



G Series  
LCD Monitor  
User Manual



## Copyright

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The performance of flicker-free may be affected by external factors such as poor cable quality, unstable power supply, signal interference, or poor grounding, and not limited to the above mentioned external factors. (Applicable for flicker-free models only.)

## BenQ ecoFACTS

BenQ has been dedicated to the design and development of greener product as part of its aspiration to realize the ideal of the "Bringing Enjoyment 'N Quality to Life" corporate vision with the ultimate goal to achieve a low-carbon society. Besides meeting international regulatory requirement and standards pertaining to environmental management, BenQ has spared no efforts in pushing our initiatives further to incorporate life cycle design in the aspects of material selection, manufacturing, packaging, transportation, using and disposal of the products. BenQ ecoFACTS label lists key eco-friendly design highlights of each product, hoping to ensure that consumers make informed green choices at purchase. Check out BenQ's CSR Website at <http://csr.BenQ.com/> for more details on BenQ's environmental commitments and achievements.



# Power Safety



Please follow these safety instructions for best performance, and long life for your monitor.



- The AC plug isolates this equipment from the AC supply.
- The power supply cord serves as a power disconnect device for pluggable equipment. The socket outlet should be installed near the equipment and be easily accessible.
- This product should be operated from the type of power indicated on the marked label. If you are not sure of the type of power available, consult your dealer or local power company.
- The Class I pluggable equipment Type A must be connected to protective earth.
- An approved power cord greater or equal to H03VV-F or H05VV-F, 2G or 3G, 0.75mm<sup>2</sup> must be used.

For Germany only:

- (If the weight of the product is less than or equal to 3 kg) An approved power cord greater or equal to H03VV-F, 3G, 0.75mm<sup>2</sup> must be used.
- (If the weight of the product is more than 3 kg) An approved power cord greater or equal to H05VV-F or H05RR-F, 3G, 0.75mm<sup>2</sup> must be used.
- (If a remote control is provided) RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

For models with adapter:

- Use only the power adapter supplied with your LCD Monitor. Use of another type of power adapter will result in malfunction and/or danger.
- Allow adequate ventilation around the adapter when using it to operate the device or charge the battery. Do not cover the power adapter with paper or other objects that will reduce cooling. Do not use the power adapter while it is inside a carrying case.
- Connect the power adapter to a proper power source.
- Do not attempt to service the power adapter. There are no service parts inside. Replace the unit if it is damaged or exposed to excess moisture.

## Care And Cleaning

- Do not place the monitor face down on the floor or a desk surface directly. Otherwise, scratches on the panel surface may occur.

- The equipment is to be secured to the building structure before operation.
- (For models that support wall or ceiling mounting)
  - Install your monitor and monitor mounting kit on a wall with flat surface.
  - Ensure that the wall material and the standard wall mount bracket (purchased separately) are stable enough to support the weight of the monitor.
  - Turn off the monitor and the power before disconnecting the cables from the LCD monitor.
- Always unplug the product from the power outlet before cleaning. Clean the LCD monitor surface with a lint-free, non-abrasive cloth. Avoid using any liquid, aerosol or glass cleaners.
- Slots and openings on the back or top of the cabinet are for ventilation. They must not be blocked or covered. Your monitor should never be placed near or over a radiator or heat sources, or in a built-in installation unless proper ventilation is provided.
- Do not place heavy loads on the monitor to avoid possible personal injury or damage to the monitor.
- Consider keeping the box and packaging in storage for use in the future when you may need to transport the monitor.
- Refer to the product label for information on power rating, manufacture date, and identification markings.

## Servicing

- Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltages or other risks. If any of the above mentioned misuse or other accident such as dropping or mishandling occurs, contact qualified service personnel for servicing.
- Contact your place of purchase or visit the local website from [www.BenQ.com](http://www.BenQ.com) for more support.

## Caution

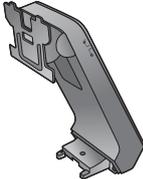
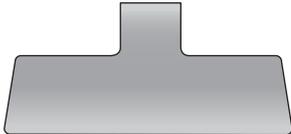
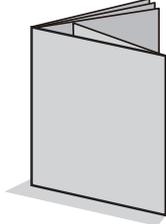
- The monitor should be 50 ~ 70 cm (20 ~ 28 inches) away from your eyes.
- Looking at the screen for an extended period of time causes eye fatigue and may deteriorate your eyesight. Rest your eyes for 5 ~ 10 minutes for every 1 hour of product use.
- Reduce your eye strain by focusing on objects far way.
- Frequent blinking and eye exercise help keep your eyes from drying out.

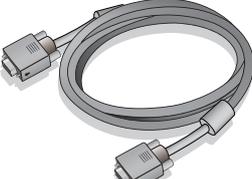
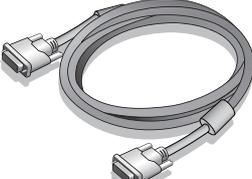
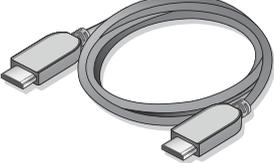
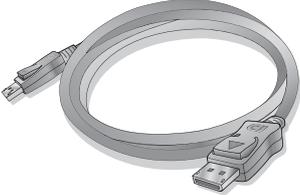
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# Getting started

When unpacking please check you have the following items. If any are missing or damaged, please contact the place of purchase for a replacement.

BenQ LCD Monitor	<p>(Models with Bright Intelligence function)</p>  <p>(Models without Bright Intelligence function)</p> 
Monitor Stand	
Monitor Base	
Quick Start Guide	
CD-ROM	

<p><b>Power Cord</b> (Picture may differ from product supplied for your region.)</p>	
<p><b>Video Cable: D-Sub</b> (For GW2280 only)</p>	
<p><b>Video Cable: DVI-D</b> (Optional accessory)</p>	
<p><b>Video Cable: HDMI</b> (Selected models only)</p>	
<p><b>Video Cable: DP</b> (Optional accessory)</p>	
<p><b>Audio Cable</b> (Optional accessory)</p>	



• Available accessories and the pictures shown here may differ from the actual contents and the product supplied for your region. And the package contents may subject to change without prior notice. For cables that are not supplied with your product, you can purchase them separately.

• Consider keeping the box and packaging in storage for use in the future when you may need to transport the monitor. The fitted foam packing is ideal for protecting the monitor during transport.

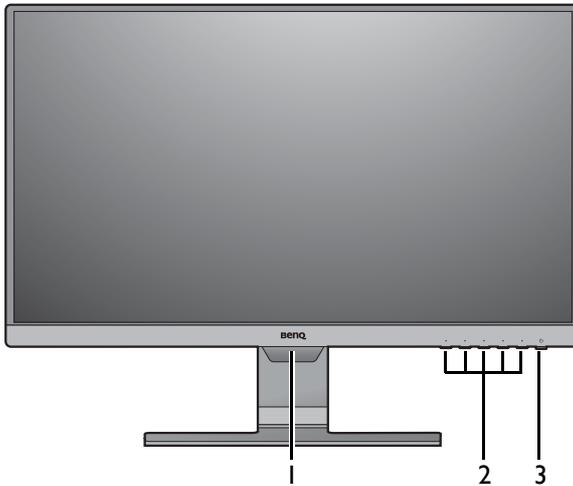


Always keep the product and accessories out of reach of small children.

# Getting to know your monitor

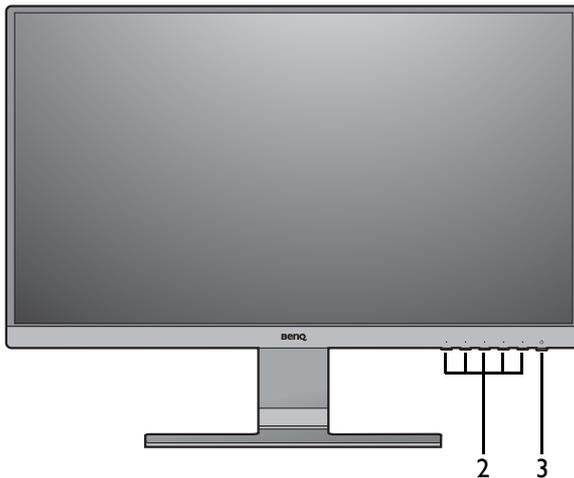
## Front view

(Models with Bright Intelligence function)

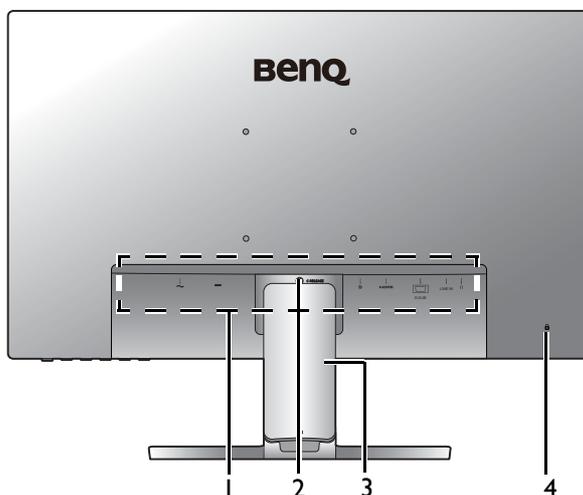


1. Light sensor (available for models with Bright Intelligence)
2. Control buttons
3. Power button / Power LED indicator

(Models without Bright Intelligence function)



## Back view



1. Input and output ports (vary by model, see [Input and output ports on page 9](#))
2. Stand release
3. Cable cover
4. Kensington lock slot

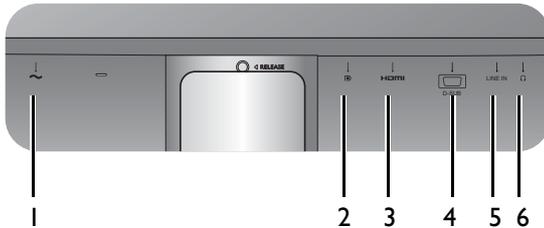


- Above diagram may vary depending on the model.
- Picture may differ from product supplied for your region.

## Input and output ports

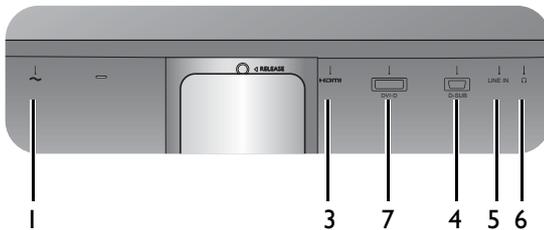
Available input and output ports may vary depending on your purchased model. Check the **Specification** document on the provided CD for details.

### Models with DP inputs



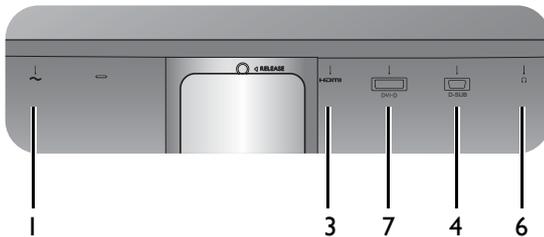
1. AC power input jack
2. DisplayPort socket
3. HDMI socket
4. D-Sub socket

### GL2580HM

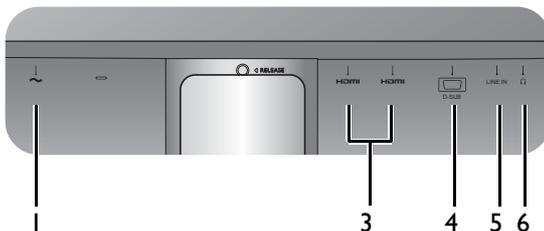


5. Audio Line In
6. Headphone jack
7. DVI-D socket

### GL2580H



### GW2280

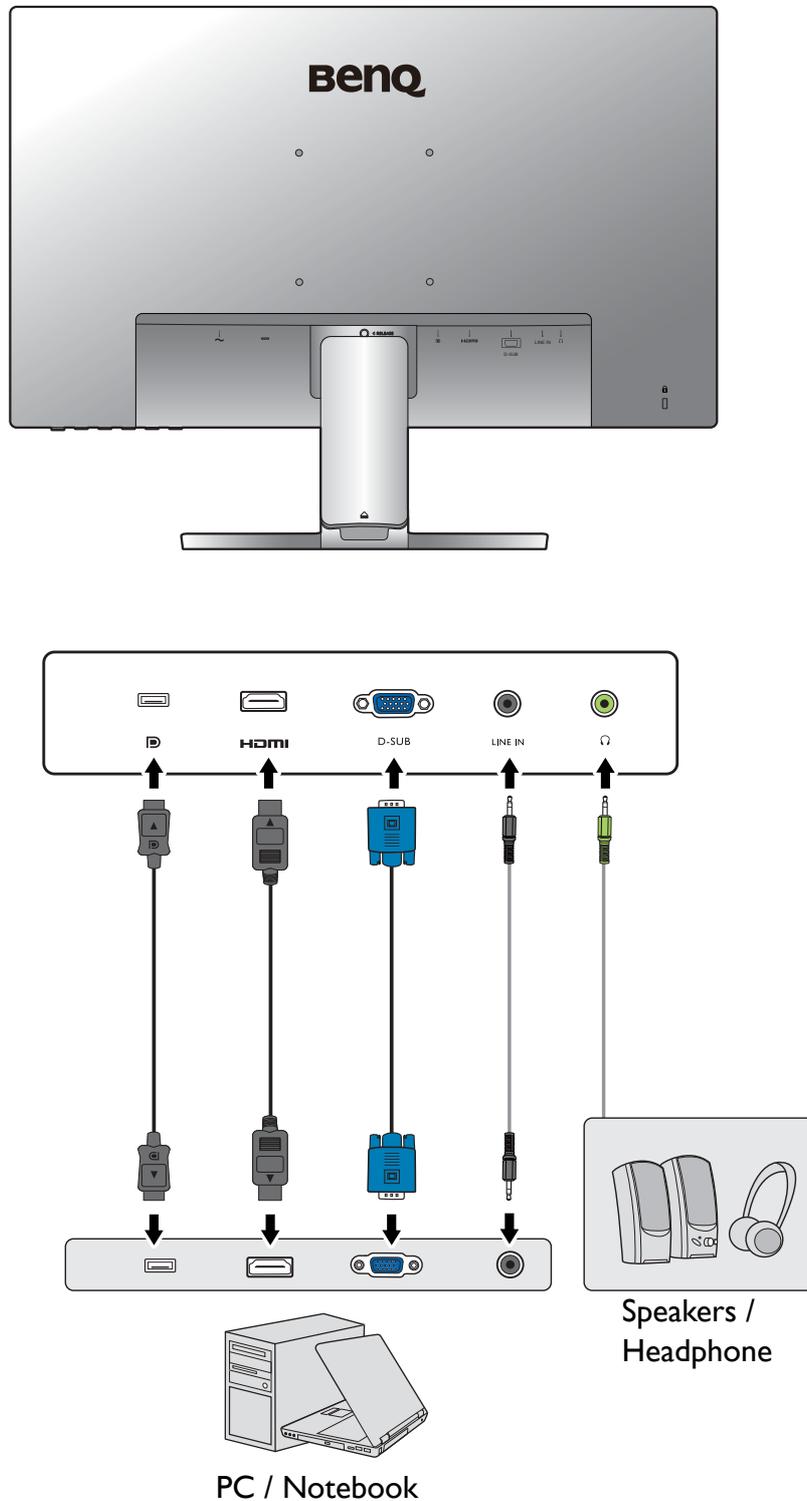


## Connections

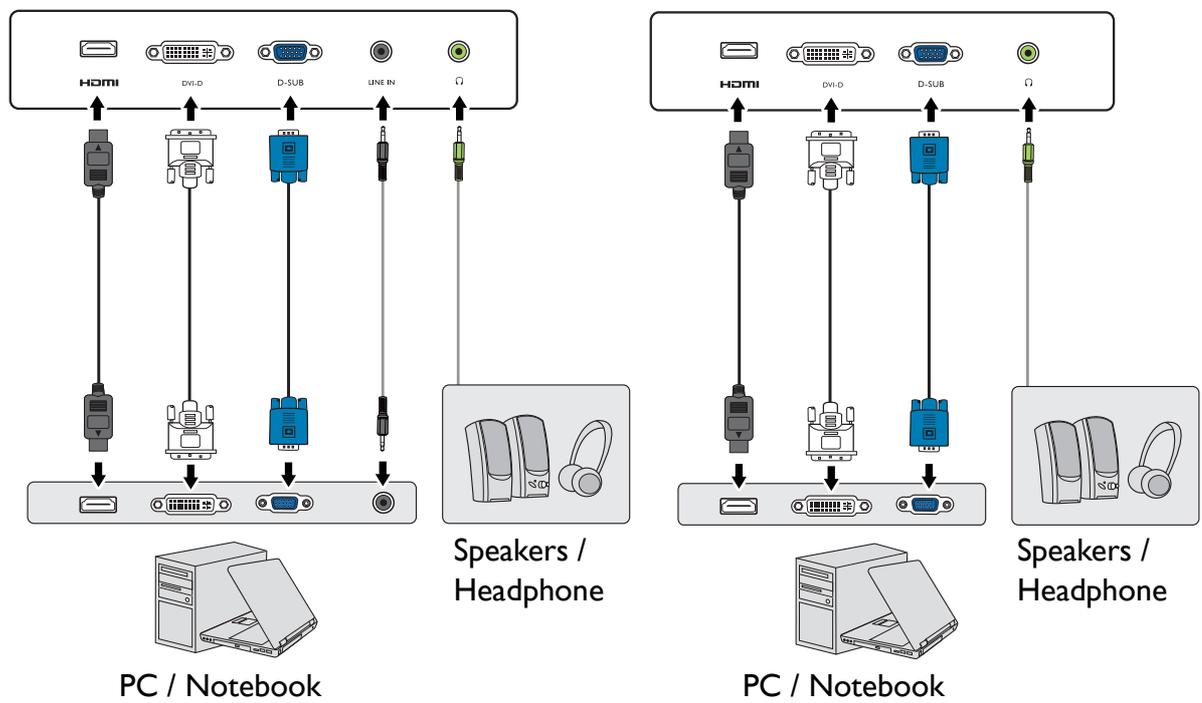
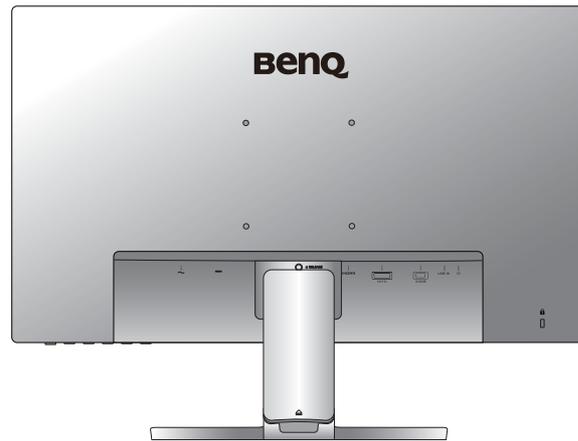
The following connection illustrations are for your reference only. For cables that are not supplied with your product, you can purchase them separately.

For detailed connection methods, see page 15 - 16.

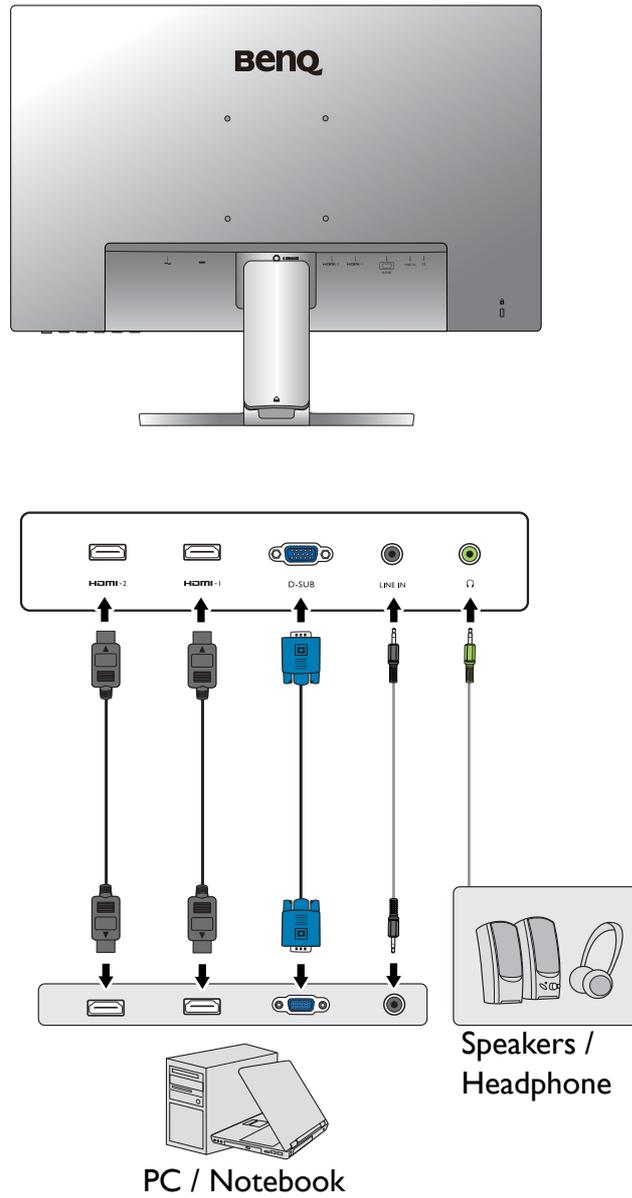
Models with DP inputs



## Models with DVI inputs



GW2280



The location and available input and output jacks may vary depending on the purchased model.

# How to assemble your monitor hardware



- If the computer is turned on you must turn it off before continuing.
- Do not plug-in or turn-on the power to the monitor until instructed to do so.
- The illustrations in this document are for your reference only and may look different from the appearance of the product.
- The following illustrations are for your reference only. The location and available input and output jacks may vary depending on the purchased model.
- Avoid finger pressure on the screen surface.

## I. Attach the monitor base.



Please be careful to prevent damage to the monitor. Placing the screen surface on an object like a stapler or a mouse will crack the glass or damage the LCD substrate voiding your warranty. Sliding or scraping the monitor around on your desk will scratch or damage the monitor surround and controls.

Protect the monitor and screen by clearing a flat open area on your desk and placing a soft item like the monitor packaging bag on the desk for padding.

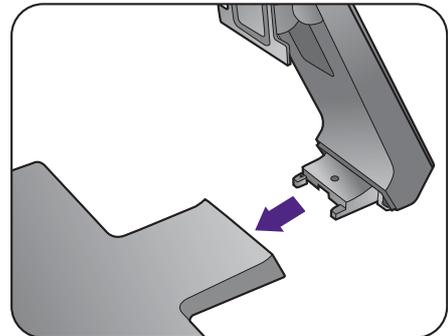
Gently lay the screen face down on a flat clean padded surface.



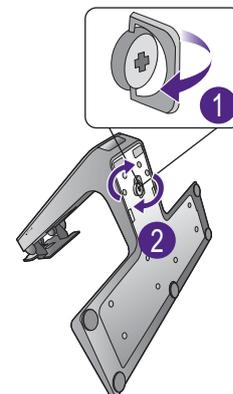
Attach the monitor stand to the monitor base as illustrated until it locks in place.



Pay attention to the sharp parts during assembly.



Tighten the thumbscrew on the bottom of the monitor base as illustrated.



Orient and align the stand arm with the monitor, then push them together until they click and lock into place.



Carefully lift the monitor, turn it over and place it upright on its stand on a flat even surface.



You should position the monitor and angle the screen to minimize unwanted reflections from other light sources.

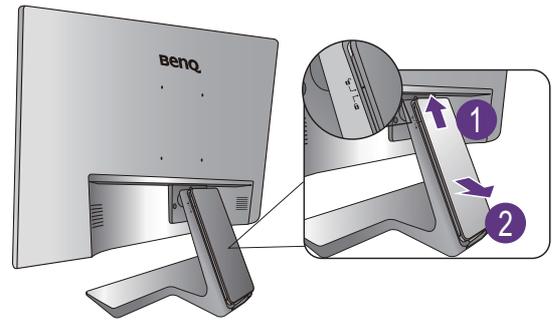


Your monitor is an edge to edge monitor and should be handled with care. Adjust the screen angle by placing your hands on the top and on the base of the monitor as illustrated. Excessive force on the display is prohibited.



## 2. Remove the cover of the cable management system.

The stand arm also works as a cable management system that helps keep the cables neat and clean. Slide the cable cover up to align the marking on the cable cover with the unlock icon on the stand arm. Remove the cover as illustrated. You can have one power cord, two video cables, and one audio cable routed together.



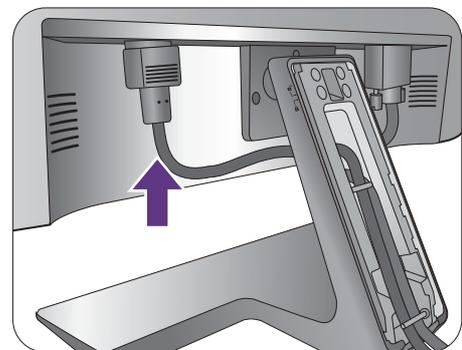
Pass a cable through the cable management hole on the stand arm first while cabling. Start with the ones with bigger connectors.

- ! Allow enough cable length while cabling to avoid loose connection and to save the pins or socket connectors from being bent or broken.

## 3. Connect the power cable to the monitor.

Pass the cable through the cable management hole on the stand arm first.

Plug one end of the power cord into the socket labelled  on the rear of the monitor. Do not connect the other end to a power outlet just yet.



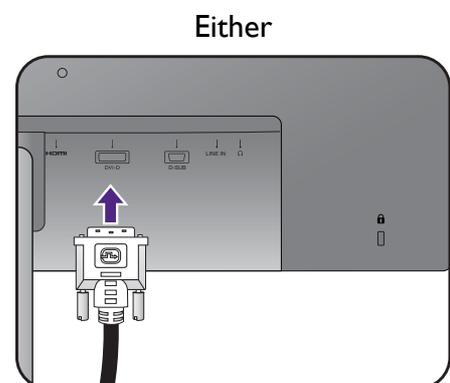
## 4. Connect the PC video cable

-  Do not use both DVI-D cable and D-Sub cable on the same PC. The only case in which both cables can be used is if they are connected to two different PCs with appropriate video systems.

### To Connect the DVI-D Cable

Pass the cable through the cable management hole on the stand arm first. Connect the plug of the DVI-D cable (at the end without the ferrite filter) to the monitor video socket. Connect the other end of the cable (at the end with the ferrite filter) to the computer video socket.

Tighten all finger screws to prevent the plugs from accidentally falling out during use.



### To Connect the D-Sub Cable

Pass the cable through the cable management hole on the stand arm first. Connect the plug of the D-Sub cable (at the end without the ferrite filter) to the monitor video socket. Connect the other end of the cable (at the end with the ferrite filter) to the computer video socket.

Tighten all finger screws to prevent the plugs from accidentally falling out during use.

### To Connect the HDMI Cable

Pass the cable through the cable management hole on the stand arm first. Connect the plug of the HDMI cable to the HDMI port on the monitor. Connect the other end of the cable to the HDMI port of a digital output device.

### To Connect the DP Cable

Pass the cable through the cable management hole on the stand arm first. Connect the plug of the DP cable to the monitor video socket.



If there is more than one video transmission method available to you, you might want to take the picture quality of each video cable into consideration before making the connection.

- Better quality: HDMI / DP / DVI-D
- Good quality: D-Sub

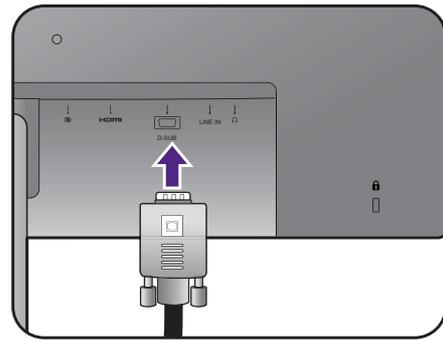


The video cables included in your package and the socket illustrations on the right may vary depending on the product supplied for your region.

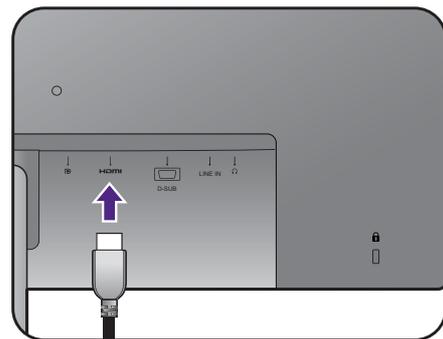
## 5. Connect the headphone.

You may connect headphones to the headphone jack found on the rear of the monitor.

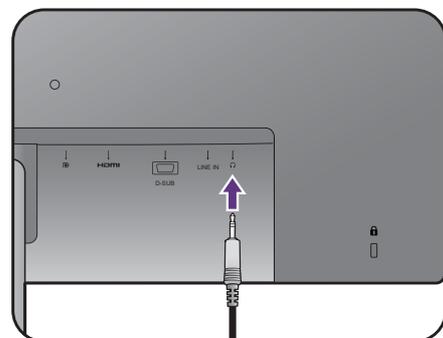
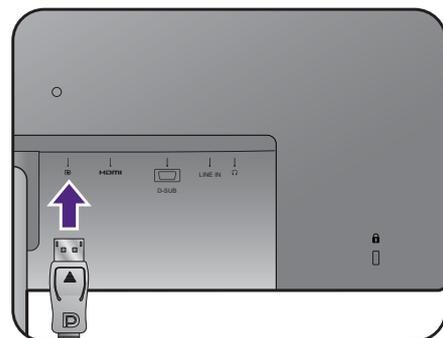
Or



Or

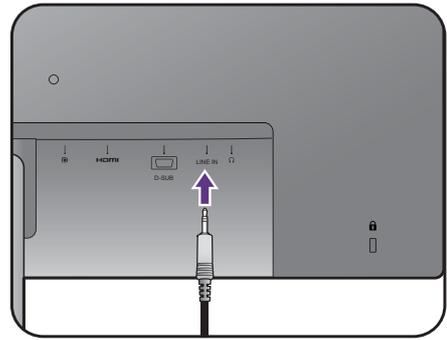


Or



## 6. Connect the audio cable.

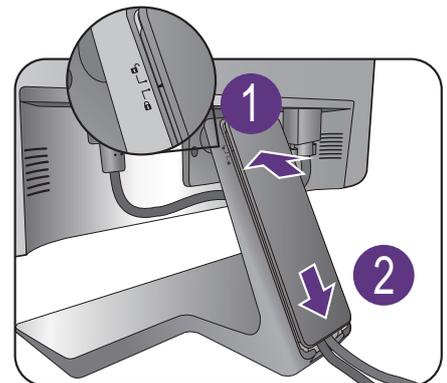
Connect the audio cable between the socket on the rear of the monitor (Line In) and your computer audio outlet.



## 7. Install the cable cover.

After all cables have been connected to the monitor, work with the cable management system to route the cables properly.

Align the marking on the cable cover to the unlock icon on the stand arm. Install the cable cover back to the stand arm, and slide down to lock it into place. The marking on the cable cover should be aligned with the lock icon on the stand arm by now.



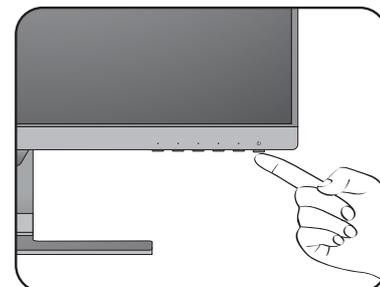
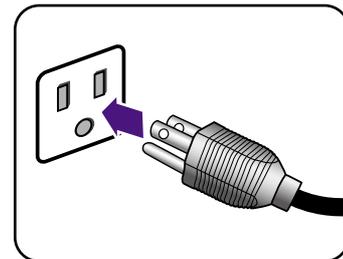
## 8. Connect-to and turn-on the power.

Plug the other end of the power cord into a power outlet and turn it on.



Picture may differ from product supplied for your region.

Turn on the monitor by pressing the power button on the monitor.

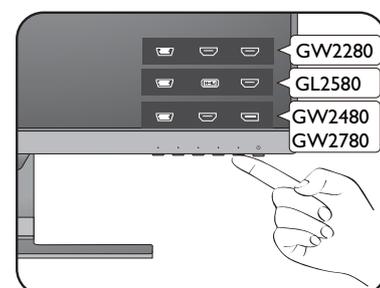


Turn on the computer too, and select an input source by the OSD control keys.

Follow the instructions in [Getting the most from your BenQ monitor on page 22](#) to install the monitor software.



To extend the service life of the product, we recommend that you use your computer's power management function.



# How to detach the stand and the base

## 1. Prepare the monitor and area.

Turn off the monitor and the power before unplugging the power cable. Turn off the computer before unplugging the monitor signal cable.

Protect the monitor and screen by clearing a flat open area on your desk and placing a soft item like a towel on the desk for padding, before laying the screen face down on a flat clean padded surface.



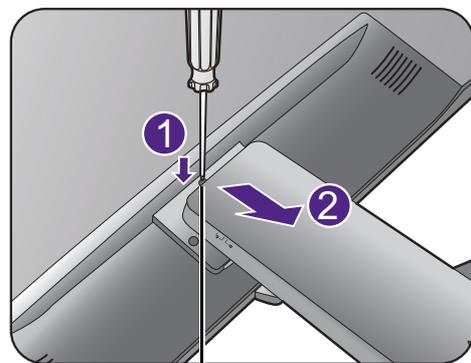
Please be careful to prevent damage to the monitor. Placing the screen surface on an object like a stapler or a mouse will crack the glass or damage the LCD substrate voiding your warranty. Sliding or scraping the monitor around on your desk will scratch or damage the monitor surround and controls.



## 2. Remove the monitor stand.

Push down the stand gently until you cannot go further so you can see the release button clearly.

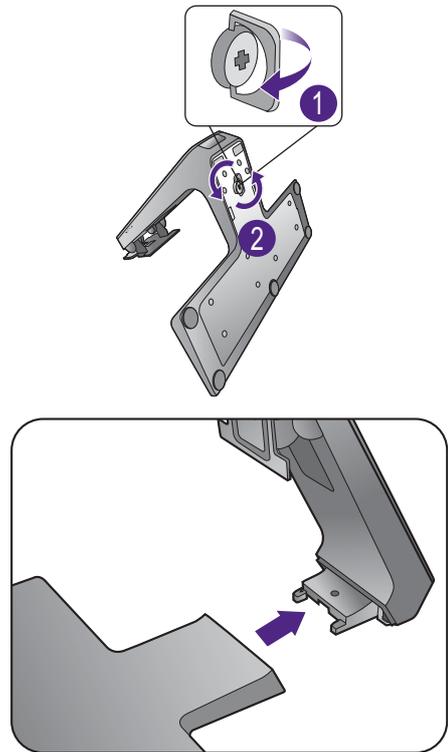
Insert a pointed object such as a screwdriver to the hole above the monitor stand arm, and then push the screwdriver against the release button inside the hole. Then pull the monitor stand backward away from the monitor.



Release button

### 3. Remove the monitor base.

Release the thumbscrew on the bottom of the monitor base and detach the monitor base as illustrated.



## Using the monitor wall mounting kit

The back of your LCD monitor has a VESA standard mount with 100mm pattern, allowing the installation of a wall mount bracket. Before starting to install a monitor wall mounting kit, please read the precautions carefully.

### Precautions

- Install your monitor and monitor mounting kit on a wall with flat surface.
- Ensure that the wall material and the standard wall mount bracket (purchased separately) are stable enough to support the weight of the monitor. Refer to the product specifications for weight information.
- Turn off the monitor and the power before disconnecting the cables from the LCD monitor.

### I. Remove the monitor stand.

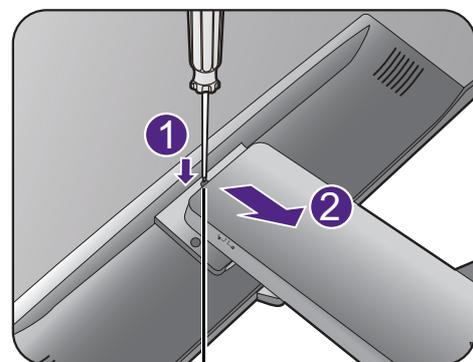
Lay the screen face down on a clean and well-padded surface.

Push down the stand gently until you cannot go further so you can see the release button clearly.

Insert a pointed object such as a screwdriver to the hole above the monitor stand arm, and then push the screwdriver against the release button inside the hole. Then pull the monitor stand backward away from the monitor.



In case you intend to use your monitor on the stand in the future, please keep the monitor base, monitor stand, and screws somewhere safe for future use.

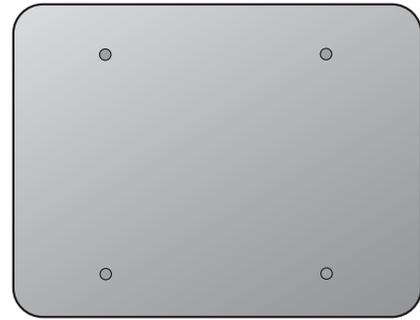


Release button

2. Follow the instruction manuals of the wall mount bracket you purchased to complete the installation.



Use four M4 x 10 mm screws to fix a VESA standard wall mount bracket to the monitor. Make sure that all screws are tightened and secured properly. Consult a professional technician or BenQ service for wall mount installation and safety precautions.



# Getting the most from your BenQ monitor

To gain the most benefit from your new BenQ LCD monitor, you should install the custom BenQ LCD Monitor driver software as provided on the BenQ LCD Monitor CD-ROM.

The circumstances under which you connect and install your BenQ LCD Monitor will determine which process you need to follow to successfully install the BenQ LCD Monitor driver software. These circumstances relate to which version of Microsoft Windows you are using, and whether you are connecting the monitor and installing the software onto a new computer (without existing monitor driver software), or whether you are upgrading an existing installation (which already has existing monitor driver software) with a newer monitor.

In either case however, the very next time you turn on your computer (after connecting the monitor to your computer), Windows will automatically recognize the new (or different) hardware, and will launch its **Found New Hardware wizard**.

Follow the wizard instructions until it asks you to select a monitor model. At that point, click the **Have Disk** button, insert the BenQ LCD Monitor CD-ROM and select the appropriate monitor model. Further details and step-by-step instructions for either an automatic (new) or upgrade (existing) installation, see:

- [How to install the monitor on a new computer on page 23.](#)
- [How to upgrade the monitor on an existing computer on page 24.](#)



- If you require a User Name and Password to login to your Windows computer, you must be logged on as an Administrator or as a member of the Administrators group in order to install the monitor driver software. Furthermore, if your computer is connected to a network which has security access requirements, network policy settings may prevent you from installing software on your computer.
  - To check the name of the purchased model, refer to the specification label on the back of the monitor.
-

## How to install the monitor on a new computer

This instruction details the procedure for selecting and installing the BenQ LCD Monitor driver software on a new computer which has never had a monitor driver installed before. This instruction is only suitable for a computer which has never been used before, and for which the BenQ LCD Monitor is the first ever monitor to be connected to it.



If you are adding the BenQ LCD Monitor to an existing computer that has already had another monitor connected to it (and has monitor driver software installed), you should not be following these instructions. You should instead be following the instructions for [How to upgrade the monitor on an existing computer](#).

1. Follow the instructions in [How to assemble your monitor hardware on page 13](#).  
When Windows starts, it will automatically detect the new monitor and launch the **Found New Hardware Wizard**. Follow the prompts until it displays the option to **Install Hardware Device Drivers**.
2. Insert the BenQ LCD Monitor CD-ROM into a CD drive on the computer.
3. Check **Search for a suitable driver for my device** option, and click **Next**.
4. Check the option for CD-ROM drives (uncheck all others) and click **Next**.
5. Look to confirm that the wizard has selected the correct name of your monitor and click **Next**.
6. Click **Finish**.
7. Restart the computer.



To find the suitable driver files for the purchased model, refer to the following table.

Driver files	Suitable models
GW2280	GW2280 / GW2280E
GW2480	GW2480 / GW2480E
GL2580	GL2580H / GL2580HE / GL2580HM / GL2580ME
GW2780	GW2780 / GW2780E

## How to upgrade the monitor on an existing computer

This instruction details the procedure for manually updating the existing monitor driver software on your Microsoft Windows computer. It is currently tested as compatible for Windows 10, Windows 8 (8.1), and Windows 7 Operating System (OS).



The BenQ LCD Monitor driver for your model may well function perfectly with other versions of Windows, however, as at the time of writing, BenQ has done no testing of this driver on other versions of Windows and cannot guarantee its operation on those systems.

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Installing monitor driver software involves selecting an appropriate information file (.inf) on the BenQ LCD Monitor CD-ROM for the particular model monitor you have connected, and letting Windows install the corresponding driver files from the CD. You need only steer it in the right direction. Windows has an Upgrade Device Driver Wizard to automate the task and guide you through the file selection and installation process.

See:

- [How to install on Windows 10 system on page 25](#)
- [How to install on Windows 8 \(8.1\) system on page 26](#)
- [How to install on Windows 7 system on page 27.](#)

## How to install on Windows 10 system

1. Open **Display Properties**.

Go to **Start, Settings, Devices, Devices and Printers** and right-click the name of your monitor from the menu.

2. Select **Properties** from the menu.

3. Click the **Hardware** tab.

4. Click **Generic PnP Monitor**, and then the **Properties** button.

5. Click the **Driver** tab and the **Update Driver** button.

6. Insert the BenQ LCD Monitor CD-ROM into a CD drive on the computer.

7. In the **Update Driver Software** window, select the option **Browse my computer for driver software**.

8. Click **Browse** and navigate to the following directory: d:\BenQ\_LCD\Driver\ (where d is the drive letter designator for the CD-ROM drive).



The drive letter for your CD drive may differ from the example above depending upon your system - it may be 'D:' or 'E:' or 'F:' etc.

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9. Select the correct folder name of your monitor from provided driver list, and click **Next**.

This will copy and install the appropriate monitor driver files to your computer.

10. Click **Close**.

You may be prompted to restart your computer after the driver update is complete.

## How to install on Windows 8 (8.1) system

### 1. Open **Display Properties**.

Move the cursor to the lower-right of the screen or press the **Windows + C** buttons on the keyboard to bring up the **Charm** bar. Go to **Settings, Control Panel, Devices and Printers** and right-click the name of your monitor from the menu.

Alternatively, right-click the desktop and select **Personalize, Display, Devices and Printers**, and right-click the name of your monitor from the menu.

### 2. Select **Properties** from the menu.

### 3. Click the **Hardware** tab.

### 4. Click **Generic PnP Monitor**, and then the **Properties** button.

### 5. Click the **Driver** tab and the **Update Driver** button.

### 6. Insert the BenQ LCD Monitor CD-ROM into a CD drive on the computer.

### 7. In the **Update Driver Software** window, select the option **Browse my computer for driver software**.

### 8. Click **Browse** and navigate to the following directory: d:\BenQ\_LCD\Driver\ (where d is the drive letter designator for the CD-ROM drive).



The drive letter for your CD drive may differ from the example above depending upon your system - it may be 'D:' or 'E:' or 'F:' etc.

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### 9. Select the correct folder name of your monitor from provided driver list, and click **Next**.

This will copy and install the appropriate monitor driver files to your computer.

### 10. Click **Close**.

You may be prompted to restart your computer after the driver update is complete.

## How to install on Windows 7 system

1. Open **Display Properties**.

Go to **Start, Control Panel, Hardware and Sound, Devices and Printers** and right-click the name of your monitor from the menu.

Alternatively, right-click the desktop and select **Personalize, Display, Devices and Printers**, and right-click the name of your monitor from the menu.

2. Select **Properties** from the menu.
3. Click the **Hardware** tab.
4. Click **Generic PnP Monitor**, and then the **Properties** button.
5. Click the **Driver** tab and the **Update Driver** button.
6. Insert the BenQ LCD Monitor CD-ROM into a CD drive on the computer.
7. In the **Update Driver Software** window, select the option **Browse my computer for driver software**.
8. Click **Browse** and navigate to the following directory: d:\BenQ\_LCD\Driver\ (where d is the drive letter designator for the CD-ROM drive).



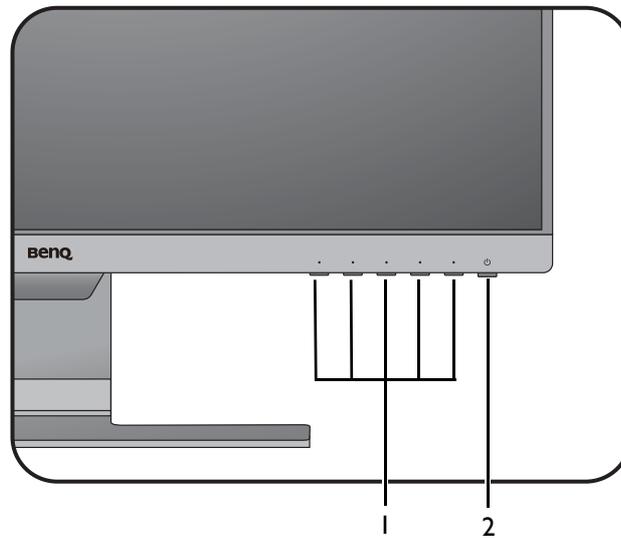
The drive letter for your CD drive may differ from the example above depending upon your system - it may be 'D:' or 'E:' or 'F:' etc.

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9. Select the correct folder name of your monitor from provided driver list, and click **Next**.  
This will copy and install the appropriate monitor driver files to your computer.
10. Click **Close**.  
You may be prompted to restart your computer after the driver update is complete.

# How to adjust your monitor

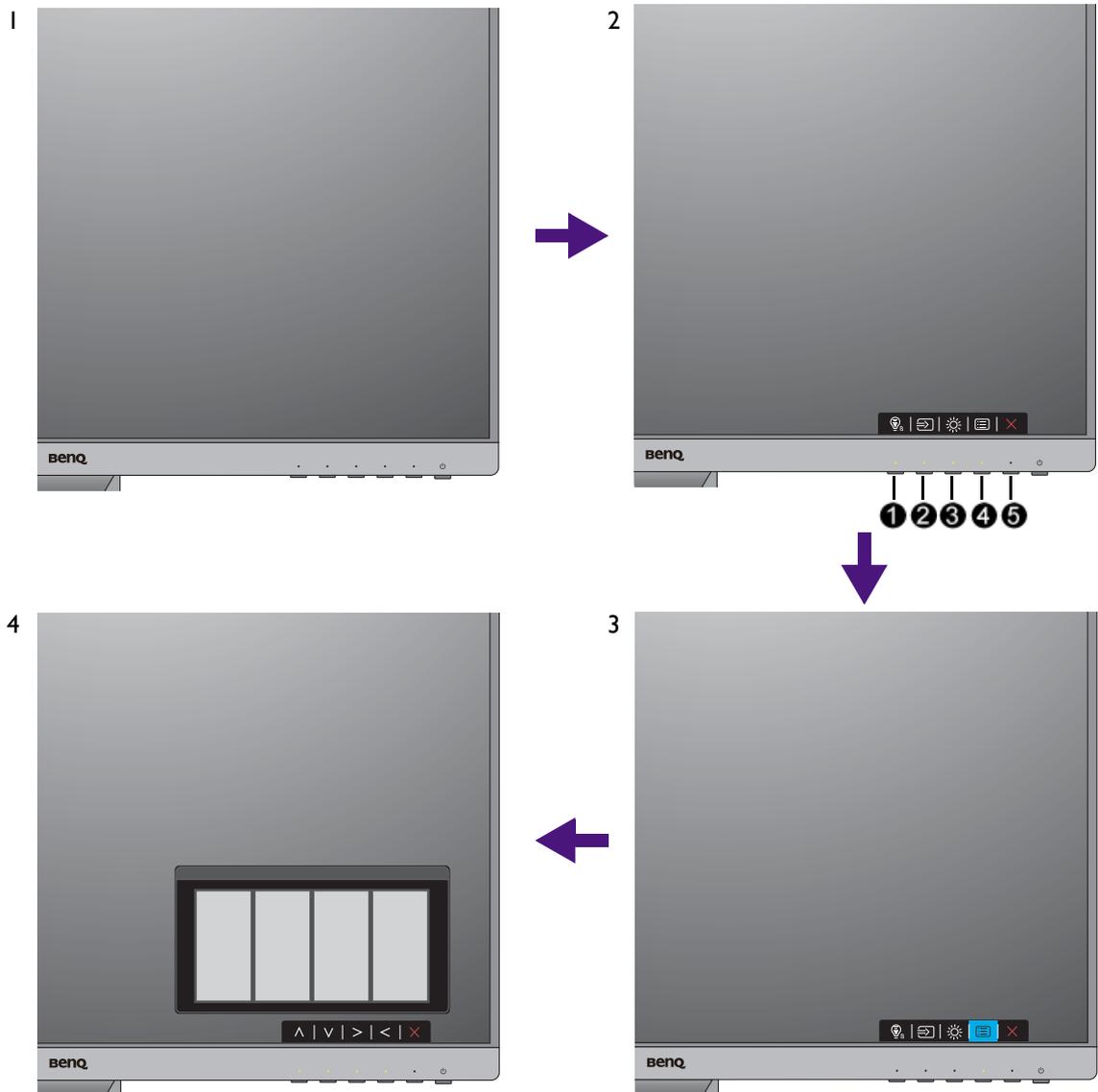
## The control panel



No.	Name	Description
1.	Control keys	Accesses the functions or menu items displayed on the screen, right next to each key.
2.	Power key	Turns the power on or off.

## Basic menu operation

All OSD (On Screen Display) menus can be accessed by the control keys. You can use the OSD menu to adjust all the settings on your monitor.



1. Press any of the control keys.
2. The hot key menu is displayed. The left three controls are custom keys and are designated for particular functions.
3. Select  (**Menu**) to access the main menu.
4. In the main menu, follow the icons next to the control keys to make adjustments or selection. See [Navigating the main menu on page 33](#) for details on the menu options.

No.	OSD in hot key menu	OSD icon in main menu	Function
①	<b>Custom Key 1</b>	^	<ul style="list-style-type: none"> <li>• By default, the key is the hot key for <b>Low Blue Light</b>. To change the default settings, see <a href="#">Customizing the hot keys on page 31</a>.</li> <li>• For Up/Increase adjustment.</li> </ul>

No.	OSD in hot key menu	OSD icon in main menu	Function
②	Custom Key 2	∨	<ul style="list-style-type: none"> <li>• By default, the key is the hot key for <b>Input</b>. To change the default settings, see <a href="#">Customizing the hot keys on page 31</a>.</li> <li>• For Down/Decrease adjustment.</li> </ul>
③	Custom Key 3	> / ✓	<ul style="list-style-type: none"> <li>• By default, the key is the hot key for <b>Volume</b> (for models with speakers) or <b>Brightness</b> (for models without speakers). To change the default settings, see <a href="#">Customizing the hot keys on page 31</a>.</li> <li>• Enters sub menus.</li> <li>• Selects menu items.</li> </ul>
④	Menu	<	<ul style="list-style-type: none"> <li>• Activates the main menu.</li> <li>• Returns to the previous menu.</li> </ul>
⑤	Exit	✕	Exits OSD menu.



- OSD = On Screen Display.

The hot keys only operate while the main menu is not currently displaying. Hot key displays will disappear after a few seconds of no key activity.

- To unlock the OSD controls, press and hold any key for 10 seconds.

## Picture optimization

The easiest way to obtain an optimal display from an analog (D-Sub) input is to use the **Auto Adjustment** function. Go to **Display** and **Auto Adjustment** to optimize the currently displayed image to the screen.



When you connect a digital input signal using a digital (DVI, HDMI, or DP) cable to your monitor, the **Auto Adjustment** function will be disabled, because the monitor will automatically display the best image.



Please ensure that the connected graphic card on your computer is set to the native resolution of the monitor when you use the **Auto Adjustment** function.

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If you wish, you can always adjust the screen geometric settings manually using geometry menu items. To assist you in this endeavour, BenQ has provided a screen test image utility which you can use to check for screen color, grayscale and line gradient display.

1. Run the test program auto.exe from CD-ROM. You could also use any other image, such as the desktop of your operating system. However, we recommend that you use auto.exe. As you run auto.exe, a test pattern displays.
2. Press any of the control keys to bring up the hot key menu. Select  (**Menu**) to enter the main menu.
3. Go to **Display** and **Auto Adjustment**.
4. If you notice a vertical noise (like a curtain effect-shimmering of vertical lines), select **Pixel Clock** and adjust the monitor until the noise disappears.
5. If you notice a horizontal noise, select **Phase** and adjust the monitor until the noise disappears.

## Customizing the hot keys

The left 3 control keys (also called custom keys) perform as hot keys to provide direct access to pre-defined functions. You can change the default setting and designate different functions for these keys.

1. Press any of the control keys to bring up the hot key menu, and press  (**Menu**) to access the main menu.
2. Go to **System**.
3. Select the custom key you want to change.
4. In the sub menu, select a function that can be accessed by this key. A pop-up message will appear, showing that the setup is complete.

## Adjusting display mode

To display images of aspect ratio other than 16:9 and size other than the panel size of your purchased model, you can adjust the display mode on the monitor.

1. Press any of the control keys to bring up the hot key menu, and press  (**Menu**) to access the main menu.
2. Go to **Picture Advanced** and **Display Mode**.
3. Select an appropriate display mode. The setting will take effect immediately.

## Choosing an appropriate picture mode for reading

Your monitor features a picture mode that is suitable for reading e-books and documents.

1. Press any of the control keys to bring up the hot key menu, and press  (**Menu**) to access the main menu.
2. Go to **Picture Advanced** and **Picture Mode**.
3. Select **Low Blue Light**.
4. Select **Reading**. The setting will take effect immediately.

## Adjusting screen brightness automatically (Bright Intelligence, selected models only)



The Bright Intelligence function works with certain picture modes only. If it is not available, its menu options will become grayed out.

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The built-in light sensor works with Bright Intelligence technology to detect the ambient light, image brightness and contrast, and then balance the screen automatically. It helps keep image details as well as to reduce eye strain.

To enable this function, go to **Eye Care > Bright Intelligence > ON**.



The performance of Bright Intelligence may be impacted by the light sources and the monitor tilt angle. You can increase the light sensor sensitivity from **Eye Care > Bright Intelligence > Sensor Sensitivity** if needed. See [page 34](#) for more information.

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# Navigating the main menu

You can use the OSD (On Screen Display) menu to adjust all the settings on your monitor.

Press any of the control keys to bring up the hot key menu, and press  (**Menu**) to access the main menu. See [Basic menu operation on page 29](#) for details.

Available menu options may vary depending on the input sources, functions and settings. Menu options that are not available will become grayed out. And keys that are not available will be disabled and the corresponding OSD icons will disappear. For models without certain functions, their settings and related items will not appear on the menu.



The OSD menu languages may differ from the product supplied to your region, see [Language on page 44](#) under **System** and **OSD Settings** for more details.

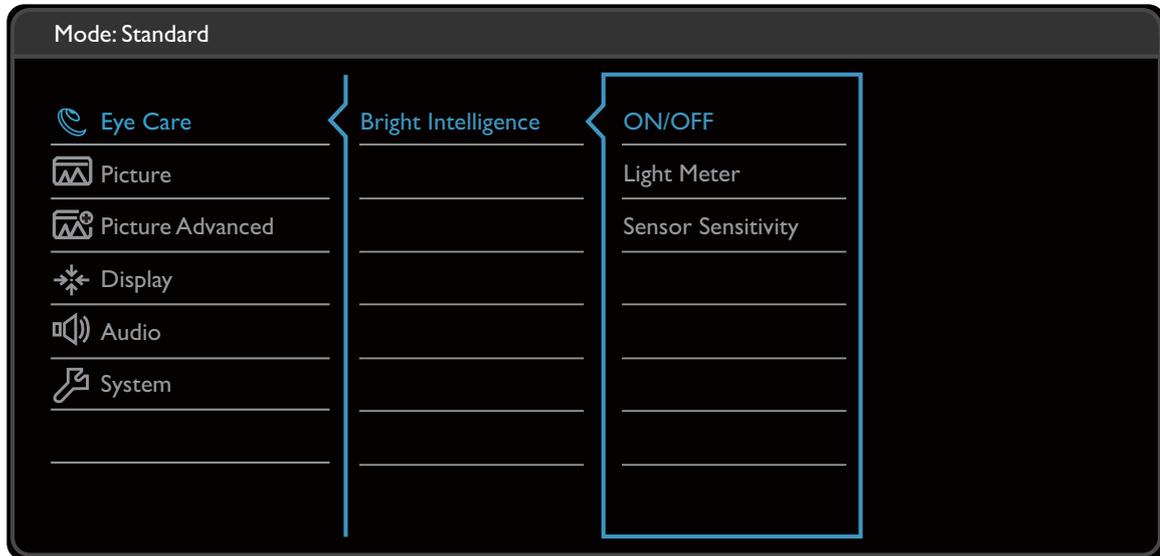
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For more information on each menu, please refer to the following pages:

- [Eye Care menu \(selected models only\) on page 34](#)
- [Display menu on page 35](#)
- [Picture menu on page 37](#)
- [Picture Advanced menu on page 39](#)
- [Audio menu on page 42](#)
- [System menu on page 43](#)

## Eye Care menu (selected models only)

Available menu options may vary depending on the input sources, functions and settings. Menu options that are not available will become grayed out. And keys that are not available will be disabled and the corresponding OSD icons will disappear. For models without certain functions, their settings and related items will not appear on the menu.

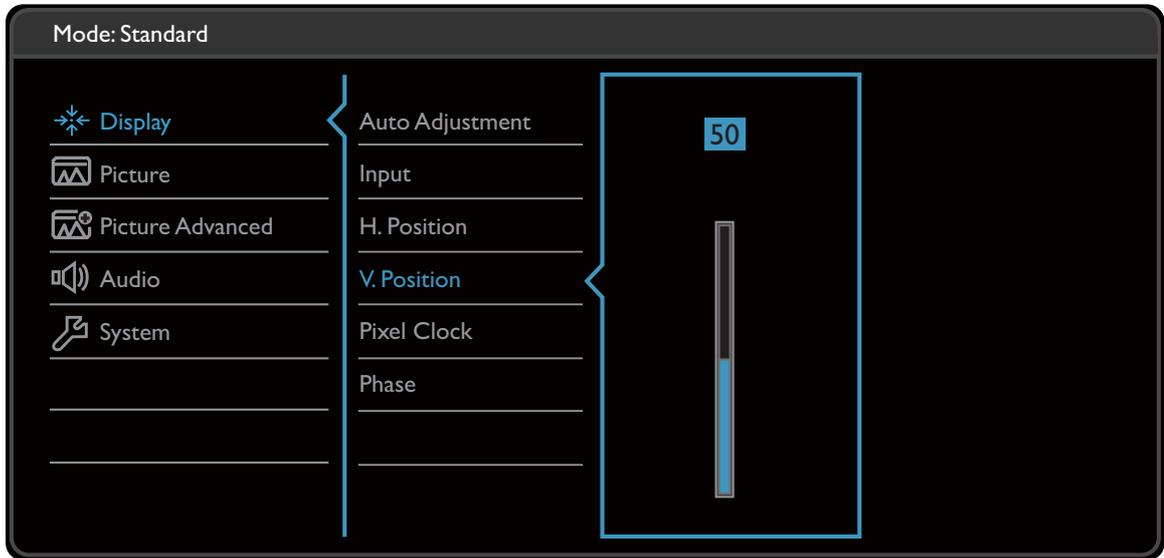


1. Select  (**Menu**) from the hot key menu.
2. Use  or  to select **Eye Care**.
3. Select  to go to a sub menu, and then use  or  to select a menu item.
4. Use  or  to make adjustments, or use  to make selection.
5. To return to the previous menu, select .
6. To exit the menu, select .

Item	Function	Range
<b>Bright Intelligence</b>	Turns the Bright Intelligence function on or off. The built-in light sensor works with Bright Intelligence technology to detect the ambient light, image brightness and contrast, and then balance the screen automatically.	• <b>ON</b> • <b>OFF</b>
	<b>Light Meter</b>	Sets to display the light condition around the monitor on the screen.
	<b>Sensor Sensitivity</b>	Adjusts sensitivity of light sensor to change the brightness range to be detected. This may be helpful to correct uneven lighting in light detection.

## Display menu

Available menu options may vary depending on the input sources, functions and settings. Menu options that are not available will become grayed out. And keys that are not available will be disabled and the corresponding OSD icons will disappear. For models without certain functions, their settings and related items will not appear on the menu.



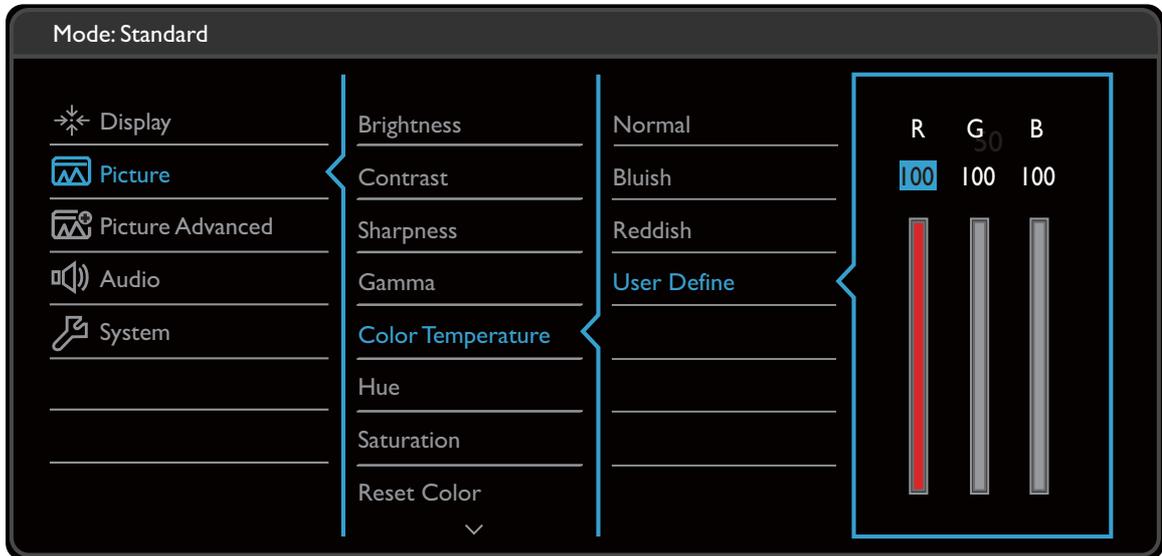
1. Select  (**Menu**) from the hot key menu.
2. Use  $\wedge$  or  $\vee$  to select **Display**.
3. Select  $\triangleright$  to go to a sub menu, and then use  $\wedge$  or  $\vee$  to select a menu item.
4. Use  $\wedge$  or  $\vee$  to make adjustments, or use  $\checkmark$  to make selection.
5. To return to the previous menu, select  $\triangleleft$ .
6. To exit the menu, select  $\times$ .

Item	Function	Range
<b>Auto Adjustment</b>	Optimizes and adjusts the screen settings automatically for you.  Not applicable to a digital input signal.	

Item	Function	Range
<b>Input</b>	Use this to change the input to that appropriate to your video cable connection type.	<ul style="list-style-type: none"> <li>• <b>D-Sub</b></li> <li>• <b>DP</b> (for models with DP inputs)</li> <li>• <b>DVI</b> (for models with DVI inputs)</li> <li>• <b>HDMI</b></li> </ul>
<b>H. Position</b>	Adjusts the horizontal position of the screen image.	0 to 100
<b>V. Position</b>	Adjusts the vertical position of the screen image.	0 to 100
<b>Pixel Clock</b>	Adjusts the pixel clock frequency timing to synchronize with the analog input video signal. See also: <a href="#">Picture optimization on page 31</a> .   Not applicable to a digital input signal.	0 to 100
<b>Phase</b>	Adjusts the pixel clock phase timing to synchronize with the analog input video signal. See also: <a href="#">Picture optimization on page 31</a> .   Not applicable to a digital input signal.	0 to 63

## Picture menu

Available menu options may vary depending on the input sources, functions and settings. Menu options that are not available will become grayed out. And keys that are not available will be disabled and the corresponding OSD icons will disappear. For models without certain functions, their settings and related items will not appear on the menu.



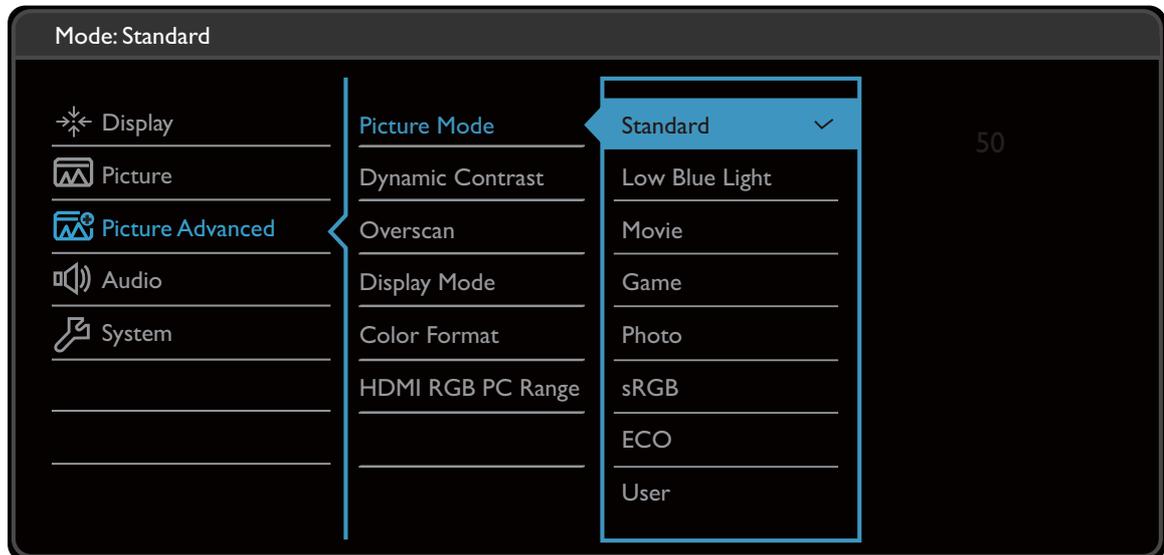
1. Select  (**Menu**) from the hot key menu.
2. Use  or  to select **Picture**.
3. Select  to go to a sub menu, and then use  or  to select a menu item.
4. Use  or  to make adjustments, or use  to make selection.
5. To return to the previous menu, select .
6. To exit the menu, select .

Item	Function	Range
<b>Brightness</b>	Adjusts the balance between light and dark shades.	0 to 100
<b>Contrast</b>	Adjusts the degree of difference between darkness and lightness.	0 to 100
<b>Sharpness</b>	Adjusts the clarity and visibility of the edges of the subjects in the image.	1 to 10

Item	Function		Range
<b>Gamma</b>	Adjusts the tone luminance. The default value is 3 (the standard value for Windows).		<ul style="list-style-type: none"> <li>• 1</li> <li>• 2</li> <li>• 3</li> <li>• 4</li> <li>• 5</li> </ul>
<b>Color Temperature</b>	<b>Normal</b>	Allows video and still photographs to be viewed with natural coloring. This is the factory default color.	
	<b>Bluish</b>	Applies a cool tint to the image and is factory pre-set to the PC industry standard white color.	
	<b>Reddish</b>	Applies a warm tint to the image and is factory pre-set to the news print standard white color.	
	<b>User Define</b>	<p>The blend of the Red, Green and Blue primary colors can be altered to change the color tint of the image. Go to the succeeding <b>R</b> (red), <b>G</b> (green), and <b>B</b> (blue) menus to change the settings.</p> <p>Decreasing one or more of the colors will reduce their respective influence on the color tint of the image. (e.g. if you reduce the Blue level the image will gradually take on a yellowish tint. If you reduce Green, the image will become a magenta tint.)</p>	<ul style="list-style-type: none"> <li>• R (0~100)</li> <li>• G (0~100)</li> <li>• B (0~100)</li> </ul>
<b>Hue</b>	Adjusts the degree of how we perceive colors.		0 ~ 100
<b>Saturation</b>	Adjusts the purity degree of colors.		0 ~ 100
<b>Reset Color</b>	Resets the custom color settings to the factory defaults.		<ul style="list-style-type: none"> <li>• YES</li> <li>• NO</li> </ul>
<b>AMA</b>	Improves the gray level response time of the LCD panel.		<ul style="list-style-type: none"> <li>• OFF</li> <li>• High</li> <li>• Premium</li> </ul>

## Picture Advanced menu

Available menu options may vary depending on the input sources, functions and settings. Menu options that are not available will become grayed out. And keys that are not available will be disabled and the corresponding OSD icons will disappear. For models without certain functions, their settings and related items will not appear on the menu.



1. Select  (**Menu**) from the hot key menu.
2. Use  or  to select **Picture Advanced**.
3. Select  to go to a sub menu, and then use  or  to select a menu item.
4. Use  or  to make adjustments, or use  to make selection.
5. To return to the previous menu, select .
6. To exit the menu, select .

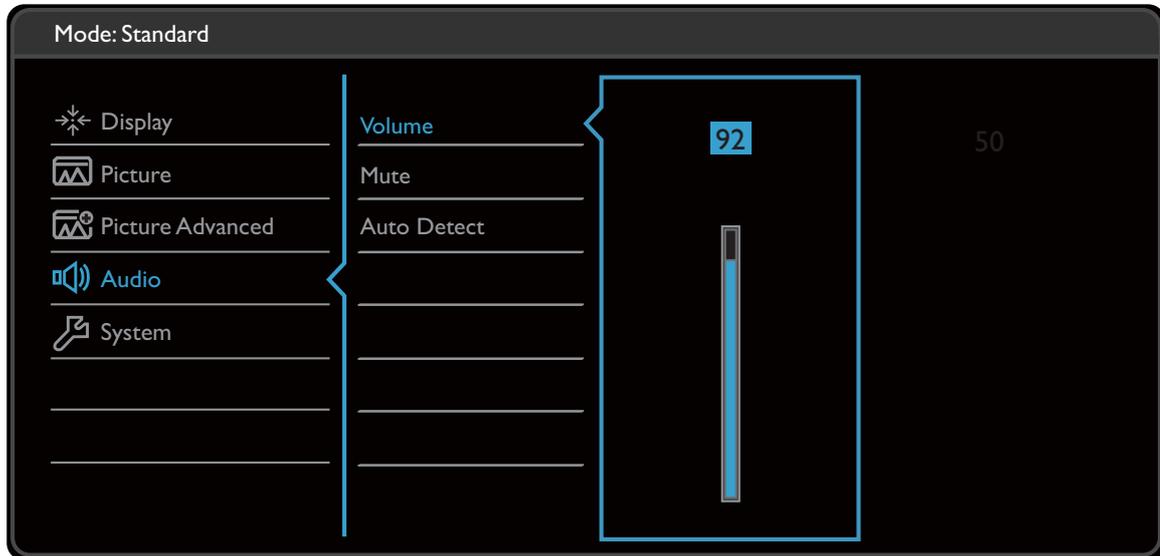
Item	Function	Range
<b>Picture Mode</b>	Select a picture mode that best suits the type of images shown on the screen.	
	<b>Standard</b> For basic PC application.	

Item	Function		Range	
	<b>Low Blue Light</b>	Decreases the blue light emitted from the display to reduce the risk of blue light exposure to your eyes.   The value for each <b>Low Blue Light</b> mode indicates how much blue light is decreased compared with the <b>Standard</b> mode.		
		<b>Multimedia</b>	For viewing multimedia files.	-30%
		<b>Web Surfing</b>	For web surfing.	-50%
		<b>Office</b>	For office works or office environment.	-60%
		<b>Reading</b>	For reading e-books or documents.	-70%
	<b>Movie</b>	For viewing videos.		
	<b>Game</b>	For playing video games.		
	<b>Photo</b>	For viewing still images.		
	<b>sRGB</b>	For better color matching representation with the peripheral devices, such as printers, digital cameras, etc.		
	<b>ECO</b>	For saving electricity with low power consumption by providing minimum brightness for all running programs.S		
<b>User</b>	Applies a combination of picture settings defined by users.			
<b>Dynamic Contrast</b>	The function is to automatically detect the distribution of an input visual signal, and then to create the optimal contrast.		0 to 5	
<b>Overscan</b>	Slightly enlarges the input image. Use this feature to hide annoying edge noise if present around your image.   Available only when the input source is HDMI or D-Sub (VGA converted from Component).		<ul style="list-style-type: none"> <li>•ON</li> <li>•OFF</li> </ul>	

Item	Function	Range	
<b>Display Mode</b>	<p>This feature is provided to allow aspect ratios other than 16:9 to be displayed without geometric distortion.</p> <p> The options under <b>Display Mode</b> will be different depending on the input signal sources.</p> <p> Depending on your selection of <b>Picture Mode</b>, different <b>Display Mode</b> option is pre-set. Change the setting if needed.</p>		
	<b>Full</b>	Scales the input image to fill the screen. Ideal for 16:9 aspect images.	
	<b>Aspect</b>	The input image is displayed without geometric distortion filling as much of the display as possible.	
<b>Color Format</b>	<p>Determines the color space (<b>RGB</b> or <b>YUV</b>) based on the detected video signal.</p> <p> You might need to manually set the <b>Color Format</b> if colors shown on the monitor screen do not display properly.</p> <p> If the input source is HDMI, color format is not selectable. In other words, <b>Color Format</b> is automatically set depending on the input video source.</p>		
	<b>RGB</b>	<ul style="list-style-type: none"> <li>• For D-Sub (VGA) input source from PC.</li> <li>• For DVI input source.</li> </ul>	
	<b>YUV</b>	For D-Sub (Component converted from VGA) input source from a video device.	
<b>HDMI RGB PC Range</b>	Determines the range of color scales. Select an option that matches the RGB range setting on the connected HDMI device.	<ul style="list-style-type: none"> <li>• <b>Auto Detect</b></li> <li>• <b>RGB (0 ~ 255)</b></li> <li>• <b>RGB (16 ~ 235)</b></li> </ul>	

## Audio menu

Available menu options may vary depending on the input sources, functions and settings. Menu options that are not available will become grayed out. And keys that are not available will be disabled and the corresponding OSD icons will disappear. For models without certain functions, their settings and related items will not appear on the menu.

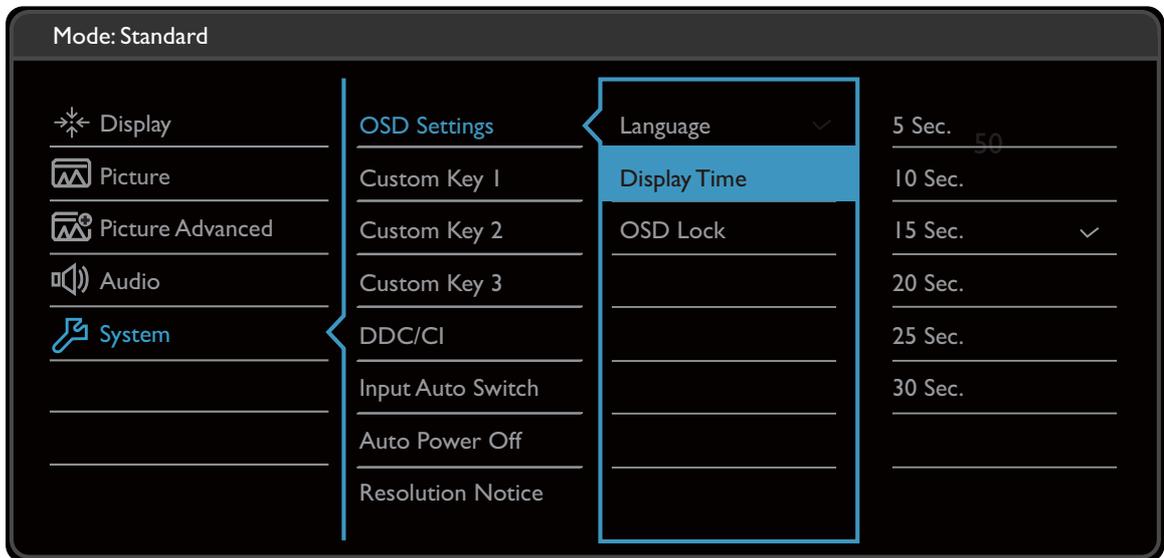


1. Select  (**Menu**) from the hot key menu.
2. Use  $\wedge$  or  $\vee$  to select **Audio**.
3. Select  $\triangleright$  to go to a sub menu, and then use  $\wedge$  or  $\vee$  to select a menu item.
4. Use  $\wedge$  or  $\vee$  to make adjustments, or use  $\checkmark$  to make selection.
5. To return to the previous menu, select  $\triangleleft$ .
6. To exit the menu, select  $\times$ .

Item	Function	Range
<b>Volume</b>	Adjusts the audio volume.	0 ~ 100
<b>Mute</b>	Mutes the audio input.	<ul style="list-style-type: none"> <li>• ON</li> <li>• OFF</li> </ul>
<b>Audio Select</b>	Allow users to select the audio source or let the monitor detect it automatically.	<ul style="list-style-type: none"> <li>• PC Audio</li> <li>• Auto Detect</li> </ul>

## System menu

Available menu options may vary depending on the input sources, functions and settings. Menu options that are not available will become grayed out. And keys that are not available will be disabled and the corresponding OSD icons will disappear. For models without certain functions, their settings and related items will not appear on the menu.



1. Select  (**Menu**) from the hot key menu.
2. Use  or  to select **System**.
3. Select  to go to a sub menu, and then use  or  to select a menu item.
4. Use  or  to make adjustments, or use  to make selection.
5. To return to the previous menu, select .
6. To exit the menu, select .

Item	Function		Range
<b>OSD Settings</b>	<b>Language</b>	Sets the OSD menu language.   The language options displayed on your OSD may differ from those shown on the right, depending on the product supplied in your region.	<ul style="list-style-type: none"> <li>• English</li> <li>• Français</li> <li>• Deutsch</li> <li>• Italiano</li> <li>• Español</li> <li>• Polski</li> <li>• Český</li> <li>• Magyar</li> <li>• Română</li> <li>• Nederlands</li> <li>• Русский</li> <li>• Svenska</li> <li>• Português</li> <li>• العربية</li> <li>• 日本語</li> <li>• 한국어</li> <li>• 繁體中文</li> <li>• 简体中文</li> </ul>
	<b>Display Time</b>	Adjusts the display time of the OSD menu.	<ul style="list-style-type: none"> <li>• 5 Sec.</li> <li>• 10 Sec.</li> <li>• 15 Sec.</li> <li>• 20 Sec.</li> <li>• 25 Sec.</li> <li>• 30 Sec.</li> </ul>
	<b>OSD Lock</b>	Prevents all the monitor settings from being accidentally changed. When this function is activated, the OSD controls and hotkey operations will be disabled.   To unlock the OSD controls, press and hold any key for 10 seconds.	

Item	Function	Range
<b>Custom Key 1</b>	Sets the function to be accessed by custom key 1.	<ul style="list-style-type: none"> <li>• <b>Picture Mode</b></li> <li>• <b>Low Blue Light</b></li> <li>• <b>Display Mode</b></li> <li>• <b>Brightness</b></li> <li>• <b>Contrast</b></li> <li>• <b>Auto Adjustment</b></li> <li>• <b>Volume</b></li> <li>• <b>Mute</b></li> <li>• <b>Input</b></li> </ul>
<b>Custom Key 2</b>	Sets the function to be accessed by custom key 2.	
<b>Custom Key 3</b>	Sets the function to be accessed by custom key 3.	
<b>DDC/CI</b>	<p>Allows the monitor settings to be set through the software on the PC.</p>  <p>DDC/CI, short for Display Data Channel/Command Interface, which was developed by Video Electronics Standards Association (VESA). DDC/CI capability allows monitor controls to be sent via the software for remote diagnostics.</p>	<ul style="list-style-type: none"> <li>• <b>ON</b></li> <li>• <b>OFF</b></li> </ul>
<b>Input Auto Switch</b>	Sets to automatically detect the available input source.	<ul style="list-style-type: none"> <li>• <b>ON</b></li> <li>• <b>OFF</b></li> </ul>
<b>Auto Power Off</b>	Sets the time to power off the monitor automatically in power saving mode.	<ul style="list-style-type: none"> <li>• <b>OFF</b></li> <li>• <b>10min.</b></li> <li>• <b>20min.</b></li> <li>• <b>30min.</b></li> </ul>
<b>Resolution Notice</b>	Sets whether to display the resolution notice of the recommended resolution when a new input source is detected by the monitor.	<ul style="list-style-type: none"> <li>• <b>ON</b></li> <li>• <b>OFF</b></li> </ul>
<b>Information</b>	Displays the current monitor property settings.	<ul style="list-style-type: none"> <li>• <b>Input</b></li> <li>• <b>Current Resolution</b></li> <li>• <b>Optimum Resolution</b> (best with the monitor)</li> <li>• <b>Model Name</b></li> </ul>
<b>Reset All</b>	Resets all mode, color and geometry settings to the factory default values.	<ul style="list-style-type: none"> <li>• <b>YES</b></li> <li>• <b>NO</b></li> </ul>

# Troubleshooting

## Frequently asked questions (FAQ)

### Imaging

-  The image is blurred.
-  • Read the instructions on the link "**Adjusting the Screen Resolution**" on the CD, and then select the correct resolution, refresh rate and make adjustments based on these instructions.

  - If a VGA extension cable is used, remove the extension cable for the test. Is the image now in focus? If not, optimize the image by working through the instructions in the "**Adjusting the refresh rate**" section on the link "**Adjusting the Screen Resolution**". It is normal for blurring to occur due to conduction losses in extension cables. You can minimize these losses by using an extension cable with better conduction quality or with a built-in booster.
-  Does the blurring only occur at resolutions lower than the native (maximum) resolution?
-  Read the instructions on the link "**Adjusting the Screen Resolution**" on the CD. Select the native resolution.
-  Pixel errors can be seen.

  - One of several pixels is permanently black, one or more pixels are permanently white, one or more pixels are permanently red, green, blue or another color.
-  • Clean the LCD screen.

  - Cycle power on-off.
  - These are pixels that are permanently on or off and is a natural defect that occurs in LCD technology.
-  The image has a faulty coloration.
-  It has a yellow, blue or pink appearance.

Go to **Picture** and **Reset Color**, and then choose **YES** to reset the color settings to the factory defaults.

If the image is still not correct and the OSD also has faulty coloration, this means one of the three primary colors is missing in the signal input. Now check the signal cable connectors. If any pin is bent or broken off, please contact your dealer to get necessary support.
-  The image is distorted, flashes or flickers.
-  Read the instructions on the link "**Adjusting the Screen Resolution**" on the CD, and then select the correct resolution, refresh rate and make adjustments based on these instructions.
-  You are running the monitor at its native resolution, but the image is still distorted.
-  Images from different input sources may appear distorted or stretched on the monitor running at its native resolution. To have the optimal display performance of each type of input sources, you can use the **Display Mode** function to set a proper aspect ratio for the input sources. See [Display Mode on page 41](#) for details.

- ❓ The image is displaced in one direction.
- ✅ Read the instructions on the link "**Adjusting the Screen Resolution**" on the CD, and then select the correct resolution, refresh rate and make adjustments based on these instructions.
- ❓ Faint shadow from the static image displayed is visible on the screen.
- ✅
  - Activate the power management function to let your computer and monitor go into a low power "sleep" mode when not actively in use.
  - Use a screensaver to prevent the occurrence of image retention.

## Power LED indicator

- ❓ The LED indicator is white or orange.
- ✅
  - If the LED lights up in solid white, the monitor is powered on.
  - If the LED is illuminated in white and there is a message **Out of Range** on the screen, this means you are using a display mode that this monitor does not support, please change the setting to one of the supported mode. Please read the "**Preset display modes**" section from the link "**Adjusting the Screen Resolution**".
  - If the LED is illuminated in orange, the power management mode is active. Press any button on the computer keyboard or move the mouse. If that does not help, check the signal cable connectors. If any pin is bent or broken off, please contact your dealer to get necessary support.
  - If the LED is off, check the power supply mains socket, the external power supply and the mains switch.

## OSD controls

- ❓ The OSD controls are inaccessible.
- ✅ To unlock the OSD controls when it is preset to be locked, press and hold any key for 10 seconds.

## OSD messages

- ❓ A message **Out of Range** on the screen during computer boot up process.
- ✅ If there is a message **Out of Range** on the screen during computer boot up process, this means computer compatibility caused by operating system or graphic card. The system will adjust the refresh rate automatically. Just wait until the operating system is launched.

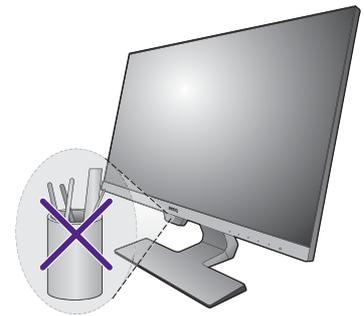
## Audio

- ❓ No sound can be heard from the built-in speakers. (selected models only)
- ✅
  - Check whether the desired cable to input audio signals is properly connected. See [Connect the audio cable. on page 17](#) for details.
  - Increase the volume (volume may be muted or too low).
  - Remove your headphone and/or external speakers. (If they are connected to the monitor, the built-in speakers are automatically muted.)

- ❓ No sound can be heard from the connected external speakers.
- ✔
  - Remove your headphone (if the headphone is connected to the monitor).
  - Check whether the headphone jack is properly connected.
  - If the external speakers are USB-powered, check whether the USB connection is OK.
  - Increase the volume (volume may be muted or too low) on the external speakers.

### Sensors (selected models only)

- ❓ The light sensor of the monitor does not work well.
- ✔ The light sensor is located at the front bottom of the monitor. Please check:
  - If you have removed the sensor protection sticker.
  - If the **Bright Intelligence** function is set to **ON**. Check **Eye Care > Bright Intelligence**.
  - If there are any obstacles in front of the sensor that keep the sensor from detecting the light properly.
  - If there are any objects or clothing in bright colors in front of the sensor. Bright colors (especially white and fluorescent colors) reflect light and the sensor cannot detect the main light sources.



### Need more help?

If your problems remain after checking this manual, please contact your place of purchase or visit the local website from [www.BenQ.com](http://www.BenQ.com) for more support and local customer service.