



OWNER'S MANUAL

LG Digital Signage

(MONITOR SIGNAGE)

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

65TR3BF-B 65TR3BF-I

75TR3BF-B 75TR3BF-I

86TR3BF-B 86TR3BF-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.

SAFETY PRECAUTION

Please read these safety precautions carefully before using the product.

WARNING

If you ignore the warning message, you may be seriously injured or there is a possibility of accident or death.

CAUTION

If you ignore the caution message, you may be slightly injured or the product may be damaged.

WARNING

- Indoor Use Only.

Precautions In Installing the Product

WARNING

- Keep away from heat sources like electrical heaters.
 - Electrical shock, fire, malfunction, or deformation may occur.
- Keep the packing anti-moisture material or vinyl packing out of the reach of children.
 - Anti-moisture material is harmful if swallowed. If swallowed by mistake, force the patient to vomit and visit the nearest hospital. Additionally, vinyl packing can cause suffocation. Keep it out of the reach of children.
- Do not put heavy objects on the product or sit upon it.
 - If the product collapses or is dropped, you may be injured. Children must pay particular attention.
- Do not leave the power or signal cable unattended on the pathway.
 - The passerby can trip or fall, which can cause electrical shock, fire, product breakdown, or injury.
- Install the product in a neat and dry place.
 - Dust or moisture can cause electrical shock, fire or product damage.
- If you can smell smoke or other odors or hear a strange sound unplug the power cord and contact the service center.
 - If you continue to use without taking proper measures, electrical shock or fire can occur.

- If you dropped the product or the case is broken, turn off the product and unplug the power cord.
 - If you continue to use without taking proper measures, electrical shock or fire can occur. Contact the service center.
- Do not drop an object on or apply impact to the product. Do not throw any toys or objects on the product screen.
 - It can cause injury to human, problem to product and damage the display.
- Do not let the product fall or drop when connecting it with an external device.
 - This may cause injury and/or damage to the product.
- When connecting it to a game device, keep a distance of four times the diagonal measurement of the screen from the device.
 - If the product falls because of the short cable, this may cause injury and/or damage to the product.
- Leaving a fixed image on the screen for a long time may cause damage to the screen and cause image retention. To use the product for a long period of time, use a screen saver on the PC or utilize the residual image prevention function on the product, and when the product is not used, turn off the power. Image retention and related problems are not covered by the warranty on this product.
- Do NOT install this product on a wall where there is high risk of exposure to oil fumes or mist.
 - This may damage product and cause it to fall.

CAUTION

- Make sure the product ventilation holes are not blocked. Install the product in a suitably wide place (more than 100 mm from the wall).
 - If you install the product too close to the wall, it may be deformed or fire can break out due to internal heat.
- Do not block the ventilation hole of the product with a tablecloth or curtain.
 - The product can be deformed or fire can break out due to overheating inside the product.
- Install the product on a flat and stable place that has no risk of dropping the product.
 - If the product is dropped, you may be injured or the product may be broken.
- Install the product where no EMI occurs.
- Keep the product away from direct sunlight.
 - The product can be damaged.
- If you install the product in a place that does not meet the recommended conditions, this may cause serious damage to the product's picture quality, life cycle, and appearance. Please check with LG or a qualified installer before installing. This caution applies to a place where there is an abundance of fine dust or oil mist, chemical substances are used, the temperature is very high or low, the humidity is very high, or the product is likely to remain turned on for a long period of time (airport and train station). failure to do so will invalidate the warranty.
- Do not install the product in an area with poor ventilation (e.g. on a bookshelf, in a closet) or outside and avoid placing on cushions or carpets.
- In addition, do not install it where there are heating objects such as lighting equipment.

Precautions to the AC Adapter and Electrical Power

WARNING

- If water or any foreign substance goes inside the product (TV, monitor, power cord, or AC adapter), disconnect the power cord immediately and contact the service center.
 - Otherwise, this may cause a fire or electric shock due to damage to the product.
- Do not touch the power plug or AC adapter with wet hands. If the pins of the plug are wet or dusty, wipe and dry them before use.
 - Otherwise, this may cause a fire or electric shock.
- Make sure to completely insert the power cord into the AC adapter.
 - If loosely connected, the poor connection may cause a fire or electric shock.
- Be sure to use power cords and AC adapters provided or approved by LG Electronics, Inc.
 - The use of non-approved products may cause a fire or electric shock.
- When unplugging the power cord, always pull it by the plug. Do not bend the power cord with excessive force.
 - The power line can be damaged, which may cause electric shock or fire.
- Be careful not to step or place heavy objects (electronic appliances, clothing, etc.) on the power cord or AC adapter. Be careful not to damage the power cord or AC adapter with sharp objects.
 - Damaged power cords may cause a fire or electric shock.
- Never disassemble, repair or modify the power cord or AC adapter.
 - This may cause a fire or electric shock.
- Make sure to connect the power cable to the grounded current.
 - You may be electrocuted or injured.
- Use the rated voltage only.
 - The product can be damaged, or you may be electrocuted.
- In the presence of thunder and lightning, never touch the power cord and signal cable because it can be very dangerous.
 - It can cause electric shock.
- Do not connect several extension cords, electrical appliances, or electrical heaters to a single outlet. Use a power strip with a grounding terminal designed for exclusive use with the computer.
 - A fire can break out due to overheating.

- Do not touch the power plug with wet hands. Additionally, if the cord pin is wet or covered with dust, dry the power plug completely or wipe dust off.
 - You may be electrocuted due to excess moisture.
- If you don't intend to use the product for a long time, unplug the power cable from the product.
 - Covering dust can cause a fire, or insulation deterioration can cause electric leakage, electric shock or fire.
- Fix the power cable completely.
 - If the power cable is not fixed completely, a fire can break out.
- Do not insert a conductor (like a metal chopstick) into one end of the power cable while the other end is connected to the input terminal on the wall. Additionally, do not touch the power cable right after plugging into the wall input terminal.
 - You may be electrocuted.
- The appliance coupler is used as the disconnect device.
- Please make sure the device is installed near the wall outlet to which it is connected and that the outlet is easily accessible.
- As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if the unit is turned off.

**CAUTION**

- Be sure to keep the outlet, AC adapter, and pins of the power plug clean from dust and etc.
 - This may cause a fire.
- Do not unplug the power cord while the product is in use.
 - Electrical shock can damage the product.
- Use only the power cord supplied with the unit. If you use another power cord, make sure that it is certified by the applicable national standards when not provided by the supplier. If the power cable is faulty in any way, please contact the manufacturer or the nearest authorized repair service provider for a replacement.

Precautions In Moving the Product

WARNING

- Make sure to turn off the product.
 - You may be electrocuted or the product can be damaged.
- Make sure to remove all cables before moving the product.
 - You may be electrocuted or the product can be damaged.
- Make sure the panel faces forward and hold it with both hands to move. If you drop the product, the damaged product can cause electric shock or fire. Contact an authorized the service center for repair.
- Make sure the product is turned off, unplugged, and all cables have been removed. It may take 2 or more people to carry larger apparatus. Do not press against or put stress on the front panel of the apparatus.

CAUTION

- Do not shock the product when moving it.
 - You may be electrocuted or the product can be damaged.
- Do not dispose the product-packing box. Use it when you move.

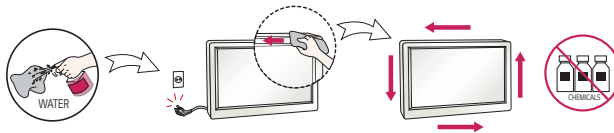
Precautions In Using the Product

WARNING

- Do not disassemble, repair or modify the product at your own discretion.
 - Fire or electric shock accident can occur.
 - Contact the service center for check, calibration or repair.
- When the display is to be left unattended for an extended period of time, unplug it from the wall outlet.
- Keep the product away from water.
 - Fire or electric shock accident can occur.
- Do not shock or scratch the front and sides of the screen with metallic objects.
 - Otherwise, it may cause damage to the screen.
- Avoid high temperatures and humidity.

! CAUTION

- Do not put or store inflammable substances near the product.
 - There is a danger of explosion or fire due to careless handling of the inflammable substances.
- When cleaning the product, unplug the power cord and scrub gently with a soft cloth to prevent scratching. Do not clean with a wet cloth or spray water or other liquids directly onto the product. An electric shock may occur. (Do not use chemicals such as benzene, paint thinners, or alcohol.)
- Take a rest from time to time to protect your vision.
- Keep the product clean at all times.
- Take a comfortable and natural position when working with a product to relax the muscles.
- Take a regular break when working with a product for a long time.
- Do not press strongly upon the panel with a hand or sharp object such as nail, pencil, or pen, or make a scratch on it.
- Keep the proper distance from the product.
 - Your vision may be impaired if you look at the product too closely.
- Set the appropriate resolution and clock by referring to the User's Guide.
 - Your vision can be impaired.
- Use authorized detergent only when cleaning the product. (Do not use benzene, thinner, or alcohol.)
 - Product can be deformed.
- 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).
- Batteries should not be exposed to excessive heat. For example, keep away from direct sunlight, open fireplace, and electric heaters.
- Do NOT place non-rechargeable batteries in charging device.
- Using headsets (earphones) for a long time or listening loudly can cause damage to your hearing.
- Spray water onto a soft cloth 2 to 4 times, and use it to clean the front frame; wipe in one direction only. Too much moisture may cause staining.



- Do not use products using high voltage around the Monitor. (e.g., a bug zapper)
 - Monitor may have malfunction as its electrical shock.

Mounting on a Wall

- Do NOT install this product by yourself as you may injure yourself or cause damage to product. Please contact service personnel authorised by manufacturer.

ASSEMBLY AND PREPARATION

CAUTION

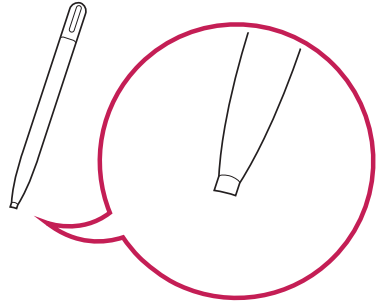
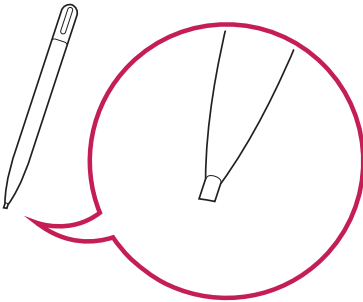
- Always use genuine components to ensure safety and product performance.
- The product warranty will not cover damage or injury caused by the use of counterfeit components.

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

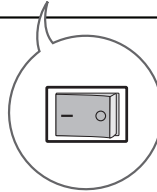
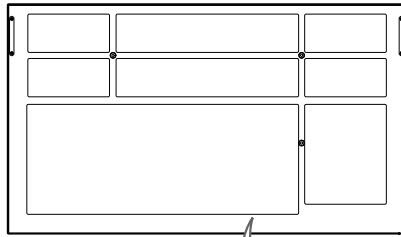
Precaution When Using the Touch Pen



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



Parts and Buttons

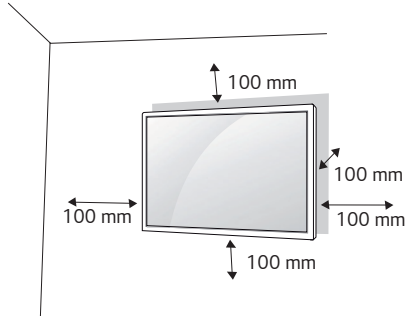
The image may be different according to the model.



	Power	Turns the power on or off.
		

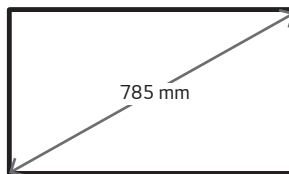
Installing on a Wall

For proper ventilation, allow a clearance of 100 mm on each side and from the wall. Detailed installation instructions are available from your dealer; see the optional Tilt Wall Mounting Bracket Installation and Setup Guide.



To install your monitor on a wall, attach a wall mounting bracket (optional part) to the back of the monitor. Make sure that the wall mounting bracket is securely fixed to the monitor and to the wall.

- 1 Use only screws and wall mounting brackets that conform to VESA standards.
- 2 Screws which are longer than standard length may damage the inside of the monitor.
- 3 A non-VESA standard screw may damage the product and cause the monitor to fall. LG Electronics is not liable for any accidents related to the use of non-standard screws.
- 4 Please use VESA standard as below.
 - 785 mm and above
 - * Fixing screws: Diameter 8.0 mm x Pitch 1.25 mm x Length 14 mm



 **CAUTION**

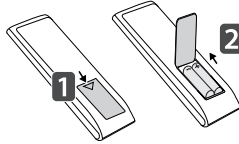
- Disconnect the power cord before moving or installing the monitor to avoid risk of electric shock.
- If you install the monitor on a ceiling or slanted wall, it may fall and result in injury. Use an authorized LG wall mount and contact your local dealer or qualified personnel to assist with the installation.
- Do not over tighten the screws as this may damage the monitor and void your warranty.
- Use only screws and wall mounting brackets that meet the VESA standard. Any damage or injuries caused by misuse or use of improper accessories are not covered by the warranty.

 **NOTE**

- The wall mount kit includes the installation guide and all necessary parts.
- The wall mounting bracket is optional. You can obtain additional accessories from your local dealer.
- The length of screws required may differ depending on the wall mount. Be sure to use the correct length.
- For more information, please refer to the guide provided with the wall mount.

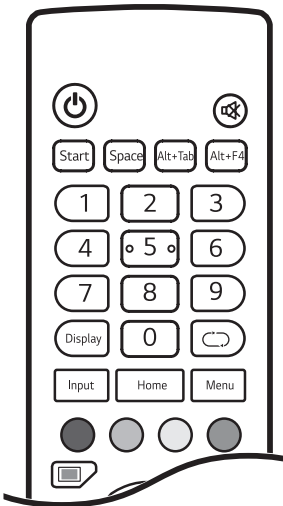
REMOTE CONTROL

The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully to use the monitor correctly. To install batteries, open the battery cover, place batteries (1.5 V AAA) matching \oplus and \ominus terminals to the labels inside the compartment, and close the battery cover. To remove the batteries, perform the installation actions in reverse. The illustrations may differ from the actual accessories.



⚠ CAUTION

- Do not mix old and new batteries, as this may damage the remote control.
- Be sure to point the remote control toward the remote control sensor on the monitor.
- Some features of the remote control may not be supported in certain models.



⏻ (POWER) Turns the monitor on or off.

🔇 (MUTE) Mutes all sounds.

Start (Built-in computer) Works the same way as the Window key.

Space (Built-in computer) Works the same way as the Space key.

Alt+Tab (Built-in computer) Works the same way as the Alt+Tab key.

Alt+F4 (Built-in computer) Works the same way as the Alt+F4 key.

Number buttons Enters numerical characters depending upon the setting.

Display Displays the currently applied external input on the screen.

Input Displays the external input settings window.

Home Returns to the default screen.

↶ The function is not supported in this model.

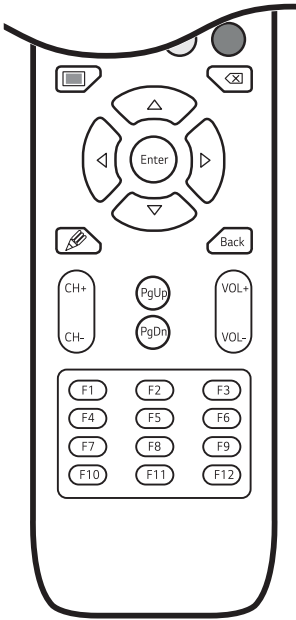
Menu Displays the general settings window.

● Enables or disables the power button or touch function of the front of the product.

● Enables or disables the power button on the front of the product.

○ Enables or disables the touch function.

● Turns on or off the function to pause the screen.



Turns on or off the whole screen.

(Built-in computer) Works the same way as the Backspace key.

Navigation Buttons Scrolls through menus or options.

Enter Selects menus or options and confirms your input.

Turns the note feature on.

Back Allows you to move back one step in the user interaction function.

CH+/- Scrolls through the saved programmes/channels.

PgUp Moves to the top of the screen.

PgDn Moves to the bottom of the screen.

VOL+/- Adjusts the volume.

Function Keys (Built-in computer) Works the same way as the Function key.

MAKING CONNECTIONS

You can connect various external devices to your monitor. Change the input mode and select the external device you want to connect. For more information about external device connections, see the user manual provided with each device.

Connecting to a PC

Some of the cables are not provided. This monitor supports the Plug and Play* feature.

* Plug and Play: a feature that enables a PC to recognize devices attached by the user without device configuration or user intervention when powering up.

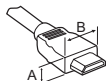
External Device Connection

Some of the cables are not provided. Connect a HD receiver, DVD, or VCR player to the monitor and select an appropriate input mode.

For the best picture and sound quality, connecting external devices to your monitor using HDMI cables is recommended.

! NOTE

- For the best image quality, using the monitor with HDMI connection is recommended.
- To comply with the specifications of the product, use a shielded interface cable with ferrite core, such as a HDMI cable.
- If you turn the monitor on when the set is cold, the screen may flicker. This is normal.
- Sometimes red, green, or blue spots may appear on the screen. This is normal.
- Use a High Speed HDMI®/™ cable (shorter than 3 m).
- 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®/™ Cable
 - High Speed HDMI®/™ Cable with Ethernet



HDMI: A ≤ 11.65 mm ; B ≤ 20.65 mm


USB: A ≤ 8.3 mm ; B ≤ 16 mm

- If you cannot hear any sound in HDMI mode please check your PC settings. Some PCs require you to manually change the default audio output to HDMI.
- You may experience compatibility issues if you use HDMI-PC mode.
- Make sure the power cable is disconnected.
- If you connect a gaming device to the monitor, use the cable provided with the gaming device.
- The contents from the HDMI INPUT port cannot be transferred to the HDMI OUT port. (HDMI OUT port supports only Android/VGA/USB.)

! CAUTION

- Connect the signal input cable and tighten it by turning the screws clockwise.
- Do not press the screen with your finger for a prolonged period as this may result in temporary distortion on the screen.
- Avoid placing a reflective object in front of the set at a distance of 50 cm or less.
- Avoid displaying static images on the screen for a long period of time to prevent image retention. Use a screensaver if possible.
- A wireless communication device near your monitor can affect the image.

Using the Input List

Input → 

- Android → HDMI1 → HDMI2 → HDMI3 → VGA

* The PC input is only enabled when a computer is connected.

TROUBLESHOOTING

- » Each model may have different points to check.
- » For information on your PC settings, refer to the Windows Help.

Issues Related to Use

- The power won't turn on.
 - Check if the power cord is correctly plugged into the power outlet.
- The 'Unknown Product' message appears when the product is connected.
 - Check if the driver for the graphics card is installed.
 - Check if the Plug and Play function is supported by referring to the graphics card user manual.

Issues Related to Screen (Video)

- A message saying 'No signal' or 'Invalid Format' appears.
 - The signal cable is not connected between the PC and the product, or the cable connection status is unstable. Check the signal cable.
 - Access the input menu to check the input signal.
 - The signal from the PC (Graphics card) is out of the vertical or horizontal frequency range of the product. Adjust the frequency range by referring to the Specifications in this manual.
- The position of the screen is incorrect.
 - Check if the graphics card resolution and frequency are supported by the product. If the frequency exceeds the supported range, use PC settings to set the resolution to the recommended value.
- The screen is displayed abnormally.
 - Connect the signal cable that matches with the source input signal.
- Images are flickering or fluttering on the screen.
 - If you turn the monitor on when it is cold, the screen may flicker. This is normal.
 - Make sure that the current resolution and frequency settings of the graphics card are supported by the monitor.

Issues Related to Screen (Color)

- Screen has poor color resolution (16 colors).
 - Use PC settings to set the color to 24 bits (True Color) or above.
- Screen color is unstable or mono-colored.
 - Check the connection status of the signal cable. Or, re-insert the PC graphics card.
- I see dark or bright spots on the screen.
 - Some pixels (red, green, blue, black) are visible on the screen due to the unique characteristics of the display panel. This is not a malfunction of the product.

Issues Related to Sound

- The audio doesn't work.
 - See if the audio cable is connected properly.
 - Adjust the volume of the product or external device.
 - See if the sound is set properly.
- Sound is too dull.
 - Select the appropriate equalizer sound.
- Sound is too low.
 - Adjust the volume of the external device.
- For some models, you will need to purchase external speakers separately since they do not have speakers built-in.

Other Issues

- The power suddenly turned off.
 - Check if the 'Power Off Time' is set.
 - Power interrupted. See if the product power cord is connected properly.
 - check the power control settings.

I have a problem with touch response.

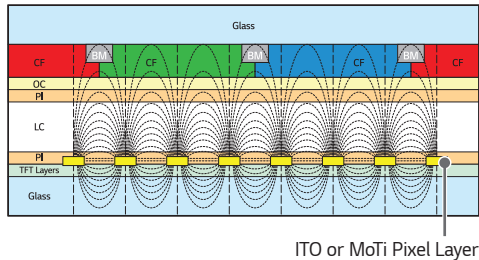
- Touch does not respond.
 - This may occur when the USB cable between PC and monitor is not connected. Remove the USB cable and connect it again in 10 seconds.
 - Make sure that your PC's power cord is firmly plugged into a power outlet and restart your PC.
 - Touch may not respond when the system is down due to the unstable network. Reconnect the LAN cable or restart your PC.
 - If your PC and monitor are not connected using a signal cable, touch does not respond. Check the signal cable connection.
 - Touch may not respond when the monitor is powered off. Check the monitor power.
 - If you do not use a grounded outlet, it may cause a break or touch error. Always connect the power cord to a grounded outlet.
 - Check if the screen is currently on.
 - A break or touch error may occur as below case.
 - > If touching the screen only with nail or fingertip
 - > If holding the touch pen or near the tip of the touch pen
 - > If using the touch pen while pressing it with strong force on the screen
- The location of a touch does not correspond to the touch coordinates.
 - This may occur when the touch screen is not calibrated properly. Change your tablet PC settings.
- A touch is applied to a monitor other than the one I intended.
 - This may occur if the monitor is not set as the default monitor when you are using multiple monitors. Set the monitor as the default monitor.
 - This may occur when the touch screen is not calibrated properly. Change your tablet PC settings.
- Multi-touch does not respond.
 - The content played (e.g. Flash Player, Paint, etc.) may not support Multi-touch points. Make sure that you use a content that supports Multi-touch point.
 - Remove the USB cable and connect it again in 10 seconds.
 - Run the content (e.g. Flash Player, Paint, etc.) again.
 - Restart your PC.
 - On the edge of the touch screen, multi-touch may work unstably.
 - If the gap between two touch points is 20 mm or less, the touch error may occur.

Image sticking

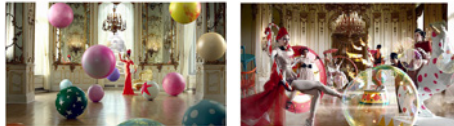
- After-image appears when the product is turned off.
 - If you use a fixed image for a long time, the pixels may be damaged. Use the screen-saver function.
 - When a dark image is displayed on the screen after an image with high contrast (black and white or gray), this may cause image sticking. This is normal for display products.
- When the LCD panel displays a static image for an extended period of time, it can cause a voltage difference between the electrodes that operate the liquid crystals. When the voltage difference between the electrodes builds up over time, liquid crystals have a tendency to remain aligned in one direction. During this process, a previously displayed image remains visible. This phenomenon is referred to as image sticking.
- Image sticking does not occur when using constantly changing images but may occur when using a fixed image for an extended period of time. Therefore, it is recommended that you use the instructions below to decrease the likelihood of image sticking occurring when using a fixed image. It is recommended that you change the screen at least once every 12 hours at the very minimum; if done more frequently, the prevention of image sticking is more effective.
- Recommended operating conditions
 - 1 Change the background and the character colors using the same time interval.



- When changing colors, using complementary colors helps to prevent image sticking.



- 2 Change the image using the same time interval.



Make sure that the characters or images before changing the image remain in the same location after changing the image.

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).

LCD screen	Screen type	Thin Film Transistor (TFT) Liquid Crystal Display (LCD) Screen
Video signal	Maximum resolution	VGA: 1920 x 1080 @ 60 Hz HDMI1/ HDMI2/ HDMI3: 3840 x 2160 @ 60 Hz - This may not be supported on some OS or graphic card types.
	Recommended resolution	VGA: 1920 x 1080 @ 60 Hz HDMI1/ HDMI2/ HDMI3: 3840 x 2160 @ 60 Hz - This may not be supported on some OS or graphic card types.
	Horizontal frequency	HDMI1/ HDMI2/ HDMI3: 30 kHz ~ 135 kHz VGA: 30 kHz ~ 80 kHz
	Vertical frequency	HDMI1/ HDMI2/ HDMI3: 30 Hz ~ 76 Hz VGA: 50 Hz ~ 76 Hz
	Synchronization	Separate Sync/ Digital
Input/ Output ports	HDMI IN 1, HDMI IN 2, HDMI IN 3, HDMI OUT, VGA IN, USB 3.0 IN, USB 2.0 IN, LAN, AUDIO IN/OUT, RS-232C IN, TOUCH USB, OPS, SPDIF	
Embedded battery	Applied	
Environmental Conditions	Operating Temperature	0 °C to 40 °C
	Operating Humidity	10 % to 80 %
	Storage Temperature	-20 °C to 60 °C
	Storage Humidity	5 % to 85 %
Audio	Input Sensitivity	0.5 Vrms

* Touch Screen

OS (Operating System)	Windows 7/ 8/ 10/ WindowsXP/ Linux/ Mac/ Android (WindowsXP/ Linux/ Mac are supported with the 1 Point touch function.)	20 Points
	Space between touches: at least 20 mm or more	

* Applicable only for models that support the speakers

Audio	RMS Audio Output	12 W + 12 W (R + L)
	Input Sensitivity	0.5 Vrms
	Speaker Impedance	8 Ω

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LCD Panel	Pixel Pitch	0.372 mm (H) x 0.372 mm (V)
Power	Rated Voltage	AC 100-240 V~ 50/60 Hz 3.5 A
	Power Consumption	On Mode: 145 W (Typ.) Stand By Mode: ≤ 0.5 W
Dimensions (Width x Height x Depth)/ Weight	1488.4 mm x 896.7 mm x 85.8 mm/ 40 kg	

75TR3BF-B**75TR3BF-I**

LCD Panel	Pixel Pitch	0.4296 mm (H) x 0.4296 mm (V)
Power	Rated Voltage	AC 100-240 V~ 50/60 Hz 4.0 A
	Power Consumption	On Mode: 175 W (Typ.) Stand By Mode: ≤ 0.5 W
Dimensions (Width x Height x Depth)/ Weight	1709.4 mm x 1020.1 mm x 85.8 mm/ 53 kg	

86TR3BF-B**86TR3BF-I**

LCD Panel	Pixel Pitch	0.4935 mm (H) x 0.4935 mm (V)
Power	Rated Voltage	AC 100-240 V~ 50/60 Hz 5.5 A
	Power Consumption	On Mode: 365 W (Typ.) Stand By Mode: ≤ 0.5 W
Dimensions (Width x Height x Depth)/ Weight	1957.1 mm x 1159.8 mm x 85.8 mm/ 67 kg	

VGA (PC) Support mode

Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)	Remark
640 x 480	31.469	59.94	
800 x 600	37.879	60.317	
1024 x 768	48.363	60.004	
1280 x 768	47.396	59.99	
1280 x 960	60	60	
1280 x 1024	63.981	60.002	
1366 x 768	47.712	59.79	
1440 x 900	55.469	59.9	
1680 x 1050	65.29	59.954	
1920 x 1080	67.5	60	

HDMI/ OPS Support Mode

Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)	Remark
720(1440) x 480i/60 Hz	15.734	60	
480p/59 Hz	31.469	59.94	
480p/60 Hz	31.5	60	
576i/50 Hz	15.625	50	
576p/50 Hz	31.25	50	
720p/60 Hz	45	60	
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/59 Hz	67.443	59.94	
1080p/50 Hz	56.25	50	
1080p/23 Hz	26.973	23.976	
1080p/24 Hz	27	24	
1080p/25 Hz	28.125	25	
1080p/29 Hz	33.716	29.97	
1080p/30 Hz	33.75	30	
3840 x 2160/24 Hz	54	23.982	
3840 x 2160/25 Hz	56.25	25	
3840 x 2160/30 Hz	67.5	30	
3840 x 2160/50 Hz	112.5	50	
3840 x 2160/60 Hz	135	60	

! 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

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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.