



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.

LY75**

LY76**

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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.

LICENSES



Supported licenses may differ by model. For more information about licenses, visit www.lg.com.



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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. This offer is valid for three (3) years from the date on which you purchased 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.

ASSEMBLING AND PREPARING

Unpacking

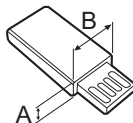
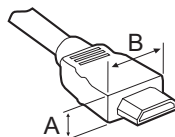
Check your product box for the following items. If there are any missing accessories, contact the local dealer where you purchased your product. The illustrations in this manual may differ from the actual product and item.

**CAUTION**

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

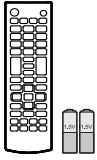
**NOTE**

- 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 FLASH DRIVE does not fit into your TV's USB port.

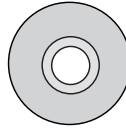


*A ≦ 10 mm

*B ≦ 18 mm



**Remote control,
Batteries (AAA)**



Owner's manual



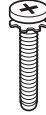
Cable Holder
(Depending on model)



Power cord
(Depending on model)



Stand Screws
4EA, M4 x L14
(Except for
32LY76**, 32LY75**)



Stand Screws
4EA, M4 x L20
(Only
32LY76**, 32LY75**)



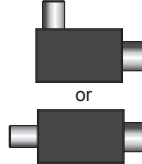
Cable Managements
2EA



Wall mount spacers
2EA
(Only
42LY76**, 42LY75**)



Stand Base



Isolator
(Depending on model)

Separate Purchase

Separate purchase items can be changed or modified for quality improvement without any notification. Contact your dealer to buy these items. These devices only work with certain models.

LG Audio Device

Magic Remote

AN-MR300 (Only LY75**)

AN-MR500 (Only LY76**)

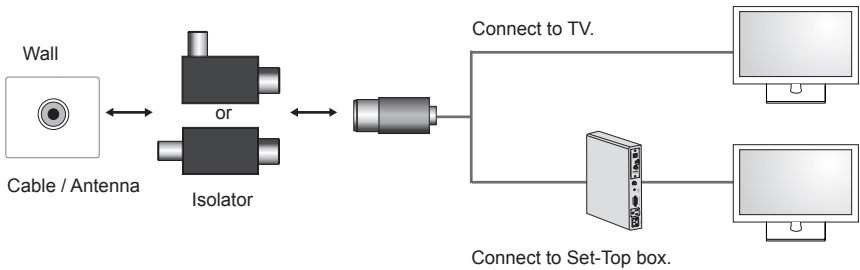
LED Clock

LEC-003

The model name or design may be changed depending on the upgrade of product functions, manufacturer's circumstances or policies.

**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.

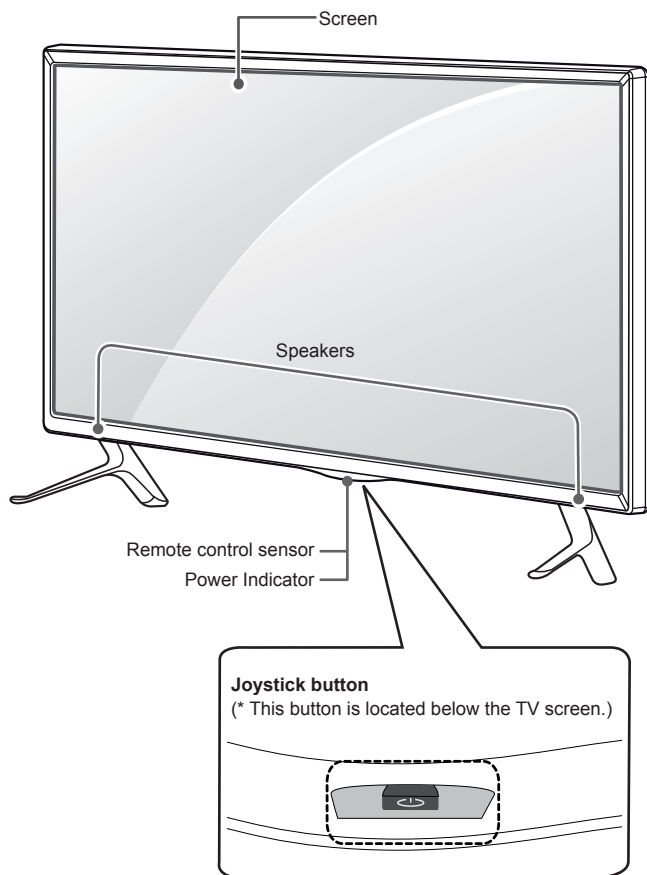


Connect one end of the isolator to cable/antenna jack and the other to TV set or set-top box.

“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 Button



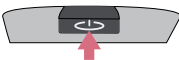



NOTE

- You can set the power indicator light to on or off by selecting **OPTION** in the main menus.

Using the Joystick Button

You can simply operate the TV functions, pressing or moving the joystick button up, down, left or right.

Basic Functions

| | | |
|---|---------------------------|--|
|  | Power On | When the TV is turned off, place your finger on the joystick button and press it once and release it. |
|  | Power Off | When the TV is turned on, place your finger on the joystick button and press it once for a few seconds and release it. |
|  | Volume Control | If you place your finger over the joystick button and move it left or right, you can adjust the volume level you want. |
|  | Programmes Control | If you place your finger over the joystick button and move it up or down, you can scrolls through the saved programmes you want. |



NOTE

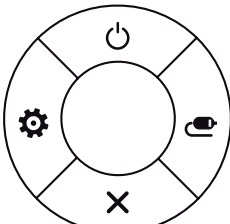




- When your finger over the joystick button and push it to the up, down, left or right, be careful not to press the joystick button. If you press the joystick button first, you can not adjust the volume level and saved channels.

Adjusting the Menu

(Only LY76**)

When the TV is turned on, press the joystick button one time.

You can adjust the Menu items (⏻, ⚙️, 📺, ✖️) moving the joystick button up, down, left or right.

| | | | |
|---|---|-------------------|---|
|  |  | TV Off | Turn the power off. |
| |  | Settings | Accesses the main menu. |
| |  | Input List | Changes the input source. |
| |  | Close | Clears on-screen displays and return to TV viewing. |

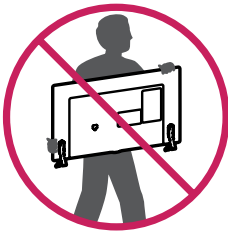
Lifting and Moving the TV

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

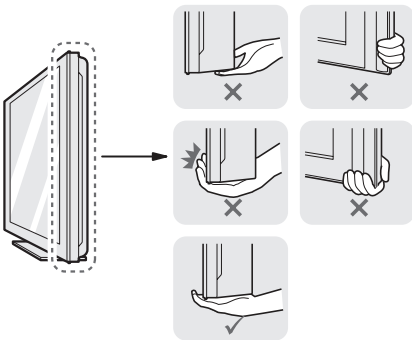


CAUTION

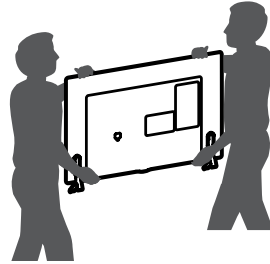
- Avoid touching the screen at all times, as this may result in damage to the screen.
- It is recommended to move the TV in the box or packing material that the TV originally came in.
- Before moving or lifting the TV, disconnect the power cord and all cables.
- When holding the TV, the screen should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



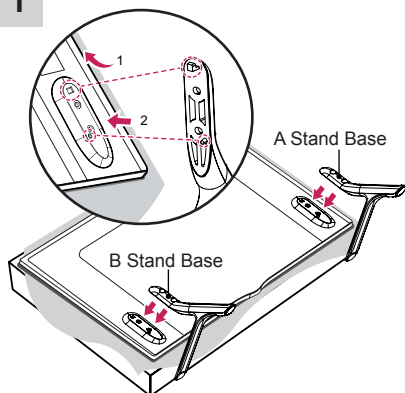
- When transporting the TV, do not expose the TV to jolts or excessive vibration.
- When transporting the TV, keep the TV upright, never turn the TV on its side or tilt towards the left or right.
- Do not apply excessive pressure to cause flexing /bending of frame chassis as it may damage screen.

Setting up the TV

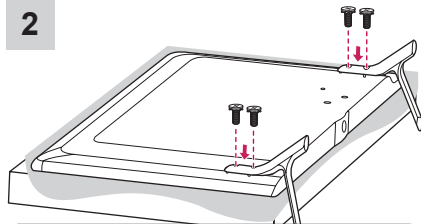
Attaching the Stand

* Image shown may differ from your TV.

1



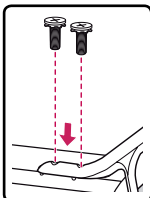
2



4EA

M4 x L14
(Except for
32LY76**, 32LY75**)

M4 x L20
(Only
32LY76**, 32LY75**)



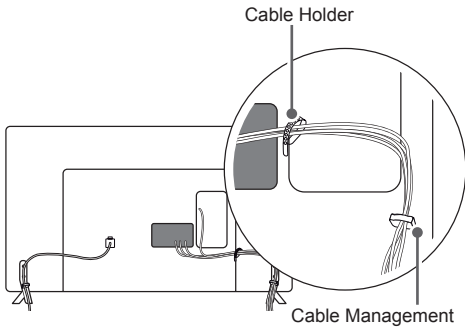
CAUTION

- When attaching the stand to the TV, place the screen facing down on a cushioned table or flat surface to protect the screen from scratches.

Tidying Cables

* Image shown may differ from your TV.

- 1 Gather and bind the cables with the Cable Holder and the Cable Managements.
- 2 Fix the Cable Managements firmly to the TV.

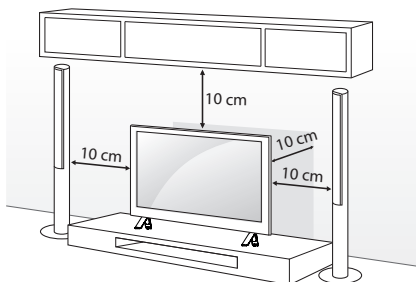


CAUTION

- 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.

Mounting on a Table

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



- Connect the power cord to a wall outlet.



CAUTION

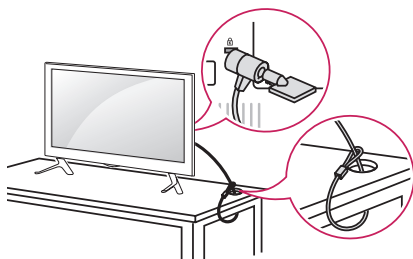
- Do not place the TV near or on sources of heat, as this may result in fire or other damage.

Using the Kensington security system

(This feature is not available for all models.)

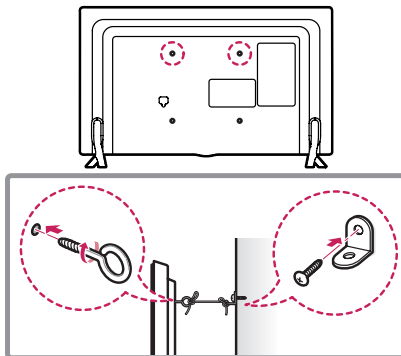
The Kensington security system connector is located at the rear of the TV. For more information of installation and using, refer to the manual provided with the Kensington security system or visit <http://www.kensington.com>.

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



Securing the TV to a Wall

(This feature is not available for all models.)



- 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.
- 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.
- 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

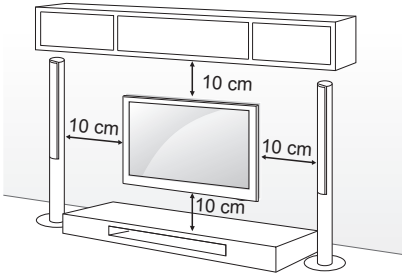
- Use a platform or cabinet that is strong and large enough to support the TV securely.
- Brackets, bolts and ropes are not provided. You can obtain additional accessories from your local dealer.

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 that you use an LG brand wall mount.

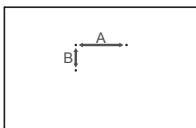
When you do not use LG's wall mount bracket, please use a wall mount bracket where the device is adequately secured to the wall with enough space to allow connectivity to external devices.



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 | 32/39LY76** 32/39LY75** | 42/47/55LY76** 42/47/55LY75** |
| VESA (A x B) | 200 x 200 | 400 x 400 |
| Standard screw | M6 | M6 |
| Number of screws | 4 | 4 |
| Wall mount bracket | LSW240B MSW240 | LSW440B MSW240 |



CAUTION

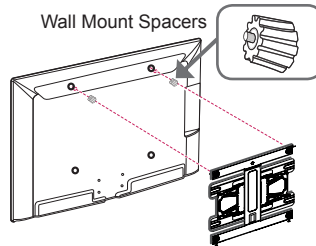
- Disconnect the power first, and then move or install the TV. Otherwise electric shock may occur.
- If you install the TV on a ceiling or slanted wall, it may fall and result in severe injury. Use an authorized LG wall mount and contact the local dealer or qualified personnel.
- Do not over tighten 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 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.
- When attaching a wall mounting bracket to the TV, insert the wall mount spacers into the TV wall mount holes to adjust the vertical angle of the TV. (Only 42LY76**, 42LY75**)

Wall Mount Spacers



MAKING CONNECTIONS

- * Image shown may differ from your TV.
- * Any separate cable is not provided.

This section on **MAKING CONNECTIONS** mainly uses diagrams for the LY75** models. Connect various external devices to the TV and switch input modes to select an external device. For more information on external device's connection, refer to the manual provided with each device.

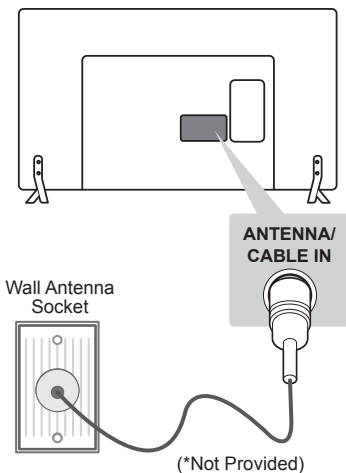
Available external devices are: HD receivers, DVD players, VCRs, audio systems, USB storage devices, PC, gaming devices, and other external devices.

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 on 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.
- In PC mode, there may be noise associated with the resolution, vertical pattern, contrast or brightness. If noise is present, change the PC output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the PICTURE menu until the picture is clear.
- In PC mode, some resolution settings may not work properly depending on the graphics card.
- Only a USB storage device is recognizable.
- If the USB storage device is connected through a USB hub, the device is not recognizable.

Antenna Connection

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



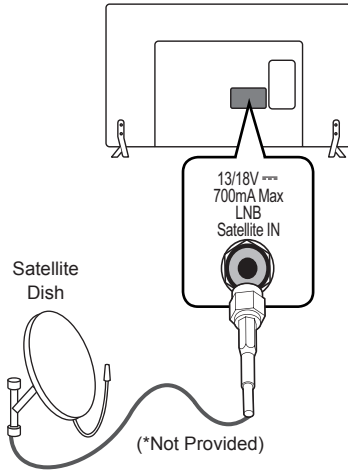
NOTE

- 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.
- Supported DTV Audio: MPEG, Dolby Digital, Dolby Digital Plus, HE-AAC

Satellite Dish Connection

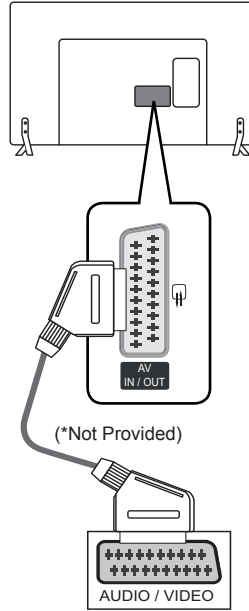
(Only satellite models)

Connect the TV to a satellite dish to a satellite socket with a satellite RF cable (75 Ω).



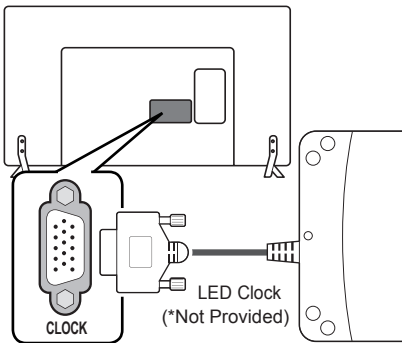
Euro Scart Connection

Transmits the video and audio signals from an external device to the TV set. Connect the external device and the TV set with the euro scart cable as shown.



LED Clock Connection

This TV can be connected to a LED Clock via the **CLOCK** port.



| Current input mode \ Output Type | AV1 (TV Out ¹) |
|----------------------------------|----------------------------|
| Digital TV | Digital TV |
| Analogue TV, AV | Analogue TV |
| Component | |
| HDMI | |

¹ TV Out : Outputs Analogue TV or Digital TV signals.

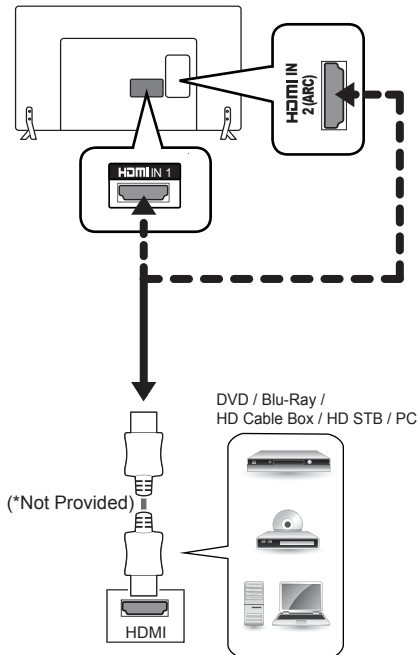
NOTE

- Any Euro scart cable used must be signal shielded.

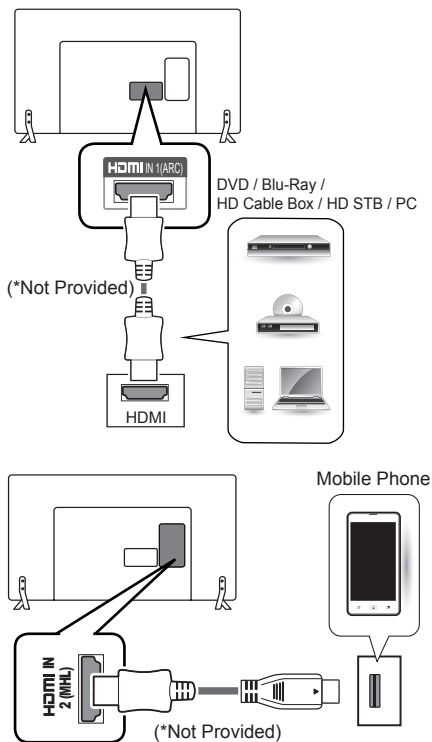
HDMI Connection

Transmits the digital video and audio signals from your PC to the TV. Connect the PC and the TV with the HDMI cable as shown. Choose any HDMI input port to connect. It does not matter which port you use.

(Only LY75**)



(Only LY76**)



NOTE

- It is recommended to use the TV with the HDMI connection for the best image quality.
- Use the latest High Speed HDMI™ Cable with CEC (Customer Electronics Control) function.
- High Speed HDMI™ Cables are tested to carry an HD signal up to 1080p and higher.
- Supported HDMI Audio format : Dolby Digital, PCM (Up to 192 kHz, 32 kHz/ 44.1 kHz/48 kHz/88 kHz/96 kHz/ 176 kHz/192 kHz)
» DTS not supported.

ARC (Audio Return Channel)

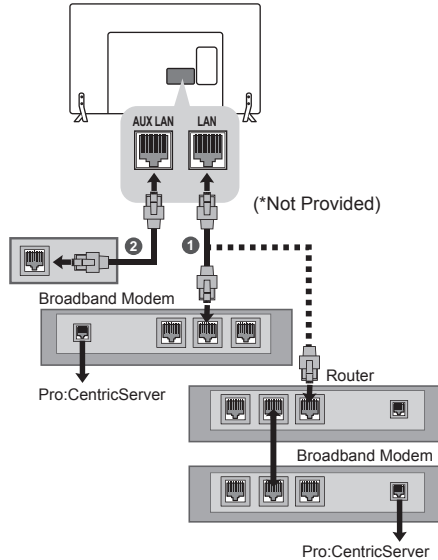
- An external audio device that supports SIMPLINK and ARC must be connected using **HDMI IN (ARC)** port.
- When connected with a high-speed HDMI cable, the external audio device that supports ARC outputs optical SPDIF without additional optical audio cable and supports the SIMPLINK function.

Network Setup

Wired Network Connection

This TV can be connected to a Pro:Centric server via the **LAN** port. After making the physical connection, the TV needs to be set up for network communication.

Connect the LAN port of the Modem or Router from Pro:Centric server to the **LAN** port on the TV.



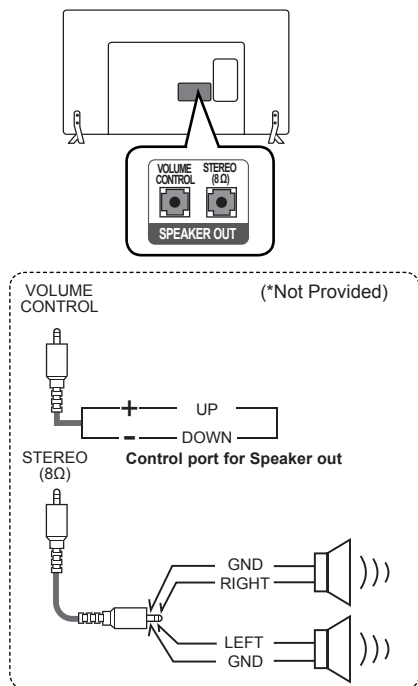
- | | |
|----------|--|
| 1 | Connect the LAN port of the Modem or Router to the LAN port on the TV. |
| 2 | Connect the LAN port of the PC to the AUX LAN port on the TV. |

CAUTION

- Do not connect a modular phone cable to the **LAN** port.
- Since there are various connection methods, please follow the specifications of your telecommunication carrier or internet service provider.

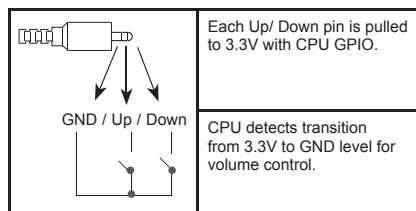
Speaker Output Setup

Connect the external speaker to the SPEAKER OUT jack on the TV.



Method of Volume control port

*Cable Spec.

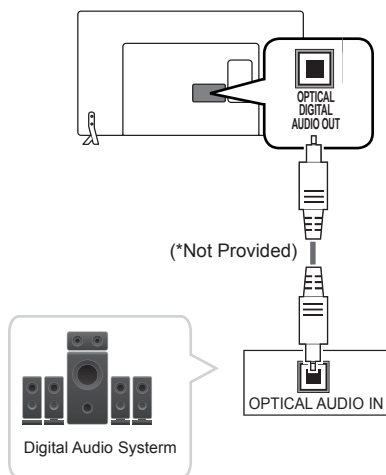


Audio Connection

You may use an optional external audio system instead of the built-in speaker.

Digital Optical Audio Connection

Transmits a digital audio signal from the TV to an external device. Connect the external device and the TV with the optical audio cable as shown.

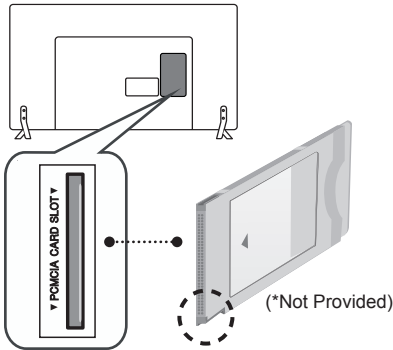


NOTE

- Do not look into the optical output port. Looking at the laser beam may damage your vision.
- Audio with ACP (Audio Copy Protection) function may block digital audio output.

CI Module Connection

View the encrypted (pay) services in digital TV mode. This feature is not available in all countries.

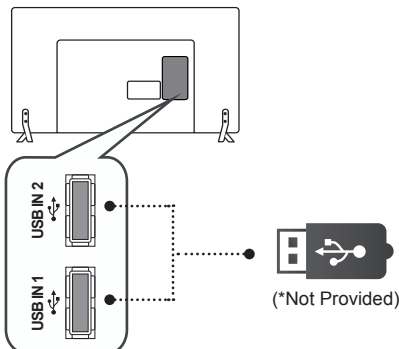


NOTE

- Check if the CI module is inserted into the PCMCIA card slot in the right direction. If the module is not inserted properly, this can cause damage to the TV and the PCMCIA card slot.

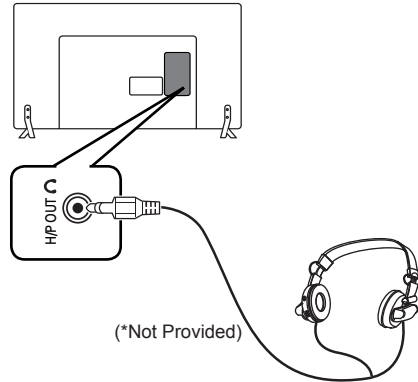
USB Connection

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 My media menu to use various multimedia files.



Headphone Connection

Transmits the headphone signal from the TV to an external device. Connect the external device and the TV with the headphone as shown.



NOTE

- **AUDIO** menu items are disabled when connecting a headphone.
- When changing **AV MODE** with a headphone connected, the change is applied to video but not to audio.
- Optical Digital Audio Out is not available when connecting a headphone.
- Headphone impedance: 16 Ω
- Max audio output of headphone: 9mW to 15 mW
- Headphone jack size: 0.35 cm

REMOTE CONTROL

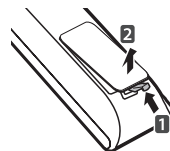
This item is not included for all models.

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

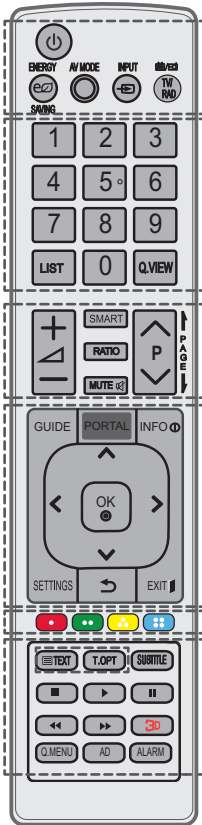
- Do not mix old and new batteries, as this may damage the remote control.

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

(Only LY75**)

| | |
|----------------------|--|
| | (POWER) Turns the TV on or off. |
| | ENERGY SAVING Adjusts the brightness of the screen to reduce energy consumption. |
| | AV MODE Selects an AV mode. |
| | INPUT Changes the input source. |
| | TV/RAD Selects Radio, TV and DTV programme. |
| 1 2 3 | Number buttons Enters numbers. |
| 4 5 6 | LIST Accesses the saved programme list. |
| 7 8 9 | Q.VIEW Returns to the previously viewed programme. |
| LIST 0 Q.VIEW | |
| | + / - Adjusts the volume level. |
| | FAV Accesses your favourite programme list. |
| | RATIO Resizes an image. |
| | MUTE Mutes all sounds. |
| | ^ P v Scrolls through the saved programmes or channels. |
| | ↑ PAGE ↓ Moves to the previous or next screen. |
| | GUIDE Shows programme guide. |
| | PORTAL Displays and removes hotel interactive menu. |
| | INFO Views the information of the current programme and screen. |
| | Navigation buttons (up/down/left/right) Scrolls through menus or options. |
| | OK Selects menus or options and confirms your input. |
| | SETTINGS Selects a menu. |
| | ↶ Returns to the previous level. |
| | EXIT Clears on-screen displays and return to TV viewing. |
| | Coloured buttons These access special functions in some menus. |
| | Teletext buttons (TEXT/T.OPT) These buttons are used for teletext. |
| | SUBTITLE Recalls your preferred subtitle in digital mode. |
| | Control buttons Controls the MY MEDIA menus, or the SIMPLINK compatible devices (USB, SIMPLINK). |
| | SIMPLINK Accesses the AV devices connected with the HDMI cable through HDMI-CEC. Opens the SIMPLINK menu. |
| | Q.MENU Accesses the Quick menus. |
| | AD By Pressing AD button, audio descriptions function will be enabled. |
| | ALARM Sets the alarm function. |

(Only LY76**)



- ⏻ (POWER)** Turns the TV on or off.
 - ⚡ ENERGY SAVING** Adjusts the brightness of the screen to reduce energy consumption.
 - AV MODE** Selects an AV mode.
 - INPUT** Changes the input source.
 - TV/RAD** Selects Radio, TV and DTV programme.
-
- Number buttons** Enters numbers.
 - LIST** Accesses the saved programme list.
 - Q.VIEW** Returns to the previously viewed programme.
-
- + / -** Adjusts the volume level.
 - SMART** Accesses the Smart Home menus.
 - RATIO** Resizes an image.
 - MUTE** Mutes all sounds.
 - ^ P v** Scrolls through the saved programmes or channels.
 - ↑ PAGE ↓** Moves to the previous or next screen.
-
- GUIDE** Shows programme guide.
 - PORTAL** Displays and removes hotel interactive menu.
 - INFO ⓘ** Views the information of the current programme and screen.
 - Navigation buttons (up/down/left/right)** Scrolls through menus or options.
 - OK** Selects menus or options and confirms your input.
 - SETTINGS** Selects a menu.
 - ↶** Returns to the previous level.
 - EXIT** Clears on-screen displays and return to TV viewing.
-
- Coloured buttons** These access special functions in some menus.
-
- Teletext buttons (TEXT/T.OPT)** These buttons are used for teletext.
 - SUBTITLE** Recalls your preferred subtitle in digital mode.
 - Control buttons (■, ▶, ||, ◀, ►)** Controls the MY MEDIA menus, or the SIMPLINK compatible devices (USB, SIMPLINK).
 - 3D** Used for viewing 3D video.
 - Q.MENU** Accesses the Quick menus.
 - AD** By Pressing AD button, audio descriptions function will be enabled.
 - ALARM** Sets the alarm function.

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

The software version can be updated for improvement in performance. Customer needs to ensure the compatibility of customer's equipment with LGE software. If needed, please consult with LGE and upload revised software version according to the guidance provided by LGE.

| 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 (⊕ to ⊕, ⊖ to ⊖). |
| 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 Automatic Standby (Depending on model) / Sleep Timer / Time Power Off is activated in the TIME settings. |
| When connecting to the PC (RGB/HDMI DVI), 'No signal' or 'Invalid Format' is displayed. | <ul style="list-style-type: none"> • Turn the TV off/on using the remote control. • Reconnect the RGB/HDMI DVI cable. • Restart the PC with the TV on. |

SPECIFICATIONS

Product specifications may be changed without prior notice due to upgrade of product functions.

| MODELS | | 32LY76** | 39LY76** | 42LY76** |
|---------------------------|--------------------|--------------------------|-------------------|-------------------|
| | | 32LY760H-ZA | 39LY760H-ZA | 42LY760H-ZA |
| Dimensions (W x H x D) | With stand (mm) | 732 x 481 x 207 | 885 x 567 x 218 | 961 x 612 x 218 |
| | Without stand (mm) | 732 x 431 x 55.5 | 885 x 524 x 55.5 | 961 x 567 x 55.5 |
| Weight | With stand (kg) | 6.2 | 8.3 | 9.5 |
| | Without stand (kg) | 6.0 | 8.0 | 9.2 |
| Power requirement | | AC 100-240 V~ 50 / 60 Hz | | |
| Power consumption | | 75 W | 100 W | 110 W |
| MODELS | | 47LY76** | 55LY76** | 32LY75** |
| | | 47LY760H-ZA | 55LY760H-ZA | 32LY750H-ZA |
| Dimensions (W x H x D) | With stand (mm) | 1073 x 676 x 247 | 1243 x 772 x 247 | 732 x 481 x 207 |
| | Without stand (mm) | 1073 x 629 x 55.8 | 1243 x 725 x 56.8 | 732 x 431 x 55.5 |
| Weight | With stand (kg) | 12.7 | 18.4 | 6.2 |
| | Without stand (kg) | 12.3 | 18.0 | 6.0 |
| Power requirement | | AC 100-240 V~ 50 / 60 Hz | | |
| Power consumption | | 120 W | 140 W | 75 W |
| MODELS | | 39LY75** | 42LY75** | 47LY75** |
| | | 39LY750H-ZA | 42LY750H-ZA | 47LY750H-ZA |
| Dimensions (W x H x D) | With stand (mm) | 885 x 567 x 218 | 961 x 612 x 218 | 1073 x 676 x 247 |
| | Without stand (mm) | 885 x 524 x 55.5 | 961 x 567 x 55.5 | 1073 x 629 x 55.8 |
| Weight | With stand (kg) | 8.3 | 9.5 | 12.7 |
| | Without stand (kg) | 8.0 | 9.2 | 12.3 |
| Power requirement | | AC 100-240 V~ 50 / 60 Hz | | |
| Power consumption | | 100 W | 110 W | 120 W |
| MODELS | | 55LY75** | | |
| | | 55LY750H-ZA | | |
| Dimensions (W x H x D) | With stand (mm) | 1243 x 772 x 247 | | |
| | Without stand (mm) | 1243 x 725 x 56.8 | | |
| Weight | With stand (kg) | 18.4 | | |
| | Without stand (kg) | 18.0 | | |
| Power requirement | | AC 100-240 V~ 50 / 60 Hz | | |
| Power consumption | | 140 W | | |

| | | |
|-------------------------------|-----------------------|-----------------------------|
| CI Module Size (W x H x D) | | 100.0 mm x 55.0 mm x 5.0 mm |
| 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 % |

| | | | |
|---------------------------------------|-----------------------------------|----------------|---|
| | Satellite Digital TV ¹ | Digital TV | Analogue TV |
| Television system | DVB-T/T2 DVB-C DVB-S/S2 | DVB-T DVB-C | PAL/SECAM B/G/D/K, PAL I/I', SECAM L/L ² |
| Programme coverage | VHF, UHF C-Band, Ku-Band | VHF, UHF | VHF: E2 to E12, UHF : E21 to E69, CATV: S1 to S20, HYPER: S21 to S47 |
| Maximum number of storable programmes | 6,000 | 1,500 | |
| External antenna impedance | 75 Ω | | |

¹ Satellite and DVB-T2 support models

² Except for DVB-T2 support models


(Only LY76**)

| Wireless module(LGSBW41) Specifications | | | |
|---|---|--------------------|-----------------------|
| Wireless LAN module | | Bluetooth module | |
| Standard | IEEE 802.11a/b/g/n | Standard | Bluetooth Version 3.0 |
| Frequency range | 2400 to 2483.5 MHz 5150 to 5250 MHz 5725 to 5850 MHz(for Non EU) | Frequency range | 2400 to 2483.5 MHz |
| Output power(Max.) | 802.11a: 13 dBm 802.11b: 15 dBm 802.11g: 14 dBm 802.11n - 2.4GHz: 16 dBm 802.11n - 5GHz: 16 dBm | Output power(Max.) | 10 dBm or Lower |

- Because band channel used by the country could be different, the user can not change or adjust the operating frequency and this product is set for the regional frequency table.
- This device should be installed and operated with minimum distance 20 cm between the device and your body. And this phrase is for the general statement for consideration of user environment.

CE 0197 

(Only LY75**)

| Wireless LAN module(TWFM-B006D) specification | |
|--|---|
| Standard | IEEE802.11a/b/g/n |
| Frequency Range | 2400 to 2483.5 MHz 5150 to 5250 MHz 5725 to 5850 MHz (for Non EU) |
| Output Power (Max.) | 802.11a: 11 dBm 802.11b: 14 dBm 802.11g: 10.5 dBm 802.11n - 2.4GHz: 11 dBm 802.11n - 5GHz: 12.5 dBm |
| <ul style="list-style-type: none"> • Because band channel used by the country could be different, the user can not change or adjust the operating frequency and this product is set for the regional frequency table. • This device should be installed and operated with minimum distance 20 cm between the device and your body. And this phrase is for the general statement for consideration of user environment. | |
|  | |

HDMI/DVI-DTV Supported Mode




| Resolution | Horizontal Frequency (kHz) | Vertical Frequency (Hz) |
|-------------|----------------------------|-------------------------|
| 720 x 480 | 31.469 | 59.94 |
| | 31.5 | 60 |
| 720 x 576 | 31.25 | 50 |
| | 15.625 | |
| 1280 x 720 | 37.5 | 50 |
| | 44.96 | 59.94 |
| | 45 | 60 |
| 1920 x 1080 | 33.72 | 59.94 |
| | 33.75 | 60 |
| | 28.125 | 50 |
| | 26.97 | 23.97 |
| | 27 | 24 |
| | 33.716 | 29.976 |
| | 33.75 | 30.00 |
| | 56.25 | 50 |
| | 67.43 | 59.94 |
| 67.5 | 60 | |

HDMI/DVI-PC Supported Mode

| Resolution | Horizontal Frequency (kHz) | Vertical Frequency (Hz) |
|--------------------------|----------------------------|-------------------------|
| 640 x 350 | 31.468 | 70.09 |
| 720 x 400 | 31.469 | 70.08 |
| 640 x 480 | 31.469 | 59.94 |
| 800 x 600 | 37.879 | 60.31 |
| 1024 x 768 | 48.363 | 60.00 |
| 1152 x 864 | 54.348 | 60.053 |
| 1280 x 1024 | 63.981 | 60.020 |
| 1360 x 768 | 47.712 | 60.015 |
| 1920 x 1080 (HDMI-PC) | 67.5 | 60.00 |

IR CODES

*This feature is not available for all models.

| Code (Hexa) | Function | Note |
|-------------|---|--------------------------------------|
| 08 |  (POWER) | Remote control Button (Power On/Off) |
| 95 | ENERGY SAVING | Remote control Button |
| 30 | AV MODE | Remote control Button |
| 0B | INPUT | Remote control Button |
| 79 | RATIO | Remote control Button |
| F0 | TV/RAD | Remote control Button |
| 10-19 | Number Key 0-9 | Remote control Button |
| 53 | LIST | Remote control Button |
| 1A | Q.VIEW | Remote control Button |
| 02 |  + | Remote control Button |
| 03 |  - | Remote control Button |
| 1E | FAV | Remote control Button |
| 09 | MUTE | Remote control Button |
| 00 | P ^ / PAGE ^ | Remote control Button |
| 01 | P v / PAGE v | Remote control Button |
| AB | GUIDE | Remote control Button |
| 0C | PORTAL | Remote control Button |
| AA | INFO | Remote control Button |
| 45 | Q.MENU | Remote control Button |
| 40 | ^ | Remote control Button |
| 41 | v | Remote control Button |
| 07 | < | Remote control Button |
| 06 | > | Remote control Button |
| 44 | OK | Remote control Button |
| 43 | HOME | Remote control Button |
| 28 |  (BACK) | Remote control Button |
| 5B | EXIT | Remote control Button |
| 72 | RED | Remote control Button |
| 71 | GREEN | Remote control Button |
| 63 | YELLOW | Remote control Button |
| 61 | BLUE | Remote control Button |
| 20 | TEXT | Remote control Button |
| 21 | T.OPT(T.Option) | Remote control Button |
| B1 | ■ | Remote control Button |
| B0 | ▶ | Remote control Button |
| BA | ▬ | Remote control Button |
| 8E | ▶▶ | Remote control Button |
| 8F | ◀◀ | Remote control Button |
| 45 | Q.MENU | Remote control Button |
| 91 | AD | Remote control Button |
| 7E | SIMPLINK | Remote control Button |
| E8 | ALARM | Remote control Button |
| DC | 3D | Remote control Button |
| 7C | SMART | Remote control Button |

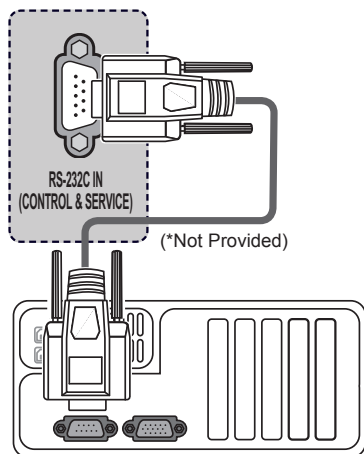
EXTERNAL CONTROL DEVICE SETUP

RS-232C Setup

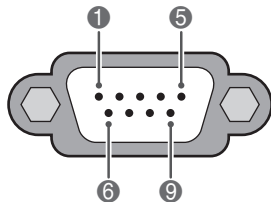
Connect the RS-232C (serial port) input jack to an external control device (such as a computer or an AV control system) to control the product's functions externally.

Connect the serial port of the control device to the RS-232C jack on the product back panel.

*Note: RS-232C connection cables are not supplied with the product.



Type of Connector: D-Sub 9-Pin Male



| No. | Pin name |
|-----|--|
| 1 | 3.5V |
| 2 | RXD (Receive data) |
| 3 | TXD (Transmit data) |
| 4 | IR OUT from TV |
| 5 | GND |
| 6 | No Connection |
| 7 | No Connection (5V available in some models) |
| 8 | No Connection |
| 9 | No Connection (12V available in some models) |

RS-232C Configurations

7-Wire Configurations (Standard RS-232C cable)

| | PC | TV | |
|-----|----|----|-----|
| RXD | 2 | 3 | TXD |
| TXD | 3 | 2 | RXD |
| GND | 5 | 5 | GND |
| DTR | 4 | 6 | DSR |
| DSR | 6 | 4 | DTR |
| RTS | 7 | 8 | CTS |
| CTS | 8 | 7 | RTS |

D-Sub 9 D-Sub 9

3-Wire Configurations (Not standard)

| | PC | TV | |
|-----|----|----|-----|
| RXD | 2 | 3 | TXD |
| TXD | 3 | 2 | RXD |
| GND | 5 | 5 | GND |
| DTR | 4 | 6 | DTR |
| DSR | 6 | 4 | DSR |
| RTS | 7 | 7 | RTS |
| CTS | 8 | 8 | CTS |

D-Sub 9 D-Sub 9

Set ID

Set ID number: "Real Data Mapping".

- 1 Press **SETTINGS** or **HOME** 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 **Set ID** and press **OK**.
- 4 Scroll left or right to select a set ID number and select **Close**. The adjustment range is 1-99.
- 5 When you are finished, press **EXIT**.

Communication Parameters

- Baud rate: 9600 bps (UART)
- Data length: 8 bits
- Parity : None
- Stop bit: 1 bit
- Communication code: ASCII code
- Use a crossed (reverse) cable.

Command Reference List

(Depending on Model)

| | COMMAND1 | COMMAND2 | DATA (Hexadecimal) | | COMMAND1 | COMMAND2 | DATA (Hexadecimal) |
|------------------------------|----------|----------|-----------------------|-------------------------|----------|----------|-----------------------|
| 01. Power | k | a | 00 to 01 | 13. Balance | k | t | 00 to 64 |
| 02. Aspect Ratio | k | c | (See p. 31) | 14. Colour Temperature | x | u | 00 to 64 |
| 03. Screen Mute | k | d | (See p. 31) | 15. Energy Saving | j | q | 00 to 05 |
| 04. Volume Mute | k | e | 00 to 01 | 16. Auto Configuration | j | u | 01 |
| 05. Volume Control | k | f | 00 to 64 | 17. Equalize | j | V | (See p. 33) |
| 06. Contrast | k | g | 00 to 64 | 18. Tune Command | m | a | (See p. 33) |
| 07. Brightness | k | h | 00 to 64 | 19. Programme Add/Skip | m | b | 00 to 01 |
| 08. Colour | k | i | 00 to 64 | 20. Key | m | c | (See p. 33) |
| 09. Tint | k | j | 00 to 64 | 21. Control Back Light | m | g | 00 to 64 |
| 10. Sharpness | k | k | 00 to 32 | 22. Input select (Main) | x | b | (See p. 34) |
| 11. OSD Select | k | l | 00 to 01 | | | | |
| 12. Remote Control Lock Mode | k | m | 00 to 01 | | | | |

* Note : During USB operations such as DivX or EMF, all commands except Power(ka) and Key(mc) are not executed and treated as NG.

Transmission / Receiving Protocol

Transmission

[Command1][Command2][][Set ID][][Data][Cr]

- [Command 1] : First command to control the TV.(j, k, m or x)
 [Command 2] : Second command to control the TV.
 [Set ID] : You can adjust the set ID to choose desired monitor ID number in option menu. Adjustment range is 1 to 99. When selecting Set ID '0', every connected set is controlled. Set ID is indicated as decimal (1 to 99) on menu and as Hexa decimal (0x0 to 0x63) on transmission/receiving protocol.
 [DATA] : To transmit command data. Transmit 'FF' data to read status of command.
 [Cr] : Carriage Return
 ASCII code '0x0D'
 [] : ASCII code 'space (0x20)'

OK Acknowledgement

[Command2][][Set ID][][OK][Data][x]

- * The set transmits ACK (acknowledgement) based on this format when receiving normal data. At this time, if the data is data read mode, it indicates present status data. If the data is data write mode, it returns the data of the PC computer.

Error Acknowledgement

[Command2][][Set ID][][NG][Data][x]

- * The set transmits ACK (acknowledgement) based on this format when receiving abnormal data from non-viable functions or communication errors.

Data 00: Illegal Code

01. Power (Command: k a)

- ▶ To control Power On/Off of the set.

Transmission[k][a][][Set ID][][Data][Cr]

Data 00 : Power Off 01 : Power On

Ack [a][][Set ID][][OK/NG][Data][x]

- ▶ To show Power On/Off.

Transmission [k][a][][Set ID][][FF][Cr]

Ack [a][][Set ID][][OK/NG][Data][x]

* Similarly, if other functions transmit '0xFF' data based on this format, Acknowledgement data feed back presents status about each function.
* OK Ack., Error Ack. and other message may display on the screen when TV is power On.

**02. Aspect Ratio (Command: k c)
(Main Picture Size)**

- ▶ To adjust the screen format. (Main picture format)
You can also adjust the screen format using the Aspect Ratio in the Q.MENU. or PICTURE menu.

Transmission [k][c][][Set ID][][Data][Cr]

Data 01 : Normal screen (4:3) 07 : 14:9
02 : Wide screen (16:9) 09 : Just Scan
03 : Full Wide 10 to 1F : Cinema Zoom 1 to 16
04 : Zoom
06 : Original

Ack [c][][Set ID][][OK/NG][Data][x]

* Using the PC input, you select either 16:9 or 4:3 screen aspect ratio.
* In DTV/HDMI (1080i 50 Hz / 60 Hz, 720p 50Hz / 60 Hz, 1080p 24 Hz / 30 Hz / 50 Hz / 60 Hz), Component(720p, 1080i, 1080p 50 Hz / 60 Hz) mode, Just Scan is available.
* Full Wide is supported only for Digital, Analogue, AV.

03. Screen Mute (Command: k d)

- ▶ To select screen mute on/off.

Transmission [k][d][][Set ID][][Data][Cr]

Data 00 : Screen mute off (Picture on)
Video mute off
01 : Screen mute on (Picture off)
10 : Video mute on

Ack [d][][Set ID][][OK/NG][Data][x]

* In case of video mute on only, TV will display On Screen Display(OSD). But, in case of Screen mute on, TV will not display OSD.

04. Volume Mute (Command: k e)

- ▶ To control volume mute on/off.
You can also adjust mute using the MUTE button on remote control.

Transmission [k][e][][Set ID][][Data][Cr]

Data 00 : Volume mute on (Volume off)
01 : Volume mute off (Volume on)

Ack [e][][Set ID][][OK/NG][Data][x]

05. Volume Control (Command: k f)

- ▶ To adjust volume.
You can also adjust volume with the volume buttons on remote control.

Transmission [k][f][][Set ID][][Data][Cr]

Data Min : 00 to Max : 64
* Refer to 'Real data mapping'. See p. 34.

Ack [f][][Set ID][][OK/NG][Data][x]

06. Contrast (Command: k g)

- ▶ To adjust screen contrast.
You can also adjust contrast in the PICTURE menu.

Transmission [k][g][][Set ID][][Data][Cr]

Data Min : 00 to Max : 64
* Refer to 'Real data mapping'. See p. 34.

Ack [g][][Set ID][][OK/NG][Data][x]

07. Brightness (Command: k h)

- ▶ To adjust screen brightness.
You can also adjust brightness in the PICTURE menu.

Transmission [k][h][][Set ID][][Data][Cr]

Data Min : 00 to Max : 64
* Refer to 'Real data mapping'. See p. 34.

Ack [h][][Set ID][][OK/NG][Data][x]

08. Colour (Command: k i)

- ▶ To adjust the screen colour.
You can also adjust colour in the PICTURE menu.

Transmission [k][i][][Set ID][][Data][Cr]

Data Min : 00 to Max : 64
* Refer to 'Real data mapping'. See p. 34.

Ack [i][][Set ID][][OK/NG][Data][x]

09. Tint (Command: k j)

- ▶ To adjust the screen tint.
You can also adjust tint in the PICTURE menu.

Transmission [k][j][][Set ID][][Data][Cr]

Data Red : 00 to Green : 64

* Refer to 'Real data mapping'. See p. 34.

Ack [j][][Set ID][][OK/NG][Data][x]

10. Sharpness (Command: k k)

- ▶ To adjust the screen sharpness.
You can also adjust sharpness in the PICTURE menu.

Transmission [k][k][][Set ID][][Data][Cr]

Data Min : 00 to Max : 32

* Refer to 'Real data mapping'. See p. 34.

Ack [k][][Set ID][][OK/NG][Data][x]

11. OSD Select (Command: k l)

- ▶ To select OSD (On Screen Display) on/off when controlling remotely.

Transmission [k][l][][Set ID][][Data][Cr]

Data 00 : OSD off 01 : OSD on

Ack [l][][Set ID][][OK/NG][Data][x]

12. Remote control lock mode (Command: k m)

- ▶ To lock the front panel controls on the monitor and remote control.

Transmission [k][m][][Set ID][][Data][Cr]

Data 00 : Lock off 01 : Lock on

Ack [m][][Set ID][][OK/NG][Data][x]

* If you are not using the remote control, use this mode.
When main power is on/off, external control lock is released.

* In the standby mode, if key lock is on, TV will not turn on by power on key of IR & Local Key.

13. Balance (Command: k t)

- ▶ To adjust balance.
You can also adjust balance in the AUDIO menu.

Transmission [k][t][][Set ID][][Data][Cr]

Data Min : 00 to Max : 64

* Refer to 'Real data mapping'. See p. 34.

Ack [t][][Set ID][][OK/NG][Data][x]

14. Colour Temperature (Command: x u)

- ▶ To adjust colour temperature. You can also adjust Colour Temperature in the PICTURE menu.

Transmission [x][u][][Set ID][][Data][Cr]

Data Min : 00 to Max : 64

* Refer to 'Real data mapping'. See p. 34.

Ack [u][][Set ID][][OK/NG][Data][x]

15. Energy Saving (Command: j q)

- ▶ To reduce the power consumption of the TV.
You can also adjust Energy Saving in PICTURE menu.

Transmission [j][q][][Set ID][][Data][Cr]

| Power Saving Function | | | | | Level | | | | Description |
|-----------------------|---|---|---|-----------|-------|---|---|---|-------------|
| 7 | 6 | 5 | 4 | | 3 | 2 | 1 | 0 | |
| 0 | 0 | 0 | 0 | Low Power | 0 | 0 | 0 | 0 | Off |
| 0 | 0 | 0 | 0 | Low Power | 0 | 0 | 0 | 1 | Minimum |
| 0 | 0 | 0 | 0 | Low Power | 0 | 0 | 1 | 0 | Medium |
| 0 | 0 | 0 | 0 | Low Power | 0 | 0 | 1 | 1 | Maximum |
| 0 | 0 | 0 | 0 | Low Power | 0 | 1 | 0 | 1 | Screen Off |
| 0 | 0 | 0 | 0 | Low Power | 0 | 1 | 0 | 0 | Auto |

- ▶ 'Auto' is available in TV that supports 'Intelligent Sensor'

Ack [q][][Set ID][][OK/NG][Data][x]

16. Auto Configure(Command: j u)

(Only RGB support model)

- ▶ To adjust picture position and minimize image shaking automatically. It works only in RGB (PC) mode.

Transmission [j][u][][Set ID][][Data][Cr]

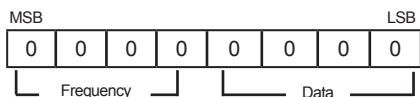
Data 01: To set

Ack [u][][Set ID][][OK/NG][Data][x]

17. Equalize(Command: j v)

- ▶ To adjust equalize.

Transmission [j][v][][Set ID][][Data][Cr]



| 7 | 6 | 5 | Frequency | 4 | 3 | 2 | 1 | 0 | Step |
|---|---|---|-----------|-----|-----|-----|-----|-----|-------------|
| 0 | 0 | 0 | 1'st Band | 0 | 0 | 0 | 0 | 0 | 0(decimal) |
| 0 | 0 | 1 | 2'nd Band | 0 | 0 | 0 | 0 | 1 | 1(decimal) |
| 0 | 1 | 0 | 3'rd Band | ... | ... | ... | ... | ... | ... |
| 0 | 1 | 1 | 4'th Band | 1 | 0 | 0 | 1 | 1 | 19(decimal) |
| 1 | 0 | 0 | 5'th Band | 1 | 0 | 1 | 0 | 0 | 20(decimal) |

Ack [v][][Set ID][][OK/NG][Data][x]

18. Tune Command (Command: m a)

- ▶ Select channel to following physical number.

Transmission [m][a][][Set ID][][Data0][][Data1][][Data2][Cr]

Data00 : High channel data

Data01 : Low channel data

ex. No. 47 -> 00 2F (2FH)
No. 394 -> 01 8A (18AH),
DTV No. 0 -> Don't care

Data02 : [Antena]

0x00 : Analog Main

0x10 : DTV Main

0x20 : Radio

[Cable]

0x80 : Analog Main

0x90 : DTV Main

0xA0 : Radio

Channel data range

Analogue - Min: 00 to Max: 63 (0 to 99)

Digital - Min: 00 to Max: 3E7 (0 to 999)

Ack [a][][Set ID][][OK/NG][Data][x]

Data Min: 00 to Max: 7DH

19. Programme Add/Skip(Command: m b)

- ▶ To set skip status for the current Programme.

Transmission [m][b][][Set ID][][Data][Cr]

Data 00 : Skip 01 : Add

Ack [b][][Set ID][][OK/NG][Data][x]

20. Key(Command: m c)

- ▶ To send IR remote key code.

Transmission [m][c][][Set ID][][Data][Cr]

Data Key code - See p. 27.

Ack [c][][Set ID][][OK/NG][Data][x]

21. Control Back Light(Command: m g)

- ▶ To control the back light.

Transmission [m][g][][Set ID][][Data][Cr]

Data Min : 00 to Max : 64

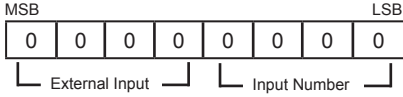
Ack [g][][Set ID][][OK/NG][Data][x]

22. Input select (Command: x b)
(Main Picture Input)

► To select input source for main picture.

Transmission [x][b][][Set ID][][Data][Cr]

Data Structure



| External Input | | | | Data |
|----------------|---|---|---|-----------|
| 0 | 0 | 0 | 0 | DTV |
| 0 | 0 | 0 | 1 | Analogue |
| 0 | 0 | 1 | 0 | AV |
| 0 | 1 | 0 | 0 | Component |
| 0 | 1 | 1 | 0 | RGB |
| 0 | 1 | 1 | 1 | HDMI |
| 1 | 0 | 0 | 0 | |
| 1 | 0 | 0 | 1 | |
| 1 | 0 | 1 | 0 | |

| Input Number | | | | Data |
|--------------|---|---|---|--------|
| 0 | 0 | 0 | 0 | Input1 |
| 0 | 0 | 0 | 1 | Input2 |
| 0 | 0 | 1 | 0 | Input3 |
| 0 | 0 | 1 | 1 | Input4 |

Ack [b][][Set ID][][OK/NG][Data][x]

| | |
|----------------------------|---------------------|
| * Real data mapping | |
| 00: | Step 0 |
| : | |
| A: | Step 10 (Set ID 10) |
| : | |
| F: | Step 15 (Set ID 15) |
| 10: | Step 16 (Set ID 16) |
| : | |
| 64: | Step 100 |
| : | |
| 6E: | Step 110 |
| : | |
| 73: | Step 115 |
| 74: | Step 116 |
| : | |
| CF: | Step 199 |
| : | |
| FE: | Step 254 |
| FF: | Step 255 |



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 _____

