



OWNER'S MANUAL

LG Digital Signage (MONITOR SIGNAGE)

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

55TR3DK-B	55TR3DK-I	55TR3DK-E
65TR3DK-B	65TR3DK-I	65TR3DK-E
75TR3DK-B	75TR3DK-I	75TR3DK-E
86TR3DK-B	86TR3DK-I	86TR3DK-E

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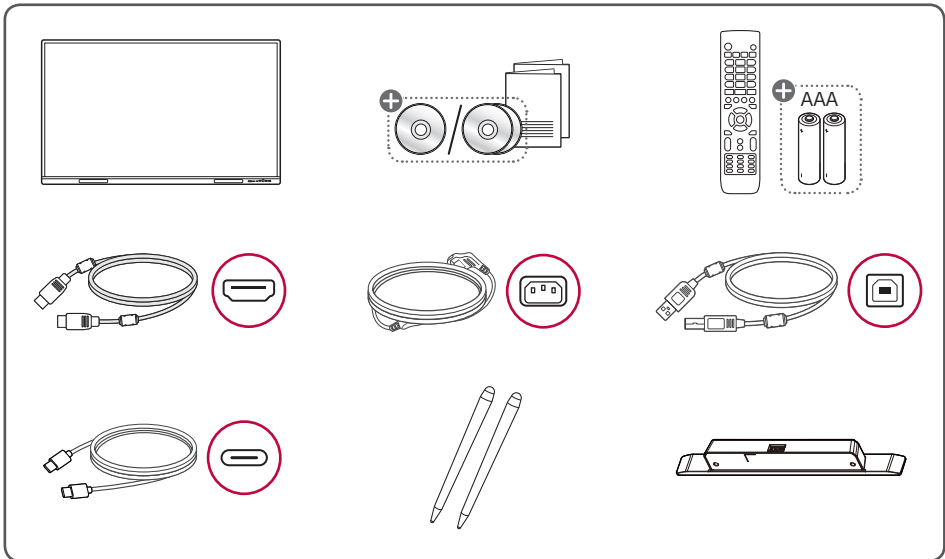
Warning: This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

BASIC

! NOTE

- The accessories provided with your product may vary depending on the model or region.
- Product specifications or contents in this manual may be changed without prior notice due to upgrade of product functions.

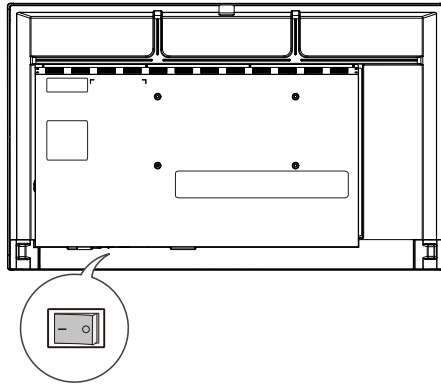
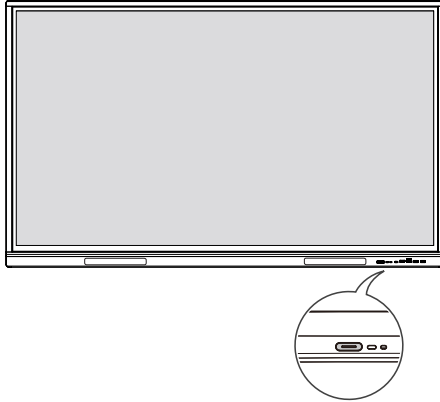
Checking the Accessories





+ Depending on country

Learning the Buttons

The image may be different according to the model.



	Power	Turns the power on or off.
		

GETTING READY

CAUTION

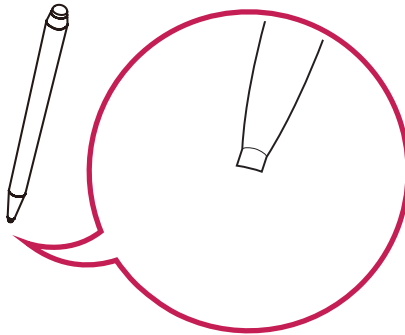
- Always use genuine components to ensure safety and product performance.
- The product warranty will not cover damage or injury caused by the use of counterfeit components.

NOTE

- The accessories provided with your product may vary depending on the model or region.
- Product specifications or contents in this manual may be changed without prior notice due to upgrade of product functions.

Precaution When Using the Touch Pen

When the touch pen is worn as shown in the figure, replace it.

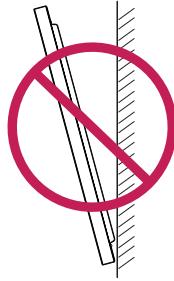


CHECKING BEFORE INSTALLATION

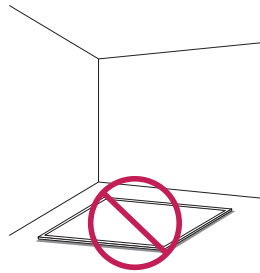
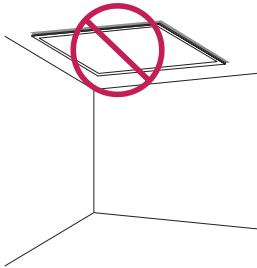
We are not responsible for product damage caused by failure to follow the guide.

Installation Orientation

Tilt Angle



Ceiling, Floor Orientation

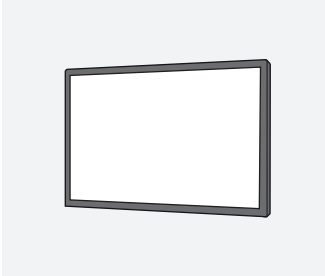


Installation Location

We are not responsible for product damage caused by failure to follow the guide.

Indoor

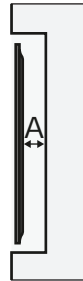
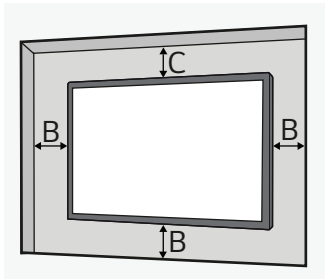
Installing on a Wall



A: 100 mm (3.9 inches) or more

- The warranty will not cover any damage caused by using the product in direct sunlight on the front panel.

Installing on a Recessed Wall



A: 100 mm (3.9 inches) or more

B: 100 mm (3.9 inches) or more

C: 100 mm (3.9 inches) or more

- The warranty will not cover any damage caused by using the product in direct sunlight on the front panel.

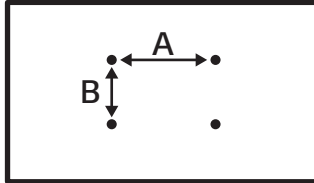
Outdoor

Outdoor Enclosed



Wall Mount Holder

To install the monitor on a wall, attach a wall mount holder (optional) to the back of the monitor. Take caution, and ensure that the wall mount holder (optional) is securely fixed to the monitor and to the wall. The VESA dimensions of the wall mount by model are as follows.



Model	VESA Dimensions (A x B) (mm)	Standard Dimensions	Length (Maximum) (mm)	Quantity
	VESA Dimensions (A x B) (inches)		Length (Maximum) (inches)	
55TR3DK-B 55TR3DK-I 55TR3DK-E	400 x 200 15.7 x 7.8	M8	25 0.9	4
65TR3DK-B 65TR3DK-I 65TR3DK-E	600 x 400 23.6 x 15.7	M8	25 0.9	4
75TR3DK-B 75TR3DK-I 75TR3DK-E	800 x 400 31.4 x 15.7	M8	25 0.9	4
86TR3DK-B 86TR3DK-I 86TR3DK-E	800 x 600 31.4 x 23.6	M8	25 0.9	4

CAUTION

- Disconnect the power cord first, and then move or install the monitor. Otherwise, it may result in electric shock.
- If the monitor is installed on a ceiling or inclined wall, it may fall and result in injury.
- Damage to the monitor by tightening the screws too tightly may void your warranty.
- Use screws and wall mount plates conforming to VESA standards. Breakage or personal injury due to use or misuse of inappropriate components is not covered by the warranty of this product.

NOTE

- Using screws longer than the indicated depth may damage the inside of the product. Be sure to use the proper length.
- For more information on installation, please refer to the user manual for the wall mount.

PRECAUTIONS FOR USE

Dust

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

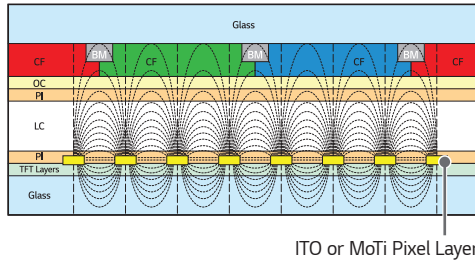
Afterimage

- 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 color and text color at equal intervals.

- Afterimages occur less when the colors 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

The product specifications below may be changed without prior notice due to upgrade of product functions.
 “~” refers to alternating current (AC), and “—” refers to direct current (DC).

Input/ Output ports	HDMI IN 1, HDMI IN 2, HDMI IN 3, VGA IN, USB 3.0 IN, USB 2.0 IN, LAN, AUDIO IN/OUT, RS-232C IN, TOUCH USB, OPS, SPDIF, HDMI OUT, USB 3.1 IN (USB Type-C)	
Embedded battery	Applied	
Resolution	Recommended Resolution	VGA: 1920 x 1080 @ 60 Hz
	Maximum Resolution	HDMI1/ HDMI2/ HDMI3: 3840 x 2160 @ 60 Hz - This may not be supported on some OS or graphic card types.
Environmental Conditions	Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
	Operating Humidity	10 % to 90 % (Condition for preventing condensation)
	Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
	Storage Humidity	10 % to 90 % (Condition for preventing condensation) * Product box packaging storage conditions

* Touch Screen

OS (Operating System)	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
	Space between touches: at least 25 mm (0.9 inches) or more	

* Applicable only for models that support the speakers

Audio	RMS Audio Output	15 W + 15 W (R + L)
	Input Sensitivity	0.2 ~ 2 Vrms
	Speaker Impedance	6 Ω

55TR3DK-B 55TR3DK-I 55TR3DK-E		
Power	Power Voltage	100-240 V~ 50/60 Hz 3.5 A
	Power Consumption	On Mode: 395 W (Max) Standby Mode: ≤ 0.5 W
Dimensions (Width x Height x Depth) / Weight	1271 mm x 774 mm x 87 mm / 26.1 kg (50 inches x 30.4 inches x 3.4 inches / 57.5 lbs)	

65TR3DK-B 65TR3DK-I 65TR3DK-E		
Power	Power Voltage	100-240 V~ 50/60 Hz 4.0 A
	Power Consumption	On Mode: 420 W (Max) Standby Mode: ≤ 0.5 W
Dimensions (Width x Height x Depth) / Weight	1488 mm x 897 mm x 88 mm / 34.95 kg (58.5 inches x 35.3 inches x 3.4 inches / 77 lbs)	

75TR3DK-B 75TR3DK-I 75TR3DK-E		
Power	Power Voltage	100-240 V~ 50/60 Hz 4.0 A
	Power Consumption	On Mode: 430 W (Max) Standby Mode: ≤ 0.5 W
Dimensions (Width x Height x Depth) / Weight	1709 mm x 1020 mm x 88 mm / 47.3 kg (67.2 inches x 40.1 inches x 3.4 inches / 104.2 lbs)	

86TR3DK-B 86TR3DK-I 86TR3DK-E		
Power	Power Voltage	100-240 V~ 50/60 Hz 5.5 A
	Power Consumption	On Mode: 580 W (Max) Standby Mode: ≤ 0.5 W
Dimensions (Width x Height x Depth) / Weight	1957 mm x 1160 mm x 100 mm / 58.55 kg (77 inches x 45.6 inches x 3.9 inches / 129 lbs)	

VGA (PC) Support mode

Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)	Remark
720 x 400 / 70 Hz	31.788	70	
640 x 480 / 60 Hz	31.469	59.94	
800 x 600 / 56 Hz	35.156	56.25	
800 x 600 / 60 Hz	37.879	60.317	
1024 x 768 / 60 Hz	48.363	60.004	
1280 x 768 / 60 Hz (RB)	47.396	59.995	
1280 x 768 / 60 Hz	47.776	59.87	
1280 x 800 / 60 Hz	49.702	59.81	
1280 x 960 / 60 Hz	60	60	
1280 x 1024 / 60 Hz	63.981	60.002	
1360 x 768 / 60 Hz	47.712	60.015	
1440 x 900 / 60 Hz (RB)	55.469	59.901	
1440 x 900 / 60 Hz	55.935	59.887	
1680 x 1050 / 60 Hz	65.29	59.954	
1920 x 1080 / 60 Hz	67.5	60	

USB Type-C Support Mode

Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)	Remark
640 x 480 / 60 Hz	31.469	59.94	
800 x 600 / 56 Hz	35.156	56.25	
800 x 600 / 60 Hz	37.879	60.317	
1024 x 768 / 60 Hz	48.363	60.004	
1280 x 768 / 60 Hz (RB)	47.396	59.995	
1280 x 768 / 60 Hz	47.776	59.87	
1280 x 800 / 60 Hz	49.702	59.81	
1280 x 960 / 60 Hz	60	60	
1280 x 1024 / 60 Hz	63.981	60.002	
1360 x 768 / 60 Hz	47.712	60.015	
1440 x 900 / 60 Hz (RB)	55.469	59.901	
1440 x 900 / 60 Hz	55.935	59.887	
1680 x 1050 / 60 Hz	65.29	59.954	
1920 x 1080 / 60 Hz	67.5	60	
640 x 480P / 59 Hz 4:3	31.469	59.94	
640 x 480P / 60 Hz 4:3	31.5	60	
720 x 480P / 60 Hz 4:3	31.5	60	
720 x 480P / 60 Hz 16:9	31.5	60	
1280 x 720P / 59 Hz 16:9	44.955	59.939	
1280 x 720P / 60 Hz 16:9	45	60	
1440 x 480P / 60 Hz 4:3	31.5	60	
1440 x 480P / 59 Hz 16:9	31.469	59.94	
1440 x 480P / 60 Hz 16:9	31.5	60	
1920 x 1080P / 59 Hz 16:9	67.432	59.939	
1920 x 1080P / 60 Hz 16:9	67.5	60	
720 x 576P / 50 Hz 4:3	31.25	50	
720 x 576P / 50 Hz 16:9	31.25	50	
1280 x 720P / 50 Hz 16:9	37.5	50	
1440 x 576P / 50 Hz 16:9	31.25	50	

Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)	Remark
1920 x 1080P / 50 Hz 16:9	56.25	50	
1920 x 1080P / 23 Hz 16:9	26.973	23.976	
1920 x 1080P / 24 Hz 16:9	27	24	
1920 x 1080P / 25 Hz 16:9	28.125	25	
1920 x 1080P / 29 Hz 16:9	33.716	29.97	
1920 x 1080P / 30 Hz 16:9	33.75	30	
3840 x 2160 / 60 Hz	135	60	
3840 x 2160 / 50 Hz	112.5	50	
3840 x 2160 / 30 Hz	67.5	29.97	
3840 x 2160 / 25 Hz	56.25	25	
3840 x 2160 / 24 Hz	54	23.982	

HDMI / OPS Support Mode

Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)	Remark
640 x 480 / 60 Hz	31.469	59.94	
800 x 600 / 60 Hz	37.879	60.317	
1024 x 768 / 60 Hz	48.363	60.004	
1280 x 768 / 60 Hz (RB)	47.396	59.995	
1280 x 768 / 60 Hz	47.776	59.87	
1280 x 800 / 60 Hz	49.702	59.81	
1280 x 960 / 60 Hz	60	60	
1280 x 1024 / 60 Hz	63.981	60.002	
1360 x 768 / 60 Hz	47.712	60.015	
1440 x 900 / 60 Hz (RB)	55.469	59.901	
1440 x 900 / 60 Hz	55.935	59.887	
1680 x 1050 / 60 Hz	65.29	59.954	
1920 x 1080 / 60 Hz	67.5	60	
720 (1440) x 480i	15.734	59.939	
480p / 59 Hz	31.469	59.94	
480p / 60 Hz	31.5	60	
720 (1440) x 576i	15.625	50	
576p / 50 Hz	31.25	50	
720p / 60 Hz	45	60	
720p / 59 Hz	44.955	59.94	
720p / 50 Hz	37.5	50	
1080i / 60 Hz	33.75	60	
1080i / 59 Hz	33.716	59.94	
1080i / 50 Hz	28.125	50	
1080p / 60 Hz	67.5	60	
1080p / 50 Hz	56.25	50	
1080p / 30 Hz	33.75	30	
1080p / 29 Hz	33.716	29.97	
1080p / 25 Hz	28.125	25	
1080p / 24 Hz	27	24	
1080p / 23 Hz	26.973	23.976	

Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)	Remark
3840 x 2160 / 60 Hz	135	60	
3840 x 2160 / 50 Hz	112.5	50	
3840 x 2160 / 30 Hz	67.5	29.97	
3840 x 2160 / 25 Hz	56.25	25	
3840 x 2160 / 24 Hz	54	23.982	

NOTE

- Vertical frequency: The product display 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 1 is divided by the horizontal interval, the number of horizontal lines displayed every second can be tabulated as the horizontal frequency. The unit is kHz.

LICENSES

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



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.



This product qualifies for ENERGY STAR®.

Changing the factory default configuration and settings or enabling certain optional features and functionalities may increase energy consumption beyond the limits required for ENERGY STAR® certification.

Refer to ENERGYSTAR.gov for more information on the ENERGY STAR® program.

Supplier's Declaration of Conformity

Trade Name	LG
Responsible Party	LG Electronics USA, Inc.
Address	111 Sylvan Avenue, North Building, Englewood Cliffs, NJ 07632
E-mail	lg.environmental@lge.com

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. _____

! NOTE

- 55/65/75/86TR3DK-B, 55/65/75/86TR3DK-I is not certified with EPA's ENERGY STAR.

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