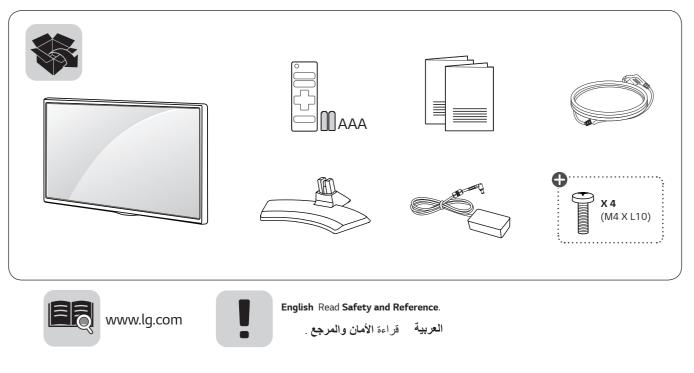


## LED MONITOR

24MN49HM 28MN49HM

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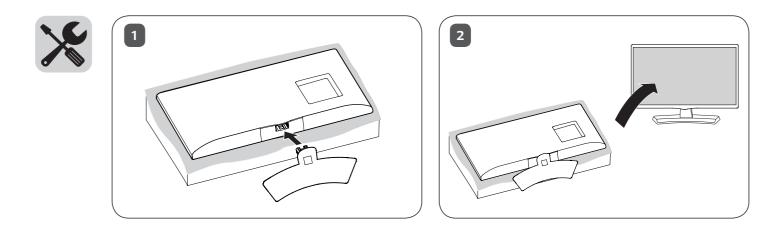


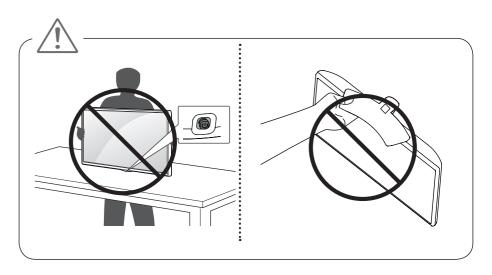
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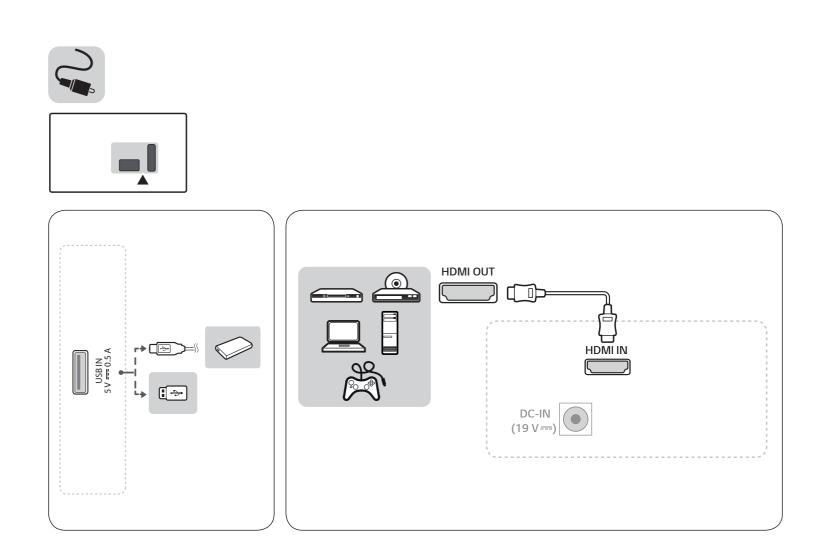
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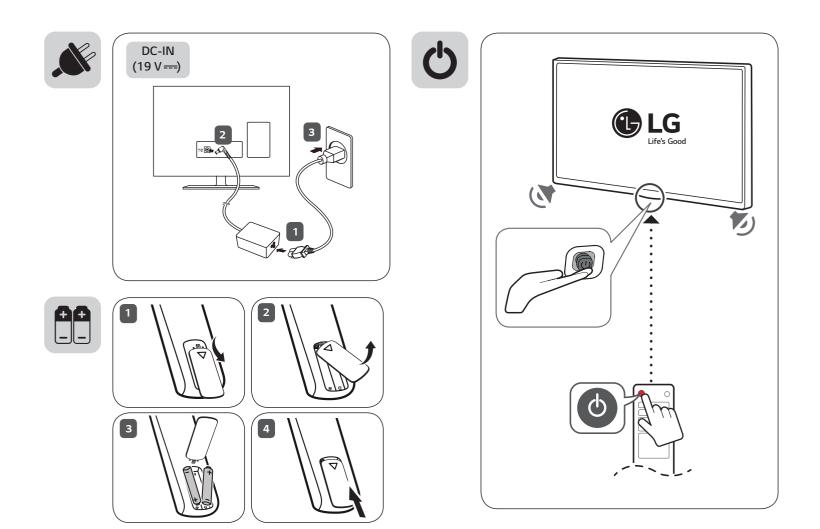


P/No: MFL69560322 (1704-REV01) Printed in Korea











## OWNER'S MANUAL Safety and Reference

LED MONITOR\* \* LG LED Monitors are LCD Monitors with LED Backlighting.

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

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MN49HM

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www.lg.com P/NO : MFL69560312 (1704-REV01) Printed in Korea

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## **Safety precautions**

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.

#### AUTION

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

## 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 falter, 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 with a game device, keep a distance of four times as long as 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 burn-in. 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. Burn-in 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 is to fail.

#### A CAUTION

- Make sure the product ventilation hole is not blocked. Install the product in a suitably wide place. (more than 10 cm 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 by 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 (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.

# ENGLISH

- ► 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 bar 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.

#### AUTION

- 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

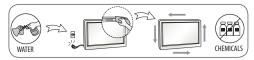
#### WARNING

( )

- 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.

## AUTION

- 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. (ex. Electrical Swatter)
- ► 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.

## Licenses

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

## **DOLBY** AUDIO

ENGLISH

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This DivX Certified  $^{\otimes}$  device has passed rigorous testing to ensure it plays DivX  $^{\otimes}$  video.

To play purchased DivX movies, first register your device at vod. divx. com. Find your registration code in the DivX VOD section of your device setup menu.

DivX Certified® to play DivX® video up to HD 1080p, including premium content.

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In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.

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 *opensource@lge.com*. This offer is valid for three (3) years from the date on which you purchased the product.

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## Preparing

## **O**NOTE

- Image shown may differ from your monitor.
- The items supplied with your product may vary depending on the model.
- Without prior notice, all product information and specifications contained in this manual are subject to change to improve the performance of the product.
- Your monitor's OSD (On Screen Display) may differ slightly from that shown in this manual.
- The available menus and options may differ from the input source or product model that you are using.
- New features may be added to this monitor in the future.
- 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 monitor's USB port.





- 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<sup>®</sup>/<sup>™</sup> cable
- High-Speed HDMI<sup>®</sup>/<sup>™</sup> cable with Ethernet

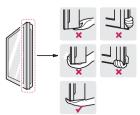
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- Always use genuine components to ensure safety and product performance.
- The product warranty will not cover damage or injury caused by the use of unauthorized components.

## Moving and lifting the monitor

When moving or lifting the monitor, follow these instructions to prevent the monitor from being scratched or damaged and to ensure safe transportation, regardless of its shape or size.

- It is advisable to place the monitor in the original box or packing material before attempting to move it.
- Before moving or lifting the monitor, disconnect the power cord and all cables.
- Hold the top and bottom of the monitor frame firmly. Do not hold the panel itself.



- When holding the monitor, the screen should face away from you to prevent it from being scratched.
- When transporting the monitor, do not expose the monitor to jolts or excessive vibration.

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 When moving the monitor, keep it upright and never turn the monitor on its side or tilt it sideways.



## AUTION

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- Image shown may differ from your monitor.
- Avoid touching the monitor screen as much as possible. Do not apply pressure.

- This may result in damage to the screen or some of the pixels used to create images.

- Do not carry the monitor upside-down by holding the stand body (or stand base) as this may cause it to fall off, resulting in damage or injury.
- When handling the monitor, be careful not to damage the protruding joystick button.



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 $( \bullet )$ 

## Installing the monitor

#### AUTION

- When attaching the stand to the monitor set, place the screen facing down on a cushioned table or flat surface to protect the screen from scratches.
- Applying excessive force when tightening screws may cause damage to the monitor. Damage caused in this way will not be covered by the product manufacturer's warranty.
- If you use the monitor panel without the stand base, its joystick button may cause the monitor to become unstable and fall, resulting in damage to the monitor or human injury. In addition, this may cause the joystick button to malfunction.
- Do not apply foreign substances (oils, lubricants, etc.) to the screw parts when assembling the product. (Doing so may damage the product.)

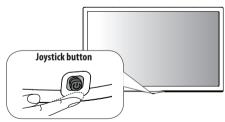
#### NOTE

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- Remove the stand before installing the monitor on a wall mount by performing the stand attachment in reverse.
- To protect the screen from scratches, cover the surface with a soft cloth.

## Using the joystick button

You can simply operate the monitor functions, pressing or moving the button.



## **Basic functions**



1 If the menu button is on the screen, pressing and holding the button will let you exit the menu.

## Adjusting the menu

When the monitor is turned on, press the joystick button one time. You can adjust the menu items pressing or moving the buttons.

Ċ	Turns the power off.
Ø	Accesses the main menu.
Х	Clears on-screen displays and returns to monitor viewing.

Changes the input source.

## NOTE

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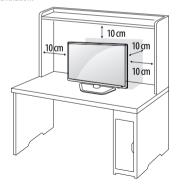
• If you press the joystick button first, you may not adjust the volume level and saved programmes.

#### AUTION

 When your finger over the joystick button and push it to the up, down, left or right, be careful not to press the joystick button.

## Mounting on a table

- Image shown may differ from your monitor.
- Lift the monitor and place it on the table in an upright position.
   Place at least 10 cm away from the wall to ensure sufficient ventilation.



2 Connect the AC-DC Adapter and Power Cord to a wall outlet.

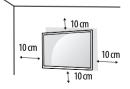
#### **(**) CAUTION

( )

- Do not place the monitor near or on sources of heat, as this may result in fire or other damage.
- To avoid the risk of electric shock, disconnect the Power Cord before moving or installing the monitor.

## Mounting on a wall

Install the monitor at least 10 cm away from the wall and leave about 10 cm of space at each side of the monitor to ensure sufficient ventilation. Detailed installation instructions can be obtained from your local retail store. Alternatively, please refer to the manual for how to install and set up a tilting wall mounting bracket.



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

- 1 If you use screws longer than the standard length, it may damage the inside of the product.
- 2 A non-VESA standard screw may damage the product and cause the monitor to fall. LG Electronics is not liable for any accidents relating to the use of non-standard screws.

Model		24MN49HM	28MN49HM
Wall Mount (A x B) (mm)		75 x 75	100 x 100
Standard screw		M4 x L10	
Number of screws		4	
Wall mount bracket (optional)		RW120	

#### AUTION

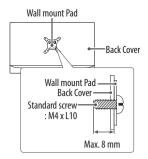
- Disconnect the power cord first, and then move or install the monitor. Otherwise electric shock may occur.
- If you install the monitor on a ceiling or slanted wall, it may fall and result in severe injury.
- Use an authorized LG wall mount and contact the local dealer or qualified personnel.
- Do not over tighten the screws as this may cause damage to the monitor and void your warranty.
- Use the screws and wall mounts that meet the VESA standard. Any damages or injuries by misuse or using an improper accessory are not covered by the manufacturer's warranty.

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• Screw length from outer surface of back cover should be under 8mm.

## **NOTE**

- Must use the enclosed screw in the box. (Depending on model)
- Use the screws that are listed on the VESA standard screw specifications.
- The wall mount kit includes an installation manual and necessary parts.
- The wall mount bracket is not provided. You can obtain additional accessories from your local dealer.
- The length of screws may differ depending on the wall mount. Make sure to use the proper length.
- For more information, refer to the manual supplied with the wall mount.



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## **Connections (Notifications)**

Your monitor supports the Plug and Play\* feature and has the built-in speakers with Virtual Surround that reproduces sound clearly with a rich bass.

\* Plug and Play: The function when a PC recognizes a connected device that users connect to a PC and turn on, without device configuration or user intervention.

## **NOTE**

- For the best picture quality, connect the external device and the monitor with the HDMI cable.
- The monitor may flicker when turned on in an area where the temperature is low. This is normal.
- Sometimes red, green, or blue spots may appear on the screen. This is normal.
- Do not press the screen for a prolonged time. This may cause image distortion.
- Do not display a still image on the screen for a prolonged time. This may cause image retention. Use a screensaver if possible.

## Other connections

Some separate cable is not provided. For the best picture and audio quality, connect the external device and the monitor with the HDMI cable.

 USB port supports 0.5 A electric current. If you need more electric current in case of HDD, use the separate power adaptor.

## Connecting to a PC

## **NOTE**

( )

- If you want to use HDMI-PC mode, you must set the **Input Label** to **PC** mode.
- The OSD (On Screen Display) is displayed on the screen as shown below.
- When turning the product on in HDMI input.
- When switching to HDMI input.



- If you select "**Yes**" the size and image quality are optimised for your PC.
- If you select "No" the size and image quality are optimised for the AV device (DVD player, set-top box).
- If you select "Do not show message again" this message does not appear until the monitor is reset. You can change the set value in SETTINGS > INPUT > Input Label.

## **Remote control**

The descriptions in this manual are based on the buttons on the remote control.

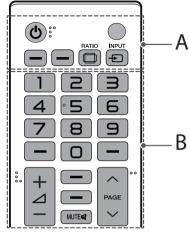
Please read this manual carefully and use the monitor correctly. To replace batteries, open the battery cover, replace batteries

(1.5 V AAA) matching the  $\bigoplus$  and  $\bigcirc$  ends to the label inside the compartment, and close the battery cover.

To remove the batteries, perform the installation actions in reverse.

#### 

- Do not mix old and new batteries, as this may damage the remote control.
- This remote uses infrared light. When in use, it should be pointed in the direction of the monitor's remote sensor.



## A

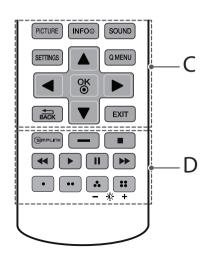
() (Power) Turn the power on or off. RATIO () Resizes an image. INPUT - () Changes the input source.

## В

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+ ∠ − Adjusts the volume level.

- MUTE 对 Mutes all sounds.
- ∧ **PAGE** ∨ Moves to the previous or next screen.



## С

PICTURE Changes the image mode.

**INFO O** Check the current input information.

**SOUND** Changes the sound mode.

SETTINGS Accesses the main menu.

**Q.MENU** Accesses the guick menus.

Navigation buttons (up/down/left/right) Scrolls through menus or options.

**OK** • Selects menus or options and confirms your input.

**BACK** Returns to the previous screen.

EXIT Clears all on-screen displays and returns to monitor viewing.

## D

 $( \bullet )$ 

SIMPLINK Accesses the AV devices connected with the HDMI cable through HDMI-CEC. Opens the SIMPLINK menu.

**Control buttons** (**■**, **►**, **II**, **◄4**, **►►**) Controls the MY MEDIA menus, or the SIMPLINK compatible devices (USB, SIMPLINK).

, . , . , . , These access special functions in some menus.

## Setting the monitor

#### Turning the monitor on for the first time

When you access the monitor for the first time, the initial setting screen appears. Select a language and customize the basic settings.

- 1 Connect the power cord to a power outlet.
- 2 Standby Light is turned on. Set the joystick buttons on the monitor or press the Power, ∧ PAGE ∨, INPUT ⊕, Number buttons on the remote control to turn the monitor on. The Standby Light is turned off.
- 3 The initial setting screen appears if you access the monitor for the first time.
- 4 Follow the on-screen instructions to customize your monitor according to your preferences.

Language	Selects a language for the display.
Mode Setting	Selects Home Use for the home
Mode Setting	environment.
	Selects the Standby Light. If you select On,
Standby Light	the monitor turns on the standby light in the
	front panel when the monitor is off.

## 

- You can also access Factory Reset by accessing option in the main menus.
- If you do not operate the monitor within 40 seconds when the setting menu screen appears, the setting menus will disappear.
- To display images in the best quality for your home environment, select **Home Use** (or **Standard**) mode.

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• Store Demo mode is suitable for the retail environment.

#### \land CAUTION

( )

 Disconnect the power cord from the power outlet when you do not use the monitor for a long period of time.

## Settings

#### To use Energy Saving feature

#### SETTINGS ⇒ PICTURE ⇒ Energy Saving

Reduces power consumption by adjusting screen brightness.

- Off: Turns off the Energy Saving mode.
- Minimum / Medium / Maximum : Applies the pre-set Energy Saving mode.
- Screen Off : Screen is turned off and only sound is played. Press any button except Power button on the remote control to turn the screen back on.

#### To select Picture Mode

#### SETTINGS ⇒ PICTURE ⇒ Picture Mode

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

- Vivid : Heightens contrast, brightness and sharpness to display vivid images.
- Standard : Displays images in standard levels of contrast, brightness and sharpness.
- Eco: The Energy Saver feature changes settings on the monitor to reduce power consumption.
- Cinema / Game : Displays the optimum picture for movie, game.
- Sport: Optimizes the video image for high and dynamic actions by emphasizing primary colours such as white, grass, or sky blue.
- Expert 1, 2 : Menu for adjusting picture quality that allows experts and amateurs to enjoy the best monitor viewing. This is the adjustment menu provided for ISF-certified picture tuning professionals. (ISF logo can only be used on ISF-certified monitors.)

ISFccc: Imaging Science Foundation Certified Calibration Control

- Depending on input signal, available range of picture modes may differ.
- Type: Expert mode is for picture tuning professionals to control and fine-tune using a specific image. For normal images, the effects may not be dramatic.
- The ISF function is only available on some models.

#### To set advanced control

#### SETTINGS ⇒ PICTURE ⇒ Picture Mode ⇒ Advanced Control / Expert Control

Calibrates the screen for each picture mode; or adjusts picture settings for a special screen. First select a **Picture Mode** of your choice.

- Dynamic Contrast : Adjusts the contrast to the optimal level according to the brightness of the image.
- Dynamic Colour : Adjusts colours to make the image appear in more natural colours.
- Colour Gamut : Selects the range of colours that can be expressed.
- Skin Colour : Sets Skin colour spectrum separately to implement the skin colour as defined by the user.
- Sky Colour : Sky colour is set separately.

- Grass Colour : Natural colour spectrum (meadows, hills, etc.) can be separately set.
- Gamma : Sets the gradation curve according to the output of picture signal in relation to the input signal.
- Depending on input signal or other picture settings, the range of detailed items for adjustment may differ.

#### To set additional picture options

#### SETTINGS ⇒ PICTURE ⇒ Picture Mode ⇒ Picture Option

Adjusts detailed setting for images.

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

#### **To set Picture Reset**

#### SETTINGS ⇒ PICTURE ⇒ Picture Mode ⇒ Picture Reset

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

#### **To use Sound Mode**

#### SETTINGS ⇒ AUDIO ⇒ Sound Mode

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

- Standard : Suitable for all types of video.
- News / Music / Cinema / Sport / Game : Sets audio optimized for a specific genre.

#### To synchronize audio and video

#### SETTINGS ⇒ AUDIO ⇒ AV Sync. Adjust

[Depending on model]

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Synchronizes video and audio directly when they do not match.

• If you set **AV Sync. Adjust** to **ON**, you can adjust the sound output (Speakers) to the screen image.

#### To use SIMPLINK

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

- 1 Connect the monitor's **HDMI IN** terminal and the SIMPLINK device's HDMI output terminal using an HDMI cable.
- 2 Select INPUT ⇒ SIMPLINK. SIMPLINK menu window appears.
- 3 In SIMPLINK Setting window, set SIMPLINK function to **ON**.
- 4 In SIMPLINK menu window, selects the device you want to control.
- This function is only compatible with devices with the SIMPLINK logo.
- To use the SIMPLINK function, you need to use a high-speed HDMI® cable (with CEC (Consumer Electronics Control) feature added). High-speed HDMI® cables have the No. 13 pin connected for information exchange between devices.
- If you switch to another input, the SIMPLINK device will stop.
- If a third-party device with the HDMI-CEC function is also used, the SIMPLINK device may not work normally.
- If you select or play media from a the device with a home theatre function, the HT Speaker is automatically connected.

#### To set password

#### SETTINGS ⇒ LOCK ⇒ Set Password

Sets or changes the monitor password. The initial password is set to '0000'.

#### **To return Initial Setting**

#### SETTINGS ⇒ OPTION ⇒ Factory Reset

All stored information is deleted and monitor settings are reset. The monitor turns itself off and back on, and all settings are reset.

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

#### To remove the USB device

#### Q.MENU ⇒ USB Device

Select a USB storage device that you want to remove. When you see a message that the USB device has been removed, separate the device from the monitor.

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

#### Using a USB storage device - warning

- If the USB storage device has a built-in auto recognition program or uses its own driver, it may not work.
- Some USB storage devices may not work or may work incorrectly.
- Use only USB storage devices formatted with the Windows FAT32 or NTFS File System.
- For external USB HDDs, it is recommended that you use devices with a rated voltage of less than 5 V and a rated current of less than 500 mA.
- It is recommended that you use USB memory sticks of 32 GB or less and USB HDDs of 1 TB or less.
- If a USB HDD with power-saving function does not work properly, turn the power off and on. For more information, refer to the user manual of the USB HDD.
- Data in the USB storage device can be damaged, so be sure to back up important files to other devices. Data maintenance is the user's responsibility and the manufacturer is not responsible for data loss.

#### My Media supporting file

- Maximum data transfer rate : 20 Mbps (Mega bit per second)
- External supported subtitle formats: \*.srt (SubRip), \*.smi (SAMI), \*.sub (SubViewer, MicroDVD, DVDsubtitleSystem, SubIdx(Vobsub)), \*.ass/\*.ssa (SubStation Alpha), \*.txt (TMplayer), \*.psb (PowerDivX)
- Internal supported subtitle formats: XSUB (Supports internal subtitles generated from DivX6)

#### **Supported Video Formats**

- Maximum: 1920 x 1080 @ 30p (only Motion JPEG 640 x 480 @ 30p)
- .asf, .wmv

[Video] MPEG-2, MPEG-4 Part2, XViD, H.264/AVC, VC1(WMV3, WVC1), MP43 [Audio] WMA Standard, WMA9(Pro), MP3, AAC, AC3, 3D WMV

Single Stream

- .divx, .avi
   [Video] MPEG-2, MPEG-4 Part2, DivX3.11, DivX4, DivX5, DivX6, XViD, H.264/AVC
   [Audio] HE-AAC, LPCM, ADPCM, MPEG-1 Layer I, MPEG-1 Layer II, Dolby Digital, MPEG-1 Layer III (MP3)
- .ts, .trp, .tp, .mts, .m2ts [Video] H.264/AVC, MPEG-2, AVS, VC1 [Audio] MPEG-1 Layer I, MPEG-1 Layer II, MPEG-1 Layer III (MP3), Dolby Digital, Dolby Digital Plus, AAC, HE-AAC
- .vob [Video] MPEG-1, MPEG-2 [Audio] Dolby Digital, MPEG-1 Layer I, MPEG-1 Layer II, DVD-LPCM
- .mp4, .m4v, .mov [Video] MPEG-2, MPEG-4 Part2, DivX3.11, DivX4, DivX5, DivX6, XViD, H.264/AVC [Audio] AAC, MPEG-1 Layer III (MP3)
- .mkv

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[Video] MPEG-2, MPEG-4 Part2, XViD, H.264/AVC [Audio] HE-AAC, Dolby Digital, MPEG-1 Layer III (MP3), LPCM

- motion JPEG [Video] MJPEG [Audio] LPCM, ADPCM
- .mpg, .mpeg, .mpe [Video] MPEG-1, MPEG-2 [Audio] MPEG-1 Layer II, MPEG-1 Layer II, Dolby Digital, LPCM
- .dat
   [Video] MPEG-1, MPEG-2
   [Audio] MP2
- flv
   [Video] Sorenson H.263, H.264/AVC
   [Audio] MP3, AAC, HE-AAC
- .3gp, .3gp2 [Video] H.264/AVC, MPEG-4 Part2 [Audio] AAC, AMR(NB/WB)

#### Supported Audio Formats

- File type : mp3
   [Bit rate] 32 Kbps 320 Kbps
   [Sample freq.] 16 kHz 48 kHz
   [Support] MPEG1, MPEG2, Layer2, Layer3
- File Type : AAC [Bit rate] Free Format [Sample freq.] 8 kHz ~ 48 kHz [Support] ADIF, ADTS
- File Type : M4A [Bit rate] Free Format [Sample freq.] 8 kHz ~ 48 kHz [Support] MPEG-4

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- File Type : WMA
   [Bit rate] 128 Kbps ~ 320 Kbps
   [Sample freq.] 8 kHz ~ 48 kHz
   [Support] WMA7, WMA8, WMA9 Standard
- File Type : WMA 10 Pro [Bit rate] ~ 768 Kbps [Channel / Sample freq.]
  M0 : up to 2 Channel @ 48 kHz (Except LBR mode),
  M1 : up to 5.1 Channel @ 48 kHz,
  M2 : up to 5.1 Channel @ 96 kHz
  [Support] WMA 10 Pro
- File Type : OGG [Bit rate] Free Format [Sample freq.] 8 kHz ~ 48 kHz [Support] OGG Vorbis

#### **Supported Photo Formats**

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- Category : 2D (jpeg, jpg, jpe) [Available file type] SOF0: Baseline, SOF1 : Extend Sequential, SOF2 : Progressive [Photo size] Minimum : 64 x 64, Maximum : Normal Type: 15360 (W) x 8640(H), Progressive Type : 1920 (W) x 1440 (H)
- Category : BMP [Photo size] Minimum : 64 x 64, Maximum : 9600 x 6400
- Category : PNG [Available file type] Interlace, Non-Interlace [Photo size] Minimum : 64 x 64, Maximum : Interlace : 1200 x 800, Non-Interlace : 9600 x 6400
- BMP and PNG format files may be slower to display than JPEG.

# ENGLISH

## Maintenance

#### **Cleaning your monitor**

Clean your monitor regularly to keep the best performance and to extend the product lifespan.

- Make sure to turn the power off and disconnect the power cord and all other cables first.
- When the monitor 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.

#### Screen, frame, cabinet, and stand

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.

- Avoid touching the screen at all times, as this may result in damage to the screen.
- Do not push, rub, or hit the surface with your fingernail or a sharp object, as this may result in scratches on the screen 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 monitor, it may result in fire, electric shock, or malfunction.

#### Power cord

Remove the accumulated dust or dirt on the power cord regularly.

## Preventing "Image burn" or "Burn-in" on your monitor screen

- If a fixed image displays on the monitor screen for a long period of time, it will be imprinted and become a permanent disfigurement on the screen. This is "image burn" or "burn-in" and not covered by the warranty.
- If the aspect ratio of the monitor is set to 4:3 for a long period of time, image burn may occur on the letterboxed area of the screen.

#### **NOTE**

- Avoid keeping a fixed image on the set's screen for prolonged periods of time. The fixed image may become permanently imprinted on the screen. Use a screen saver when possible.
- There may be interference relating to resolution, vertical pattern, contrast or brightness in PC mode. Change the PC mode to another resolution or change the refresh rate to another rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.
- If using a sound card, adjust PC sound as required.
- DOS mode may not work depending on the video card if you use an HDMI to DVI cable.

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## Troubleshooting

#### Cannot control the monitor with the remote control.

- Check the remote control sensor on the product and try again.
- Check if there is any obstacle between the product and the remote control.
- Check if the batteries are still working and properly installed (-) to (-).

#### No image display and no sound is produced.

- Check if the product is turned on.
- Check if the power cord is connected to a wall outlet.
- Check if there is a problem in the wall outlet by connecting other products.

#### The monitor turns off suddenly.

- Check the power control settings. The power supply may be interrupted.
- Check if the Automatic Standby(Depending on model) / Sleep Timer / Off Time is activated in the TIME settings.
- If there is no signal while the monitor is on, the monitor will turn off automatically after 15 minutes of inactivity.

## When connecting to the PC (HDMI), 'No signal' or 'Invalid Format' is displayed.

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

#### If monitor is turned off automatically.

- If On Time is enabled, the monitor will be turned on at the specified time. If you do not operate the monitor for two hours, the monitor will be turned off automatically.
- To disable this function, use your remote control to go to SETTINGS ⇒ TIME ⇒ Auto Off (On Time) ⇒ Off.



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

	Operating Temperature	0 °C to 40 °C	
Environment condition	Operating Humidity	Less than 80 %	
Environment condition	Storage Temperature	-20 °C to 60 °C	
	Storage Humidity	Less than 85 %	

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Models		24MN49HM	28MN49HM
	With Stand	556 x 387.3 x 146.3	641.5 x 435.5 x 186.1
Dimensions (Width x Height x Depth) (mm)	Without Stand	556 x 345.2 x 53.1	641.5 x 396.3 x 57.5
	With Stand	3.4	4.7
Weight (kg)	Without Stand	3.2	4.5
Power consumption (Outgoing condition)	28 W		
Power requirement	19 V = = = 1.6 A		
AC/DC Adapter	Manufacturer : Lien Chang Model : LCAP21A Manufacturer : Honor Model : ADS-405G-19-3 19032G In : AC 100 - 240 V ~ 50/60 Hz Out : DC 19 V = -= 1.7 A		



#### HDMI (PC) supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
720 x 400	31.468	70.08
(40 - 400	31.469	59.94
640 x 480	37.500	75.00
800 x 600	37.879	60.317
800 X 800	46.875	75.00
1024 x 768	48.363	60.004
	60.023	75.029
1280 x 800	49.702	59.81
1366 x 768	47.717	59.79

• The optimal display resolution is 1366 x 768 @ 60 Hz.

• The optimal timing in each mode is vertical frequency 60 Hz

#### HDMI supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
720 x 480	31.469	59.940
720 X 400	31.5000	60.000
720 x 576	31.250	50.000
	37.500	50.000
1280 x 720	44.960	59.940
	45.000	60.000
	33.720	59.940
	33.750	60.000
	28.125	50.000
1020 1000	27.000	24.000
1920 x 1080	33.750	30.000
	56.250	50.000
	67.430	59.940
	67.500	60.000

## Service

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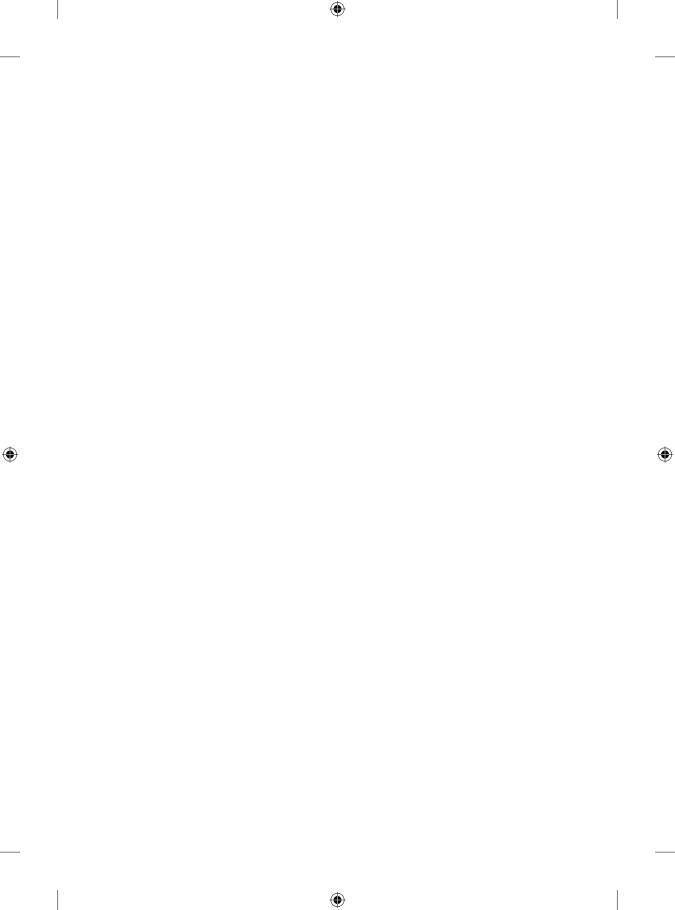
Unplug the monitor from the wall outlet and refer servicing to qualified service personnel when :

- The power cord or plug is damaged or frayed.
- Liquid has been spilled into the monitor.
- The monitor has been exposed to rain or water.
- The monitor does not operate normally following the operating instructions. Adjust only those controls that are covered in the operating instructions. An improper adjustment of other controls may result in damage and often requires extensive work by a qualified technician to restore the monitor to normal operation.
- The monitor has been dropped or the cabinet has been damaged.
- The monitor exhibits a distinct change in performance.
- Snapping or popping from the monitor is continuous or frequent while the monitor is operating. It is normal for some monitors to make occasional sounds when being turned on or off, or when changing video modes.

Do not attempt to service the monitor yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to gualified service personnel.

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Record the model number and serial number of the monitor. Refer to the label on the back cover and quote this

information to your dealer when requiring any service.

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MODEL

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SERIAL