not to touch the ventilation openings when watching the TV for long periods as the ventilation openings may become hot. This does not affect the operation or performance of the product.

- Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer.



- Prevent dust collecting on the power plug pins or outlet. This may cause a fire hazard.

- Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.

- Do not press strongly upon the panel with a hand or sharp object such as nail, pencil or pen, or make a scratch on it, as it may cause damage to screen.



- Avoid touching the screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary or permanent distortion/damage to screen.



- When cleaning the product and its components, unplug the power first and wipe it with a soft cloth. Applying excessive force may cause scratches or discolouration. Do not spray with water or wipe with a wet cloth. Never use glass cleaner, car or industrial shiner, abrasives or wax, benzene, alcohol etc., which can damage the product and its panel. Otherwise, this may result in fire, electric shock or product damage (deformation, corrosion or breakage).

- As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if you turn off this unit by SWITCH.



- When unplugging the cable, grab the plug and unplug it, by pulling at the plug. Don't pull at the cord to unplug the power cord from the power board, as this could be hazardous.



- When moving the product, make sure you turn the power off first. Then, unplug the power cables, antenna cables and all connecting cables. The TV set or power cord may be damaged, which may create a fire hazard or cause electric shock.



- When moving or unpacking the product, work in pairs because the product is heavy. Otherwise, this may result in injury.



- Contact the service centre once a year to clean the internal parts of the product. Accumulated dust can cause mechanical failure.



- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



- If the product feels cold to the touch, there may be a small "flicker" when it is turned on. This is normal, there is nothing wrong with product.



- The panel is a high technology display product with resolution of two million to six million pixels. You may see tiny black dots and/or brightly coloured dots (red, blue or green) at a size of 1 ppm on the panel. This does not indicate a malfunction and does not affect the performance and reliability of the product. This phenomenon also occurs in third-party products and is not subject to exchange or refund.



- You may find different brightness and colour of the panel depending on your viewing position(left/right/top/down). This phenomenon occurs due to the characteristic of the panel. It is not related with the product performance, and it is not malfunction.



- Displaying a still image (e.g., broadcasting channel logo, on-screen menu, scene from a video game) for a prolonged time may cause damage to the screen, resulting in retention of the image, which is known as image sticking. The warranty does not cover the product for image sticking.

Avoid displaying a fixed image on your television's screen for a prolonged period (2 or more hours for LCD, 1 or more hours for Plasma).

Also, if you watch the TV at a ratio of 4:3 for a long time, image sticking may occur on the borders of the panel.

This phenomenon also occurs in third-party products and is not subject to exchange or refund.

• Generated Sound

"Cracking" noise: A cracking noise that occurs when watching or turning off the TV is generated by plastic thermal contraction due to temperature and humidity. This noise is common for products where thermal deformation is required. Electrical circuit humming/panel buzzing: A low level noise is generated from a high-speed switching circuit, which supplies a large amount of current to operate a product. It varies depending on the product.

This generated sound does not affect the performance and reliability of the product.



NOTE

- Image shown may differ from your TV.
- Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual.
- The available menus and options may differ from the input source or product model that you are using.
- New features may be added to this TV in the future.
- The TV can be placed in standby mode in order to reduce the power consumption. And the TV should be turned off if it will not be watched for some time, as this will reduce energy consumption.
- The energy consumed during use can be significantly reduced if the level of brightness of the picture is reduced, and this will reduce the overall running cost.

INSTALLATION PROCEDURE

- 1 Open the package and make sure all the accessories are included.
- 2 Attach the stand to the TV set.
- 3 Connect an external device to the TV set.

ASSEMBLING AND PREPARING

Unpacking

Check your product box for the following items. If there are any missing accessories, contact the local dealer where you purchased your product. The illustrations in this manual may differ from the actual product and item.



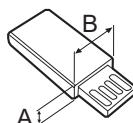
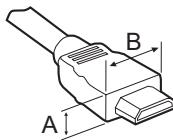
CAUTION

- Do not use any unapproved items to ensure the safety and product life span.
- Any damages or injuries by using unapproved items are not covered by the manufacturer's warranty.
- Some models have a thin film attached on to the screen and this must not be removed.



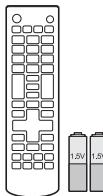
NOTE

- The items supplied with your product may vary depending on the model.
- Product specifications or contents of this manual may be changed without prior notice due to upgrade of product functions.
- For an optimal connection, HDMI cables and USB devices should have bezels less than 10 mm thick and 18 mm width. Use an extension cable that supports USB 2.0 if the USB cable or USB memory stick does not fit into your TV's USB port.



*A ≤ 10 mm

*B ≤ 18 mm



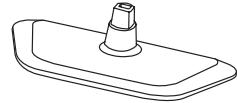
Remote control and batteries (AAA)
(See p.20)



Owner's manual



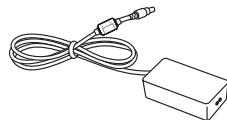
Cable Tie
(Depending on model)
(See p.16)



Stand Base
(See p.13)

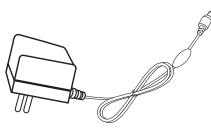


Power Cord
(Depending on model)
(See p.18)

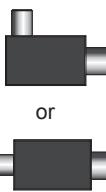


AC-DC Adapter
(Depending on model)
(See p.18)

or



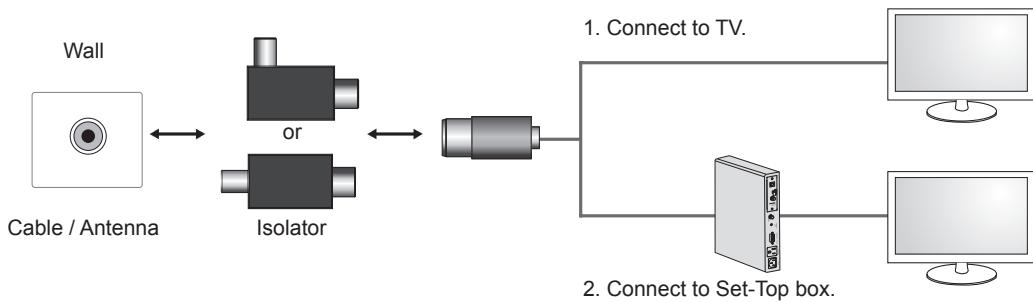
AC-DC Adapter
(Depending on model)
(See p.18)



Isolator
(Depending on model)
(See p.10)

**NOTE**

- Antenna Isolator Installation Guide
 - Use this to install TV in a place where there is a voltage difference between TV Set and GND of antenna signal.
 - » If there is a voltage difference between TV Set and GND of antenna signal, the antenna contact might be heated and excessive heat might cause an accident.
 - You can improve the safety when watching TV by efficiently removing power voltage from TV antenna. It is recommended to mount the isolator to the wall. If it cannot be mounted to the wall, mount it on the TV. Avoid disconnecting the antenna Isolator after installation.
 - Before starting, be sure that the TV antenna is connected.

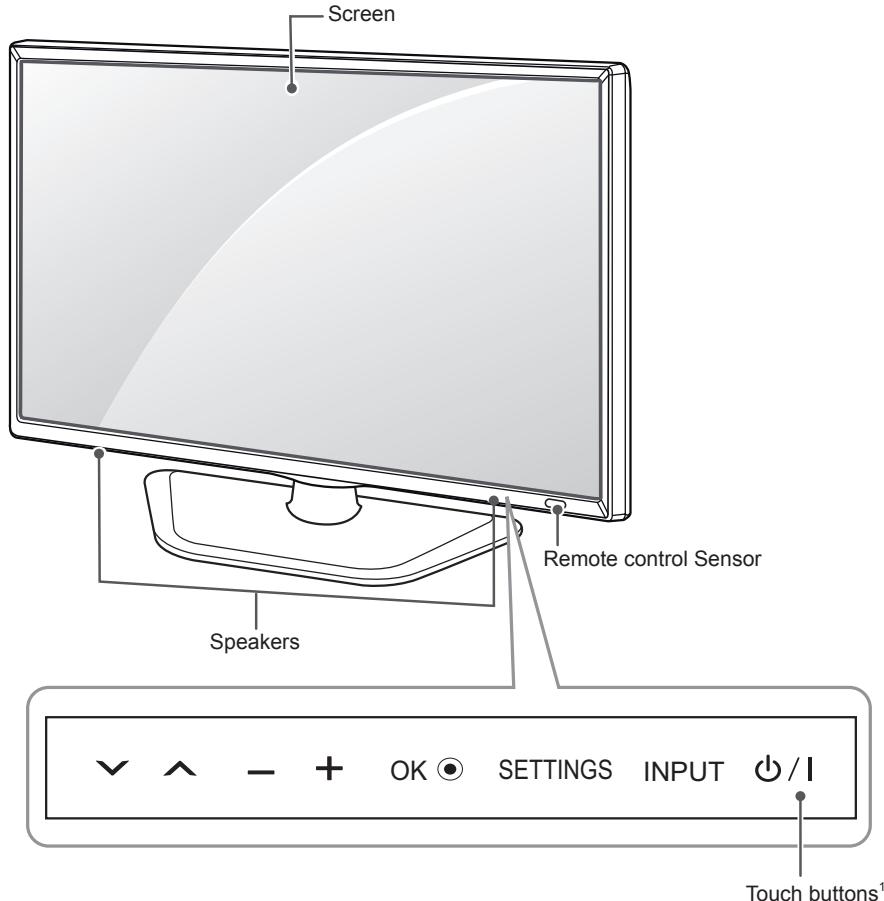


Connect one end of the isolator to cable/antenna jack and the other to TV set or set-top box.

"Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing - and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"

When applying the RF Isolator, a slight loss of signal sensitivity can occur.

Parts and buttons



Touch Buttons	Description
▼ ^	Scrolls through the saved programmes.
- +	Adjusts the volume level.
OK ◎	Selects the highlighted menu option or confirms an input.
SETTINGS	Accesses the main menu, or saves your input and exits the menus.
INPUT	Changes the input source.
⊕ / I	Turns the power on or off.

1 All of the buttons are touch sensitive and can be operated through simple touch with your finger.

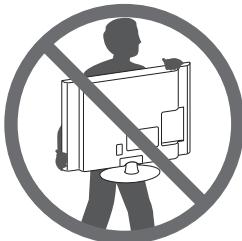
Lifting and moving the TV

Please note the following advice to prevent the TV from being scratched or damaged and for safe transportation regardless of its type and size.

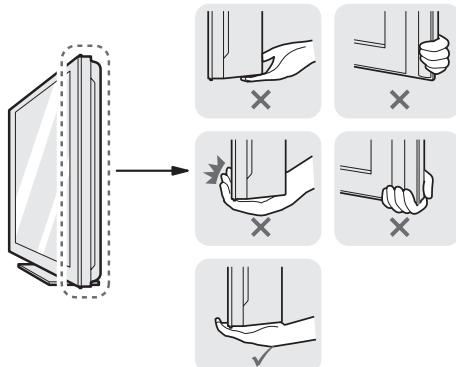


CAUTION

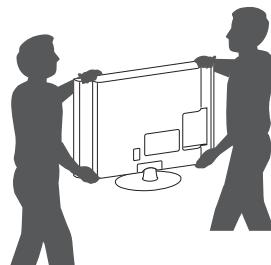
- Avoid touching the screen at all times, as this may result in damage to the screen.
- It is recommended to move the TV in the box or packing material that the TV originally came in.
- Before moving or lifting the TV, disconnect the power cord and all cables.
- When holding the TV, the screen should face away from you to avoid damage.



- Hold the top and bottom of the TV frame firmly. Make sure not to hold the transparent part, speaker, or speaker grill area.



- When transporting a large TV, there should be at least 2 people.
- When transporting the TV by hand, hold the TV as shown in the following illustration.

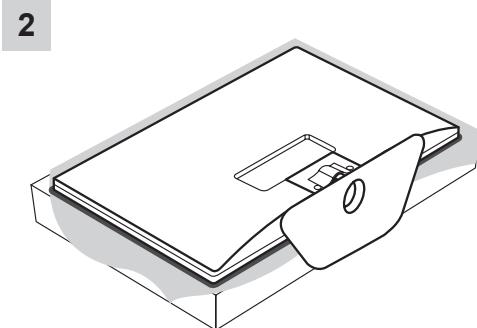
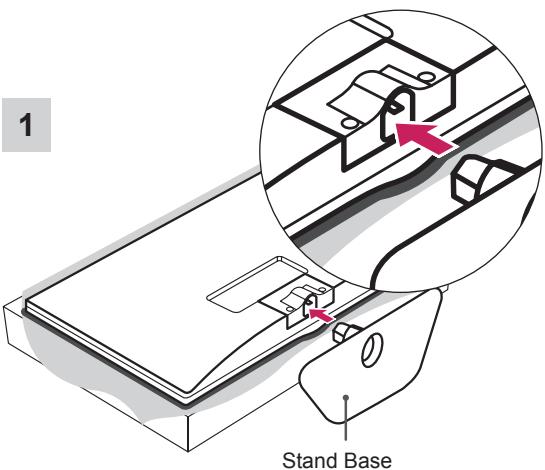


- When transporting the TV, do not expose the TV to jolts or excessive vibration.
- When transporting the TV, keep the TV upright, never turn the TV on its side or tilt towards the left or right.
- Do not apply excessive pressure to cause flexing / bending of frame chassis as it may damage screen.

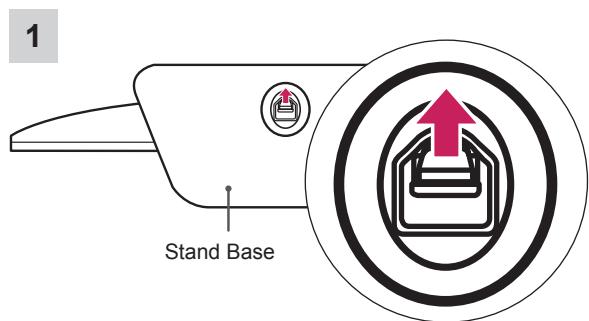
Setting up the TV

Image shown may differ from your TV.

Attaching the Stand Base

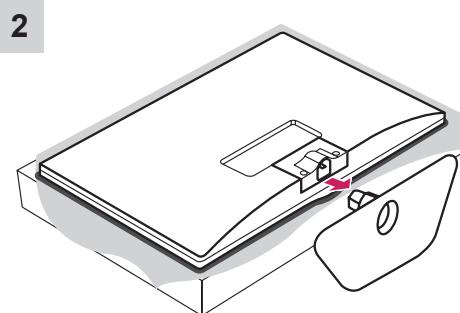


Detaching the Stand Base



NOTE

- When Detaching the stand from TV, Detach the stand with lifting up the lever in the direction of the arrow.



CAUTION

- Lay a foam mat or soft protective cloth on the surface to protect the screen from damage.
- When attaching the stand to the TV set, place the screen facing down on a cushioned table or flat surface to protect the screen from scratches.

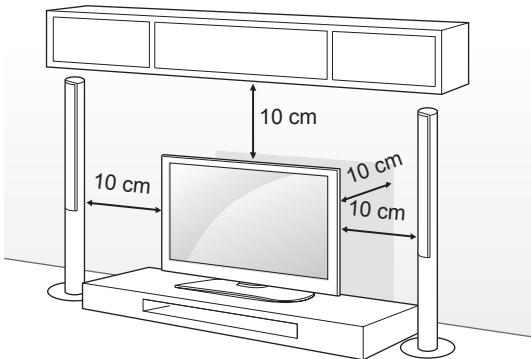


CAUTION

- Lay a foam mat or soft protective cloth on the surface to protect the screen from damage.
- When Detaching the stand to the TV set, place the screen facing down on a cushioned table or flat surface to protect the screen from scratches.

Mounting on a table

- 1 Lift and tilt the TV into its upright position on a table.
 - Leave a 10 cm (minimum) space from the wall for proper ventilation.



- 2 Connect the AC-DC Adapter and Power Cord to a wall outlet.

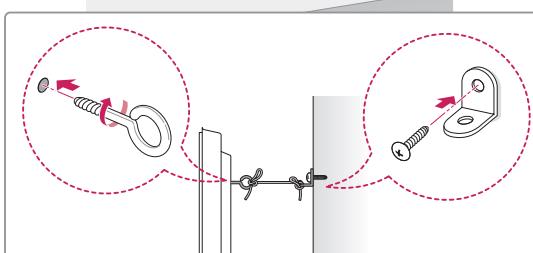
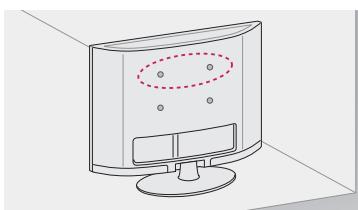


CAUTION

- Do not place the TV near or on sources of heat, as this may result in fire or other damage.

Securing the TV to a wall

(This feature is not available for all models.)



- 1 Insert and tighten the eye-bolts, or TV brackets and bolts on the back of the TV.
 - If there are bolts inserted at the eye-bolts position, remove the bolts first.
- 2 Mount the wall brackets with the bolts to the wall. Match the location of the wall bracket and the eye-bolts on the rear of the TV.
- 3 Connect the eye-bolts and wall brackets tightly with a sturdy rope.
Make sure to keep the rope horizontal with the flat surface.



CAUTION

- Make sure that children do not climb on or hang on the TV.



NOTE

- Use a platform or cabinet that is strong and large enough to support the TV securely.
- Brackets, bolts and ropes are not provided. You can obtain additional accessories from your local dealer.



WARNING

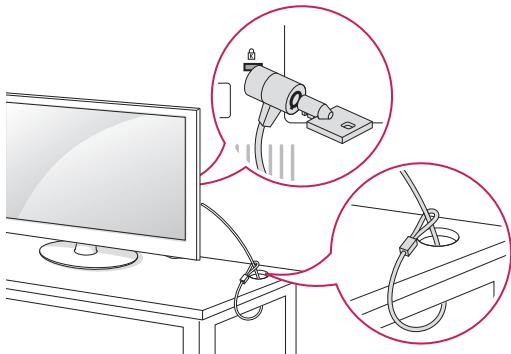
- If a television is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:
 - » Using cabinets or stands recommended by the manufacturer of the television.
 - » Only using furniture that can safely support the television.
 - » Ensuring the television is not overhanging the edge of the supporting furniture.
 - » Not placing the television on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television to a suitable support.
 - » Not standing the televisions on cloth or other materials placed between the television and supporting furniture.
 - » Educating children about the dangers of climbing on furniture to reach the television or its controls.

Using the Kensington security system

(This feature is not available for all models.)

The Kensington security system connector is located at the rear of the TV. For more information of installation and using, refer to the manual provided with the Kensington security system or visit <http://www.kensington.com>.

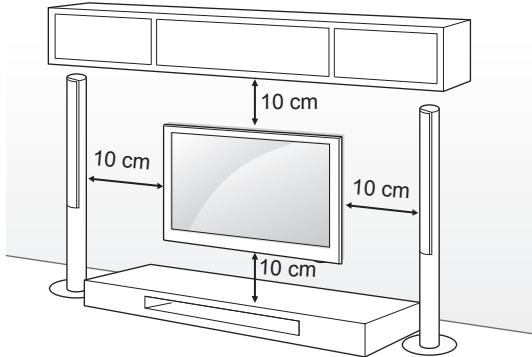
Connect the Kensington security system cable between the TV and a table.



Mounting on a wall

Attach an optional wall mount bracket at the rear of the TV carefully and install the wall mount bracket on a solid wall perpendicular to the floor. When you attach the TV to other building materials, please contact qualified personnel.

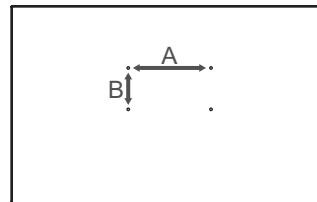
LG recommends that wall mounting be performed by a qualified professional installer.



Make sure to use screws and wall mount bracket that meet the VESA standard. Standard dimensions for the wall mount kits are described in the following table.

Separate purchase(Wall Mounting Bracket)

Model	22LN4000-TA
VESA (A x B)	100 x 100
Standard screw	M4
Number of screws	4
Wall mount bracket	LSW130B



**CAUTION**

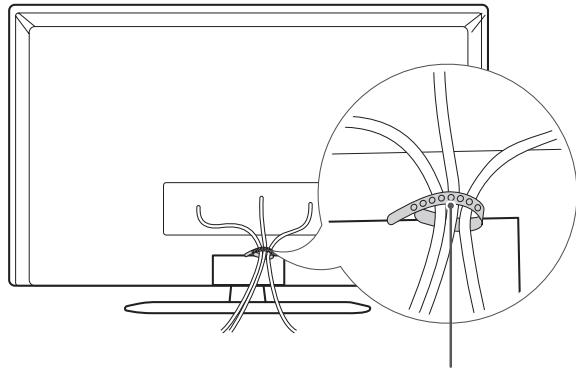
- Disconnect the power first, and then move or install the TV. Otherwise electric shock may occur.
- If you install the TV on a ceiling or slanted wall, it may fall and result in severe injury.
Use an authorized LG wall mount and contact the local dealer or qualified personnel.
- Do not over tighten the screws as this may cause damage to the TV and void your warranty.
- Use the screws and wall mounts that meet the VESA standard. Any damages or injuries by misuse or using an improper accessory are not covered by the manufacturer's warranty.

**NOTE**

- Use the screws that are listed on the VESA standard screw specifications.
- The wall mount kit includes an installation manual and necessary parts.
- The wall mount bracket is not provided. You can obtain additional accessories from your local dealer.
- The length of screws may differ depending on the wall mount. Make sure to use the proper length.
- For more information, refer to the manual supplied with the wall mount.

Tidying cables

Use Cable Tie to neatly secure and position cables together.

**CAUTION**

- Do not move the TV by holding the cable tie, as the cable ties may break, and injuries and damage to the TV may occur.

MAKING CONNECTIONS

This section on **MAKING CONNECTIONS** mainly uses diagrams for the 22LN4000-TA models. Connect various external devices to the TV and switch input modes to select an external device. For more information of external device's connection, refer to the manual provided with each device. Available external devices are: HD receivers, DVD players, VCRs, audio systems, USB storage devices, gaming devices, and other external devices.

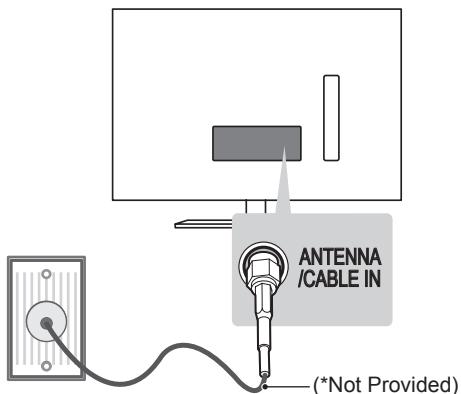


NOTE

- The external device connection may differ from the model.
- Connect external devices to the TV regardless of the order of the TV port.
- If you record a TV programme on a DVD recorder or VCR, make sure to connect the TV signal input cable to the TV through a DVD recorder or VCR. For more information of recording, refer to the manual provided with the connected device.
- Refer to the external equipment's manual for operating instructions.
- If you connect a gaming device to the TV, use the cable supplied with the gaming device.

Antenna connection

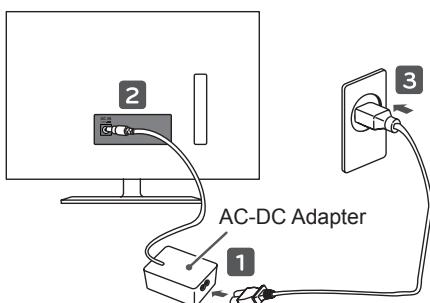
Connect the TV to a wall antenna socket with an RF cable (75Ω).



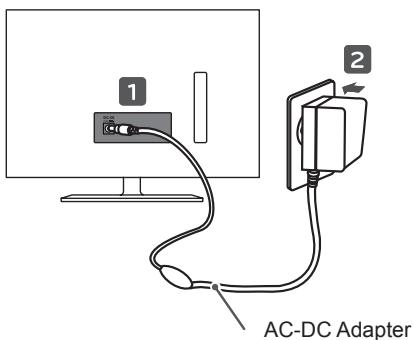
NOTE

- Use a signal splitter to use more than 2 TVs.
- If the image quality is poor, install a signal amplifier properly to improve the image quality.
- If the image quality is poor with an antenna connected, try to realign the antenna in the correct direction.
- An antenna cable and converter are not supplied.

Adapter connection



or

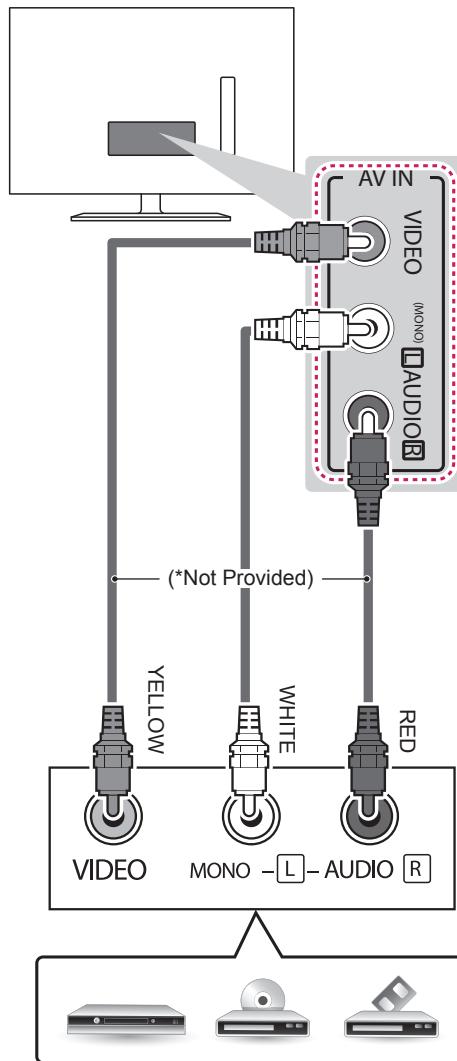


CAUTION

- Please be sure to connect the TV to the AC-DC power adapter before connecting the TV's power plug to a wall power outlet.

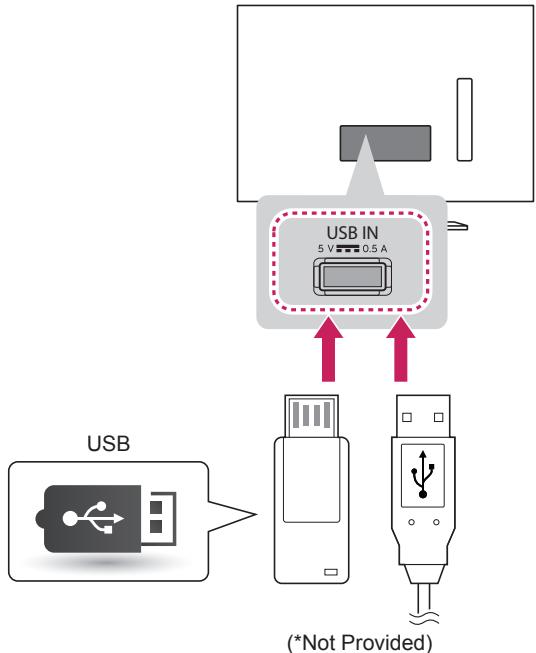
Composite connection

Transmits analog video and audio signals from an external device to the TV. Connect the external device and the TV with the composite cable as shown.



USB connection

Connect a USB storage device such as a USB flash memory, external hard drive, or a USB memory card reader to the TV and access the USB menu to use various multimedia files.

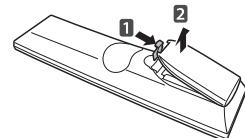


REMOTE CONTROL

The descriptions in this manual are based on the buttons on the remote control.
Please read this manual carefully and use the TV correctly.

To replace batteries, open the battery cover, replace batteries (1.5 V AAA) matching the \oplus and \ominus ends to the label inside the compartment, and close the battery cover.

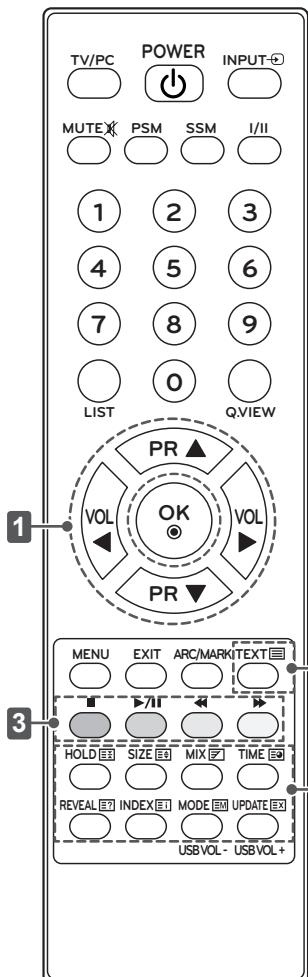
To remove the batteries, perform the installation actions in reverse.



CAUTION

- Do not mix old and new batteries, as this may damage the remote control.
- In Analogue TV and some countries, some remote control buttons may not work.

Make sure to point the remote control toward the remote control sensor on the TV.



TV/PC	This button does not function in this model.
POWER	Turns the TV on or off.
INPUT ↴	Changes the input source.
MUTE ✘	Mutes all sounds.
PSM	Recalls your preferred picture setting.
SSM	Recalls your preferred sound setting.
I/II	Selects the sound output.
Number buttons	Enters numbers.
LIST	Accesses the saved programme list.
Q.VIEW	Returns to the previously viewed programme.
1 Navigation buttons (up/down/left/right)	Scrolls through menus or options.
VOL ▲▼	Adjusts the volume level.
PR ▲▼	Selects a programme.
OK ◎	Selects menus or options and confirms your input.
MENU	Accesses the main menus or saves your input and exit menus.
EXIT	Clears on-screen displays and return to TV viewing.
ARC/MARK	Selects your desired picture format. / Check and uncheck files in the USB menu.
2 TELETEXT BUTTONS	These buttons are used for teletext.
3 Coloured buttons	These buttons are used for teletext (on TELETEXT models only). Programme edit.
3 USB Menu control buttons (▶/II ◀/▶)	Controls the USB menus(Music List).
USB VOL - + (Only USB Mode)	Adjusts the USB volume level.

WATCHING TV

Turning the TV on for the first time

When you turn the TV on for the first time, the Initial setting screen appears. Select a language and customize the basic settings.

- 1 Connect the power cord to a power outlet.
- 2 Press O/I on the TV to turn the TV on. The Standby Light lighting is turned off.



NOTE

- When the TV is in Power saving mode, the Standby Light lighting blinks.
- 3 The initial setting screen appears if you access the TV for the first time.



NOTE

- You can also switch the TV from PC mode to TV mode, press TV/PC.
- You can also access Factory Reset by accessing OPTION in the main menus.
- If you do not operate the TV within 40 seconds when the setting menu screen appears, the setting menus will disappear.

- 4 Follow the on-screen instructions to customize your TV settings according to your preferences.

Language	Selects a language to display.
Mode Setting	Selects Home Use for the home environment.
Auto Tuning	Scans and saves available programmes automatically.



NOTE

- To display images in the best quality for your home environment, select **Home Use** mode.
- **Store Demo** mode is suitable for the retail environment.
- If you select **Store Demo** mode, the previously customized settings will switch to the default settings of **Store Demo** in 5 minutes.

- 5 When the basic settings are complete, press the **OK**.



NOTE

- If you do not complete the initial setting, it will appear whenever you access the TV.

- 6 To turn the TV off, press O/I on the TV. The Standby Light turns on.



CAUTION

- Disconnect the power cord from the power outlet when you do not use the TV for a long period of time.

Watching TV

- 1 Press O on the Remote control or O/I on the TV to turn the TV on.
- 2 Press **INPUT** and select **Antenna**.
- 3 Control the TV using the following buttons and menus while you are watching TV.

Button / Menu	Description
PR(Δ, ∇)	Scrolls through the saved programmes.
0 - 9	Selects a programme by entering numbers.
VOL (\blacktriangleleft, \triangleright)	Adjusts the volume level.
MUTE	Mutes all sounds.
PSM	Selects one of the preset image modes.
SSM	Selects one of the preset audio modes.
ARC	Resizes an image.

- 4 To turn the TV off, Press O on the Remote control or O/I on the TV.

Managing programmes

Automatically setting up programme

Use this to automatically find and store all available programmes.

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.
- 3 Press the Navigation buttons to scroll to **Auto Tuning** and press **OK**.
- 4 Select **Yes** to start automatic tuning.
The TV scans and saves available programmes automatically.
- 5 When you are finished, press **EXIT**.
When you return to the previous menu, press **MENU**.

Assigning a station name

You can assign a station name with five characters to each programme number.

- 1 Press **MENU** and the Navigation buttons to scroll to **SETUP**.
- 2 Press the Navigation buttons to scroll to **Manual Tuning**.
- 3 Press the Navigation buttons to scroll to **Name**.
- 4 Press the Navigation buttons to scroll to select the position and make your choice of the second character, and so on. You can use an the alphabet A to Z, the number 0 to 9, +/-, and blank and press **OK**.
- 5 Press the **OK** to store it.
- 6 When you return to the previous menu, press **MENU**.

Manually setting up programme

Manual Tuning lets you manually tune and arrange the stations in whatever order you desire.

- 1 Press **MENU** and the Navigation buttons to scroll to **SETUP**.
- 2 Press the Navigation buttons to scroll to **Manual Tuning**.
- 3 Press the Navigation buttons to scroll to **Storage**.
- 4 Press the Navigation buttons or Number buttons to select the desired programme number.
- 5 Press the Navigation buttons to scroll to **System**.
- 6 Press the Navigation buttons to scroll to **Band**.
- 7 Press the Navigation buttons to scroll to **V/UHF or Cable**.
- 8 Press the Navigation buttons to scroll to **Channel**.
- 9 Press the Navigation buttons and then select the desired channel number with the Navigation buttons or Number buttons.
- 10 Press the Navigation buttons to scroll to **Search**.
- 11 Press the Navigation buttons to scroll and start Searching.
- 12 Press the **OK** to store it.
- 13 When you return to the previous menu, press **MENU**.



NOTE

- To store another programme, repeat steps 3 to 12.

Editing your programme list

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.
- 3 Press the Navigation buttons to scroll to **Programme Edit** and press **OK**.
- 4 Edit programmes using the following buttons.

Button	Description
Red button	Deletes a programme. Press the Red button twice. The selected programme is deleted, all the following programmes are shifted up one position.
Yellow button	Moves a programme. Press the Yellow button again to release this function.
Blue button	Selects a programme number to be skipped. Press the Blue button again to release the skipped programme.

Selecting a programme on the programme list

You can check which programmes are stored in the memory by displaying the programme list.

Displaying programme LIST

- 1 Press **LIST** button to access the Programme List.
- 2 When you are finished, press **MENU** or **EXIT**.



NOTE

- You may find some blue programmes. These have been set up to be skipped by auto programming or in the programme edit mode.
- Some programmes with the channel number shown in the programme LIST indicate there is no station name assigned.

Selecting a programme in the programme list

- 1 Press the Navigation buttons to programme.
- 2 Switch to the chosen programme number, press **OK**.

Favourite programme setup

Selecting favourite programme

Favourite programme is a convenient feature that lets you quickly scan up to programmes of your choice without having to wait for the TV to scan through all the in-between programmes.

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.
- 3 Press the Navigation buttons to scroll to **Programme Edit** and press **OK**.
- 4 Press the Navigation buttons to scroll to **Programme you want** and press **GREEN** button.
- 5 When you are finished, press **EXIT**.
- 6 When you return to the previous menu, press **MENU**.



NOTE

- This will automatically include the selected programme into your favourite programme list.

Displaying the favourite programme list

- 1 Press **Green button** to access the Favourite Programme List.
- 2 When you are finished, press **MENU** or **EXIT**.

Using additional options

Adjusting aspect ratio

Resize the image to view the image at its optimal size by pressing **ARC** while you are watching TV.



CAUTION

- If a fixed image displays on the screen for a long period of time, it will be imprinted and become a permanent disfigurement on the screen. This is "image burn" or "burn-in" and not covered by the warranty.
- If the aspect ratio is set to 4:3 for a long period of time, image burn may occur on the letterboxed area of the screen.

- **16:9**: The following selection will allow you to adjust the picture horizontally, in linear proportion, to fill the entire screen(useful for viewing 4:3 formatted DVDs).



- **Just Scan**: Following Selection will lead to you view the picture of best quality without loss of original picture in high resolution image.



NOTE

- If you select **Just Scan**, you may see image noises at the edge of the original signal.

- **Original**: When your TV receives a wide screen signal it will automatically change to the picture format broadcast.



- **4:3**: The following selection will allow you to view a picture with an original 4:3 aspect ratio, gray bars will appear on both the left and right of the screen.



- **14:9** : You can view a picture format of 14:9 or a general TV programme in the 14:9 mode. The 14:9 screen is viewed in the same way as in 4:3, but is magnified to the left and right.



- **Zoom1 & 2** : The following selection will allow you to view the picture without any alteration, while filling the entire screen. However, the top and bottom of the picture will be cropped.



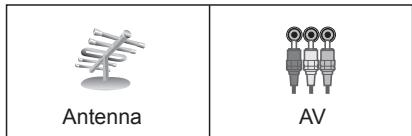
NOTE

- You can only select **16:9 (Wide)**, **Original**, **4:3**, **14:9**, **Zoom1/2** in **AV** mode.

Using the input list

Selecting an input source

- 1 Press **INPUT** to access the input source list.
- 2 Press the Navigation buttons to scroll to one of the input sources and press **OK**.
 - Image shown may differ from your TV.



Input source	Description
Antenna	Watch TV over the air and cable broadcast.
AV	Watch the contents in a VCR or other external devices.

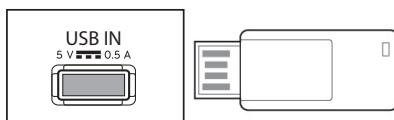
ENTERTAINMENT

(Depending on model)

- Image shown may differ from your TV.

Connecting USB storage devices

Connect USB storage devices such as a USB flash memory, external hard drive, or MP3 player to the TV and use multimedia features (See "Browsing files" on p.27). Connect a USB flash memory or USB memory card reader to the TV as shown on the following illustration. The **USB** screen appears.



CAUTION

- Do not turn the TV off or remove a USB storage device while the USB storage device is connected to the TV, as this could result in loss of files or damage to the USB storage device.
- Back up your files saved on a USB storage device frequently, as you may lose or damage the files and this may be not covered by the manufacturer's warranty.

Tips for using USB storage devices

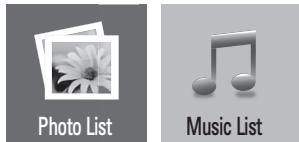
- Only a USB storage device is recognizable.
- If the USB storage device is connected through a USB hub, the device is not recognizable.
- A USB storage device using an automatic recognition programme may not be recognized.
- A USB storage device which uses its own driver may not be recognized.
- The recognition speed of a USB storage device may depend on each device.
- Please do not turn off the TV or unplug the USB device when the connected USB storage device is working. When such device is suddenly separated or unplugged, the stored files or the USB storage device may be damaged.
- Please do not connect the USB storage device which was artificially maneuvered on the PC. The device may cause the product to malfunction or fail to be played. Never forget to use only a USB storage device which has normal music files, image files.

- Please use only a USB storage device which was formatted as a FAT, FAT16, FAT32 file system provided with the windows operating system. In case of a storage device formatted as a different utility programme which is not supported by Windows, it may not be recognized.
- Please connect power to a USB storage device(over 0.5 A) which requires an external power supply. If not, the device may not be recognized.
- Please connect a USB storage device with the cable offered by the device maker.
- Some USB storage devices may not be supported or operated smoothly.
- File alignment method of USB storage device is similar to Window XP and filename can recognize up to 100 English characters.
- Be sure to back up important files since data stored in a USB memory device may be damaged. We will not be responsible for any data loss.
- If the USB HDD does not have an external power source, the USB device may not be detected. So be sure to connect the external power source.
- - Please use a power adaptor for an external power source. We do not guarantee an USB cable for an external power source.
- If your USB memory device has multiple partitions or if you use a USB multi-card reader, you can use up to 6 partitions or USB memory devices.
- If a USB memory device is connected to a USB multi-card reader, its volume data may not be detected.
- If the USB memory device does not work properly, disconnect and reconnect it.
- How fast a USB memory device is detected differs from device to device.
- If the USB is connected in Standby Mode, specific hard disk will automatically be loaded when the TV is turned on.
- The recommended capacity is 32 GB or less for USB memory.
- Any device with more than the recommended capacity may not work properly.
- USB storage devices below USB 2.0 are supported as well.
- When a broken file is played in the USB storage, the TV may turn off or work abnormally.
- If picture size is bigger than the recommended size, the picture quality would be bad.
- USB file/folder number has limitation, 648, at each folder.

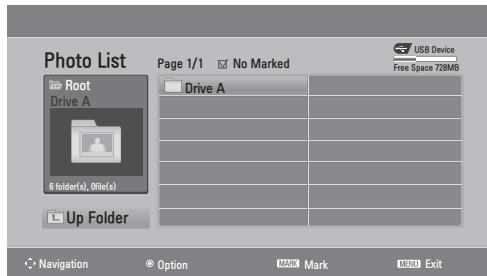
Browsing files

Access the Photo or Music lists and browse files.

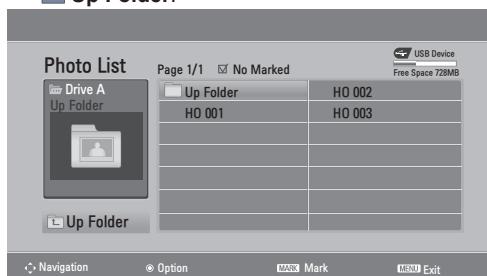
- 1 Connect a **USB** storage device.
- 2 Press **MENU** to access the main menus.
- 3 Press the Navigation buttons to scroll to **USB** and press **OK**.
- 4 Press the Navigation buttons to scroll to **Photo List** or **Music List** and press **OK**.



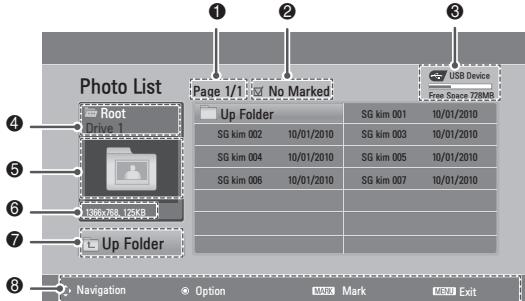
- 5 Select **Drive A** to access the connected USB storage device.



- 6 Select a folder you want.
- To return to the previous level, select **Up Folder**.



- 7 Press the Navigation buttons to browse files. The highlighted file will display in the preview window.



No.	Description
①	Current page number/total number of pages
②	The number of selected files
③	Usable USB memory
④	File and Folder name
⑤	Preview window
⑥	File size
⑦	Return to the previous level
⑧	Available buttons on the remote control

Supported file format

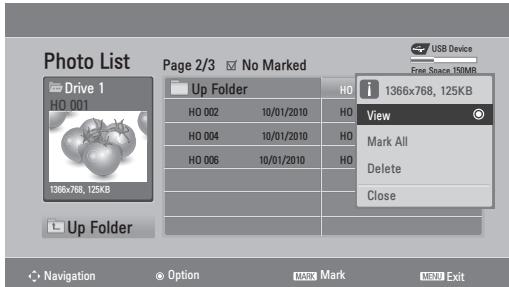
Type	Supported file format
Photo	<ul style="list-style-type: none"> • JPEG • Recommended size 960 pixel (W) x 540 pixel (H) • Available size Baseline: 64 pixel (W) x 64 pixel (H) - 12244 pixel (W) x 8640 pixel (H) Progressive: 64 pixel (W) x 64 pixel (H) - 1920 pixel (W) x 816 pixel (H)
Music	<ul style="list-style-type: none"> • MP3 • Bit rate range 32 Kbps - 320 Kbps • Sampling rate (Sampling Frequency) MPEG1 layer 3: 32 kHz, 44.1 kHz, 48 kHz MPEG2 layer 3: 16 kHz, 22.05 kHz, 24 kHz MPEG2.5 layer 3: 8 kHz, 11.025 kHz, 12 kHz <p>* A copy-protected file will not play.</p>

Viewing photos

View image files saved in a USB storage device. The displays on the screen may differ from the model.

- 1 Press the Navigation buttons to scroll to **USB** and press **OK**.
- 2 Press the Navigation buttons to scroll to **Photo List** and press **OK**.
- 3 Press the Navigation buttons to select **Drive1** to access the connected USB storage device.
- 4 Press the Navigation buttons to scroll to a folder you want and press **OK**.
- 5 Press the Navigation buttons to scroll to a file you want and press **OK**.

A pop-up window will appear.

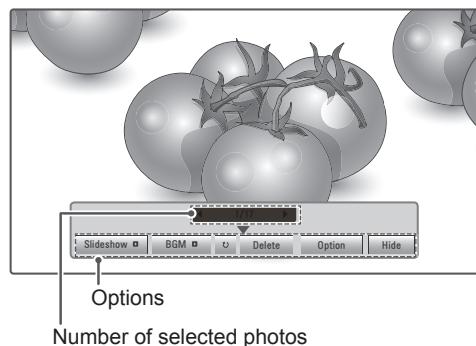


- 6 View photos by using the following menus.

Menu	Description
View	Displays the selected photo in a full-screen view. <ul style="list-style-type: none"> • Drive: Views photos saved in a USB storage drive.
Mark All or Unmark All	Selects all files or clears all of your selections
Delete	Deletes a file saved in a USB storage device.
Close	Closes the pop-up menu.

Using photo options

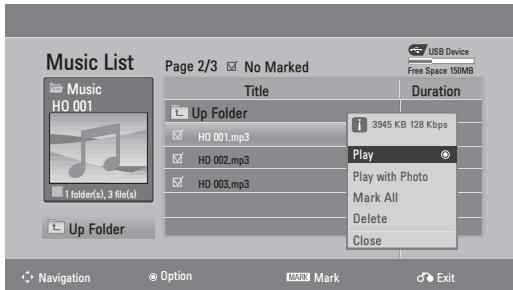
Use the following options while viewing photos.



Option	Description
Slideshow	Starts or stops a slideshow with selected photos. If there are no selected photos, all photos saved in the current folder display during a slideshow. To set a slideshow speed, select Option .
BGM	Turns the background music on or off. To set the background music folder, select Option .
↻ (Rotate)	Rotates photos clockwise (90°, 180°, 270°, 360°). <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> ! NOTE <ul style="list-style-type: none"> The supported photo size is limited. You cannot rotate a photo if the resolution of the rotated width is larger than the supported resolution size. </div>
Delete	Deletes a photo.
Option	<ul style="list-style-type: none"> Slide Speed: Selects a slideshow speed (Fast, Medium, Slow). Music Album: Selects a music folder for the background music. <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> ! NOTE <ul style="list-style-type: none"> You cannot change the music folder while the background music is playing. </div>
Hide	Hides the option window. To display the options, press OK .

Listening to music

- Press the Navigation buttons to scroll to **USB** and press **OK**.
 - Press the Navigation buttons to scroll to **Music List** and press **OK**.
 - Select **Drive1** to access the connected USB storage device.
 - Press the Navigation buttons to scroll to a folder you want and press **OK**.
 - Press the Navigation buttons to scroll to a file you want and press **OK**.
- A pop-up window will appear.



- Play music by using the following menus.

Menu	Description
Play, Stop Play, or Play Marked	Plays music, stops playback, or plays the selected music file. If you play music without selecting music files, all of the music files saved in the current folder will play. The ▶ icon will appear in front of the duration on the currently playing file. <ul style="list-style-type: none"> Drive: Listen to music files saved in a USB storage drive.
Play with Photo	Displays photos during playback.
Mark All or Unmark All	Selects all files or clears all of your selections
Delete	Deletes a file saved in a USB storage device.
Close	Closes the pop-up menu.

- Control playback by using the following buttons.

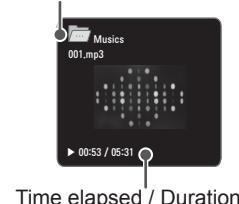
Button	Description
■	Stops playback
▶/II	Plays a music file and Pauses or resumes playback
▶▶	Skips to the next file
◀◀	Skips to the previous file



NOTE

- A damaged or corrupted file will not play and the duration of the file display as 00:00.
 - A copy-protected file will not play.
 - If the TV is not in use for some time during playback, the information box as a screensaver will appear to prevent image burn.
- To return to the Music list screen, press **MENU** or **EXIT**

Folder name / File name



Time elapsed / Duration

CUSTOMIZING TV SETTING

- Image shown may differ from your TV.

Accessing main menus

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to one of the following menus and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- 4 When you are finished, press **EXIT**.
When you return to the previous menu, press **MENU**.

Menu	Description
	SETUP Sets up and edit programmes.
	PICTURE Adjusts the image size, quality, or effect.
	AUDIO Adjusts the sound quality, effect, or volume level.
	TIME Sets the time, date, or timer feature.
	OPTION Customizes the general settings.
	USB Using integrated media features.

Customizing Settings

SETUP Settings

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
 - To return to the previous level, press **MENU**.
- 4 When you are finished, press **EXIT**.
When you return to the previous menu, press **MENU**.

- Image shown may differ from your TV.

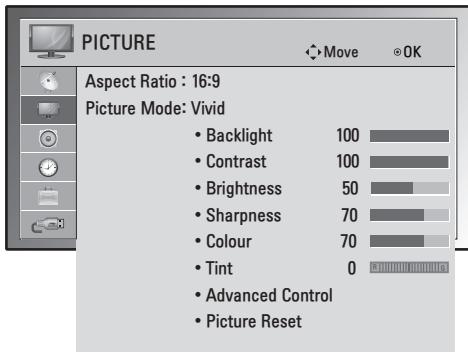


The available programme settings are described in the following:

Setting	Description
Auto Tuning	Tunes and stores all available programmes through antennas or cable inputs. (See p.22).
Manual Tuning	Tunes and stores the programmes you want manually. (See p.22).
Programme Edit	Edit the programme list. (See p.23).

PICTURE Settings

- 1 Press **MENU** to access the main menus.
 - 2 Press the Navigation buttons to scroll to **PICTURE** and press **OK**.
 - 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
 - To return to the previous level, press **MENU**.
 - 4 When you are finished, press **EXIT**.
 - 5 When you return to the previous menu, press **MENU**.
- Image shown may differ from your TV.



The available picture settings are described in the following.

Setting	Description
Aspect Ratio	Changes the image size to view images at its optimal size. (See p.24).
Picture Mode	Selects one of the preset image or customizes options in each mode for the best TV screen performance. You are also able to customize advanced options of each mode.
	Mode
	Vivid Adjusts the video image for the retail environment by enhancing the contrast, brightness, colour, and sharpness.
	Standard Adjusts the image for the normal environment.
	Cinema Optimizes the video images for a cinematic look to enjoy movies as if you are in a movie theatre.

Basic image options

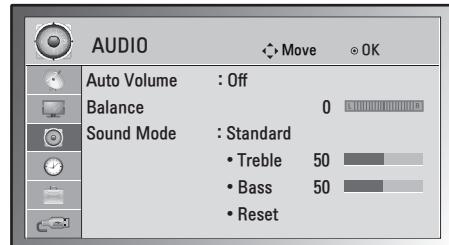
Setting	Description
Backlight	Adjusts the brightness of the screen by controlling the LCD backlight. If you decrease the brightness level, the screen becomes darker and the power consumption will be reduced without any video signal loss.
Contrast	Increases or decreases the gradient of the video signal. You may use Contrast when the bright part of the picture is saturated.
Brightness	Adjusts the base level of the signal in the picture. You may use Brightness when the dark part of the picture is saturated.
Sharpness	Adjusts the level of crispness in the edges between the light and dark areas of the picture. The lower the level, the softer the image.
Colour	Adjusts intensity of all Colours.
Tint	Adjusts the balance between red and green levels.
Advanced Control	Customizes the advanced options.
Picture Reset	Restores the options to the default setting.

Advanced image options (Depending on model)

Setting	Description
Colour Temperature (Medium/Warm/Cool)	This is the function to adjust the overall colour of the screen to the feeling you want.
Dynamic Contrast (Off/Low/High)	Adjusts the contrast to keep it at the best level according to the brightness of the screen. The picture is improved by making bright parts brighter and dark parts darker.
Dynamic Colour (Off/Low/High)	Adjusts screen colours so that they look livelier, richer and clearer. This feature enhances hue, saturation and luminance so that red, blue, green and white look more vivid.
Noise Reduction (Off/Low/Medium/ High)	Reduces screen noise without compromising video quality.
Black Level (Low/High/Auto)	<ul style="list-style-type: none"> Low: The picture of the screen gets darker. High: The picture of the screen gets brighter. Auto: Realizing the black level of the screen and set it to High or Low automatically. Set black level of the screen to proper level. This function enables to select 'Low' or 'High' in the following mode: AV(NTSC-M). Otherwise, 'Black level' is set to 'Auto'.
Film Mode (On/Off)	You can watch a cinema-like video by eliminating judder effect. Use this function when you watch movies.
Red/Green/Blue	This is the function to filter the specific colours of the video. You can use the RGB filter to set colour saturation and hue accurately.

AUDIO Settings

- 1 Press **MENU** to access the main menus.
 - 2 Press the Navigation buttons to scroll to **AUDIO** and press **OK**.
 - 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
 - To return to the previous level, press **MENU**.
 - 4 When you are finished, press **EXIT**.
 - 5 When you return to the previous menu, press **MENU**.
- Image shown may differ from your TV.



The available audio settings are described in the following.

Setting	Description
Auto Volume	Activates the Auto Volume feature to keep the volume level consistent whenever you change programmes. The volume level may not be consistent due to different signal conditions of broadcasting stations.
Balance	Adjusts balance between the left and right speakers according to your room environment.

Sound Mode	Selects one of the preset sound modes or customize each option in each mode.
Mode	
Standard	Select when you want standard-quality sound.
Music	Select when you listen to music.
Cinema	Select when you watch movies.
NOTE <ul style="list-style-type: none"> If sound quality or volume is not at the level you want, it is recommended to use a separate home theater system or amplifier to cope with different user environments. 	
Option	
Treble	Controls the dominant sounds in the output. When you turn up the treble, it will increase the output to the higher frequency range.
Bass	Controls the softer sounds in the output. When you turn up the bass, it will increase the output to the lower frequency range.
Reset	Resets the sound mode to the default setting.

This feature may not be applied based on country broadcasting circumstance.

Stereo/Dual Reception

When a programme is selected, the sound information for the station appears with the programme number and station name.

- 1 Press I/II and press the One/Two and press OK.

Broadcast	On Screen Display
Mono	MONO
Stereo	STEREO
Dual	DUAL I , DUAL II , DUAL I + II

- Mono sound selection**

If the stereo signal is weak in stereo reception, you can switch to mono. In mono reception, the clarity of sound is improved.

- Language selection for dual language broadcast**

a programme can be received in two languages (dual language), you can switch to DUAL I, DUAL II or DUAL I + II.

DUAL I Sends the primary broadcast language to the loudspeakers.

DUAL II Sends the secondary broadcast language to the loudspeakers.

DUAL I+II Sends a separate language to each loudspeaker.

Nicam Reception

If the TV is equipped with a receiver for NICAM reception, high quality NICAM (Near Instantaneous Companding Audio Multiplex) digital sound can be received.

Sound output can be selected according to the type of broadcast received.

- 1 When **NICAM** mono is received, you can select **NICAM MONO** or **MONO**.
- 2 When **NICAM** stereo is received, you can select **NICAM STEREO** or **MONO**.
- 3 If the stereo signal is weak, switch to **MONO**.
- 4 When **NICAM** dual is received, you can select **NICAM DUAL I**, **NICAM DUAL II** or **NICAM DUAL I+II** or **MONO**.

Speaker Sound Output Selection

In AV mode, you can select output sound for the left and right loudspeakers.

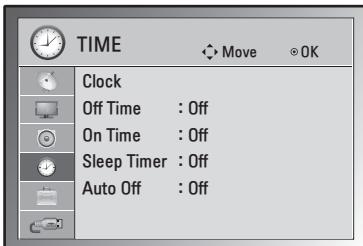
Select the sound output.

- L+R:** Audio signal from audio L input is sent to the left loudspeaker and audio signal from audio R input is sent to the right loudspeaker.
- L+L:** Audio signal from audio L input is sent to left and right loudspeakers.
- R+R:** Audio signal from audio R input is sent to left and right loudspeakers.

TIME Settings

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to **TIME** and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
 - To return to the previous level, press **MENU**.
- 4 When you are finished, press **EXIT**.
- 5 When you return to the previous menu, press **MENU**.

• Image shown may differ from your TV.



The available audio settings are described in the following.

Setting	Description
Clock	You must set the time correctly before using on/off time function. If current time setting is erased by a power failure or the TV is unplugged, reset the clock.
Off Time/On Time	Sets the time to turn on or off the tv automatically. To use this function, you should set the current time and date in the Clock menu.
Sleep Timer	Sets the length of time until the TV turns off. When you turn the TV off and turn it on again, the Sleep Timer will be set to off.
Auto Off	If the set is switched on and there is no input signal, it will switch off automatically after 15 minutes.



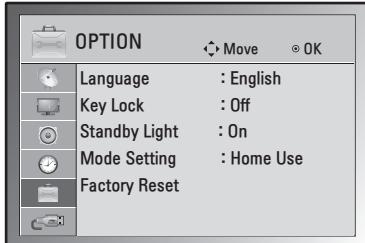
NOTE

- If you do not press any button within 2 hours after the TV turns on by the On Time feature, the TV enters the Standby mode automatically.
- If you set the On Time feature and turn the TV off by pressing Main power switch, the On Time feature will not work. To activate the On Time feature, the TV must be in Standby mode.
- If you set both Off Time and On Time features to the same time, the Off Time function overrides the On Time feature.

OPTION Settings

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to **OPTION** and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- 4 To return to the previous level, press **MENU**.
 - When you are finished, press **EXIT**.
- 5 When you return to the previous menu, press **MENU**.

- Image shown may differ from your TV.



The available audio settings are described in the following.

Setting	Description			
Language	Selects a language for the display.			
Key Lock	The TV can be set so that the remote control is required to control it. This feature can be used to prevent unauthorized viewing. NOTE <ul style="list-style-type: none"> • In Key Lock 'On', if the TV is turned off, press the ④/I button on the TV or POWER buttons on the remote control. • With the Key Lock On, the display '⚠ Key Lock On' appears on the screen if any button on the front panel is pressed while viewing the TV. 			
Standby Light	Sets to turn on or off the Standby Light on the TV.			
Mode Setting	Customizes the TV settings to suit your preference. The initial setup screen will appear when you turn on the TV for the first time. <table border="1"> <thead> <tr> <th>Setting</th> </tr> </thead> <tbody> <tr> <td>Mode Setting</td> <td>Selects Home Use mode for the home environment. Selects Store Demo mode for the retail environment.</td> </tr> </tbody> </table>	Setting	Mode Setting	Selects Home Use mode for the home environment. Selects Store Demo mode for the retail environment.
Setting				
Mode Setting	Selects Home Use mode for the home environment. Selects Store Demo mode for the retail environment.			
Factory Reset	This function initializes all settings.			

USB settings

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to **USB** and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- 4 To return to the previous level, press **MENU**.
 - When you are finished, press **EXIT**.
- 5 When you return to the previous menu, press **MENU**.

- Image shown may differ from your TV.



The available audio settings are described in the following.

Setting	Description
Photo List	You can view photo files on USB storage device. (See p.28)
Music List	You can play music files on USB storage device. (See p.29)

TELETEXT

- This feature is not available in all countries.

Teletext is a free service broadcast by most **TV** stations which gives up to the minute information on news, weather, television programmes, share prices and many other topics. The teletext decoder of this **TV** can support the **SIMPLE**, **TOP** and **FASTEXT** systems. **SIMPLE** (standard teletext) consists of a number of pages which are selected by directly entering the corresponding page number. **TOP** and **FASTEXT** are more modern methods allowing quick and easy selection of teletext information.

Teletext Service - only via Digital Tuner access where TV broadcast available.

Switch On/Off

Press the **TEXT** button to switch to teletext. The initial page or last page appears on the screen. Two page numbers, **TV** station name, date and time are displayed on the screen headline. The first page number indicates your selection, while the second shows the current page displayed.

Press the **TEXT** or **EXIT** button to switch off teletext. The previous mode reappears.

Simple Text

Page selection

- Enter the desired page number as a three-digit number with the **NUMBER** buttons. If during selection you press a wrong number, you must complete the three-digit number and then re-enter the correct page number.
- The Navigation button can be used to select the previous or next page.

Programming a colour button in LIST mode

If the TV is in SIMPLE text, TOP text or FASTEXT mode, press the **EM** button to switch to LIST mode.

Four teletext page numbers of your choice can be colour coded and easily selected by pressing the corresponding coloured button on the remote control handset.

- Press a coloured button.
- Using the **NUMBER** buttons, select the page you wish to programme.
- Press the **OK** button. The selected page is stored as the selected page number, blinking once to confirm this. From now on, you can select this page with the same coloured button.
- The three other coloured buttons are programmed in this way.

Top Text

The user guide displays four fields-red, green, yellow and blue at the bottom of the screen. The yellow field denotes the next group and the blue field indicates the next block.

Block / Group / Page Selection

- With the Blue button you can progress from block to block.
- Use the Yellow button to proceed to the next group with automatic overflow to the next block.
- With the Green button you can proceed to the next existing page with automatic overflow to the next group. Alternatively, the **PR** **▲** button can be used.
- The Red button permits you to return to previous selection. Alternatively, the **PR** **▼** button can be used.

Direct Page Selection

As with SIMPLE teletext mode, you can select a page by entering it as a three digit number using the **NUMBER** buttons in **TOP** mode.

FASTEXT

The teletext pages are colour coded along the bottom of the screen and are selected by pressing the corresponding coloured button.

Page selection

- 1 Press the  button to select the index page.
- 2 You can select the pages which are colour coded along the bottom line with corresponding coloured buttons.
- 3 AS with SIMPLE teletext mode, you can select a page by entering its three digit page number with the NUMBER buttons in FASTTEXT mode.
- 4 The PR  or PR  button can be used to select the preceding or following page.

Special Teletext Function

Hold

Stops the automatic page change which will occur if a teletext page consists of 2 or more sub pages. The number of sub pages and the sub page displayed is, usually, shown on the screen below the time. When this menu is selected the stop symbol is displayed at the top left-hand corner of the screen and the automatic page change is inactive.

Size

Selects double height text.
Press this button to enlarge the top half of the page.
Press this button again to enlarge the bottom half of the page.
Press this button again to return to the normal display.

MIX

Displays the teletext pages superimposed on the TV picture.
To switch the TV picture off press this button again.

Time

When viewing a TV programme, select this menu to display the time at the top right hand corner of the screen.

In the teletext mode, press this button to select a sub page number. The sub page number is displayed at the bottom of the screen. To hold or change the sub page, press the RED/GREEN, Navigation buttons or NUMBER buttons.

Reveal

Select this menu to display concealed information, such as solutions to riddles or puzzles.

Index

Select the each index page.

Update

Displays the TV picture on the screen while waiting for a new teletext page. The display will appear at the top left hand corner of the screen. When the updated page is available then display will change to the page number. Select this menu again to view the updated teletext page.

MAINTENANCE

Cleaning your TV

Clean your TV regularly to keep the best performance and to extend the product lifespan.



CAUTION

- Make sure to turn the power off and disconnect the power cord and all other cables first.
- When the TV is left unattended and unused for a long time, disconnect the power cord from the wall outlet to prevent possible damage from lightning or power surges.

Screen, frame, cabinet and stand

- To remove dust or light dirt, wipe the surface with a dry, clean, and soft cloth.
- To remove major dirt, wipe the surface with a soft cloth dampened in clean water or a diluted mild detergent. Then wipe immediately with a dry cloth.



CAUTION

- Avoid touching the screen at all times, as this may result in damage to the screen.
- Do not push, rub, or hit the screen surface with your fingernail or a sharp object, as this may result in scratches and image distortions.
- Do not use any chemicals as this may damage the product.
- Do not spray liquid onto the surface. If water enters the TV, it may result in fire, electric shock, or malfunction.

Power cord

Remove the accumulated dust or dirt on the power cord regularly.

TROUBLESHOOTING

Problem	Solution
Cannot control the TV with the remote control.	<ul style="list-style-type: none"> • Check the remote control sensor on the product and try again. • Check if there is any obstacle between the product and the remote control. • Check if the batteries are still working and properly installed (\oplus to \oplus, \ominus to \ominus).
No image display and no sound is produced.	<ul style="list-style-type: none"> • Check if the product is turned on. • Check if the power cord is connected to a wall outlet. • Check if there is a problem in the wall outlet by connecting other products.
The TV turns off suddenly.	<ul style="list-style-type: none"> • Check the power control settings. The power supply may be interrupted. • Check if the Auto sleep feature is activated in the Time settings. • If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.

SPECIFICATIONS

Product specifications may be changed without prior notice due to upgrade of product functions.
For the power supply and power consumption, refer to the label attached to the product.

22LN4000-TA

With Stand (W x H x D) / Weight	513.0 mm x 362.0 mm x 140.0 mm / 3.2 kg
Without Stand (W x H x D) / Weight	513.0 mm x 320.0 mm x 63.0 mm / 3.0 kg
Power requirement	19 V ---
AC/DC Adapter	Manufacturer : Lien Chang Model : LCAP16A-E, LCAP16A-A, LCAP25A Manufacturer : Honor Model : ADS-40SG-19-2 19032G, ADS-40FSG-19 19032GPG, ADS-40FSG-19 19032GPCU Manufacturer : APD Model : DA-32B19

Environment condition	Operating Temperature	0 °C to 40 °C
	Operating Humidity	Less than 80 %
	Storage Temperature	-20 °C to 60 °C
	Storage Humidity	Less than 85 %

Analogue TV		
New Zealand, Singapore	Television System	PAL/SECAM-B/G/D/K, PAL-I
	Programme Coverage	BG : VHF/UHF 1 to 69, CATV 01 to 47 I : VHF/UHF 1 to 69, CATV 01 to 47 DK : VHF/UHF 1 to 69, CATV 01 to 47
Indonesia, Israel, Myanmar, Sri Lanka	Television System	PAL/SECAM-B/G/D/K, PAL-I, NTSC-M
	Programme Coverage	BG : VHF/UHF 1 to 69, CATV 01 to 47 I : VHF/UHF 1 to 69, CATV 01 to 47 DK : VHF/UHF 1 to 69, CATV 01 to 47 M : VHF/UHF 2 to 78, CATV 01 to 71
Vietnam, Malaysia	Television System	PAL/SECAM-B/G/D/K, PAL-I, NTSC-M
	Programme Coverage	BG : VHF/UHF 1 to 69, CATV 01 to 47 I : VHF/UHF 1 to 69, CATV 01 to 47 DK : VHF/UHF 1 to 69, CATV 01 to 47 M : VHF/UHF 2 to 78, CATV 01 to 71
Analogue model, India, Thailand, South Africa, --	Television System	PAL/SECAM-B/G/D/K, PAL-I, NTSC-M
	Programme Coverage	BG : VHF/UHF 1 to 69, CATV 01 to 47 I : VHF/UHF 1 to 69, CATV 01 to 47 DK : VHF/UHF 1 to 69, CATV 01 to 47 M : VHF/UHF 2 to 78, CATV 01 to 71
	External Antenna Impedance	75 Ω



Record the model number and serial number of
the TV.

Refer to the label on the back cover and quote
this information to your dealer when requiring any
service.

MODEL _____

SERIAL _____