ENGLISH

OWNER'S MANUAL

LG Digital Signage

(MONITOR)

Please read the user manual before using this product to ensure safe and convenient use.

65TR3BQ-B	65TR3BQ-I
75TR3BQ-B	75TR3BQ-I
86TR3BQ-B	86TR3BQ-I

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WARNING - This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

Getting to Know the Product

Checking Components

An electronic blackboard is a display product that can be used by touching the screen. A touch pen, remote control and others are provided with the product. If any of the listed components are missing, contact customer support. LG Electronics also sells optional components that can help you use the product more effectively as separate purchases.

Product specifications or components may change without prior notice according to the quality improvements or feature upgrades.

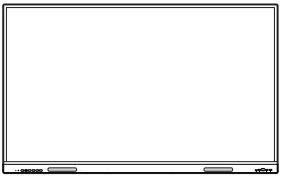
Caution

- To ensure user safety and product longevity, do not use counterfeit products. If the product is damaged as a result of using counterfeits, the warranty does not apply. In such cases, the user cannot be compensated even if injured.
- If the product is used in an environment with excessive dust, the warranty does not apply.

Note

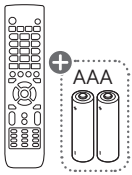
- Remove all tapes attached to the front before connecting the product to power.
- Cables used when connecting to external devices must be purchased separately.
- Keep the product box and do not discard it. It can be used when moving the product.

Checking Components



Electronic blackboard

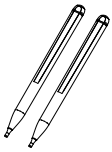
User manual and warranty



Remote control and batteries (AAA, 2 pieces)

Power cable

TOUCH cable



Touch pens (2 each)

Note

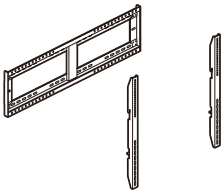
- ⊕ : Availability may vary depending on your geographic location.
- The components provided in the box may vary depending on the region and model.
- Component images shown in the user manual are for the user's understanding and may differ from actual components.

Checking Optional Components

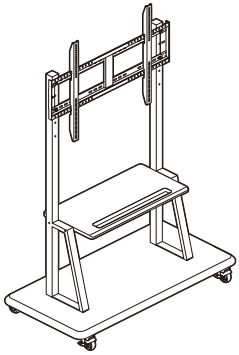
Optional components may change without prior notice to improve product performance. New components may be added.

Note

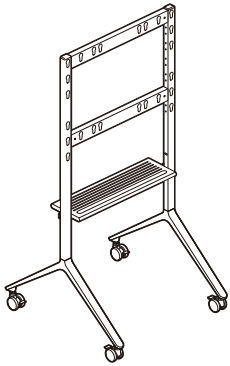
- All optional components are separate purchases. Contact LG Electronics if you wish to purchase them.
- Component images shown in the user manual are for the user's understanding and may differ from actual components.



Wall Mount Holder (WM-L000S)



Floor stand (ST-000F)



Universal stand (ST-860F)

HDMI cable

USB Type-C cable

Installing the Product

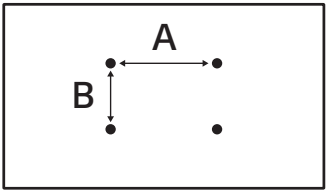
Installing on Wall

The electronic blackboard can be used in a wall-mounted format by securing it to a wall. To install it on a wall, first attach a wall mount support (optional) to the back of the product body.

The wall mount support is a separate purchase and can be purchased from a nearby dealer. For more information on installing a wall mount support, see the installation guide provided with your wall mount support purchase.

Checking Wall Mount Support Specifications

When installing a wall mount support, you must use screws and brackets that comply with VESA (Video Electronics Standards Association) standard specifications.



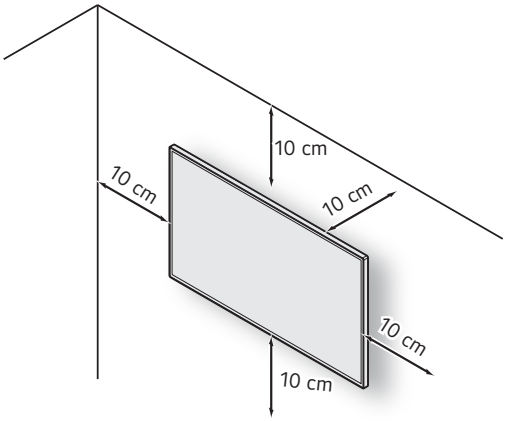
Model Name	VESA Dimensions (A x B) (mm)	Screw Specifications	Maximum Length (mm)	Quantity
65TR3BQ-B 65TR3BQ-I	600 x 400	M8	25	4
75TR3BQ-B 75TR3BQ-I	800 x 400	M8	25	4
86TR3BQ-B 86TR3BQ-I	800 x 600	M8	25	4

Caution

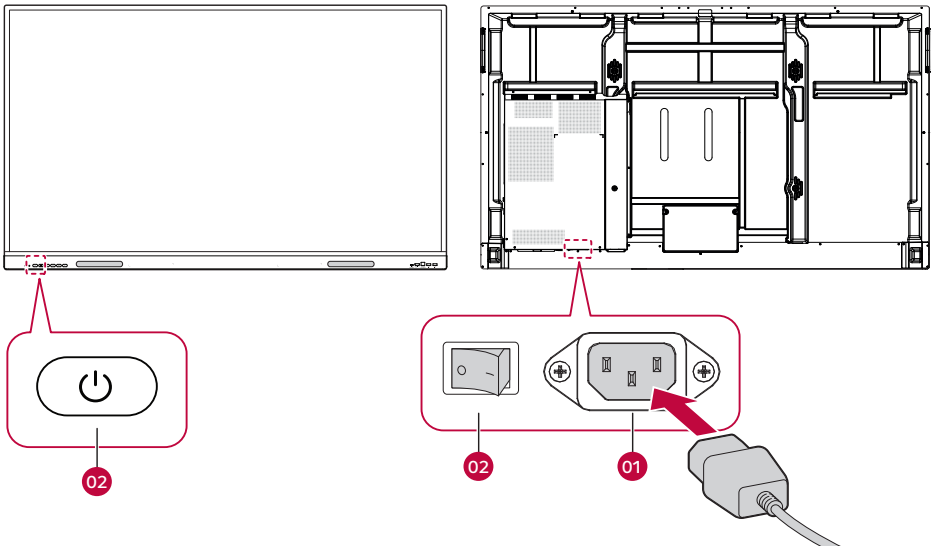
- Disconnect the power cord first before moving or installing the product. There is risk of electric shock.
- Do not install the product on a ceiling or sloped wall. There is a risk of falling and injury.
- If you tighten the screws too tightly and damage the product, the warranty may not apply.
- Use screws and brackets for wall mounting that meet the VESA standard specifications. The warranty does not apply to the breakage or personal injury due to the use of incorrect components.
- Using screws longer than VESA standard specifications when installing a wall mount support may damage the interior of the product. In such cases, we do not take responsibility for any damage or issues that may arise with the product.

Installing the Product

Allow at least 10 cm of clearance from the wall for ventilation, and install the product with care to prevent it from falling. When purchasing a wall mount support, the installation guide and all necessary parts are included. A wall mount support can be purchased separately from a nearby dealer.



Connecting to Power



1 Connect the power cable provided as a component to the power terminal at the bottom of the product.

2 Press the power switch on the front of the product or next to the power terminal to turn the power on.

Note

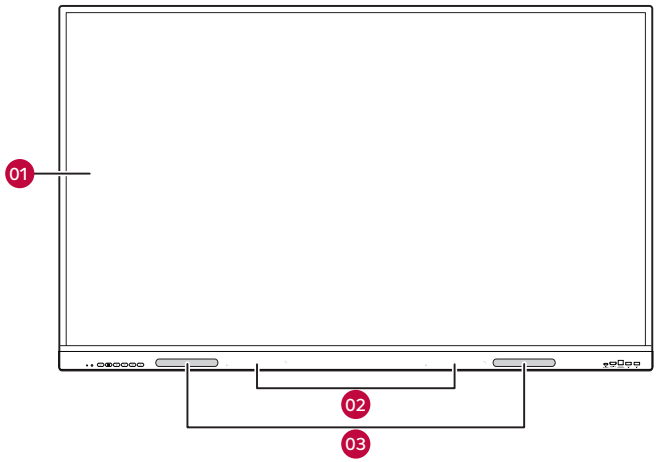
- The screen may flicker if the product is turned on when it is cold. This is normal, so there is no need to worry.

No.	Name	Explanation
01	**Power Cable Terminal**	Connects the power cord.
02	**Power switch**	Turns the power on or off. - "I" means power on, and "O" means power off.

Exploring the Product

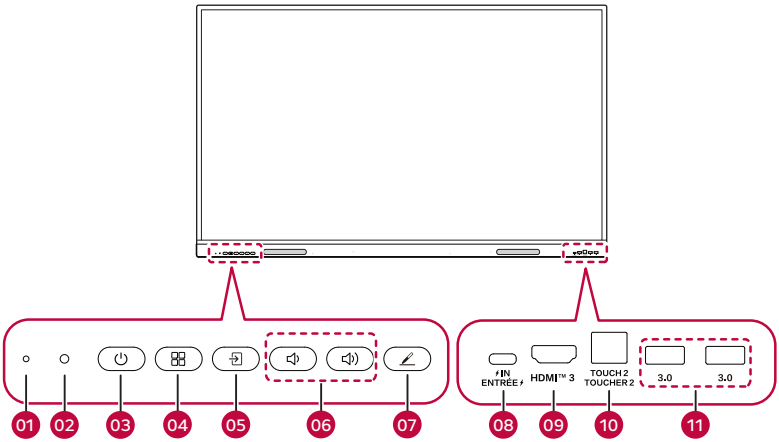
* The illustrations may differ depending on the model.
* Check the location and function of the input/output terminals for connecting external devices to the electronic blackboard.

Front Part



No.	Name	Explanation
01	**Touch screen**	Screen that displays the contents of the electronic blackboard and can be operated by touching it with your hand or with a touch pen.
02	**Touch Pen Holder**	Holds a touch pen by attaching it magnetically.
03	**Speaker**	Outputs the sound.

Front Cable Terminal

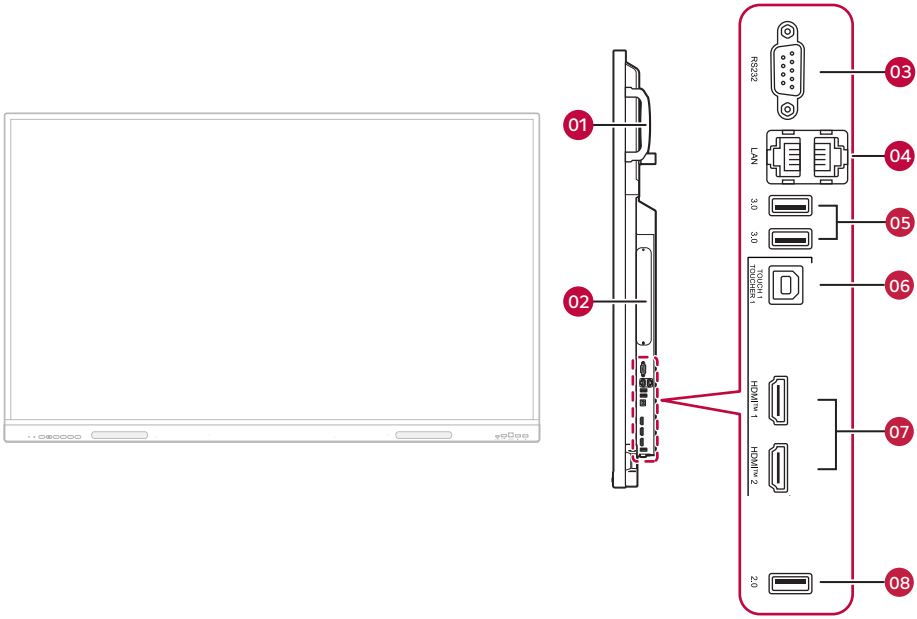


No.	Name	Explanation
01	**Light sensor**	Sense ambient light to adjust backlight for appropriate brightness, it can be switched in the menu.
02	**Remote control signal receiver**	Receive remote control signal.
03	⏻	**(Power)** Turns the power on or off.
04	⊞	**(Menu)** Bring up the bottom navigation bar.
05	⇥	**(Input)** Changes the input source.
06	🔈 / 🔊	**(Volume Down/Up Button)** Adjusts the volume level.
07	✎	**(Mark)** Use the annotation function when the screen is fixed. - Long press and hold: Use the screenshot function.

No.	Name	Explanation
08	⚡ IN	**(USB Type-C)** Used to connect external devices with a USB Type-C cable. Supports charging, data transfer, audio and video output interface expansion, etc.
09	HDMI™ 3	Used to connect external devices with a HDMI cable.
10	TOUCH 2	Used for touch control of the PC screen input through the HDMI 2 terminal. Used to connect the electronic blackboard's TOUCH 2 terminal and PC with a TOUCH cable.
11	3.0	**(USB 3.0)** Used for data transfer or connecting USB devices such as a mouse or keyboard with a USB cable.

Side Part

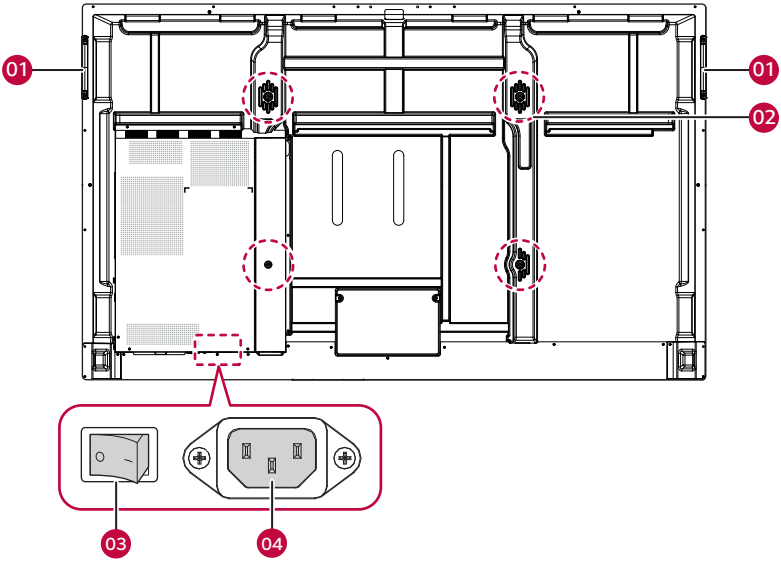
Side Cable Terminal



No.	Name	Explanation
01	**Handle for Transportation**	Used for moving the electronic blackboard. (May vary for different models.)
02	**Built-in PC (OPS) Slot**	Inserts the built-in PC (OPS).

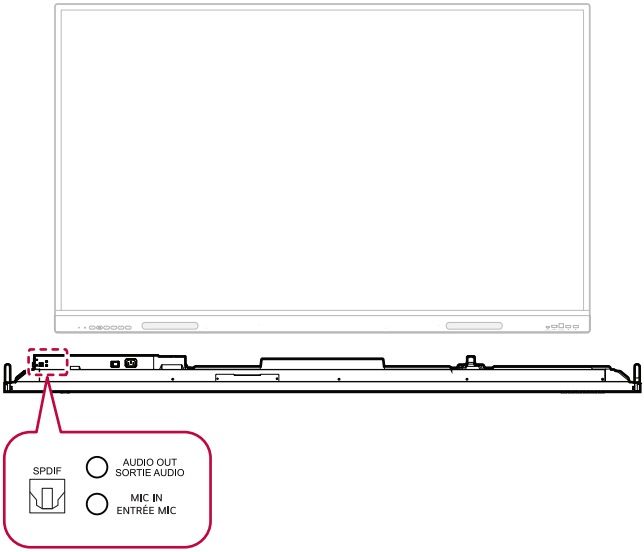
No.	Name	Explanation
03	RS232	Used to connect an RS232 cable.
04	LAN	Used for wired internet connection.
05	3.0	**(USB 3.0)** Used for data transfer or connecting USB devices such as a mouse or keyboard with a USB cable.
06	TOUCH 1	Used for touch control of the PC screen input through the HDMI 1 terminal. Used to connect the TOUCH 1 terminal and PC with a TOUCH cable.
07	HDMI™ 1/2	Used to connect external devices with a HDMI cable.
08	2.0	**(USB 2.0)** Used for data transfer or connecting USB devices such as a mouse or keyboard with a USB cable.

Back Part



No.	Name	Explanation
01	**Handle for Transportation**	Used for moving the electronic blackboard. (May vary for different models.)
02	**Screw Holes**	Used for mounting the electronic blackboard on a stand or installing it on a wall with a wall mount.
03	**Power switch**	Turns the power on or off. - "I" means power on, and "O" means power off.
04	**Power Cable Terminal**	Connects the power cord.

Bottom Cable Terminal



No.	Name	Explanation
01	SPDIF	Used to output audio to an external device using an SPDIF cable.
02	AUDIO OUT	Used to output audio to an external device.
03	MIC IN	Used to connect a microphone equipment/audio in source.

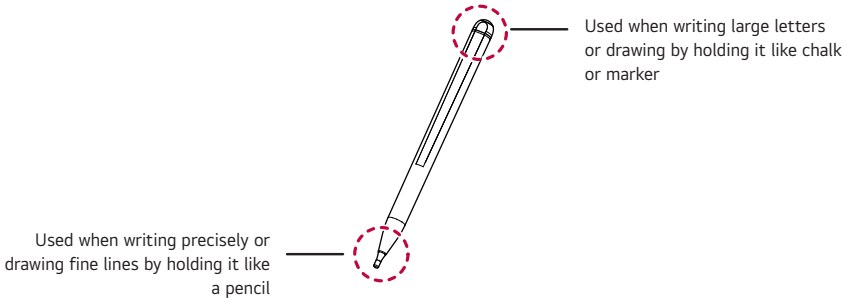
Using the Touch Pen

The touch pen can be used for various purposes, such as touching the screen to launch menus or to take notes, annotate, and draw on data.

Getting to Know the Touch Pen Functions

Two pens can be used simultaneously to write or draw together. Different colours can be assigned to each pen.

A pen has a 3 mm and 9 mm tip at each end, allowing you to use two modes separately with one pen.

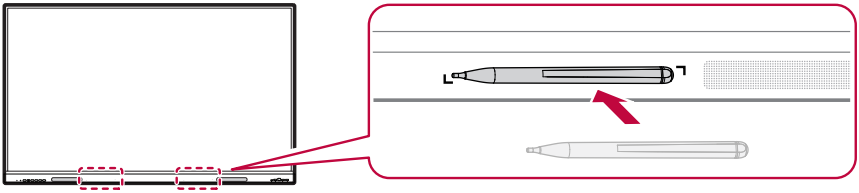


Note

- If you press the pen on the screen for about 2 seconds and release it after you open a built-in PC (OPS), PDF viewer, or Word document, the same pop-up menu as when you right-click on the mouse will appear.

Storing the Pen

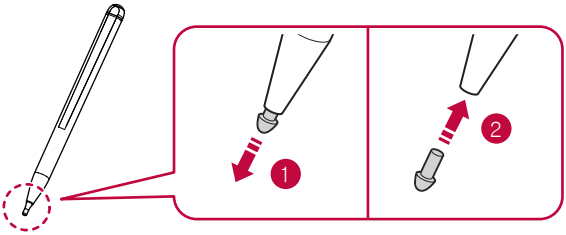
The touch pen can be attached to the magnetic touch pen holder to keep it in place, so you don't lose it.



Replacing the Pen Tip (Optional Components)

If the touch pen tip is worn or damaged, it must be replaced with a new tip.

1 Remove the old tip by pulling on the end with tools such as tweezers.
2 Slide the new tip into the pen body.



Note

- To purchase additional touch pens or spare tips, contact LG Electronics.

Precautions for Use

Glass Breakage

- Although the screen of this product is made of tempered glass, it may still break as a result of abnormal impact or sudden temperature changes. Spontaneous breakage may also occur during use due to microscopic impurities or flaws in the glass. Always wear protective gear when installing or handling the product, as sharp fragments may be generated if the product is damaged. If damage occurs during use, move everyone nearby to a safe distance immediately to avoid injury from flying fragments.

Dust

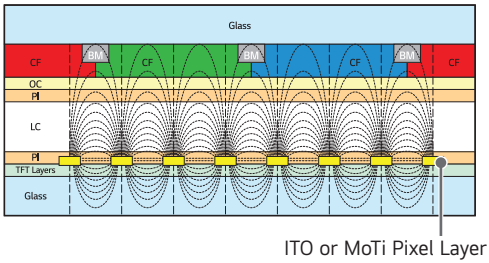
The warranty will not cover any damage caused by using the product in an excessively dusty environment.

Afterimage

- After-image appears when the product is turned off.
  - Pixels may be damaged rapidly if a still image is displayed on the screen for a long period of time. Use the screen-saver function.
  - Switching from a screen with high differences in luminance (black and white or grey) to a darker screen may cause an afterimage. This is normal due to the display characteristics of this product.
- When the LCD screen is in a still pattern for extended periods of use, a slight voltage difference may occur between the electrodes that operate the liquid crystal (LC). The voltage difference between the electrodes increases over time and tends to keep the liquid crystal aligned in one direction. At this time, the previous image remains, which is called an afterimage.
- Afterimages do not occur when continuously changing images are used but take place when a certain screen is fixed for a long time. The following are operational recommendations for reducing the occurrence of afterimages when using a fixed screen. The maximum recommended time for switching the screen is 12 hours. Shorter cycles are better for preventing afterimages.

Recommended Usage Condition

1 Change the background colour and text colour at equal intervals.
- Afterimages occur less when the colours to be changed are complementary to one another.



2 Switch the screen at equal time intervals.
- Take caution, and ensure that text or images from before the screen change are not left in the same location after the screen change.

Product Specifications

Without prior notice, all product information and specifications contained in this manual are subject to change to improve the performance of the product.

The ~ symbol means alternating current, and the symbol ⎓ means direct current.

Input/Output Ports	ϟ IN, TOUCH 1/2, 2.0, 3.0, HDMI™ 1/2/3, SPDIF, MIC IN, AUDIO OUT, LAN, RS232, OPS	
Embedded Battery	Not Applied	
Resolution	HDMI1 / HDMI2 / HDMI3: 3840 x 2160 @ 60 Hz - This may not be supported on some OS or graphics card types.	
Environmental Conditions	Operating Temperature	0 °C to 40 °C
	Operating Humidity	10 % to 90 % (Condition for preventing condensation)
	Storage Temperature	-20 °C to 60 °C
	Storage Humidity	10 % to 90 % (Condition for preventing condensation) * Product box packaging storage conditions

Note

- The maximum power rating of the USB Type-C port installed on this product is 65 W. When using this port to charge electronic devices, the charging power of the electronic device should not exceed the power rating of the port. If the charging power of the electronic device exceeds the charging power rating of the port, do not charge it directly using this port.
- Use a certified USB-C cable. (1.8 M or less) If you do not do so, the screen may not be displayed or a connection error may occur.
- USB-C ports do not support DPM (Sleep mode).

Touch screen

OS	Windows 10 / Windows 8 / Windows 7 / Android / Linux / macOS (Linux / macOS are supported with the 1 Point touch function.)	40 Points
	Chrome OS	16 Points
	Spacing between touches: at least 25 mm	

Speaker

* Applicable only to speaker-supporting models.

Audio	RMS audio output	2 x 16 W (80 % ~ 100 %)
	Input Sensitivity	0.5 Vrms
	Speaker impedance	6 Ω

Specifications by Model

65TR3BQ-B 65TR3BQ-I		
Power	Power Voltage	100-240 V~ 50/60 Hz 3.5 A
Dimensions (Width x Height x Depth) / Weight	1491 mm x 898.5 mm x 98 mm / 32.1 kg	

75TR3BQ-B 75TR3BQ-I		
Power	Power Voltage	100-240 V~ 50/60 Hz 4.0 A
Dimensions (Width x Height x Depth) / Weight	1712 mm x 1022 mm x 98 mm / 42.8 kg	

86TR3BQ-B 86TR3BQ-I		
Power	Power Voltage	100-240 V~ 50/60 Hz 4.5 A
Dimensions (Width x Height x Depth) / Weight	1957 mm x 1160 mm x 97 mm / 51 kg	

Resolution

Note

- Vertical Frequency: The monitor screen functions by the screen image changing dozens of times every second like a fluorescent lamp. The vertical frequency or refresh rate is the number of image displays per second. The unit is Hz.
- Horizontal Frequency: The horizontal interval is the time taken to display one horizontal line. When one is divided by the horizontal interval, the number of horizontal lines displayed every second is the horizontal frequency. The unit is kHz.

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	HDMI	USB Type-C
640 x 480 / 60 Hz	31.469	59.94	O	O
800 x 600 / 56 Hz	35.156	56.25	O	O
800 x 600 / 60 Hz	37.879	60.32	O	O
1024 x 768 / 60 Hz	48.363	60.00	O	O
1280 x 800 / 60 Hz	49.702	59.81	O	O
1280 x 1024 / 60 Hz	63.981	60.02	O	O
1360 x 768 / 60 Hz	47.712	60.02	O	O
1680 x 1050 / 60 Hz	65.290	59.95	O	O
1920 x 1080 / 60 Hz	67.500	60.00	O	O
2560 x 1440 / 60 Hz	88.787	59.95	O	O
480p / 60 Hz	31.500	60.00	O	O
576p / 50 Hz	31.250	50.00	O	O
720p / 50 Hz	37.500	50.00	O	O
720p / 60 Hz	60.00	60.00	O	O

Resolution

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	HDMI	USB Type-C
1080p / 23 Hz	26.973	23.98	O	O
1080p / 24 Hz	27.000	24.00	O	O
1080p / 25 Hz	28.125	25.00	O	O
1080p / 29 Hz	33.716	29.97	O	O
1080p / 30 Hz	33.750	35.00	O	O
1080p / 50 Hz	56.250	50.00	O	O
1080p / 60 Hz	67.500	60.00	O	O
720 (1440) x 480i / 60 Hz	15.734	59.94	O	-
720 (1440) x 576i / 50 Hz	15.625	50.00	O	-
1080i / 50 Hz	28.125	50.00	O	-
1080i / 60 Hz	33.750	60.00	O	-
3840 x 2160 / 24 Hz	54.000	23.98	O	O
3840 x 2160 / 25 Hz	56.250	25.00	O	O
3840 x 2160 / 30 Hz	67.500	29.97	O	O
3840 x 2160 / 50 Hz	112.500	50.00	O	O
3840 x 2160 / 60 Hz	135.000	59.94	O	O

Licence

Supported licenses may differ by model. Visit *www.lg.com* for more information on licenses.

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

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The model and serial number of the product are located on the back and on one side of the product. Record them below in case you ever need service.

MODEL

SERIAL NO.

Temporary noise is normal when powering ON or OFF this device.