



OWNER'S MANUAL

## Safety and Reference

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



COV33348001

[www.lg.com](http://www.lg.com)

P/NO : COV33348001

Printed in China

## Safety instructions

Please read these safety precautions carefully before using the product.

### ⚠ WARNING



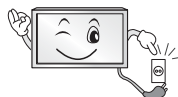
Do not place the TV and/or remote control in the following environments:

- 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.



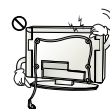
Ensure the power cord does not come into contact with hot objects such as a heater. This may cause a fire or an electric shock hazard.



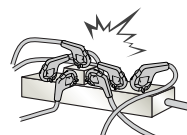
Do not place a heavy object, or the product itself, on power cables. Otherwise, this may result in fire or electric shock.



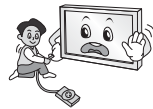
Bend antenna cable between inside and outside building to prevent rain from flowing in. This may cause water damaged inside the Product and could give an electric shock.



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.

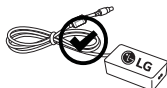


Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Do not install this product on a wall if it could be exposed to oil or oil mist. This may damage the product and cause it to fall.



If water enters or comes into contact with TV, AC adapter or power cord please disconnect the power cord and contact service centre immediately. Otherwise, this may result in electric shock or fire.



Only use an authorized AC adapter and power cord approved by LG Electronics. Otherwise, this may result in fire, electric shock, malfunction or product deformation.



Never Disassemble the AC adapter or power cord. This may result in fire or electric shock.

## ⚠ CAUTION



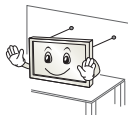
Install the product where no radio wave occurs.



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.

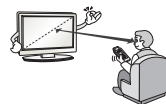
If you intend to mount the product to a wall, attach VESA standard mounting interface (optional parts) to the back of the product. When you install the set to use the wall mounting bracket (optional parts), fix it carefully so as not to drop.

Only use the attachments / accessories specified by the manufacturer.

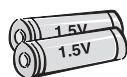


When installing the antenna, consult with a qualified service technician. If not installed by a qualified technician, this may create a fire hazard or an electric shock hazard.

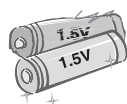




We recommend that you maintain a distance of at least 2 to 7 times the diagonal screen size when watching TV. If you watch TV for a long period of time, this may cause blurred vision.



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.

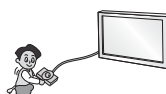
Do not place non-rechargeable batteries in charging device.



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



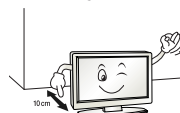
Signal from Remote Control can be interrupted due to external/internal lighting eg Sunlight, fluorescent lighting. If this occurs turn off lighting or darken viewing area.



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.



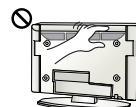
Do not turn the product On/Off by plugging-in or unplugging the power plug to the wall outlet. (Do not use the power plug for switch.) It may cause mechanical failure or could give an electric shock.



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.

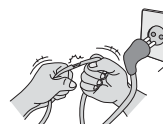


Take care not to touch the ventilation openings when watching the TV for long periods as the ventilation openings may become hot. This does not affect the operation or performance of the product.

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.



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



You may find different brightness and color 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.

**\* Disclaimer**

**LG LED TVs are LCD TVs with LED backlighting.**



Displaying a still image (e.g., broadcasting programme 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.

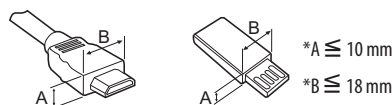
This generated sound does not affect the performance and reliability of the product.

Do not use high voltage electrical goods near the TV (e.g. electric mosquito-swatter). This may result in product malfunction.

## Preparing

**! 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.
- 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.



- Use a certified cable with the HDMI logo attached.
- If you do not use a certified HDMI cable, the screen may not display or a connection error may occur. (Recommended HDMI cable types)
  - High-Speed HDMI®/™ cable (3 m or less)
  - High-Speed HDMI®/™ cable with Ethernet (3 m or less)

**! CAUTION**

- Do not use any unapproved items to ensure the safety and product life span.
- Any damage or injuries caused 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.
- 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.
- Make sure that the screws are fastened completely. (If they are not fastened securely enough, the TV may tilt forward after being installed.) Do not use too much force and over tighten the screws; otherwise screw may be damaged and not tighten correctly.

## Maintenance

### Cleaning your TV

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

- 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.

- 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.

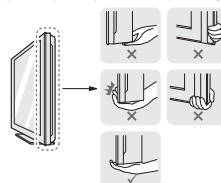
## Lifting and moving the TV

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

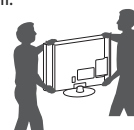
- It is recommended to move the TV in the box or packing material that the TV originally came in.
- Before moving or lifting the TV, disconnect the power cord and all cables.
- When holding the TV, the screen should face away from you to avoid damage.



- 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.



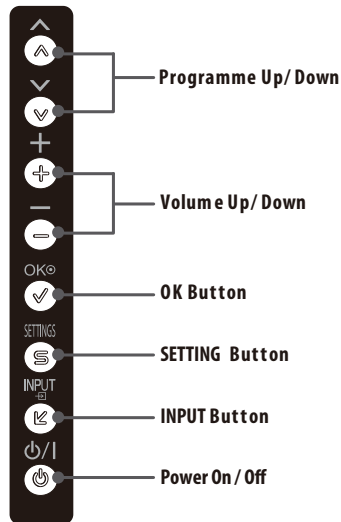
- When transporting the TV, do not expose the TV to jolts or excessive vibration.
- When transporting the TV, keep the TV upright, never turn the TV on its side or tilt towards the left or right.
- Do not apply excessive pressure to cause flexing /bending of frame chassis as it may damage screen.
- When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

### CAUTION

- Avoid touching the screen at all times, as this may result in damage to the screen.
- Do not move the TV by holding the cable holders, as the cable holders may break, and injuries and damage to the TV may occur.

## Using the keyboard button

You can operate the TV by pressing the keyboard buttons.

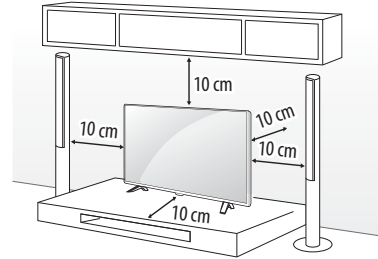


## Mounting on a table

(Depending on model)

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 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.

### 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:

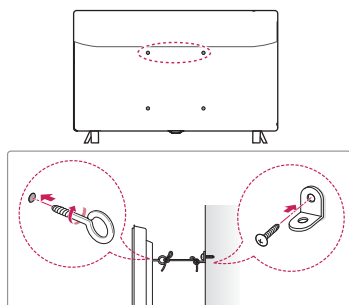
- Using cabinets or stands recommended by the manufacturer of the television.
- Only using furniture that can safely support the television.
- Ensuring the television is not overhanging the edge of the supporting furniture.
- Not placing the television on tall furniture (for example, cupboards or bookcases) 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.

## Adjusting the Menu

	<b>OK</b>	Press OK to access the setting.
	<b>INPUT</b>	1. Press INPUT to select input. 2. When Power off mode, then can access the setting
	<b>MOVE left/right</b>	Press + / - to move left/right on a menu or a submenu.
	<b>MOVE up/down</b>	1. Press ^ / V to move up/down on a menu or a submenu. 2. When Power off mode, then can access the setting
	<b>MENU/EXIT</b>	1. When there is no OSD on the screen, press SETTING can access the menu settings. 2. When there is an OSD on the screen, press SETTING can exit the menu settings.

## Securing the TV to a wall

(This feature is not available for all models.)



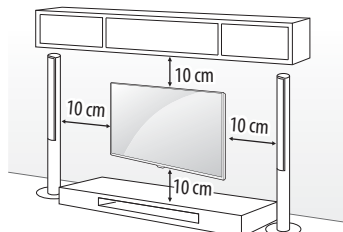
- 1 Insert and tighten the eye-bolts, or TV brackets and bolts on the back of the TV.
  - If there are bolts inserted at the eye-bolts position, remove the bolts first.
- 2 Mount the wall brackets with the bolts to the wall. Match the location of the wall bracket and the eye-bolts on the rear of the 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

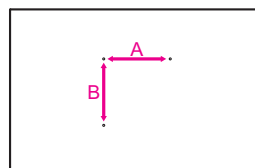
- Use a platform or cabinet that is strong and large enough to support the TV securely.
- Brackets, bolts and ropes are not provided. You can obtain additional accessories from your local dealer.



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	32LF520*
VESA (A x B)	200 x 200
Standard screw	M6
Number of screws	4
Wall mount bracket (optional)	LSW240B MSW240



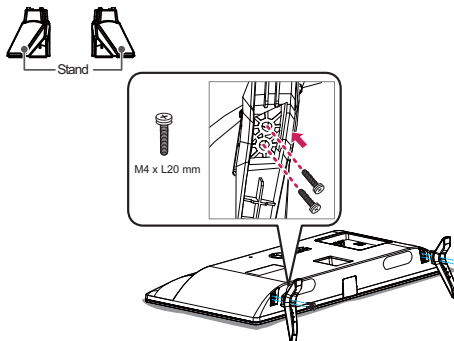
## Mounting on a wall

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. We recommend the use of LG's wall mount bracket. When you do not use LG's wall mount bracket, please use a wall mount bracket where the device is adequately secured to the wall with enough space to allow connectivity to external devices.

### ⚠ CAUTION

- Disconnect the power first, and then move or install the TV. Otherwise electric shock may occur.
- Remove the stand before installing the TV on a wall mount by performing the stand attachment in reverse.
- If you install the TV on a ceiling or slanted wall, it may fall and result in severe injury. Use an authorised 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.

### Attaching the shelf stand



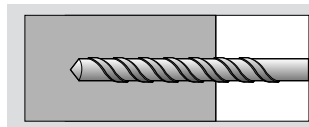
### How to attach to masonry walls

Use the anchors for wall material of concrete, light concrete, strong natural stone, soft natural stone masonry brick and hollow block that do not crack.

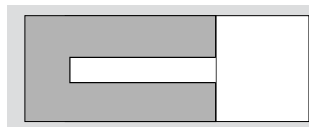
### Please follow the below direction

- Check the material of the wall and the thickness of the finishing.
- When installing the product on wall material not designated, install the product so that each fixated location can withstand the pull out load of 70 kgf (686 N) and shear load of 100 kgf (980 N) or above.
- Use the Ø8 mm drill bit for concrete and hammer (Impact) drill.

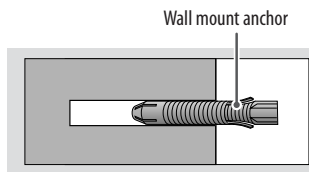
1



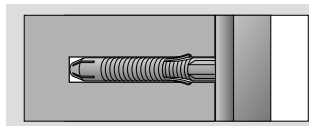
2



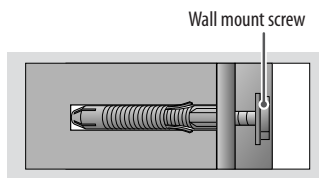
3



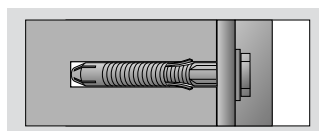
4



5



6



- 1 Use a drill bit Ø8 mm to drill a hole for the anchor location within a depth of 80 mm - 100 mm.
- 2 Clean the drilled hole.
- 3 Insert the sealed anchor to the hole. (When inserting the anchor, use a hammer.)
- 4 Set the wall mount on the wall by aligning to the location of the hole. and, set the angle adjusting part to face upward.
- 5 Align the wall mount bolt to the hole and tighten it. Then, fasten the bolts at torque of 45 kgf/cm - 60 kgf/cm.

## Connections (notifications)

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, PC, 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 program 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 (75 Ω).

- 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.

### Antenna Booster

- This feature improves the sensitivity to weak RF Signal in poor reception areas. LG's built-in booster is auto-activated at weak signal level. It strengthens signal level and minimizes picture colour noise.
- This feature is auto-controlled by processor and no user intervention required.

## Other connections

Connect your TV to external devices. For the best picture and audio quality, connect the external device and the TV with the HDMI cable. Some separate cable is not provided.



# Remote control

(Depending on model)

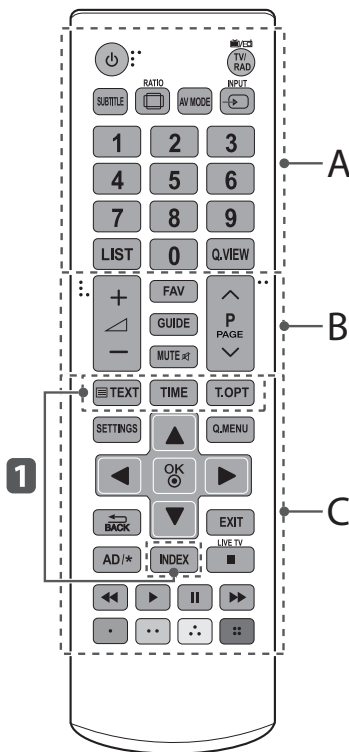
The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully and use the TV correctly.

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.
- The remote control will not be included for all sales market.
- EPG only support in Singapore, Thailand, Vietnam, Kenya and Ghana.

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



## A

- POWER** Turns the TV on or off.
- TV/RAD** Selects Radio, TV and DTV programme.
- SUBTITLE** Recalls your preferred subtitle in digital mode.
- RATIO** Resizes an image.
- AV MODE** Selects an AV mode.
- INPUT** Changes the input source.
- Number buttons** Enters numbers.
- LIST** Accesses the saved programme list.
- Q.VIEW** Returns to the previously viewed programme.

## B

- FAV** Accesses your favourite programme list.
- GUIDE** Shows programme guide.
- MUTE** Mutes all sounds.
- +** Adjusts the volume level.
- P** Scrolls through the saved programmes.
- PAGE** Moves to the previous or next screen.

## C

- Teletext buttons** These buttons are used for teletext.
- SETTINGS** Accesses the main menus.
- Q.MENU** Accesses the Quick menus.
- Navigation buttons (up/down/left/right)** Scrolls through menus or options.
- OK** Selects menus or options and confirms your input.
- BACK** Returns to the previous level.
- EXIT** Clears on-screen displays and returns to TV viewing.
- AD/\*** By pressing the AD button, audio descriptions function will be enabled. (Depending on model)
- Control buttons** Controls the USB menus.
- Coloured buttons** These access special functions in some menus. (Red, Green, Yellow, Blue)

## Licenses

Supported licenses may differ by model.



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This DivX Certified® device has passed rigorous testing to ensure it plays DivX® video.  
To play purchased DivX movies, first register your device at [vod.divx.com](http://vod.divx.com). Find your registration code in the DivX VOD section of your device setup menu.

DivX Certified® to play DivX® video up to HD 1080p, including premium content.

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Covered by one or more of the following U.S. patents:  
7,295,673; 7,460,668; 7,515,710; 7,519,274.

## Open source software notice information

To obtain the source code under GPL, LGPL, MPL, and other open source licenses, that is contained in this product, please visit <http://opensource.lge.com>.

In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.

LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping, and handling) upon email request to [opensource@lge.com](mailto:opensource@lge.com). This offer is valid for three (3) years from the date on which you purchased the product.

## Settings

### 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. The Power indicator turns red and the TV switches to Standby mode.
- 2 In Standby mode, press the power button on the remote control or local key to turn the TV on. The Initial setting screen appears if you turn the TV on for the first time.

#### NOTE

- You can also access **Factory Reset** by accessing **OPTION** in the main menu.

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

#### Menu Language

Selects a language to display.



#### Mode Setting

Selects **Home Use** for the home environment.



#### Power Indicator

Selects Standby Light (on/off).



#### Auto Tuning

Scans and saves available programmes automatically.

#### NOTE

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

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

#### NOTE

- If you do not complete the Initial setting, it will appear whenever the TV turns on.
- Disconnect the power cord from the power outlet when you do not use the TV for a long period of time.

- 5 To turn the TV off, press the power button on the remote control.

## Watching TV

- 1 In Standby mode, press **(POWER)** to turn the TV on.
- 2 Press **INPUT** and select **TV**.
- 3 To turn the TV off, press **(POWER)**. The TV switches to Standby mode.

## Managing programmes

### Automatically setting up programme

Use this to automatically find and store all available programmes.

- 1 Press **SETTINGS** and the Navigation buttons to scroll to **SETUP** and press **OK**.
- 2 Press the Navigation buttons to scroll to **Auto Tuning** and press **OK**.
- 3 Press the Navigation buttons to scroll to **To Start** and select **To Start** to begin auto tuning. The TV scans and saves available programmes automatically.
- 4 Press the Navigation buttons and scroll to **Next (TV)** item, the TV scanning will skip from DTV to ATV ones.
- 5 When you return to the previous menu, press **BACK**.

### Manually setting up programme

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

- 1 Press **SETTINGS** 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 **TV**.
  - Press the Navigation buttons and scroll to **Storage**.
  - Press the Navigation buttons or Number buttons to select the desired programme number.
  - Press the Navigation buttons to scroll to **System**.
  - Press the Navigation buttons to scroll to **TV System**. (DK/M/BG/I)
  - Press the Navigation buttons to scroll to **Band**.
  - Press the Navigation buttons to scroll to **V/UHF** or **Cable**.
  - Press the Navigation buttons to scroll to **Programme**.
  - Press the Navigation buttons and then select the desired Programme number with the Navigation buttons or Number buttons.
  - Press the Navigation buttons to scroll to **Search**.
  - Select "Store" to save these programs after scanning.
- 4 Press the Navigation buttons to scroll to **DTV**.
  - **VHF CH.** : Setting the programme
  - **Frequency (HHZ)** : Setting the Frequency
  - **Bandwidth (MHz)** : Setting the Bandwidth.
  - **Signal Strength / Quality** : The signal strength and quality
  - **Update** : Update new frequency
  - **Add** : To add new programme to programme list.

- 5 When you return to the previous menu, press **BACK**.

### NOTE

- To store another programme, repeat steps 3 to 4.

### Assigning a station name

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

- 1 Press **SETTINGS** 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 **BACK**.

### Editing your programme list

When a programme number is skipped, it means that you will be unable to select it using **^ P v** button during TV viewing.

If you wish to select the skipped programme, directly enter the programme number with the **NUMBER** buttons or select it in the Programme edit menu.

This function enables you to skip the stored programmes.

- 1 Press **SETTINGS** and the Navigation buttons to scroll to **SETUP**.
- 2 Press the Navigation buttons to scroll to **Programme Edit**.
- 3 Edit programmes using the following buttons.

Button	Description
Red button (TV only)	Deletes a programme. Press the Red button. The selected programme is deleted, all the following programmes are shifted up one position.
Yellow button	Select a programme number to be Block / unblock.
Green button	Select a programme number to be skipped. Press the Green button again to release the skipped programme.
Blue button (TV only)	Moves a programme. Press the Blue button again to release this function.
Blue button (DTV only)	Selects a programme number to be Programme Number Edit. Press the Blue button again to release this function.

- 4 When you return to the previous menu, press **BACK**.

## Selecting a programme on the programme list

- 1 Press **LIST** to access the programme list.
- 2 Press the Navigation buttons to select to desired programme and press **OK**.

### ! NOTE

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

## Using additional options

### Adjusting aspect ratio

Resize an image to view at its optimal size by pressing **Q.MENU** or accessing Aspect Ratio in the **PICTURE** menu.

### ! NOTE

- The available ratio varies depending on the input source.
- **16:9** : Resizes images to fit the screen width.



- **Just Scan** : Displays video images in the original size without removing parts of the edge of the image. (This function works in Component/HDMI (720p / 1080i / 1080p) Mode.)



### ! 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 broadcasted.

(4:3 → 4:3)

(16:9 → 16:9)



- **4:3** : Resizes images to the previous standard 4:3.



- **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 moved to the up and down.



- **Zoom** : Formats an image to fit the screen width. The top and bottom of the image may not appear.



### ! NOTE

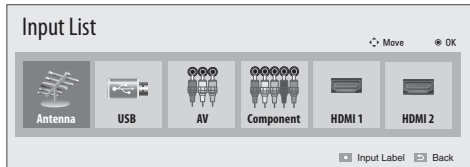
- If you enlarge or reduce an image, the image may be distorted.

## Using the input list

### Selecting an input source

- 1 Press **INPUT** to access the input sources.
  - The connected device displays on each input source.
- 2 Press the Navigation buttons or input button to scroll to one of the input sources and press **OK**.

\* Image shown may differ from your TV.



Input source	Description
<b>Antenna</b>	Watch TV over the air and cable broadcast.
<b>USB</b>	Watch photo, music, movie files in USB device.
<b>AV</b>	Watch video from a VCR or other external devices.
<b>Component</b>	Select it when using the DVD or the Digital set-top box depends on connector.
<b>HDMI 1/2</b>	Watch video from a HTS or other high definition devices.

## USB

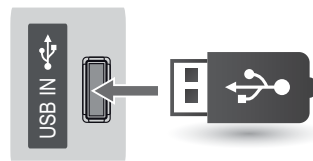
(Depending on model)

\* Image shown may differ from your TV.

### Connecting USB storage devices

Connect USB storage devices (USB memory) to the TV and use multimedia features (See "" on page 18).

Connect a USB flash memory or USB memory card reader to the TV as shown on the following illustration.



To disconnect a USB storage device, make sure to end the connection properly to prevent damages to the TV or files.

- 1 Press **Q.MENU** to access the quick menus.
- 2 Press the Navigation buttons to scroll to **Eject** and press **OK**.
- 3 Disconnect the USB storage device only when the message says that it is safe to remove.

### 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 manoeuvred 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, photo files or movie files.
- Please use only a USB storage device which was formatted as a FAT32 file system.
- 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.
- 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 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.
- 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. But they may not work properly in the movie list.
- Maximum of 198 folders or files can be recognized under one folder.
- If there are a lot of folders or files all within one folder, the device may not be able to access these properly.
- It is recommended that you use devices with a rated voltage of less than 5 V and a rated current of less than 0.5A.

## Using the USB

This TV allows you to enjoy movie, music and photo files stored on a USB device connected to the USB port.

### Terminology

The TV can control and play content from a USB device.

#### Notes:

- Do not insert/remove a USB device while in use.
- MENU is not available during playback.

### Media Player Specifications

#### Device

USB device:

Interface version: USB2.0 HS

USB Mass Storage Class devices (MSC)

#### Notes:

- Connectivity is not guaranteed for all devices.
- Incorrect behaviour may occur with a USB hub connection.
- The Auto Format function is not available.
- The aspect ratio may not be correct in some cases.

### Supported file system

- FAT32

You must obtain any required permission from copyright owners to download or use copyrighted content. LG cannot and does not grant such permission.

### Basic operation

You will be asked if you want to start the Media Player whenever a USB device is inserted.

### Using USB

You must manually start the Media Player from the menu.

- ➊ Insert a USB device into the USB terminal on the left side of the TV.
- ➋ A confirmation message will appear. Highlight Yes, and then press **OK**.
- ➌ Press **▲** or **▼** to select Photo, Movie or Music and then press **OK**. The list window will appear. Multi View will appear.

### Manual Start

- ➊ Insert a USB device into the USB terminal on the left side of the TV.
- ➋ From the USB menu, highlight Photo list, and then press **OK**.
- ➌ Press **or** to select Photo list, Music list or Movie list and press **OK**. The list window will appear. Multi View will appear.

### To select a file in the Multi View:

- ➊ Press **▲** or **▼** to select a file or folder.
- ➋ Select a file and press **OK** to start playback. Select a folder and press **OK** to move to the next layer.

To return to the previous layer, press **BACK**.

### To close the USB

Press **EXIT**.

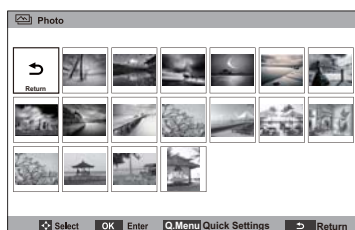
## Viewing Photo Files

### To view in Single View mode

There are three types of viewing modes.

### Multi View

This view allows you to search for photos in a grid format. The pictures are displayed using thumbnail data in each image file.



The initial highlighted position will be on the top left thumbnail in the Multi View.

- ❶ Press **▲** or **▼** to select a photo or folder. **P▲** or **P▼** buttons can be used to page up/down the Multi View when there are more photos than will fit onto one screen.
- ❷ When you select a folder, press **OK** to move to the next layer. Press **BACK** to move back to the previous layer.
- ❸ Press **OK** to view the selected photo in Single View mode.

### Single View

In this mode, only files located in the selected directory will be displayed. This view allows you to change the photo content manually. When moving from Multi View to Single View, the currently selected photo will be displayed.

- ❶ Press **▶** to view the next photo. Press **◀** to view the previous photo.
- ❷ Press **▲** to rotate the image 90° counterclockwise.
- ❸ Press **▼** to rotate the image 90° clockwise.

### Slide Show

This view allows you to watch a slide show of your photos. In this mode, only files located in the selected directory will be played.

- ❶ To start slideshow, press **OK** in the Single View mode.
- ❷ Press **◀** or **▶** to view the previous/next photo.

### To set Interval Time setting:

- ❶ Press **[Q.MENU]** to open the QUICK MENU.
- ❷ Press **▲** or **▼** to select Interval Time.
- ❸ Press **◀** or **▶** to select 3sec, 5sec, 10sec, 15sec, 30sec, 60sec, or 90sec.

### Viewing photo files and playing music files at the same time

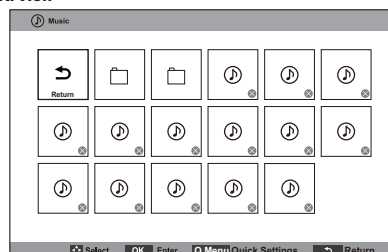
While viewing photo files, you can listen to music from a list of available files.

- ❶ While viewing photos in the Single View or Slide Show mode, press the **Q.MENU** button to open the QUICK MENU.
- ❷ Highlight Background Music and press the **OK** button. The music list appears.
- ❸ Select a music file and press the **OK** button to start playback.
- ❹ Press **BACK** to move back to photo view mode. The music is now playing in the background.

## Playing Music files

You can listen to music from a Multi View of available files.

### Multi View



- ❶ Press **P▲** or **P▼** to select a file, folder or page up/down the Multi View when there are more files than will fit onto one screen.
- ❷ When you select a folder, press **OK** to move to the next layer. Press **BACK** to move back to the previous layer.
- ❸ With the desired file selected, press **OK** or **▶** (play) to start playback.

### Notes:

Depending on the file size, it may take some time for playback to begin. During playback, you can adjust the sound preferences from the Q.MENU.

### To set the repeat mode:

- ❶ Press **[Q.MENU]** to open the QUICK MENU.
- ❷ Press **▲** or **▼** to select Repeat.
- ❸ Press **◀** or **▶** to select Off, All or 1.

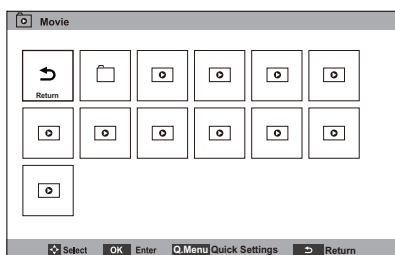
Mode	Description
Off	Files in the same folder are played back once.
All	Files in the same folder are repeatedly played back.
1	The same file is repeatedly played back.

- ❹ Press **BACK**.

## Viewing Movie files

You can select movies from a Multi View of available files.

### Multi View



- ❶ Press ▲ or ▼ to select a file or folder. P^ or P^ buttons can be used to page up/down the Multi View when there are more files than will fit onto one screen.
- ❷ When you select a folder, press OK to move to the next layer. Press BACK to move back to the previous layer.
- ❸ With the desired file selected, press OK to start playback.
- ❹ Press ■ to stop playback.

#### Note:

If playback finishes before ■ is pressed, the screen will return to the Multi View.

#### During playback:

- Press ■ to pause.  
PAUSE may not be available depending on the contents.
- To resume normal playback, press ► (play).
- To play in fast reverse or fast forward directions, press ◀◀ or ▶▶ during playback. Each time you press the ◀◀ or ▶▶, the playback speed will change.

#### Notes:

- The information may not be correctly displayed depending on the contents.
- The playback speed (◀◀ / ▶▶) may not change depending on the contents.

#### Setting the repeat mode

- ❶ Press Q.MENU to open the QUICK MENU.
- ❷ Press ▲ or ▼ to select Repeat.
- ❸ Press ◀ or ▶ to select Off, All or 1.

Mode	Description
Off	The file is played back only once.
All	Files in the same folder are repeatedly played back.
1	The same file is repeatedly played back.

- ❹ Press BACK.

### Tips for using playing video files

- Some user-created subtitles may not work properly.
- Some special characters are not supported in subtitles.
- HTML tags are not supported in subtitles.
- Subtitles in languages other than the supported languages are not available.
- Changing font and colour in subtitles is not supported.
- Subtitles in languages other than one specified are not supported.
- Video files with subtitle files if too larger may not be played properly.
- The screen may suffer temporary interruptions (image stoppage, faster playback, etc.) when the audio language is changed.
- A damaged movie file may not be played correctly, or some player functions may not be usable.
- Movie files produced with some encoders may not be played correctly.
- If the video and audio structure of recorded file is not interleaved, either video or audio is outputted.
- Videos with resolutions higher than 1920 X 1080 @ 25/30P or 1280 x 720 @ 50/60P may not work properly depending on the frame.
- Movie files other than the specified types and formats may not work properly.
- Max bit rate of playable movie file is 20 Mbps. (only, Motion JPEG : 10 Mbps)
- We do not guarantee smooth playback of profiles encoded level 4.1 or higher in H.264/AVC.
- DTS Audio codec is not supported.
- A movie file with large size file is not supported for playback. The file size limit is dependent on the encoding environment.
- A DivX movie file and its subtitle file must be located in the same folder.
- A video file name and its subtitle file name must be identical for it to be displayed.
- Playing a video via a USB connection that doesn't support high speed may not work properly.
- Files encoded with GMC (Global Motion Compensation) and Qpel (Quarterpel Motion Estimation) may not be played.
- Trick Mode does not support other functions than if video files do not have index information.
- Video file names that contain special characters may not be playable.



Support Subtitle formats			
	*Maximum data transfer rate: 20Mbps		
External supported subtitle formats			Remark
	.srt	SubRip	
	.smi	SAMI	
	.SUB	SubViewer	SubViewer1.0 & 2.0 only
		MicroDVD	
		DVDsubtitleSystem	
		SubIdx(Vobsub)	
	.ass/.ssa	SubStation Alpha	
	.txt	Tmplayer	
Internal supported subtitle formats			
	.AVI/.DIVX	XSUB generated from DixX6	

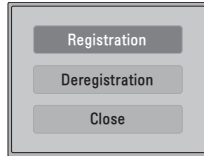
Support Video formats				
	*Maximun:1920x1080@30p (only Motion JPEG 640x480@30p)			
	Container	File extension	Video codec	Remark
video	ASF	.asf .wmv	VC-1 (WMV3,WVC1)	
audio		.asf .wmv .wma	Window Media Audio Standard	Support WMA7,8,9 Standard
video	AVI	.avi .divx	MPEG2	
			MPEG4 Part2	
			DivX3.11	
			DivX4	
			DivX5	
			DivX6	
			XviD	
			H.264/AVC	
audio			HE-AAC	
			LPCM	
			ADPCM	
			Dolby Digital	same as AC3
			MP3	
video	TS	.ts .trp .tp	H.264/AVC	
			MPEG2	
audio			MP3	
			Dolby Digital	same as AC3
			AAC	
			HE-AAC	
video	PS	.vob	MPEG1	
			MPEG2	
audio			Dolby Digital	same as AC3
			DVD LPCM	
video	MP4	.mp4	MPEG4 Part2	
	MOV	.mov	XVID	
			H.264/AVC	
audio	MP4	.mp4	AAC	
		.mov	MP3	

video	MKV	.mkv	MPEG2	
			MPEG4 Part2	
			H.264/AVC	
audio			HE-AAC	
			Dolby Digital	same as AC3
			MP3	
			LPCM	
video	PS	.mpg .mpeg	MPEG1	
			MPEG2	
audio			Dolby Digital	same as AC3
			LPCM	
video	dat	dat	MPEG1	
audio			MP2	
video	FLV	.flv	Sorenson H.263	
			H.264/AVC	
audio			MP3	
			AAC	
video	RM	.rm .rmvb	RV30	
			RV40	
audio			AAC	
			HE-AAC	
			cook: COOK (RealAudio6)	

Support Audio formats				
File type	Bit rate	Sample freq.	Audio codec	Remark
mp3	32Kbps - 320Kbps	16kHz - 48kHz	MPEG1 Layer3 MPEG2 Layer3 MPEG2.5 Layer3	

Support Photo formats					
Category		Available file type		Photo size	Remark
2D	jpeg	SOF0	Baseline	Minimum: 64 x 64	
		SOF1	Extend Sequential	Maximum: Normal Type: 15360(W) x 8640(H)	
		SOF2	Progressive	Progressive Type: 1024(W) x 768(H)	

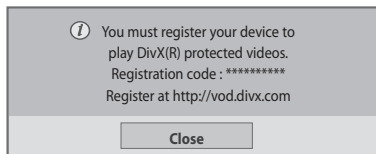
## DivX® VOD Guide



### DivX® VOD Registration

In order to play purchased or rented DivX® VOD contents, you should register your device with 10 digit DivX registration code from your device at [www.divx.com/vod](http://www.divx.com/vod).

- 1 Press **SETTINGS** 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 **DivX(R) VOD** and press **OK**.
- 4 Press the Navigation buttons to scroll to **Registration** and press **OK**.
- 5 View the registration code of your TV.



- 6 When you are finished, press **EXIT**. When you return to the previous menu, press **BACK**.

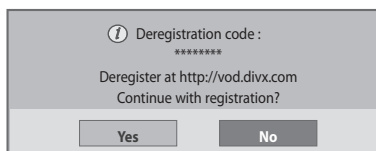
### DivX® VOD Deregistration

You should deregister your device with 10 digit DivX deregistration code from your device at [www.divx.com/vod](http://www.divx.com/vod).

#### NOTE

- Once the deregistration is executed, you must register your device again to see DivX® VOD contents.

- 1 Press **SETTINGS** 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 **DivX(R) VOD** and press **OK**.
- 4 Press the Navigation buttons to scroll to **Deregistration** and press **OK**.
- 5 Press the Navigation buttons to select **Yes** to confirm.











- 6 When you are finished, press **EXIT**. When you return to the previous menu, press **BACK**.

## Customizing TV setting

\* Image shown may differ from your TV.

### Accessing main menus

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

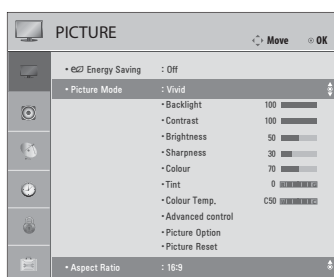
Menu	Description
 <b>PICTURE</b>	Adjusts the image size, quality, or effect.
 <b>AUDIO</b>	Adjusts the sound quality, effect, or volume level.
 <b>SETUP</b>	Sets up and edit programmes.
 <b>TIME</b>	Sets the time, date, or timer feature.
 <b>OPTION</b>	Customizes the general settings.
 <b>LOCK</b>	Locks or unlocks programmes.
 <b>INPUT</b>	Views the input sources with their labels.
 <b>USB</b>	Displays photo and play music, movie.

## Customizing settings

### PICTURE settings

- 1 Press **SETTINGS** and the Navigation buttons to scroll to **PICTURE**.
- 2 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- 3 When you return to the previous menu, press **BACK**.

\* Image shown may differ from your TV.



The available picture settings are described in the following.

Setting	Description
Energy Saving	Reduces the power consumption by adjusting the screen brightness.
	<b>Option</b>
	<b>Off</b> The <b>Energy Saving</b> is off
	<b>Minimum/Medium/Maximum</b> Selects the brightness level.
	<b>Screen off</b> The screen turns off in 3 seconds.
	<b>NOTE</b> <ul style="list-style-type: none"> <li>When you select <b>Screen Off</b>, the screen will be turned off in 3 seconds and <b>Screen Off</b> will start.</li> <li>If you adjust "<b>Energy Saving- Maximum</b>", Backlight feature will not work.</li> </ul>
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.
	<b>Mode</b>
	<b>Vivid</b> Adjusts the video image for the retail environment by enhancing the contrast, brightness, colour, and sharpness.
	<b>Standard</b> Adjusts the image for the normal environment.
	<b>APS</b> The Energy Save feature changes settings on the TV to reduce power consumption
	<b>Cinema</b> Optimizes the video images for a cinematic look to enjoy movies as if you are in a movie theatre.
	<b>Soccer</b> Optimizes the video image for high and dynamic actions by emphasizing primary colours such as white, grass, or sky blue.
	<b>Game</b> Optimizes the video image for a fast gaming screen such as PCs or games.
Aspect Ratio	Changes the image size to view images at its optimal size. (See p. 16)

#### Basic image options

Setting	Description
<b>Backlight</b>	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.
<b>Contrast</b>	Increases or decreases the gradient of the video signal. You may use <b>Contrast</b> when the bright part of the picture is saturated.
<b>Brightness</b>	Adjusts the base level of the signal in the picture.
<b>Sharpness</b>	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.
<b>Colour</b>	Adjusts intensity of all colours.
<b>Tint</b>	Adjusts the balance between red and green levels.
<b>Colour Temperature</b>	Adjusts the overall tone of the screen as desired. Set to warm to enhance hotter colours such as red, or set to cool to see less intense colours with more blue.
<b>Advanced Control</b>	Customizes the advanced options.
<b>Picture option</b>	Customizes the picture options.
<b>Picture Reset</b>	Restores the options of each mode to the factory default.

#### Picture options

Setting	Description
<b>Noise Reduction</b>	Reduces screen noise without compromising video quality.
<b>MPEG Noise Reduction</b>	Eliminate noise generated while creating digital picture signals.
<b>Black Level</b>	Set black level of the screen to proper level. This function is available in the following modes : RF , AV , HDMI , Component Low: The reflection of the screen gets darker. High: The reflection of the screen gets brighter. Auto: The reflection of the the screen gets optimal.
<b>Real Cinema</b>	Makes video clips recorded in film look more natural.

#### Advanced image options (Depending on model)

Setting	Description
<b>Dynamic Contrast</b>	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.
<b>Dynamic Colour</b>	Adjusts screen colours so that they look livelier, richer and clearer. This feature enhances hue, saturation and luminance so that red, blue and green white look more vivid.
<b>Skin Colour</b>	Sets Skin colour spectrum separately to implement the skin colour as defined by the user.
<b>Sky Colour</b>	Sky colour is set separately.
<b>Grass Colour</b>	Natural colour spectrum (meadows , hills , etc.) can be separately set.
<b>Gamma</b>	You can adjust brightness of dark area and middle gray level area of the picture. Low: Make the dark and middle gray level areas brighter. Medium: Express the original picture level. High: Make the dark and middle gray level area darker.

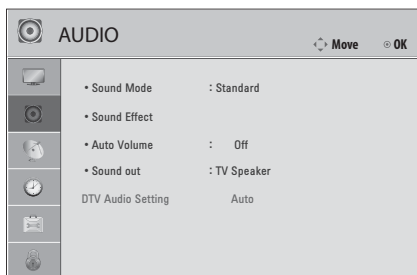
#### ! NOTE

- Depending on input signal or other picture settings, the range of detailed items for adjustment may differ.

## AUDIO settings

- 1 Press **SETTINGS** and the Navigation buttons to scroll to **AUDIO**.
- 2 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- 3 When you return to the previous menu, press **BACK**.

\* Image shown may differ from your TV.



The available audio settings are described in the following.

Setting	Description
<b>Sound Mode</b>	Selects one of the preset sound modes or customizes options in each mode.
	<b>Mode</b>
	<b>Standard</b> Select when you want standard-quality sound.
	<b>Music</b> Select when you listen to music. (Bollywood is india special music mode)
	<b>Cinema</b> Select when you watch movies.
	<b>Soccer</b> Select when you watch sports events.
<b>Sound Effect</b>	<b>Game</b> Select when you play games.
	<b>Bass</b> Controls the softer sounds in the output. When you turn up the bass, it will increase the output to the lower frequency range.
	<b>Treble</b> Controls the dominant sounds in the output. When you turn up the treble, it will increase the output to the higher frequency range.
	<b>Balance</b> Adjust balance between the left and right speakers according to your room environment.
	<b>Reset</b> Resets the sound mode to the default setting.

Setting	Description
<b>Auto Volume</b>	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.
<b>Sound out</b>	TV speaker Sound is output through the TV speaker.
	TV Headphone Sound is output through the headphone connected to the earphone / headphone port.
<b>DTV Auto Setting</b>	AUTO HE-ACC / DOLBY DIGITAL / MPEG
	HE-AAC Select to HE-AAC format
	DOLBY DIGITAL Select to the Dolby Digital
	MPEG Select to MPEG

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.

Press **Q.Menu** to select Audio menu.

Press **I/II** button to select the **Multi Audio** menu.

Broadcast	On Screen Display
<b>Mono</b>	MONO
<b>Stereo</b>	STEREO
<b>Dual</b>	DUAL I , DUAL II , DUAL I + II
<b>NICAM</b>	NICAM

#### • 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

If 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

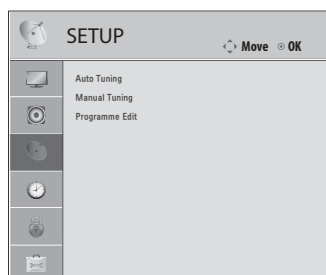
If the TV is equipped with a receiver for NICAM reception, high quality NICAM (Near Instantaneous Companding Audio Multiplex) digital sound can be received.

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

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

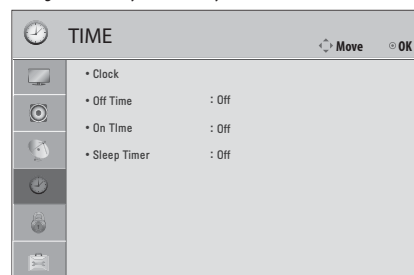
### SETUP settings

- 1 Press **SETTINGS** and the Navigation buttons to scroll to **SETUP**.
  - 2 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
  - 3 When you return to the previous menu, press **BACK**.
- \* Image shown may differ from your TV.



### TIME settings

- 1 Press **SETTINGS** and the Navigation buttons to scroll to **TIME**.
  - 2 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
  - 3 When you return to the previous menu, press **BACK**.
- \* Image shown may differ from your TV.

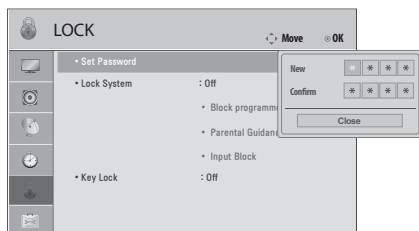


The available time settings are described in the following.

Setting	Description
<b>Clock</b>	Sets the time.
<b>Off Time / On Time</b>	<p>Sets the time to turn on or off the TV automatically. To use this function, you should set the current time and date in advance.</p> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li>If you do not press any button within 2 hours after the TV turns on by the <b>On Time</b> feature, the TV enters the Standby mode automatically.</li> <li>If you set both <b>Off Time</b> and <b>On Time</b> features to the same time, the <b>Off Time</b> feature overrides the <b>On Time</b> feature.</li> </ul>
<b>Sleep Timer</b>	Sets the length of time until the TV to turns off. When you turn the TV off and turn it on again, the <b>Sleep Timer</b> feature will be set to off.

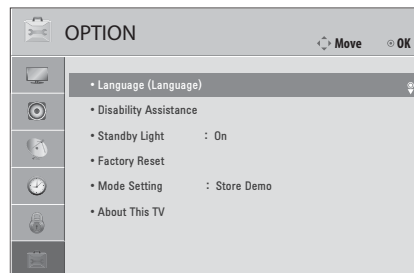
## LOCK settings

- 1 Press **SETTINGS** and the Navigation buttons to scroll to **LOCK**.
  - 2 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
  - 3 When you return to the previous menu, press **BACK**.
- \* Image shown may differ from your TV.



## OPTION settings

- 1 Press **SETTINGS** and the Navigation buttons to scroll to **OPTION**.
  - 2 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
  - 3 When you return to the previous menu, press **BACK**.
- \* Image shown may differ from your TV.



The available lock settings are described in the following.

Setting	Description
<b>Set Password</b>	Sets or change the TV password. The initial password is set '0000'.
<b>Lock System</b>	Activates or deactivates the lock system.
	On/Off Lock the settings of Lock System.
	Block Programme To set locked special programme
	Parental Guidance Setting viewable age
	Input Block Opened or closed input source : AV, Component, HDMI1, HDMI2
<b>Key Lock</b>	The operation of TV side controls will be locked except power key.

The available option settings are described in the following.

Setting	Description
<b>Language</b>	Selects a desired language.
<b>Disability Assistance</b>	Hard of Hearing ON: Hard of Hearing Subtitle is selected (Close caption) automatically. OFF: function disabled.
	Audio Description ON: AD is also provided as Audio in addition to the basic program, which includes the AD. (Second audio program) OFF: Only provides basic Audio. (Main audio program)
	Volume: 0~15 0: Same as Basic Audio Volume of AD Stream. + 15: larger than the default Audio Volume of AD Stream. - 15: it becomes AD volume Mute status.
<b>Standby light</b>	ON Power LED is "ON" to indicate the TV at Standby condition.
	OFF No indication, Power LED is "OFF" while the Standby condition.



Setting	Description	
<b>Factory Reset</b>	Customizes the TV settings to suit your preference. The initial setup screen will appear when you turn on the TV for the first time.	
<b>Mode Setting</b>	Selecting the Standard or Store Demo environment. Choose the setting mode you want.	
	<b>Home Use</b>	Selects it for the Home environment.
	<b>Store Demo</b>	Selects it for the retail environment.
<b>About This TV</b>	LGE Open Source Software Notice	

## Troubleshooting

Cannot control the TV with the remote control.

- 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 ( ⊕ to ⊕, ⊖ to ⊖ ).

No image display and no sound is produced.

- 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.

- Check the power control settings. The power supply may be interrupted.
- Check if the **Automatic Standby** (Depending on model) / **Sleep Timer** / **Off Time** 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.

When connecting to the PC (HDMI), 'No signal' or 'Invalid Format' is displayed.

- Turn the TV off/on using the remote control.
- Reconnect the HDMI cable.
- Restart the PC with the TV on.

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## Specifications

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 (Depending on Country)
Television system	PAL-B/G/D/K, PAL-I, NTSC-M DVB-T/T2
Programme coverage	V/UHF : 1-69 Cable : 1-47
Maximum number of storable programmes	130
External antenna impedance	75 Ω

### HDMI Input (DTV)

No	Resolution	H-freq.(kHz)	V-freq.(Hz)
1	640*480p	31.47	59.94
2	640*480p	31.5	60.00
3	720*480p	31.47	59.94
4	720*480p	31.50	60.00
5	1280*720p	44.96	59.94
6	1280*720p	45.00	60.00
7	720(1440)*480i	15.73	59.94
8	720(1440)*480i	15.75	60.00
9	720*576p	31.25	50.00
10	1280*720p	37.5	50.00
11	720(1440)*576i	15.63	50.00
12	1920*1080i	28.125	50.00
13	1920*1080i	33.72	59.94
14	1920*1080i	33.75	60.00
15	1920*1080p	26.97	23.976
16	1920*1080p	27.00	24.00
17	1920*1080p	33.716	29.97
18	1920*1080p	33.75	30.00
19	1920*1080p	56.25	50.00
20	1920*1080p	67.432	59.94
21	1920*1080p	67.50	60.00

### HDMI Input (PC)

No	Resolution	H-freq.(kHz)	V-freq.(Hz)
1	720*400	31.469	70.08
2	640*480	31.469	59.940
3	800*600	37.879	60.310
4	1024*768	48.363	60.000
5	1360*768	47.712	60.015

### Component port connecting information

Component ports on the TV	Y	P <sub>B</sub>	P <sub>R</sub>
Video output ports on DVD player	Y	P <sub>B</sub>	P <sub>R</sub>
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	Pb	Pr

Signal	Component
480i / 576i	O
480p / 576p	O
720p / 1080i	O
1080p	O (Only 50 Hz / 60 Hz)

### Component input (Y, CB/PB, CR/PR)

No	Resolution	H-freq.(kHz)	V-freq.(Hz)
1	720*480i	15.73	60.00
2	720*480p	31.50	60.00
3	720(1440)*576i	15.63	50.00
4	720*576p	31.25	50.00
5	1280*720p	37.50	50.00
6	1280*720p	45.00	60.00
7	1920*1080i	28.13	50.00
8	1920*1080i	33.75	60.00
9	1920*1080p	56.25	50.00
10	1920*1080p	67.50	60.00

(Only Jordan)

WEEE



Disposal of your appliance

The symbol indicating separate collection for electrical and electronic equipment consists of the crossed-out wheeled bin.



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(الأردن فقط)

WEEE

التخلص من الجهاز الخاص بك.

الرمز الذي يشير إلى مجموعة منفصلة من المعدات الإلكترونية والكهربائية هو عبارة عن صندوق قمامة بعجلات ومشطوب.





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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 \_\_\_\_\_

HDA71D3210I B