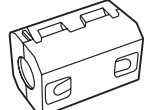
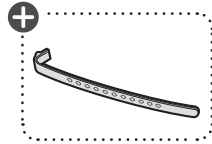
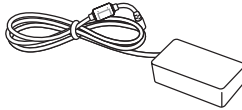
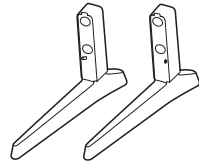
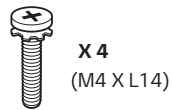
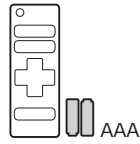
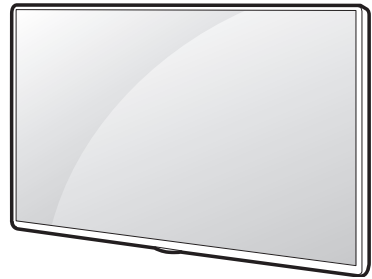




(1712-REV00)



English

•Read **Safety and Reference**.

•For the power supply and power consumption, refer to the label attached to the product.

Deutsch

•Bitte lesen Sie **Sicherheitshinweise und Referenzen!**
•Informationen zur Stromversorgung und zum Stromverbrauch sind dem Etikett auf dem Gerät zu entnehmen.

Français

•Lire le document **Sécurité et référence**
•Reportez-vous à l'étiquette apposée sur le téléviseur pour connaître l'alimentation et la consommation électrique.

Italiano

•Consultare la sezione **Sicurezza e informazioni di riferimento**.
•Per l'alimentazione e il consumo di energia, consultare l'etichetta applicata sul prodotto.

Español

•Leer **Seguridad y Referencias**.

•Para obtener información acerca de la fuente de alimentación y el consumo de energía, consulte la etiqueta del producto.

Português

•Consulte o manual de **Segurança e Referência**.

•No que respeita à fonte de alimentação e ao consumo de energia, consulte a etiqueta mostrada no produto.

Nederlands

•Lees **Veiligheid en referentie** goed door.

•Informatie over de stroomvoorziening en het stroomverbruik vindt u op het label op het product.

Ελληνικά

•Ανάγνωση **Ασφάλεια και Αναφορά**.

•Για πληροφορίες σχετικά με την τροφοδοσία και την κατανάλωση ενέργειας, δείτε την ετικέτα του προϊόντος.

Slovenščina

•Preberite **Varnostne informacije in napotki**.

•Podatke o napajanju in porabi energije si oglejte na nalepki izdelka.

Hrvatski

•Pročitajte **Sigurnost i reference**.

•Informacije o napajanju i potrošnji energije potražite na oznaci koja se nalazi na proizvodu.

Shqip

•Lexo **Siguria dhe referencat**.

•Për ushqimin me energji dhe konsumin e energjisë, shih etiketën e ngjitur në produkt.

Bosanski

•Pročitajte **Sigurnost i upućivanje**.

•Informacije o napajanju električnom energijom i potrošnji električne energije možete pronaći na naljepnici koja se nalazi na proizvodu.

Македонски

•Прочитајте во **Безбедносни информации и референтни материјали**.

•За напојувањето и потрошувачката на енергија, погледнете ја етикетата која е прикачена на производот.

Svenska

•Läs **Säkerhet och referens**.

•För strömförsörjning och strömförbrukning, se etiketten på produkten.

Magyar

•Lásd: **Biztonsági óvintézkedések**.

•A tápellátásra és az áramfogyasztásra vonatkozó adatok a készülékre ragasztott címkén találhatók.

Polski

•Przeczytaj **Zasady bezpieczeństwa i informacje dodatkowe**.

•Dokładne informacje o zasilaniu i zużyciu energii są umieszczone na etykiecie znajdującej się na produkcie.

Česky

•Přečtěte si část **Bezpečnost a reference**.

•Informace o napájení a příkonu naleznete na štítku připevněném k výrobku.

Slovenčina

•Prečítajte si časť **Bezpečnosť a odkazy**.

•Informácie o zdroji napájania a spotrebe elektrickej energie nájdete na štítku pripojenom k zariadeniu.

Română

•Citiți **Siguranță și referințe**.

•Pentru sursa de alimentare și consumul de energie, consultați eticheta atașată pe produs.

Български

•Прочетете **Безопасност и справки**.

•Направете справка с етикета на продукта за електрозахранването и консумацията на енергия.

Eesti

•Lugege jaotist **Ohutus ja viited**.

•Toiteallika ja energiatarbe kohta saate teavet tootele kinnitatud märgiselt.

Lietuvių k.

•Perskaitykite **Saugumas ir nuorodos**.

•Informacijos apie maitinimą ir energijos sąnaudas rasite etiketėje ant gaminio.

Latviešu

•Izlasiet **Drošībai un uzzīņai**.

•Informāciju par elektroenerģijas padevi un patēriņu skatiet izstrādājumam pievienotajā etiķetē.

Srpski

•Pročitajte **Bezbednost i informacije**.

•Da biste saznali informacije u vezi sa napajanjem i potrošnjom energije, pogledajte oznaku na proizvodu.

Norsk

•Les **Sikkerhet og referanse**.

•Hvis du vil ha informasjon om strømforsyning og strømforbruk, kan du se på etiketten som er festet på produktet.

Dansk

•Læs **Sikkerhed og Reference**.

•Du kan få oplysninger om strømforsyning og strømforbrug på mærket, der sidder på produktet.

Suomi

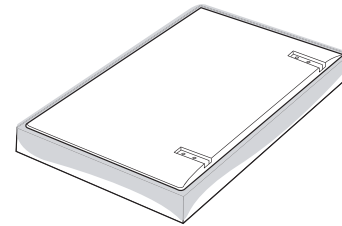
•Lue **Turvatoimet ja viittaukset**.

•Tietoja virtalähteestä ja virrankulutuksesta on laitteeseen kiinnitettyssä tarrassa.

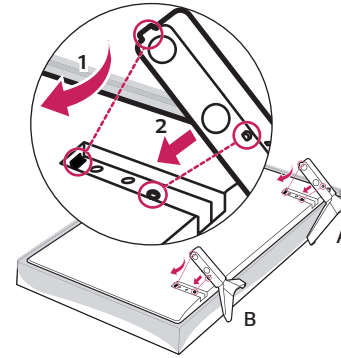
• قراءة الأمان والمراجع.
• لمعرفة المزيد حول مصدر الإمداد بالطاقة المطلوب ومعايير استهلاك الطاقة، راجع الملصق الموجود على المنتج.
العربية



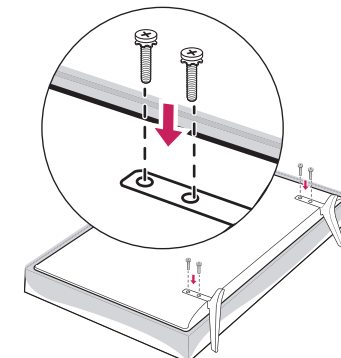
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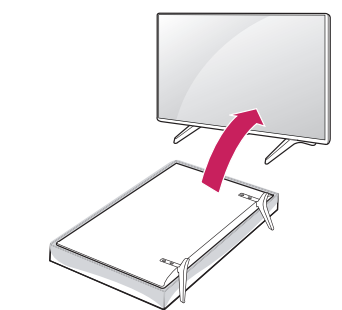
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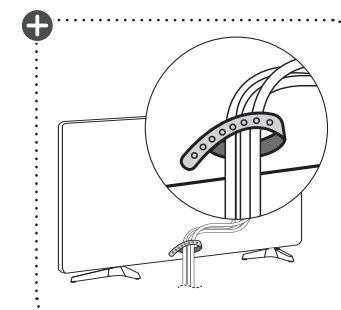
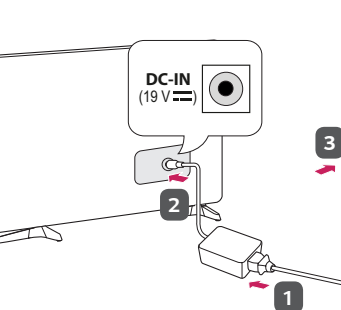
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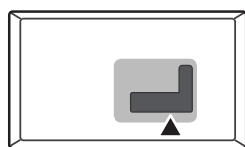
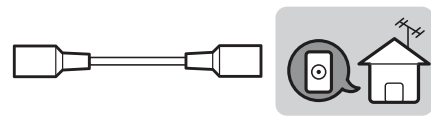
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+ : Depending on model / Abhängig vom Modell / Selon le modèle / In base al modello / En función del modelo / Dependendo do modelo / Afhankelijk van het model / Ανάλογα με το μοντέλο / Odvisno od modela / Típusfüggő / Zależnie od modelu / Závisí na modelu / V závislosti od modelu / În funcție de model / В зависимости от модели / Sõltub mudelist / Priklauso nuo modelio / Atkarībā no modeļa / U zavisnosti od modela / Ovisno o modelu / Në varësi të modelit / Ovisno o modelu / Во зависност од моделот / Beroende på modell / Avhengig av modell / Afhængigt af modellen / Mallin mukaan / حسب الطراز



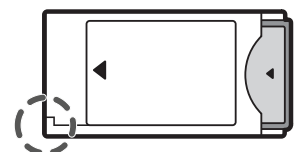
ANTENNA /
CABLE IN



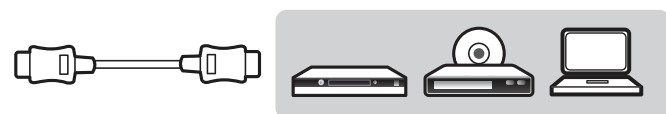
Satellite IN



PCMCIA CARD SLOT



HDMI IN



USB IN



COMPONENT IN



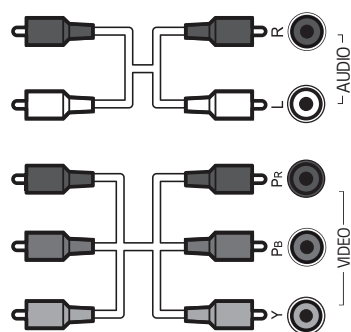
L/MONO AUDIO R



Pb



VIDEO/Y



L AUDIO -

R

Pb VIDEO

Y



AV IN



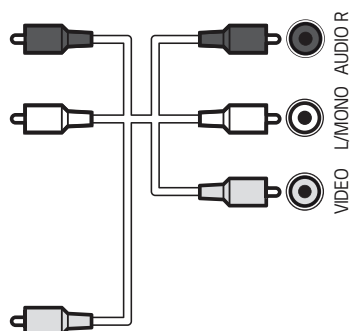
L/MONO AUDIO R



Pb



VIDEO/Y



L AUDIO

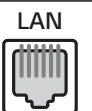
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Pb VIDEO

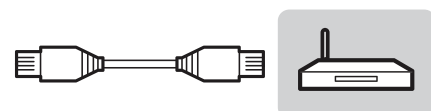
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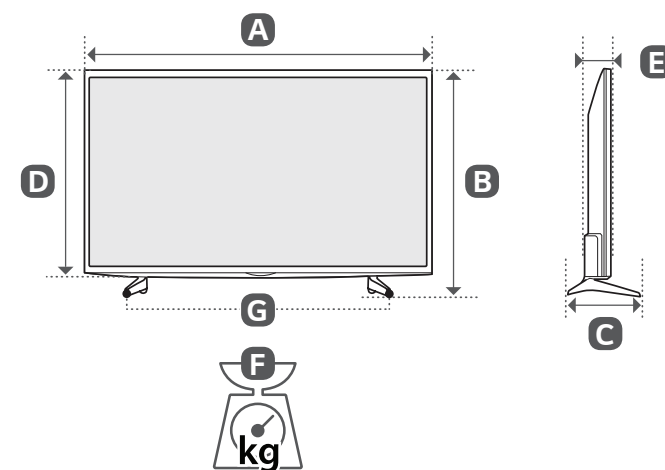
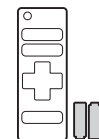
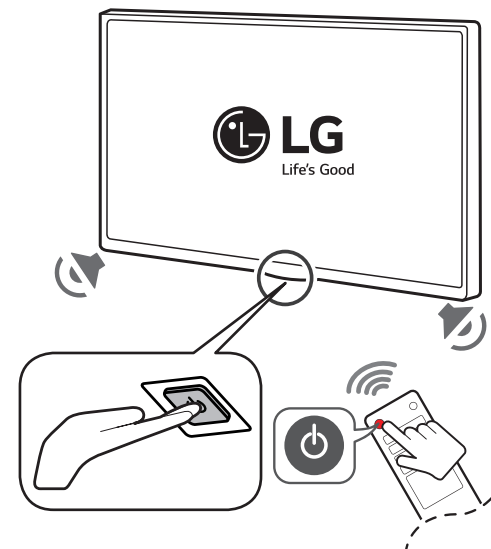
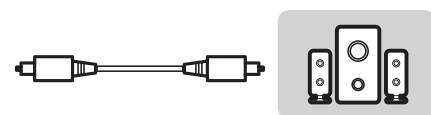
+



LAN



OPTICAL DIGITAL
AUDIO OUT



	A	B	C	D	E	F	F-G
	(mm)					(kg)	
43LK5100PLA 43LK5100PLB	976	628	217.9	583	81.5	8.1	7.8
Power requirement			19 V --- 2.7 A				
49LK5100PLA 49LK5100PLB	1108	702	217.9	657	81.5	10.9	10.6
Power requirement			19 V --- 3.2 A				



OWNER'S MANUAL

Safety and Reference

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.



* M F L 7 0 3 6 2 8 0 3 *

(1801-REV00)

www.lg.com

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Warning! Safety instructions



CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.

 This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

 This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING : TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

- TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER ITEMS WITH OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.
- **Do not place the TV and/or remote control in the following environments:**
 - Keep the product away from 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.
 - Do not expose to dripping or splashing and do not place objects filled with liquids, such as vases, cups, etc. on or over the apparatus (e.g., on shelves above the unit).
 - Near flammable objects such as gasoline or candles, or expose the TV to direct air conditioning.
 - Do not install in excessively dusty places.

Otherwise, this may result in fire, electric shock, combustion/explosion, malfunction or product deformation.

• Ventilation

- Install your TV where there is proper ventilation. Do not install in a confined space such as a bookcase.
- Do not install the product on a carpet or cushion.
- Do not block or cover the product with cloth or other materials while unit is plugged in.
- Take care not to touch the ventilation openings. When watching the TV for a long period, the ventilation openings may become hot.
- 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 device.
- Do not move the TV whilst the Power cord is plugged in.
- Do not use a damaged or loosely fitting power cord.
- Be sure do grasp the plug when unplugging the power cord. Do not pull on the power cord to unplug the TV.
- Do not connect too many devices to the same AC power outlet as this could result in fire or electric shock.
- **Disconnecting the Device from the Main Power**
 - The power plug is the disconnecting device. In case of an emergency, the power plug must remain readily accessible.
- Do not let your children climb or cling onto the TV. Otherwise, the TV may fall over, which may cause serious injury.

• Outdoor Antenna Grounding (Can differ by country):

- If an outdoor antenna is installed, follow the precautions below.

An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits as death or serious injury can occur.

Be sure the antenna system is grounded to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code (NEC) in the U.S.A. provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.

Antenna grounding according to the National Electrical Code, ANSI/NFPA 70

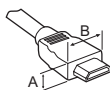
- **Grounding** (Except for devices which are not grounded.)
 - TV with a three-prong grounded AC plug must be connected to a three-prong grounded AC outlet. Ensure that you connect the earth ground wire to prevent possible electric shock.
- Never touch this apparatus or antenna during a lightning storm. You may be electrocuted.
- Make sure the power cord is connected securely to the TV and wall socket if not secured damage to the Plug and socket may occur and in extreme cases a fire may break out.
- Do not insert metallic or inflammable objects into the product. If a foreign object is dropped into the product, unplug the power cord and contact the customer service.
- Do not touch the end of the power cord while it is plugged in. You may be electrocuted.
- **If any of the following occur, unplug the product immediately and contact your local customer service.**
 - The product has been damaged.
 - If water or another substance enters the product (like an AC adapter, power cord, or TV).
 - If you smell smoke or other odors coming from the TV
 - When lightning storms or when unused for long periods of time.

Even the TV is turned off by remote control or button, AC power source is connected to the unit if not unplugged in.
- Do not use high voltage electrical equipment near the TV (e.g., a bug zapper). This may result in product malfunction.
- Do not attempt to modify this product in any way without written authorization from LG Electronics. Accidental fire or electric shock can occur. Contact your local customer service for service or repair. Unauthorized modification could void the user's authority to operate this product.
- Use only an authorized attachments / accessories approved by LG Electronics. Otherwise, this may result in fire, electric shock, malfunction, or product damage.
- Never disassemble the AC adapter or power cord. This may result in fire or electric shock.

- Handle the adapter carefully to avoid dropping or striking it. An impact could damage the adapter.
- To reduce the risk of fire or electrical shock, do not touch the TV with wet hands. If the power cord prongs are wet or covered with dust, dry the power plug completely or wipe dust off.
- **Batteries**
 - Store the accessories (battery, etc.) in a safe location out of the reach of children.
 - Do not short circuit, disassemble, or allow the batteries to overheat. Do not dispose of batteries in a fire. Batteries should not be exposed to excessive heat.
- **Moving**
 - When moving, make sure the product is turned off, unplugged, and all cables have been removed. It may take 2 or more people to carry larger TVs. Do not press or put stress on the front panel of the TV. Otherwise, this may result in product damage, fire hazard or injury.
- Keep the packing anti-moisture material or vinyl packing out of the reach of children.
- Do not allow an impact shock, any objects to fall into the product, and do not drop anything onto the screen.
- Do not press strongly upon the panel with a hand or a sharp object such as a nail, pencil, or pen, or make a scratch on it. It may cause damage to screen.
- **Cleaning**
 - When cleaning, unplug the power cord and wipe gently with a soft/dry cloth. Do not spray water or other liquids directly on the TV. Do not clean your TV with chemicals including glass cleaner, any type of air freshener, insecticide, lubricants, wax (car, industrial), abrasive, thinner, benzene, alcohol etc., which can damage the product and/or its panel. Otherwise, this may result in electric shock or product damage.

Preparing

- If the TV is turned on for the first time after it was shipped from the factory, initialization of the TV may take a few minutes.
- 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 device must be easily accessed to a location outlet near the access. Some devices are not made by turning on / off button, turning off the device and unplugging the power cord.
- The items supplied with your product may vary depending on the model.
- Product specifications or contents of this manual may be changed without prior notice due to upgrade of product functions.
- For an optimal connection, HDMI cables and USB devices should have bezels less than 10 mm thick and 18 mm width. Use an extension cable that supports USB 2.0 if the USB cable or USB memory stick does not fit into your TV's USB port.



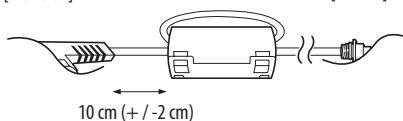
* $A \leq 10 \text{ mm}$

* $B \leq 18 \text{ mm}$

- 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[®]/TM Cable (3 m or less)
 - High-Speed HDMI[®]/TM Cable with Ethernet (3 m or less)
- How to use the ferrite core (Depending on model)
 - Use the ferrite core to reduce the electromagnetic interference in the power cord. Wind the power cord on the ferrite core once.

[Wall side]

[TV side]



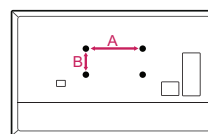
Separate Purchase

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.

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

Wall Mounting Bracket

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.



Model	32/43LK51*	49LK51*
VESA (A x B) (mm)	200 x 200	300 x 300
Standard screw	M6	M6
Number of screws	4	4
Wall mount bracket	LSW240B MSW240	OLW480B MSW240

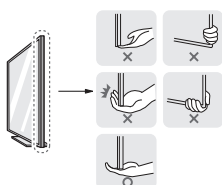
Lifting and moving the TV

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.



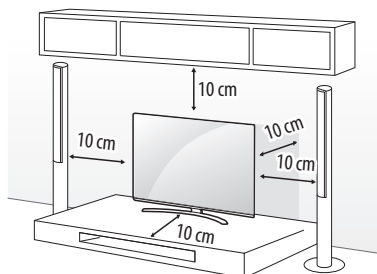
- When transporting the TV, do not expose the TV to jolts or excessive vibration.
- When transporting the TV, keep the TV upright, never turn the TV on its side or tilt towards the left or right.
- Do not apply excessive pressure to cause flexing / bending of frame chassis as it may damage screen.
-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



- 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.
- 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.

Mounting on a Table

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



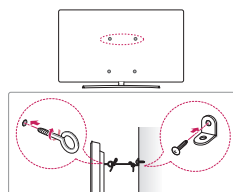
(Depending on model)

- 2 Connect the power cord to a wall outlet.



- Do not apply foreign substances (oils, lubricants, etc.) to the screw parts when assembling the product. (Doing so may damage 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.
- 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.
- Make sure that the screws are inserted correctly and fastened securely. (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.

Securing TV to the Wall

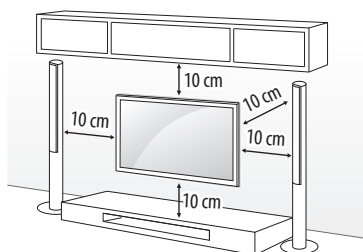


(Depending on model)

- 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.
- 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 to the 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. LG's wall mount bracket is easy to move with cables connected. 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. It is advised to connect all the cables before installing fixed wall mounts.

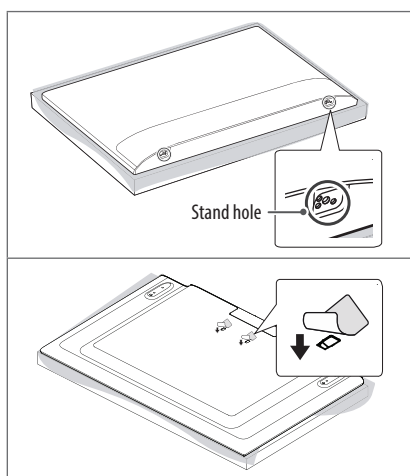


(Depending on model)



- Remove the stand before installing the TV on a wall mount by performing the stand attachment in reverse.
- For more information of screws and wall mount bracket, refer to the Separate Purchase.
- 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.
- When mounting a TV on the wall, make sure not to install the TV by hanging the power and signal cables on the back of the TV.
- 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.

- When installing the wall mounting bracket, it is recommended to cover the stand hole using tape, in order to prevent the influx of dust and insects. (Depending on model)



Connections

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.

Antenna/Cable

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.

Satellite dish

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

CI module

View the encrypted (pay) services in digital TV mode. (Depending on model)

- 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.
- If the TV does not display any video and audio when CI+ CAM is connected, please contact to the Terrestrial/Cable/Satellite Service Operator.

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.

HDMI

- Supported HDMI Audio format (Depending on model):
Dolby Digital / Dolby Digital Plus (32 kHz / 44.1 kHz / 48 kHz),
PCM (32 kHz / 44.1 kHz / 48 kHz / 96 kHz / 192 kHz)

Adapter

(Depending on model)



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

External Devices

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

- 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 Blu-ray/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.
- 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.
- When connecting via a wired LAN, it is recommended to use a CAT 7 cable. (Only when **LAN** port is provided.)

Remote RS-232C setup

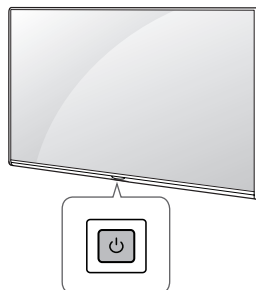
To obtain the RS-232C external control setup information, please visit www.lg.com. Download and read the manual. (Depending on model)



- 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.
- 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.

Using Button

You can simply operate the TV functions, using the button. (Depending on model)



Basic functions



Power On (Press)
Power Off (Press and Hold)
Menu Control (Press¹)
Menu Selection (Press and Hold²)

- 1 You can access and adjust the menu by pressing the button when TV is on.
- 2 You can use the function when you access menu control.

Adjusting the menu

When the TV is turned on, press the  button one time. You can adjust the Menu items using the button.

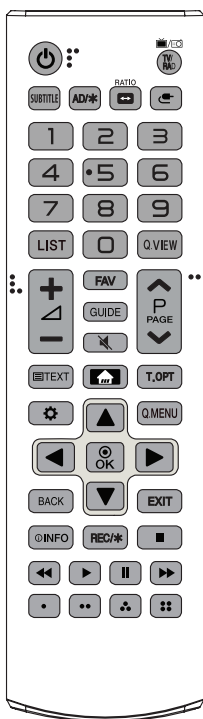
	Turns the power off.
	Changes the input source.
	Scrolls through the saved programmes.
	Adjusts the volume level.

Using Remote Control

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

To replace batteries, open the battery cover, replace batteries (1.5 V AAA) matching the $\oplus$ and $\ominus$ ends to the label inside the compartment, and close the battery cover. To remove the batteries, perform the installation actions in reverse.

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



(Some buttons and services may not be provided depending on models or regions.)

(POWER) Turns the TV on or off.

TV/RAD Selects Radio, TV and DTV programme.

SUBTITLE Recalls your preferred subtitle in digital mode.

AD/* Audio descriptions function will be enabled. (Depending on model)

RATIO Resizes an image.

(INPUT) Changes the input source.

Number buttons Enters numbers.

- Pressing and holding the button accesses the **Quick Access** menu.

LIST Accesses the saved programmes list.

Q.VIEW Returns to the previously viewed programme.

+/- Adjusts the volume level.

FAV Accesses your favourite programme list.

GUIDE Shows programme guide.

(MUTE) Mutes all sounds.

- Pressing and holding the button accesses the **Accessibility** menu.

^P^ Scrolls through the saved programmes.

^PAGE^ Moves to the previous or next screen.

Teletext buttons (**TEXT**, **T.OPT**) These buttons are used for teletext.

(HOME) Accesses the Home menu.

(Settings) Accesses the Settings menu.

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.

INFO Views the information of the current programme and screen.

REC/* Starts to record and displays record menu. (Only Time Machine^{Ready} supported model) (Depending on model)

Control buttons (, , , ,) Controls media contents.

, , , These access special functions in some menus.



- Do not mix new batteries with old batteries. This may cause the batteries to overheat and leak.
- Failure to match the correct polarities of the battery may cause the battery to burst or leak, resulting in fire, personal injury, or ambient pollution.
- This apparatus uses batteries. In your community there might be regulations that require you to dispose of these batteries properly due to environmental considerations. Please contact your local authorities for disposal or recycling information.
- Batteries inside or inside the product shall not be exposed to excessive heat such as sunshine, fire or the like.

Settings

Automatically Setting Up Programme

⚙️ (Settings) → Programmes → Auto Tuning

Automatically tunes the programmes.

- If Input Source is not connected properly, programme registration may not work.
- **Auto Tuning** only finds programmes that are currently broadcasting.
- If **Lock System** is turned on, a pop-up window will appear asking for password.

To select Picture Mode

⚙️ (Settings) → Picture → Picture Mode Settings → Picture Mode

Select the picture mode optimized for the viewing environment or the programme.

- **Vivid** : Heightens contrast, brightness and sharpness to display vivid images.
- **Standard** : Displays images in standard levels of contrast, brightness and sharpness.
- **Eco / APS** : [Depending on model]
The Energy Saver feature changes settings on the TV to reduce power consumption.
- **Cinema / Game** : Displays the optimum picture for movie, game.
- **Sports** : [Depending on model]
Optimizes the video image for high and dynamic actions by emphasizing primary colours such as white, grass, or sky blue.
-  **Expert1 / Expert2** : Menu for adjusting picture quality that allows experts and amateurs to enjoy the best TV viewing. This is the adjustment menu provided for ISF-certified picture tuning professionals. (ISF logo can only be used on ISF-certified TVs.)
ISFccc: Imaging Science Foundation Certified Calibration Control
- Depending on input signal, available range of picture modes may differ.
-  **Expert mode** is for picture tuning professionals to control and fine-tune using a specific image. For normal images, the effects may not be dramatic.
- The ISF function is only available on some models.
- Changing **Picture Mode** may modify  **Energy Saving** and **Motion Eye Care** settings, which can also affect energy consumption.

Fine-tuning Picture Mode

⚙️ (Settings) → Picture → Picture Mode Settings

This feature allows you to adjust the selected picture mode in detail.

- **Backlight** : Controls the level of screen brightness by adjusting the backlight. The closer to 100, the brighter the screen.
- **Contrast** : Adjusts the contrast of the bright and dark areas of the picture. The closer to 100, the higher the contrast.
- **Brightness** : Adjusts the overall screen brightness. The closer to 100, the brighter the screen.
- **Sharpness** : Adjusts the sharpness of the image. The closer to 50, the sharper and clearer the image.
- **Colour** : Tones down or up the colours displayed on the screen. The closer to 100, the deeper the colour.
- **Tint** : Adjusts the colour balance between red and green displayed on the screen. The closer to Red 50, the more red the colour will be. The closer to Green 50, the more green the colour will be.
- **Colour Temperature** : Adjusts the colour temperature from cold to warm.
- Depending on input signal or other picture settings, the range of detailed items for adjustment may differ.

To set advanced controls

⚙️ (Settings) → Picture → Picture Mode Settings → Advanced Controls / Expert Controls

Calibrates the screen for each picture mode; or adjusts picture settings for a special screen.

- **Dynamic Contrast** : Adjusts the contrast to the optimal level according to the brightness of the image.
- **Dynamic Colour** : Adjusts colours to make the image appear in more natural colours.
- **Preferred Colour** : Adjust the colours of skin, grass and sky to your personal preferences.
- **Gamma** : Sets the gradation curve according to the output of picture signal in relation to the input signal.
- **Colour Gamut** : Selects the range of colours that can be expressed.
- **Colour Filter** : Filters a specific colour spectrum in RGB colours to fine-tune colour saturation and hue accurately.
- **White Balance** : Adjusts the overall tone of the screen as desired.

- **Colour Management System** : This is a system that experts use when they adjust colour with a test pattern. They can select from six colour areas (Red / Green / Blue / Cyan / Magenta / Yellow) without affecting other colours. For normal images, adjustments may not result in noticeable colour changes.
- Depending on input signal or other picture settings, the range of detailed items for adjustment may differ.

To set additional picture options

⚙️ (Settings) → Picture → Picture Mode Settings → Picture Options

Adjusts detailed setting for images.

- **Noise Reduction** : Eliminates noise in the picture.
- **MPEG Noise Reduction** : Eliminates noise generated while creating digital picture signals.
- **Black Level** : Adjusts the brightness and contrast of the screen to suit the black level of the input picture by using the blackness (black level) of the screen.
- **Real Cinema** : Optimizes the screen for movie viewing.
- **Motion Eye Care** : Automatically adjusts brightness and reduces image blur based on image data to reduce eyestrain.
- Depending on input signal or other picture settings, the range of detailed items for adjustment may differ.

Resetting picture settings

⚙️ (Settings) → Picture → Picture Mode Settings → Picture Reset

Resets picture settings that the user customizes. Each picture mode is reset. Select the picture mode you wish to reset.

To use Energy Saving feature

⚙️ (Settings) → Picture → Energy Saving

Reduces power consumption by adjusting screen brightness.

- **Auto** : [Depending on model]
The TV sensor detects the ambient lighting and automatically adjusts the screen brightness.
- **Off** : Turns off the  **Energy Saving** mode.
- **Minimum / Medium / Maximum** : Applies the pre-set  **Energy Saving** mode.
- **Screen Off** : Screen is turned off and only sound is played. Press any button except Power button on the remote control to turn the screen back on.
- Depending on the  **Energy Saving (Auto / Maximum)**, you may not be able to adjust the **Backlight**.
In this case, navigate to ⚙️ (Settings) → Picture →  **Energy Saving** and set to **Off** or **Minimum**.

To use Eye Comfort Mode feature

⚙️ (Settings) → Picture → Additional Settings → Eye Comfort Mode

If you turn this option on, colour temperature will be automatically adjusted to reduce eye strain.

- **On** : Automatically adjusts the screen colour temperature.
- **Off** : Turns off the **Eye Comfort Mode**.

Selecting Sound Mode

⚙️ (Settings) → Sound → Sound Mode Settings → Sound Mode

Adjusts TV audio to an optimal level based on a selected sound mode.

- **Standard** : Optimizes the sound for all types of content.
- **Clear Voice** : Boosts voice clarity from the TV.
- **Music** : [Depending on model] Optimizes the sound for music.
- **Cinema** : Optimizes the sound for cinemas.
- **Sports** : [Depending on model] Optimizes the sound for sports.
- **Game** : Optimizes the sound for gameplay.

Adjusting audio balance

⚙️ (Settings) → Sound → Sound Mode Settings → Balance

Adjust the volume of the left and right speakers.

Using the Sound Effect function

⚙️ (Settings) → Sound → Sound Mode Settings

The user can select various sound effects.

- **Virtual Surround** : Enjoy an immersive soundscape with the virtual multi-channel surround sound effect.
- **Equalizer** : Set the desired sound by adjusting the equalizer directly.
- **Reset** : Reset the sound effect settings.
- This is only available if **Sound Mode** is set to **Standard**.

To use TV speaker

⚙️ (Settings) → Sound → Sound Out → Internal TV Speaker

[Depending on model]

Sound is output through the TV speaker.

To use External Speaker

⚙️ (Settings) → Sound → Sound Out → Audio Out (Optical)

[Depending on model]

Sound is output through the speaker connected to the optical port.

- SimpLink is supported.

To use Internal TV Speaker + Audio Out (Optical)

⚙️ (Settings) → Sound → Sound Out → Internal TV Speaker + Audio Out (Optical)

[Depending on model]

Audio is played through the TV's built-in speakers and the audio device connected to the digital optical audio output port simultaneously.

To connect and use LG audio device

⚙️ (Settings) → Sound → Sound Out → LG Sound Sync (Optical)

[Depending on model]

Connect LG audio device with the  logo to the optical digital audio output port. LG audio device allows you to enjoy rich powerful sound easily.

To use Digital Sound Out

⚙️ (Settings) → Sound → Sound Out → Internal TV Speaker + Audio Out (Optical) → Digital Sound Out

[Depending on model]

Sets up **Digital Sound Out**.

Item	Audio Input	Digital Audio Output
Auto	MPEG	PCM
	Dolby Digital	Dolby Digital
	Dolby Digital Plus	Dolby Digital
	HE-AAC	Dolby Digital
PCM	All	PCM

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

To synchronize audio and video

⚙️ (Settings) → Sound → AV Sync Adjustment

[Depending on model]

Synchronizes video and audio directly when they do not match. If you set **AV Sync Adjustment** to on, you can adjust the sound output (TV speakers or External Speaker) to the screen image.

- If you select the **Bypass**, Outputs the broadcast signals or the sound from external devices without any audio delay. The audio may be output before the video because of the time the TV takes to process the video input.

To use SIMPLINK

[Depending on model]

SIMPLINK is a feature that enables you to control and manage various multimedia devices conveniently via the SIMPLINK menu.

- 1 Connect the TV's **HDMI IN** terminal and the SIMPLINK device's HDMI output terminal using an HDMI cable.

- [Depending on model]

For home theatre units with a SIMPLINK function, connect HDMI terminals as above, and use an optical cable to connect Optical Digital Audio Out from the TV to Optical Digital Audio In of the SIMPLINK device.

- 2 Select ⚙️ (Settings) → General → SIMPLINK.

SIMPLINK menu window appears.

- 3 In SIMPLINK Setting window, set SIMPLINK function to **On**.

- 4 Configure the **Auto Power Sync** settings to on or off.

- You can also set the SIMPLINK in  (HOME) → Inputs → SIMPLINK. In SIMPLINK menu window, selects the device you want to control.
- This function is only compatible with devices with the SIMPLINK logo.
- To use the SIMPLINK function, you need to use a high-speed HDMI® cable (with CEC (Consumer Electronics Control) feature added). High-speed HDMI® cables have the No. 13 pin connected for information exchange between devices.
- If you switch to another input, the SIMPLINK device will stop.
- If a third-party device with the HDMI-CEC function is also used, the SIMPLINK device may not work normally.
- [Depending on model]

If you select or play media from the device with a home theatre function, the **HT Speaker (Speaker)** is automatically connected.

Be sure to connect with an optical cable (sold separately) to use the **HT Speaker (Speaker)** function.

SIMPLINK function description

- **Direct Play** : Plays the multimedia device on the TV instantly.
- **Controlling devices with the TV remote control** : Manages the multimedia device with the TV remote control.
- **Main Power Off** : If **Auto Power Sync** is set to on in the SIMPLINK settings and turn off your TV, the devices connected to your TV via SIMPLINK will also be turned off.
- **Main Power On** : If **Auto Power Sync** is set to on in the SIMPLINK settings, turning on a SIMPLINK-linked device will turn the TV on. (Behavior may vary depending on connected device.)
- **Speaker** : [Depending on model]
Select speaker either on the home theatre unit or the TV.

To set password

⚙️ (Settings) → Safety → Set Password

Sets or changes the TV password.

- The initial password is set to '0000'.
- When France is selected for Country, password is not '0000' but '1234'.
- When France is selected for Country, password cannot be set to '0000'.

To return Reset to Initial Settings

⚙️ (Settings) → General → Reset to Initial Settings

All stored information is deleted and TV settings are reset.

The TV turns itself off and back on, and all settings are reset.

- When **Lock System** is in place, a pop-up window appears and asks for password.
- Do not turn off the power during initialization.

To remove the USB device

Select the connected USB HDD from  (**HOME**) → **Inputs** and select the **Eject** button to disconnect the USB HDD storage device.

When you see a message that the USB device has been removed, separate the device from the TV.

- Once a USB device has been selected for removal, it can no longer be read. Remove the USB storage device and then re-connect it.

Using a USB storage device - warning

- If the USB storage device has a built-in auto recognition program or uses its own driver, it may not work.
- Some USB storage devices may not work or may work incorrectly.
- Use only USB storage devices formatted with the Windows FAT32 or NTFS File System.
- For external USB HDDs, it is recommended that you use devices with a rated voltage of less than 5 V and a rated current of less than 500 mA.
- It is recommended that you use USB memory sticks of 32 GB or less and USB HDDs of 2 TB or less.
- If a USB HDD with power-saving function does not work properly, turn the power off and on. For more information, refer to the user manual of the USB HDD.
- Data in the USB storage device can be damaged, so be sure to back up important files to other devices. Data maintenance is the user's responsibility and the manufacturer is not responsible for data loss.

My Media supporting file

- Maximum data transfer rate: 20 Mbps (Mega bit per second)
- External supported subtitle formats : *.smi, *.srt, *.sub (MicroDVD, SubViewer1.0/2.0), *.ass, *.ssa, *.txt (TMplayer), *.psb (PowerDivX)

Supported Video Formats

- Maximum: 1,920 x 1,080 @ 30p (Only Motion JPEG 640 x 480 @ 30p)

Extension	Codec	
.asf, .wmv	Video	MPEG-4 Part2, Xvid, H.264/AVC, VC1(WMV3, WVC1)
	Audio	WMA Standard, WMA9(Pro), MP3, AAC, AC3
.avi	Video	MPEG-2, MPEG-4 Part2, Xvid, H.264/AVC
	Audio	HE-AAC, LPCM, ADPCM, MPEG-1 Layer I, MPEG-1 Layer II, Dolby Digital, MPEG-1 Layer III (MP3), DTS ¹
.ts, .trp, .tp, .mts, .m2ts	Video	H.264/AVC, MPEG-2, H.265/HEVC
	Audio	MPEG-1 Layer I, MPEG-1 Layer II, MPEG-1 Layer III (MP3), Dolby Digital, Dolby Digital Plus, AAC, HE-AAC, DTS ¹
.vob	Video	MPEG-1, MPEG-2
	Audio	Dolby Digital, MPEG-1 Layer I, MPEG-1 Layer II, DVD-LPCM
.mp4, .m4v, .mov	Video	MPEG-2, MPEG-4 Part2, Xvid, H.264/AVC
	Audio	AAC, MPEG-1 Layer III (MP3), DTS ¹
.mkv	Video	MPEG-2, MPEG-4 Part2, Xvid, H.264/AVC
	Audio	HE-AAC, Dolby Digital, MPEG-1 Layer III (MP3), LPCM, DTS ¹
motion JPEG	Video	MJPEG
	Audio	LPCM, ADPCM
.mpg, .mpeg, .mpe	Video	MPEG-1, MPEG-2
	Audio	MPEG-1 Layer I, MPEG-1 Layer II, Dolby Digital, LPCM
.dat	Video	MPEG-1, MPEG-2
	Audio	MP2
.flv	Video	Sorenson H.263, H.264/AVC
	Audio	MP3, AAC, HE-AAC
.3gp	Video	H.264/AVC, MPEG-4 Part2
	Audio	AAC, AMR(NB/WB)

1 Depending on model

Supported Audio Formats

File Format	Item	Info
MP3	Bit rate	32 Kbps ~ 320 Kbps
	Sample freq.	16 kHz ~ 48 kHz
	Support	MPEG-1, MPEG-2, Layer2, Layer3
AAC	Bit rate	Free Format
	Sample freq.	8 kHz ~ 48 kHz
	Support	ADIF, ADTS
M4A	Bit rate	Free Format
	Sample freq.	8 kHz ~ 48 kHz
	Support	MPEG-4
WAV	Bit rate	64 kbps ~ 1.5 Mbps
	Sample freq.	8 kHz ~ 48 kHz
	Support	LPCM
	Bit depth	8 bit / 16 bit / 24 bit
WMA	Bit rate	128 Kbps ~ 320 Kbps
	Sample freq.	8 kHz ~ 48 kHz
	Support	WMA7, WMA8, WMA9 Standard
WMA 10 Pro	Bit rate	~ 768 Kbps
	Channel / Sample freq.	M0: up to 2 Channel @ 48 kHz (Except LBR mode), M1: up to 5.1 Channel @ 48 kHz, M2: up to 5.1 Channel @ 96 kHz
	Support	WMA 10 Pro
OGG	Bit rate	Free Format
	Sample freq.	8 kHz ~ 48 kHz
	Support	OGG Vorbis

Supported Photo Formats

File Format	Item	Resolution
jpeg, jpg, jpe	Available File Type	SOF0: Baseline SOF1: Extend Sequential SOF2: Progressive
	Photo Size	Minimum: 64 (W) x 64 (H) Maximum (Normal Type): 15,360 (W) x 8,640 (H) Maximum (Progressive Type): 1,920 (W) x 1,440 (H)
BMP	Photo Size	Minimum: 64 (W) x 64 (H) Maximum: 9,600 (W) x 6,400 (H)
PNG	Available File Type	Interlace, Non-Interlace
	Photo Size	Minimum: 64 (W) x 64 (H) Maximum (Interlace): 1,200 (W) x 800 (H) Maximum (Non-Interlace): 9,600 (W) x 6,400 (H)

* BMP and PNG format files may be slower to display than JPEG.

To see web manual

To obtain detailed User Guide information, please visit www.lg.com.

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 auto-off function is activated on the settings related time.
- 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 is detected.

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

Abnormal Display

- 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.
- This panel is an advanced product that contains millions of pixels. You may see tiny black dots and/or brightly coloured dots (red, blue or green) at a size of 1 ppm on the panel. This does not indicate a malfunction and does not affect the performance and reliability of the product. This phenomenon also occurs in third-party products and is not subject to exchange or refund.
- You may find different brightness and colour of the panel depending on your viewing position(left/right/top/down). This phenomenon occurs due to the characteristic of the panel. It is not related with the product performance, and it is not malfunction.
- Displaying a still image for a prolonged period of time may cause image sticking. Avoid displaying a fixed image on the TV screen for a long period of time.

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.

Specifications

(Depending on country)

ENGLISH

Broadcasting Specifications				
	Digital TV			Analogue TV
Television system	DVB-S/S2 ¹ DVB-T/T2 ¹ DVB-C			PAL/SECAM B/G, D/K, I SECAM L
Channel coverage (Band)	DVB-S/S2 ¹	DVB-C	DVB-T/T2 ¹	46 ~ 862 MHz
	950~2,150 MHz	46 ~ 890 MHz	VHF III : 174 ~ 230 MHz UHF IV : 470 ~ 606 MHz UHF V : 606 ~ 862 MHz S Band II : 230 ~ 300 MHz S Band III : 300 ~ 470 MHz	
Maximum number of storable programmes	6,000	2,000		
External antenna impedance	75 Ω			
CI Module (W x H x D)	100.0 mm x 55.0 mm x 5.0 mm			

¹ Only DVB-T2/C/S2 support models

AC/DC Adapter	
32LK51*	43/49LK51*
Manufacturer : Lien Chang Model : LCAP45 Manufacturer : APD Model : DA-48G19 Manufacturer : Chicony Model : A16-048N2A	Manufacturer : Lien Chang Model : LCAP40 Manufacturer : APD Model : DA-65F19 Manufacturer : Chicony Model : A16-065N4A
Input : AC 100 - 240 V ~ 50/60 Hz Output : DC 19 V — — 2.53 A	Input : AC 100 - 240 V ~ 50/60 Hz Output : DC 19 V — — 3.42 A

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 %

HDMI-DTV supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640 x 480	31.46	59.94
	31.50	60.00
720 x 480	31.47	59.94
	31.50	60.00
720 x 576	31.25	50.00
1,280 x 720	37.50	50.00
	45.00	60.00
	44.96	59.94
1,920 x 1,080	28.12	50.00
	33.75	60.00
	33.72	59.94
	56.25	50.00
	67.50	60.00
	67.43	59.94
	27.00	24.00
	26.97	23.97
	33.75	30.00
	33.71	29.97

Component port connecting information

Component ports on the TV	Y	P _B	P _R
---------------------------	---	----------------	----------------

Video output ports on DVD player	Y	P _B	P _R
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	Pb	Pr

Signal	Component
480i / 576i	0
480p / 576p	0
720p / 1,080i	0
1,080p	0 (Only 50 Hz / 60 Hz)

ENGLISH

HDMI-PC supported mode

Use HDMI IN 1 for PC mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640 x 350	31.46	70.09
720 x 400	31.46	70.08
640 x 480	31.46	59.94
800 x 600	37.87	60.31
1,024 x 768	48.36	60.00
1,152 x 864	54.34	60.05
1,360 x 768	47.71	60.01
1,280 x 1,024 ¹	63.98	60.02
1,920 x 1,080 ¹	67.50	60.00

¹ Except for 32LK51*

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OWNER'S MANUAL

EXTERNAL CONTROL DEVICE SETUP

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

www.lg.com

KEY CODES

- This feature is not available for all models.

Code (Hexa)	Function	Note	Code (Hexa)	Function	Note
00	CH +, PR +	R/C Button	53	List	R/C Button
01	CH -, PR -	R/C Button	5B	Exit	R/C Button
02	Volume +	R/C Button	60	PIP(AD)	R/C Button
03	Volume -	R/C Button	61	Blue	R/C Button
06	> (Arrow Key / Right Key)	R/C Button	63	Yellow	R/C Button
07	< (Arrow Key / Left Key)	R/C Button	71	Green	R/C Button
08	Power	R/C Button	72	Red	R/C Button
09	Mute	R/C Button	79	Ratio / Aspect Ratio	R/C Button
0B	Input	R/C Button	91	AD (Audio Description)	R/C Button
0E	SLEEP	R/C Button	7A	User Guide	R/C Button
0F	TV, TV/RAD	R/C Button	7C	Smart / Home	R/C Button
10 - 19	* Number Key 0 - 9	R/C Button	7E	SIMPLINK	R/C Button
1A	Q.View / Flashback	R/C Button	8E	▶▶ (Forward)	R/C Button
1E	FAV (Favorite Channel)	R/C Button	8F	◀◀ (Rewind)	R/C Button
20	Text (Teletext)	R/C Button	AA	Info	R/C Button
21	T. Opt (Teletext Option)	R/C Button	AB	Program Guide	R/C Button
28	Return (BACK)	R/C Button	B0	▶ (Play)	R/C Button
30	AV (Audio / Video) Mode	R/C Button	B1	■ (Stop / File List)	R/C Button
39	Caption/Subtitle	R/C Button	BA	(Freeze / Slow Play / Pause)	R/C Button
40	Λ (Arrow Key / Cursor Up)	R/C Button	BB	Soccer	R/C Button
41	V (Arrow Key / Cursor Down)	R/C Button	BD	● (REC)	R/C Button
42	My Apps	R/C Button	DC	3D	R/C Button
43	Menu / Settings	R/C Button	99	AutoConfig	R/C Button
44	OK / Enter	R/C Button	9F	App / *	R/C Button
45	Q.Menu	R/C Button	9B	TV/PC	R/C Button
4C	List, - (ATSC Only)	R/C Button			

* Key code 4C (0x4C) is available on ATSC/ISDB models which use major/minor channel.
(For South Korea, Japan, North America, Latin America except Colombia models)

EXTERNAL CONTROL DEVICE SETUP

- Image shown may differ from your TV.

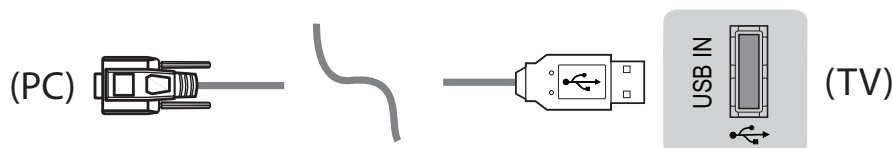
Connect the USB to Serial converter/RS-232C input jack to an external control device (such as a computer or an A/V control system) to control the product's functions externally.

Note: The type of control port on the TV can be different between model series.

- * Please be advised that not all models support this type of connectivity.
- * Cable is not provided.

USB to Serial converter with USB Cable

USB Type



- LGTV supports PL2303 chip-based (Vendor ID : 0x0557, Product ID : 0x2008) USB to serial converter which is not made nor provided by LG.
- It can be purchased from computer stores that carry accessories for IT support professionals.

RS-232C With RS232C Cable

DE9 (D-Sub 9pin) Type

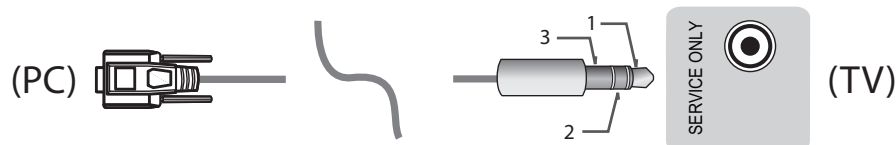
- You need to purchase the RS-232C (DE9, D-Sub 9pin female-to-female type) to RS-232C cable required for the connection between the PC and the TV, which is specified in the manual.



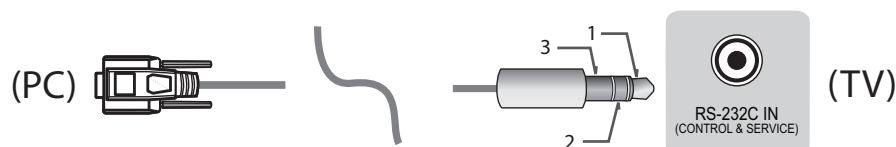
The connection interface may differ from your TV.

Phone jack Type

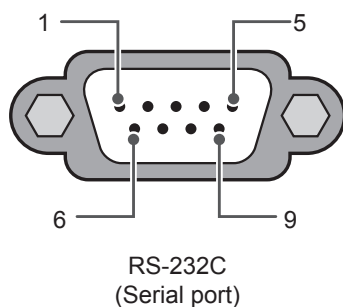
- You need to purchase the phone-jack to RS-232 cable required for the connection between the PC and the TV, which is specified in the manual.
- * For other models, connect to the USB port.
- * The connection interface may differ from your TV.



- or



Customer Computer



RS-232C configurations

3-Wire Configurations(Not standard)

	PC	TV	
RXD	2	2	TXD
TXD	3	1	RXD
GND	5	3	GND

OR

RXD	3	2	TXD
TXD	2	1	RXD
GND	5	3	GND

D-Sub 9

Phone

Set ID

For Set ID number, see "Real Data Mapping" on p.6

1. Press **SETTINGS** to access the main menus.
 2. Press the Navigation buttons to scroll to (***General** → **About this TV or 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**.
- * (Depending on model)

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	15. Balance	k	t	00 to 64
02. Aspect Ratio	k	c	(p.7)	16. Color (Colour) Temperature	x	u	00 to 64
03. Screen Mute	k	d	(p.7)	17. ISM Method (Only Plasma TV)	j	p	(p.8)
04. Volume Mute	k	e	00 to 01	18. Equalizer	j	v	(p.8)
05. Volume Control	k	f	00 to 64	19. Energy Saving	j	q	00 to 05
06. Contrast	k	g	00 to 64	20. Tune Command	m	a	(p.9)
07. Brightness	k	h	00 to 64	21. Channel (Programme) Add/Del(Skip)	m	b	00 to 01
08. Color/ Colour	k	i	00 to 64	22. Key	m	c	Key Codes
09. Tint	k	j	00 to 64	23. Control Backlight, Control Panel Light	m	g	00 to 64
10. Sharpness	k	k	00 to 32	24. Input select (Main)	x	b	(p.11)
11. OSD Select	k	l	00 to 01	25. 3D (Only 3D models)	x	t	(p.11)
12. Remote Control Lock Mode	k	m	00 to 01	26. Extended 3D (Only 3D models)	x	v	(p.11)
13. Treble	k	r	00 to 64	27. Auto Configure	j	u	(p.12)
14. Bass	k	s	00 to 64				

* Note: During playing or recording media, all commands except Power (ka) and Key (mc) are not executed and treated as NG.
With RS232C cable, TV can communicate "ka command" in power-on or power-off status. but with USB-to-Serial converter cable, the command works only if TV is on.

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 in TV is 1 to 99. If [Set ID] value is selected to '0', every connected set can be controlled.
* [Set ID] is indicated as decimal (1 to 99) on menu and as Hexadecimal (0x00 to 0x63) on transmission/receiving protocol.

[DATA] : To transmit command data (hexadecimal). Transmit 'FF' data to read status of command.

[Cr] : Carriage Return - ASCII code '0x0D'

[] : Space - ASCII code '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

Real data mapping (Hexadecimal to Decimal)

* When you enter the [data] in hexadecimal, refer to following conversion table.

* Channel Tune (ma) Command uses two-byte hexadecimal value([data]) to select channel number.

00 : Step 0	32 : Step 50 (Set ID 50)	FE : Step 254
01 : Step 1 (Set ID 1)	33 : Step 51 (Set ID 51)	FF : Step 255
...	...	...
0A : Step 10 (Set ID 10)	63 : Step 99 (Set ID 99)	01 00 : Step 256
...	...	...
0F : Step 15 (Set ID 15)	C7 : Step 199	27 0E : Step 9998
10 : Step 16 (Set ID 16)	C8 : Step 200	27 0F : Step 9999
...	...	...

* Commands may work differently depending on model and signal.

01. Power (Command: k a)

- To control Power *On or 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 TV is Power On or *Off

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

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

* Similarly, if other functions transmit 'FF' data based on this format, Acknowledgement feedback presents status about each function.

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 (Europe, Colombia, Mid-East,
02 : Wide screen (16:9)	Asia except South Korea and Japan)
04 : Zoom	09 : * Just Scan
05 : Zoom 2 (Latin America except Colombia Only)	0B : Full Wide (Europe, Colombia, Mid- East, Asia except South Korea and Japan)
06 : Set by Program/ Original	10 to 1F : Cinema Zoom 1 to 16

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/Component mode (high-definition), Just Scan is available.
- * Full wide mode may work differently based on model and is supported for DTV fully, and ATV, AV partially.

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

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

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

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

08. Color/Colour (Command: k i)

- To adjust the screen Color(Colour).
You can also adjust colour in the PICTURE menu.

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

Data Min : 00 to Max : 64

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

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

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 off & on (plug-off and plug-in, after 20 - 30 seconds), external control lock is released.

- * In the standby mode (DC off by off timer or 'ka', 'mc' command), and if key lock is on, TV will not turn on by power on key of IR & Local Key.

13. Treble (Command: k r)

- To adjust treble.
You can also adjust in the AUDIO menu.

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

Data Min : 00 to Max : 64

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

* (Depending on model)

14. Bass (Command: k s)

- To adjust Bass.
You can also adjust in the AUDIO menu.

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

Data Min : 00 to Max : 64

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

* (Depending on model)

15. 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

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

16. Color(Colour) Temperature (Command: x u)

- To adjust colour temperature. You can also adjust Color(Colour) Temperature in the PICTURE menu.

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

Data Min : 00 to Max : 64

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

17. ISM Method (Command: j p) (Only Plasma TV)

- To control the ISM method. You can also adjust ISM Method in OPTION menu.

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

Data Min : 02: Orbiter

08: Normal

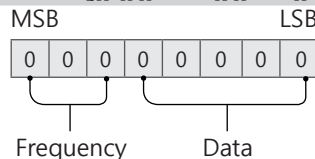
20: Color(Colour) Wash

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

18. Equalizer (Command : j v)

- Adjust EQ of the set.

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



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

1	0	0	5th Band	1	0	1	0	0	20(decimal)
---	---	---	----------	---	---	---	---	---	-------------

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

* It depends on model, and can adjust when sound mode is EQ adjustable value.

19. 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]

Data

- 00 : Off
- 01 : Minimum
- 02 : Medium
- 03 : Maximum
- 04 : Auto (For LCD TV / LED TV) / Intelligent sensor (For PDP TV)
- 05 : Screen off

* (Depending on model)

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

20. Tune Command (Command: m a)

- * This command may work differently depending on model and signal.
- For Europe, Mid-East, Colombia, Asia except South Korea and Japan Model
- Select channel to following physical number.

Transmission [m][a][][Set ID][][Data 00][][Data 01][][Data 02][Cr]

* Analog Antenna/Cable

[Data 00][Data 01] Channel Data
Data 00 : High byte channel data
Data 01 : Low byte channel data
- 00 00 ~ 00 C7 (Decimal : 0 ~ 199)

Data 02 : Input Source (Analog)
- 00 : Antenna TV (ATV)
- 80 : Cable TV (CATV)

* Digital Antenna/Cable/Satellite

[Data 00][Data 01]: Channel Data
Data 00 : High Channel data
Data 01 : Low Channel data
- 00 00 ~ 27 0F (Decimal: 0 ~ 9999)

Data 02 : Input Source (Digital)
- 10 : Antenna TV (DTV)
- 20 : Antenna Radio (Radio)
- 40 : Satellite TV (SDTV)
- 50 : Satellite Radio (S-Radio)
- 90 : Cable TV (CADTV)
- a0 : Cable Radio (CA-Radio)

* Tune Command Examples:

1. Tune to the Analog antenna (PAL) Channel 10.

Set ID = All = 00

Data 00 & 01 = Channel Data is 10 = 00 0a

Data 02 = Analog Antenna TV = 00

Result = **ma 00 00 0a 00**

2. Tune to the digital antenna (DVB-T) Channel 01.

Set ID = All = 00

Data 00 & 01 = Channel Data is 1 = 00 01

Data 02 = Digital Antenna TV = 10

Result = **ma 00 00 01 10**

3. Tune to the satellite (DVB-S) Channel 1000.

Set ID = All = 00

Data 00 & 01 = Channel Data is 1000 = 03 E8

Data 02 = Digital Satellite TV = 40

Result = **ma 00 03 E8 40**

Ack [a][][Set ID][][OK][Data 00][Data 01]

[Data 02][x][a][][Set ID][][NG][Data 00][x]

- For South Korea, North/Latin America except Colombia Model

- To tune channel to following physical/major/minor number.

Transmission [m][a][][0][][Data00][][Data01]

[][Data02][][Data03][][Data04][][Data05][Cr]

Digital channels have a Physical, Major, and Minor channel number. The Physical number is the actual digital channel number, the Major is the number that the channel should be mapped to, and the Minor is the sub-channel. Since the ATSC tuner automatically maps the channel from the Major / Minor number, the Physical number is not required when sending a command in Digital.

* Analog Antenna/Cable

Data 00 : Physical Channel Number

- Antenna (ATV) : 02~45 (Decimal: 2 ~ 69)

- Cable (CATV) : 01, 0E~7D (Decimal : 1, 14~125)

[Data 01 ~ 04]: Major/Minor Channel Number

Data 01 & 02: xx (Don't care)

Data 03 & 04: xx (Don't care)

Data 05: Input Source (Analog)

- 00 : Antenna TV (ATV)

- 01 : Cable TV (CATV)

* Digital Antenna/Cable

Data 00 : xx (Don't care)

[Data 01][Data 02]: Major Channel Number

Data 01 : High byte Channel Data

Data 02 : Low byte Channel Data

- 00 01 ~ 27 0F (Decimal: 1 ~ 9999)

[Data 03][Data 04]: Minor Channel Number

Data 03 : High byte Channel Data

Data 04 : Low byte Channel Data

Data 05 : Input Source (Digital)

- 02 : Antenna TV (DTV) – Use Physical Channel Number

- 06 : Cable TV (CADTV) – Use Physical Channel

Number

- 22 : Antenna TV (DTV) – Don't Use Physical Channel Number
- 26 : Cable TV (CADTV) - Don't Use Physical Channel Number
- 46 : Cable TV (CADTV) – Use Major Channel Number Only (One Part Channel)

Two bytes are available for each major and minor channel data, but usually the low byte is used alone (high byte is 0).

* Tune Command Examples:

1. Tune to the Analog cable (NTSC) channel 35.

Set ID = All = 00
 Data 00 = Channel Data is 35 = 23
 Data 01 & 02 = No Major = 00 00
 Data 03 & 04 = No Minor = 00 00
 Data 05 = Analog Cable TV = 01
 Total = **ma 00 23 00 00 00 01**

2. Tune to the digital antenna (ATSC) channel 30-3.

Set ID = All = 00
 Data 00 = Don't know Physical = 00
 Data 01 & 02 = Major is 30 = 00 1E
 Data 03 & 04 = Minor is 3 = 00 03
 Data 05 = Digital Antenna TV = 22
 Total = **ma 00 00 00 1E 00 03 22**

```
Ack [a][ ][Set ID][ ][OK][Data 00][Data 01]
[Data 02][Data 03][Data 04][Data 05]
[x][a][ ][Set ID][ ][NG][Data 00][x]
```

• For Japan Model

- To tune channel to following physical/major/minor number.

```
Transmission [m][a][ ][0][ ][Data00][ ][Data01]
[ ][Data02][ ][Data03][ ][Data04][ ][Data05][Cr]
```

* Digital Antenna/Satellite

Data 00: xx (Don't care)

[Data 01][Data 02]: Major Channel Number

Data 01: High byte Channel Data

Data 02: Low byte Channel Data

- 00 01 ~ 27 0F (Decimal: 1 ~ 9999)

[Data 03][Data 04]: Minor/Branch Channel Number
 (Don't care in Satellite)

Data 03: High byte Channel Data

Data 04: Low byte Channel Data

Data 05 : Input Source (Digital/Satellite for Japan)

- 02 : Antenna TV (DTV)
- 07 : BS (Broadcasting Satellite)
- 08 : CS1 (Communication Satellite 1)
- 09 : CS2 (Communication Satellite 2)

* Tune Command Examples:

- 1 Tune to the digital antenna (ISDB-T) channel 17-1.

Set ID = All = 00
 Data 00 = Don't know Physical = 00
 Data 01 & 02 = Major is 17 = 00 11
 Data 03 & 04 = Minor/Branch is 1 = 00 01

Data 05 = Digital Antenna TV = 02

Total = **ma 00 00 00 11 00 01 02**

2. Tune to the BS (ISDB-BS) channel 30.

Set ID = All = 00
 Data 00 = Don't know Physical = 00
 Data 01 & 02 = Major is 30 = 00 1E
 Data 03 & 04 = Don't Care = 00 00
 Data 05 = Digital BS TV = 07
 Total = **ma 00 00 00 1E 00 00 07**

* This feature is varied based on the model.

```
Ack [a][ ][Set ID][ ][OK][Data 00][Data 01]
[Data 02][Data 03][Data 04][Data 05]
[x][a][ ][Set ID][ ][NG][Data 00][x]
```

21. Channel(Programme) Add/Del(Skip)
 (Command: m b)

- To skip current channel(programme) for next time.

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

Data 00 : Del(ATSC,ISDB)/Skip(DVB) 01 : Add

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

* Set the saved channel status to del(ATSC, ISDB)/skip(DVB) or add.

22. Key (Command: m c)

- To send IR remote key code.

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

Data Key code - p.2.

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

23. Control Backlight (Command: m g)

• For LCD TV / LED TV

- To control the backlight.

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

Data Min : 00 to Max : 64

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

Control Panel Light (Command: m g)

• For Plasma TV

- To control the panel light.

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

Data Min : 00 to Max : 64

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

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

- To select input source for main picture.

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

Data

00 : DTV 01 : CADTV
02 : Satellite DTV 10 : ATV
 ISDB-BS (Japan)
03 : ISDB-CS1 (Japan)
04 : ISDB-CS2 (Japan)
11 : CATV

20 : AV or AV1 21 : AV2
40 : Component1 41 : Component2
60 : RGB

90 : HDMI1 91 : HDMI2
92 : HDMI3 93 : HDMI4

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

- * This function depends on model and signal.

25. 3D(Command: x t) (only 3D models) (Depending on model)

- To change 3D mode for TV.

Transmission [x][t][][Set ID][][Data 00][][Data 01]
[][Data 02][][Data 03][Cr]

- * (Depending on model)

Data Structure

[Data 00] 00 : 3D On
 01 : 3D Off
 02 : 3D to 2D
 03 : 2D to 3D

[Data 01] 00 : Top and Bottom
 01 : Side by Side
 02 : Check Board
 03 : Frame Sequential
 04 : Column interleaving
 05 : Row interleaving

[Data 02] 00 : Right to Left
 01 : Left to Right

[Data 03] 3D Effect(3D Depth): Min : 00 - Max : 14
 (*transmit by Hexadecimal code)

- * [Data 02], [Data 03] functions depend on model and signal.
- * If [Data 00] is 00 (3D On), [Data 03] has no meaning.
- * If [Data 00] is 01 (3D off) or 02 (3D to 2D), [Data 01], [Data 02] and [Data 03] have no meaning.
- * If [Data 00] is 03 (2D to 3D), [Data 01] and [Data 02] have no meaning.
- * If [Data 00] is 00 (3D On) or 03 (2D to 3D), [Data 03] works when 3D Mode (Genre) is manual only.
- * All 3D pattern options ([Data 01]) may not be available according to broadcasting/video signal.

[Data 00]	[Data 01]	[Data 02]	[Data 03]
-----------	-----------	-----------	-----------

00	O	O	O
01	X	X	X
02	X	X	X
03	X	O	O

X : don't care

Ack [t][][Set ID][][OK][Data00][Data01][Data02]
[Data03][x]
[t][][Set ID][][NG][Data00][x]

26. Extended 3D(Command: x v) (only 3D models) (Depending on model)

- To change 3D option for TV.

Transmission [x][v][][Set ID][][Data 00][][Data 01][Cr]

[Data 00] 3D option

00 : 3D Picture Correction
01 : 3D Depth (3D Mode is Manual Only)
02 : 3D Viewpoint
06 : 3D Color Correction
07 : 3D Sound Zooming
08 : Normal Image View
09 : 3D Mode (Genre)

[Data 01] It has own range for each 3D option determined by [Data 00].

1) When [Data 00] is 00
00 : Right to Left
01 : Left to Right

2) When [Data 00] is 01, 02
Data Min: 0 - Max: 14 (*transmit by Hexadecimal code)

Data value range(0 - 20) converts Viewpoint range (-10 - +10) automatically (Depending on model)

- * This option works when 3D Mode (Genre) is manual only.

3) When [Data 00] is 06, 07
00 : Off
01 : On

4) When [Data 00] is 08
00 : Revert to 3D video from 3D-to-2D converted 2D video
01 : Change 3D video to 2D video, except 2D-to-3D video

- * If conversion condition doesn't meet, command is treated as NG.

5) When [Data 00] is 09

00 : Standard 01 : Sport
02 : Cinema 03 : Extreme
04 : Manual 05 : Auto

Ack [v][][Set ID][][OK][Data00][Data01][x]
[v][][Set ID][][NG][Data00][x]

27. Auto Configure (Command: j u) (Depending on 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 : Run Auto Configure

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