

OWNER'S MANUAL

SET-TOP BOX

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

STB-6500-7A



Warning! Safety Instructions



CAUTION RISK OF FI FCTRIC SHOCK



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

DO NOT OPEN

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 Set-top box 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 Set-top box 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 Set-top box 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 Set-top box 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 Set-top box whilst the Power cord is plugged in.
- · Do not use a damaged or loosely fitting power cord.
- Be sure to grasp the plug when unplugging the power cord. Do not pull on the power cord to unplug the Set-top box.
- 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 Set-top box.
 Otherwise, the Set-top box 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.

- · Grounding (Except for devices which are not grounded.)
 - Set-top box 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 Set-top box 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 Set-top box).
- If you smell smoke or other odors coming from the Set-top box.
- When lightning storms or when unused for long periods of time.
 Even if the Set-top box is turned off by the remote control or power button, AC power source is still connected to the unit if it is not unplugged.
- Do not use high voltage electrical equipment near the Set-top box (e.g., a bug zapper). This may result in product malfunction.
- Do not attempt to modify this product in any way without written authorisation from LG Electronics. Accidental fire or electric shock can occur. Contact your local customer service for service or repair. Unauthorised modification could void the user's authority to operate this product.
- Use only an authorised 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 Set-top box with wet hands. If the power cord prongs are wet or covered with dust, dry the power plug completely or wipe dust off.

Batterie

- 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 Set-top boxs. Do not press or put stress on the front panel of the Set-top box. 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 Set-top box. Do not clean your Set-top box 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.

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.



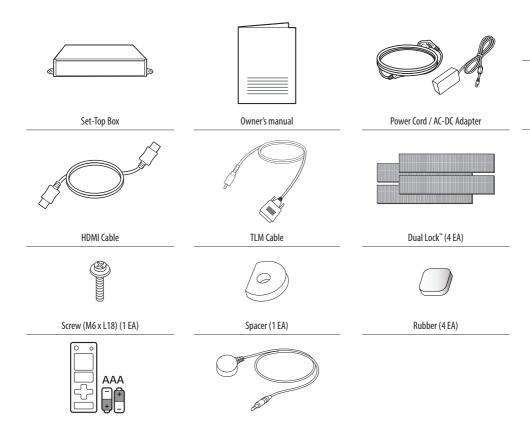
- Do not use any unapproved items to ensure the safety and product life span.
- Any damage or injuries caused by using unapproved items are not covered by the warranty.
- The items supplied with your product may vary depending on the model.
- · Product specifications or contents of this manual may be 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 Set-Top Box's USB port.
- When connecting two USB devices at the same time, each one should have bezels less than 8.5 mm thick.





- *A ≤ 10 mm
- *B ≤ 18 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 (3 m or less)
 - High Speed HDMI®/™ Cable
 - High Speed HDMI®/™ Cable with Ethernet



Separate purchase

Remote (1 EA)

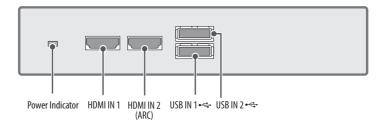
Separate purchase items can be changed or modified for quality improvement without any notification. Contact your dealer to buy these items. These devices only work with certain models. The model name or design may be changed depending on the upgrade of product functions, manufacturer's circumstances or policies.

IR Receiver (1 EA)

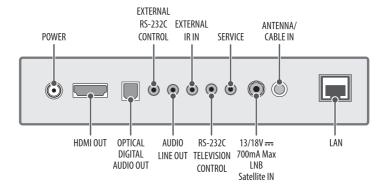
AN-MR18HA		
Magic Remote		

Parts and components

Front panel



Rear panel

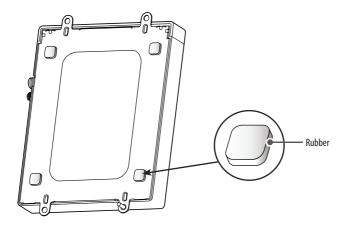


How to use rubber (optional)

(Image shown may differ from your product.)

Fix the rubber to the Set-Top Box and use it when you want to.

- 1 Attach the rubber to the bottom of the product as shown in the image.
- 2 Press firmly the whole part of Rubber to ensure firm fastening.



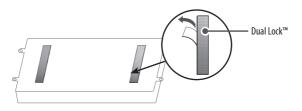
- · Doing so can prevent the product from sliding.
- If Set-Top Box is not a perfect fit on the rear side of your TV, please place and use it on a flat surface.
- · Please do not fix rubber with excessive force.
- Please make sure no foreign substances exist on the surface of the product, and then firmly attach the rubber.

How to use Dual Lock[™] (optional)

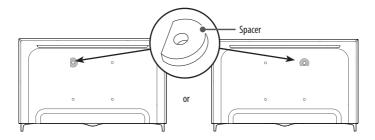
(Image shown may differ from your product.)

Fix the Set-Top Box to the TV and use it when you want to.

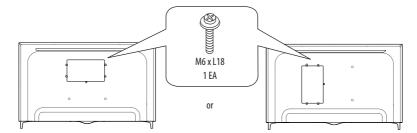
- 1 Attach the Dual Lock™ in pairs first. Press firmly the whole part of Dual Lock™ to ensure firm fastening of the protruding parts with each other.
- 2 After removing the protection paper from the one side of Dual Lock™, stick them to the back of Set-Top Box as shown.



3 After removing the protection paper from the spacer, stick it to a VESA screw hole on the back of the TV. (However, you can choose the location to attach the spacer randomly by considering the shape of the rear side of the TV and the attachment location of the Set-Top Box.)



4 After removing the protection paper from the Dual Lock™, stick Set-Top Box to the TV. Insert and tighten the screw on the hole with the spacer attached. (When tightening the screws, be sure not to over tighten them to avoid deformation of the spacer.)



- Do not mount by Dual Lock™ only without screw.
- If Set-Top Box is not a perfect fit on the rear side of your TV, please place and use it on a flat surface.
- Do not fasten the screw with excessive force.
- Please make sure no foreign substances exist on the surface of the product, and then firmly attach the Dual Lock™.
- Before attaching the Set-Top Box to the TV set, let the attached Dual Lock™ dry for at least three days.

Making connections

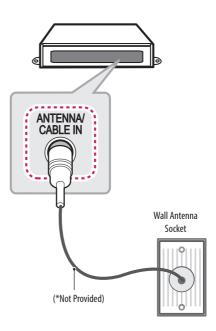
You can connect various external devices to the product. For more information on external device's connection, refer to the manual provided with each device.

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

- The external device connections shown may differ slightly from illustrations in this manual.
- Connect external devices to the Set-Top Box regardless about the order of the Set-Top Box port.
- Refer to the external equipment's manual for operating instructions.
- If you connect a gaming device to the Set-Top Box, use the cable supplied with the gaming device.
- · Using a DVI to HDMI cable may cause compatibility issues.

Antenna connection

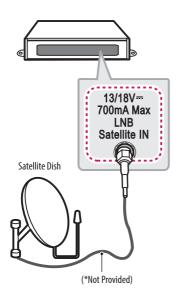
Connect the Set-Top Box to a wall antenna socket with an RF cable (75 Ω).



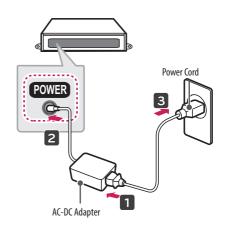
- Use a signal splitter to use more than 2 TVs.
- If the image quality is poor, install a signal amplifier properly to improve the image quality.
- If the image quality is poor with an antenna connected, try to realign the antenna in the correct direction.
- · An antenna cable and converter are not supplied.
- Supported DTV Audio: MPEG, Dolby Digital, Dolby Digital Plus, HE-AAC

Satellite dish connection

Connect the Set-Top Box to a satellite dish to a satellite socket with a satellite RF cable (75 Ω).



Adapter connection





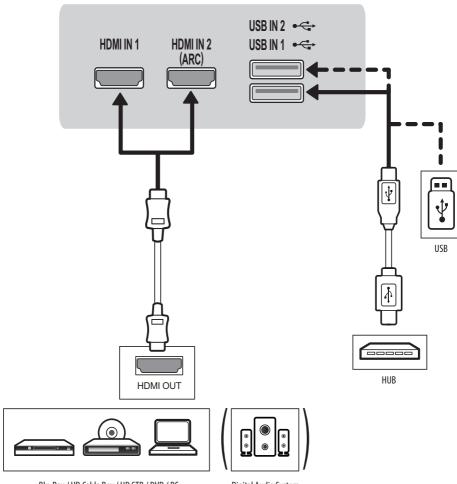
 Please be sure to connect the Set-Top Box to the AC-DC power adapter before connecting the Set-Top Box's power plug to a wall power outlet.

Other connections

Connect your Set-Top Box to external devices. For the best picture and audio quality, connect the external device using an HDMI cable as shown. Some separate cable is not provided.

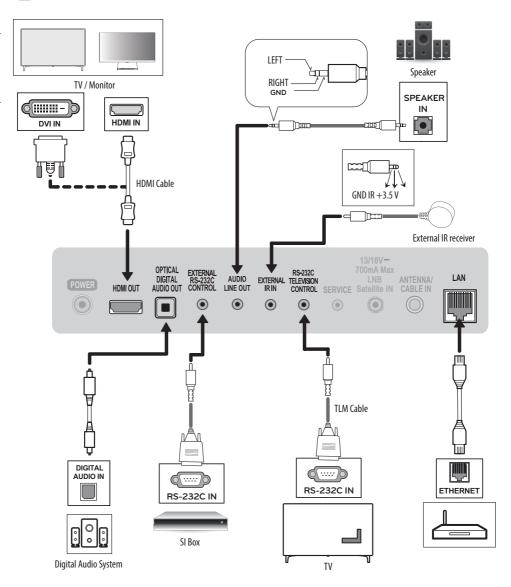
• Some USB Hubs may not work. If a USB device connected through a USB Hub is not detected, connect it directly to the USB port on the Set-Top

Front



Blu-Ray / HD Cable Box / HD STB / DVD / PC

Digital Audio System



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 \bigoplus and \bigoplus ends to the label inside the compartment, and close the battery cover. 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.)

- * To use the button, press and hold for more than 1 seconds.
- ** To use the button, press and hold for more than 3 seconds.
- *** To use the button, press and hold for more than 5 seconds. (Without facing the TV)

(POWER) Turns the TV on or off.

(INPUT) Changes the input source.

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

AD Audio descriptions function will be enabled. Recalls your preferred subtitle in digital mode.

Number buttons Enters numbers.

LIST Accesses the saved programmes list. Q.VIEW Returns to the previously viewed programme.

+ <>> − Adjusts the volume level.

*** (MUTE) Accesses the [Accessibility] menu.
(If [Audio Guidance] is off at this time, turn it on)

QUICK ACCESS **0*** Show the quick access.

1~9* Launch the app registered for each number.

SMART Accesses the Home menu.

You can watch TV. If you are watching TV, selects Radio, TV and DTV programme.

PORTAL Displays and removes hotel interactive

INFO Views the information of the current programme and screen.

(SETTINGS) Accesses the Settings menu.

TIMER Turns the TV off in a set amount of time.

 Selects menus or options and confirms your input.

Navigation buttons (up/down/left/right)

Scrolls through menus or options.

- ← (BACK) Returns to the previous level.
- (EXIT) Clears on-screen displays and returns to TV viewing.
- Q (SEARCH) Show the search page. (Depending on model)

ALARM Sets the alarm function.

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.
- The product's internal and external batteries should not be exposed to excessive heat such as direct sunlight, fire, or the like.

Licenses

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

Manufactured under license from Dolby Laboratories. Dolby, Dolby Vision, Dolby Vision IQ, Dolby Audio, Dolby Atmos, and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.



The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.



Open Source Software Notice Information

To obtain the source code that is contained in this product, under GPL, LGPL, MPL, and other open source licenses that have the obligation to disclose source code, and to access all referred license terms, copyright notices and other relevant documents, please visit https://opensource.lge.com.

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 <code>opensource@lge.com</code>.

This offer is valid to anyone in receipt of this information for a period of three years after our last shipment of this product.

Maintenance

Cleaning your Set-Top Box

Clean your Set-Top Box regularly to keep the best performance and to extend the product lifespan.

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.

Remove the accumulated dust or dirt on the AC-DC adapter regularly.



- · Make sure to turn the power off and disconnect the power cord and all other cables first.
- When the Set-Top Box 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.
- 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 Set-Top Box, it may result in fire, electric shock, or malfunction.

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 Set- Top Box with the remote control.		
Set-Top Box does not output any video or audio.	 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 Set-Top Box turns off suddenly.	Check the power control settings. The power supply may be interrupted.	
When connecting to the PC (HDMI), 'No signal' or 'Invalid Format' is displayed.	 Turn the Set-Top Box off/on using the remote control. Reconnect the HDMI cable. Restart the PC with the Set-Top Box on. 	

How to disconnect the wireless network connection or the wireless device

Turn off the unit.

Specifications

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

MODEL	STB-6500-ZA
Dimensions (W x H x D) (mm)	233 x 29.8 x 180.5
Weight (kg)	0.72
Power requirement	19 V 2.7 A
Power consumption	Networked standby : 1.3 W (If all network ports are activated.)
AC-DC Adapter	Manufacturer : APD / Model : DA-65F19 Manufacturer : CHICONY ELECTRONICS CO., LTD / Model : A16-065N4A
	Input : AC 100 – 240 V ~ 50/60 Hz Output : DC 19 V === 3.42 A

Wireless module (LGSBWAC92) specifications			
Wireless LAN (IEEE 802.11a/b/g/n/ac)			
Output Power (Max.)			
18 dBm			
18 dBm			
12 dBm			
Bluetooth			
Output Power (Max.)			
8 dBm			

As band channels can vary per country, the user cannot change or adjust the operating frequency. This product is configured for the regional frequency table.

For consideration of the user, this device should be installed and operated with a minimum distance of 20 cm between the device and the body.

* IEEE 802.11ac is not available in all countries.

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 %

(Depending on country)

	Digital TV		Analogue TV	
Television system	DVB-S/S2 ¹ DVB-T/T2 ¹ DVB-C ¹		PAL/SECAM B/G, D/K, I SECAM L	
	DVB-S/S2 ¹ DVB-C ¹ DVB-T/T2 ¹		DVB-T/T2 ¹	
Channel coverage (Band)	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	46 ~ 862 MHz
Maximum number of storable programmes	6,000	6,000 3,000 75 Ω		
External antenna impedance				

¹ Only DVB-T2/C/S2 support model only.

HDMI-DTV supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
	31.46	59.94
640 x 480p	31.50	60.00
	31.47	59.94
720 x 480p	31.50	60.00
720 x 576p	31.25	50.00
	44.96	59.94
1280 x 720p	45.00	60.00
·	37.50	50.00
	28.12	50.00
1920 x 1080i	33.72	59.94
	33.75	60.00
	26.97	23.97
	27.00	24.00
	33.71	29.97
1920 x 1080p	33.75	30.00
	56.25	50.00
	67.43	59.94
	67.50	60.00
	112.50	100.00
1920 x 1080p	134.86	119.88
	135.00	120.00
	53.95	23.98
	54.00	24.00
	56.25	25.00
3840 x 2160p	67.43	29.97
3040 X 2100p	67.50	30.00
	112.50	50.00
	134.86	59.94
	135.00	60.00
	53.95	23.98
	54.00	24.00
	56.25	25.00
4096 x 2160p	67.43	29.97
1030 X 2 100p	67.50	30.00
	112.50	50.00
	134.86	59.94
	135.00	60.00

HDMI-PC supported Mode

- PC audio is not supported.
- Use HDMI IN 1 for PC mode. (Depending on model)

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
1024 x 768	48.36	60.00
1360 x 768	47.71	60.01
1152 x 864	54.34	60.05
1280 x 1024	63.98	60.02
	67.50	60.00
1920 x 1080	134.86	119.88
	135.00	120.00
2560 x 1440	88.78	59.95
	53.95	23.98
	54.00	24.00
	56.25	25.00
2040 2460	67.43	29.97
3840 x 2160	67.50	30.00
	112.50	50.00
	134.86	59.94
	135.00	60.00
	53.95	23.98
	54.00	24.00
	56.25	25.00
4006 2162	67.43	29.97
4096 x 2160	67.50	30.00
	112.50	50.00
	134.86	59.94
	135.00	60.00

Supported Photo Formats

File Format	Format	Resolution
.jpeg, .jpg, .jpe	JPEG	Minimum: 64 (W) x 64 (H) Maximum (Normal Type): 15360 (W) x 8640 (H) Maximum (Progressive Type): 1920 (W) x 1440 (H)
.png	PNG	Minimum: 64 (W) x 64 (H) Maximum: 5760 (W) x 5760 (H)
.bmp	ВМР	Minimum: 64 (W) x 64 (H) Maximum: 1920 (W) x 1080 (H)

Supported Audio Formats

File Format	Item	Info
	Bit rate	32 kbps - 320 kbps
	Sample freq.	16 kHz - 48 kHz
.mp3	Support	MPEG1, MPEG2
	Channels	mono, stereo
	Bit rate	-
	Sample freq.	8 kHz - 96 kHz
.wav	Support	PCM
	Channels	mono, stereo
	Bit rate	64 kbps - 320 kbps
	Sample freq.	8 kHz - 48 kHz
.ogg	Support	Vorbis
	Channels	mono, stereo
	Bit rate	128 kbps - 320 kbps
	Sample freq.	8 kHz - 48 kHz
.wma	Support	WMA
	Channels	up to 6 ch
	Bit rate	-
flac	Sample freq.	8 kHz - 96 kHz
.TIAC	Support	FLAC
	Channels	mono, stereo

[•] The number of supported programmes may vary depending on the sample frequency.

Supported Video Formats

Extension	Codec	
.asf	Video	VC-1 Advanced Profile (except for WMVA), VC-1 Simple and Main Profiles
.wmv	Audio	WMA Standard (except for WMA v1/ WMA Speech)
	Video	Xvid (GMC is not supported), H.264/AVC, Motion Jpeg, MPEG-4
.avi	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3), Dolby Digital, LPCM, ADPCM
.mp4	Video	H.264/AVC, MPEG-4, HEVC, AV1
.m4v .mov	Audio	Dolby Digital, Dolby Digital Plus, AAC, MPEG-1 Layer III (MP3), Dolby AC-4
.3gp	Video	H.264/AVC, MPEG-4
.3g2	Audio	AAC, AMR-NB, AMR-WB
	Video	MPEG-2, MPEG-4, H.264/AVC, VP8, VP9, HEVC, AV1
.mkv	Audio	Dolby Digital, Dolby Digital Plus, AAC, PCM, MPEG-1 Layer I, II, MPEG-1 Layer III (MP3)
.ts	Video	H.264/AVC, MPEG-2, HEVC
.trp .tp .mts	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3), Dolby Digital, Dolby Digital Plus, AAC, PCM, Dolby AC-4
.mpg	Video	MPEG-1, MPEG-2
.mpeg .dat	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3)
	Video	MPEG-1, MPEG-2
.vob	Audio	Dolby Digital, MPEG-1 Layer I, II, DVD-LPCM

Cautions for Video Playback

- ULTRA HD Video: 3840 x 2160, 4096 x 2160
- Some HEVC encoded ULTRA HD videos other than the content officially provided by LG Electronics may not be played.
- Some codecs can be supported after a software upgrade.

Extension	Codec	
.mkv	Video	H.264/AVC, HEVC
.mp4 .ts	Audio	Dolby Digital, Dolby Digital Plus, AAC

Supported External Subtitles

Subtitle	Format
External Subtitle	*.smi, *.srt, *.sub (MicroDVD, SubViewer 1.0/2.0), *.ass, *.ssa, *.txt (TMPlayer), *.psb (PowerDivX), *.dcs (DLP Cinema)
Embedded Subtitle	Matroska(mkv): Sub Station Alpha (SSA), Advanced Sub Station Alpha (ASS), SRT MP4: Timed Text



Record the model number and serial number of the Set-Top Box.

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

MODEL .	
SERIAL NO.	