



BL Series
LCD Monitor
User Manual



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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.



Product support

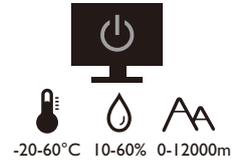
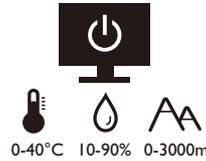
This document aims to provide the most updated and accurate information to customers, and thus all contents may be modified from time to time without prior notice. Please visit the website for the latest version of this document and other product information. Available files vary by model.

1. Make sure your computer is connected to the Internet.
2. Visit the local website from Support.BenQ.com. The website layout and content may vary by region/country.
 - User manual and related document
 - Drivers and applications
 - (EU only) Dismantled information: Available on the user manual download page. This document is provided based on Regulation (EU) 2019/2021 to repair or recycle your product. Always contact the local customer service for servicing within the warranty period. If you wish to repair an out-of-warranty product, you are recommended to go to a qualified service personnel and obtain repair parts from BenQ to ensure compatibility. Do not disassemble the product unless you are aware of the consequences. If you cannot find the dismantled information on your product, contact the local customer service for assistance.

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, 0.75mm² must be used.
- Use only the power cord provided by BenQ. Never use a power cord that appears to be damaged or frayed.

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, 0.75mm² 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, 0.75mm² 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 Support.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.

Typographics

| Icon / Symbol | Item | Meaning |
|---|---------|---|
|  | Warning | Information mainly to prevent the damage to components, data, or personal injury caused by misuse and improper operation or behavior. |
|  | Tip | Useful information for completing a task. |
|  | Note | Supplementary information. |

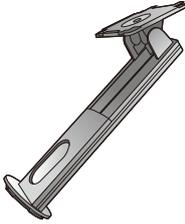
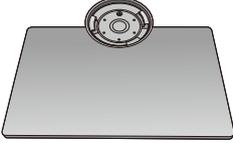
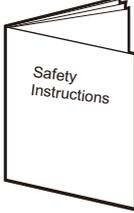
In this document, the steps needed to reach a menu may be shown in condensed form, for example: **Menu > System > Information.**

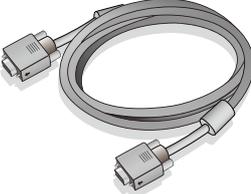
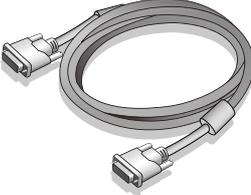
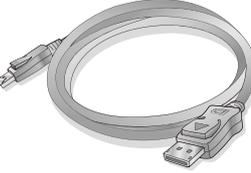
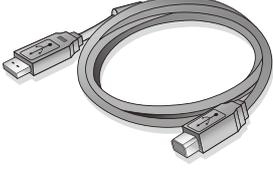
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Getting started

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 |  |
| Monitor Stand |  |
| Monitor Base |  |
| Quick Start Guide |  |
| Safety Instructions |  |
| Regulatory Statements |  |

| | |
|---|---|
| <p>Power Cord (Supplied item may differ by model or region.)</p> |  |
| <p>Video Cable: D-Sub (Optional accessory for models with D-Sub inputs)</p> |  |
| <p>Video Cable: DVI-D (Optional accessory)</p> |  |
| <p>Video Cable: DP (Optional accessory)</p> |  |
| <p>Video Cable: DP to mini DP (Optional accessory)</p> |  |
| <p>Video Cable: HDMI (Optional accessory for models with HDMI inputs)</p> |  |
| <p>Audio Cable</p> |  |
| <p>USB Cable</p> |  |
| <p>Headphone hook</p> |  |



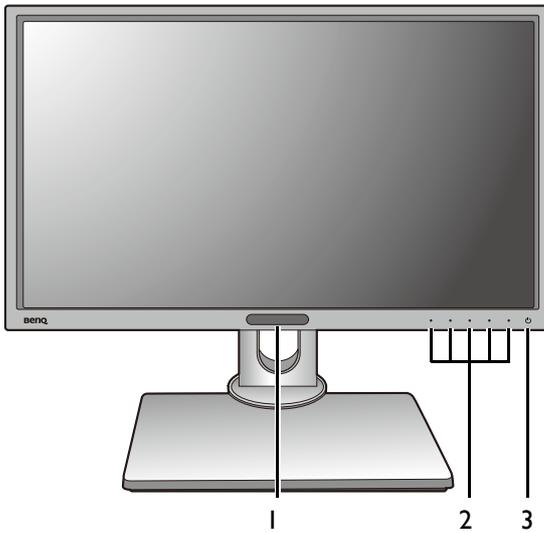
- Available accessories and the pictures shown here may differ from the actual contents and the product supplied for your region. And the package contents may subject to change without prior notice. For cables that are not supplied with your product, you can purchase them separately.
- Consider keeping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

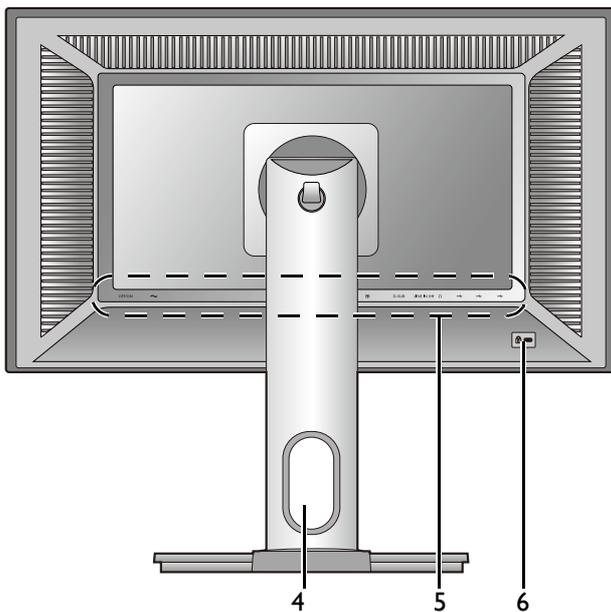
Getting to know your monitor

Front view

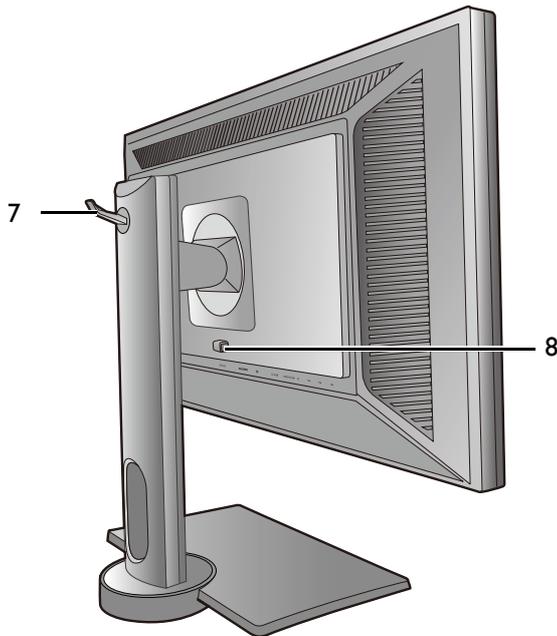


1. Light sensor / Eco sensor
2. Control buttons
3. Power button

Back view



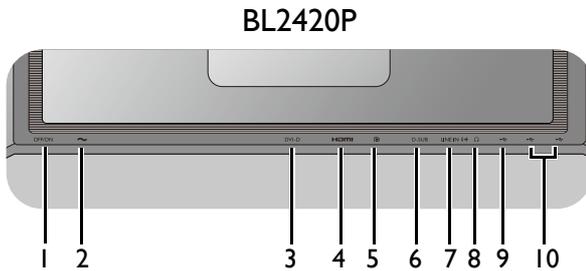
4. Cable management hole
5. Input and output ports (vary by model, see [Input and output ports on page 13](#))
6. Kensington lock slot



7. Headphone hook
8. VESA mount release button

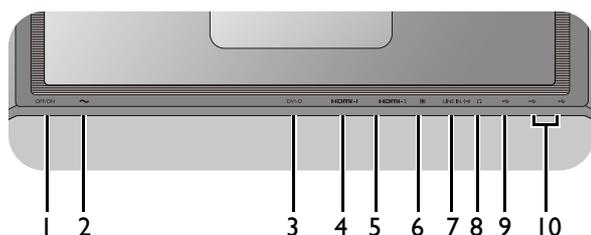
Input and output ports

Available input and output ports may vary depending on your purchased model. Check the product specifications on the website for details.



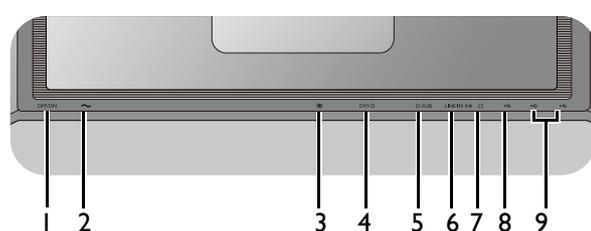
1. Power switch
2. AC power input jack
3. DVI-D socket
4. HDMI socket
5. DisplayPort socket
6. D-Sub socket
7. Audio Line In
8. Headphone jack
9. USB 2.0 port (upstream;
connecting to the PC)
10. USB 2.0 port x 2 (downstream;
connecting to USB devices)

BL2420U



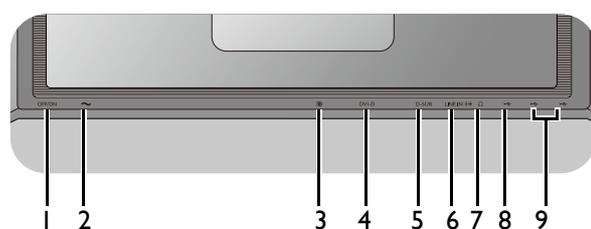
1. Power switch
2. AC power input jack
3. DVI-D socket
4. HDMI-1 (1.4) socket
5. HDMI-2 (2.0) socket (*)(**)
6. DisplayPort socket (**)
7. Audio Line In
8. Headphone jack
9. USB 3.0 port (upstream; connecting to the PC)
10. USB 3.0 port x 2 (downstream; connecting to USB devices)

BL2420Z



1. Power switch
2. AC power input jack
3. DisplayPort socket
4. DVI-D socket
5. D-Sub socket
6. Audio Line In
7. Headphone jack
8. USB 2.0 port (upstream; connecting to the PC)
9. USB 2.0 port x 2 (downstream; connecting to USB devices)

BL2423



1. Power switch
2. AC power input jack
3. DisplayPort socket
4. DVI-D socket
5. D-Sub socket
6. Audio Line In
7. Headphone jack
8. USB 3.0 port (upstream; connecting to the PC)
9. USB 3.0 port x 2 (downstream; connecting to USB devices)



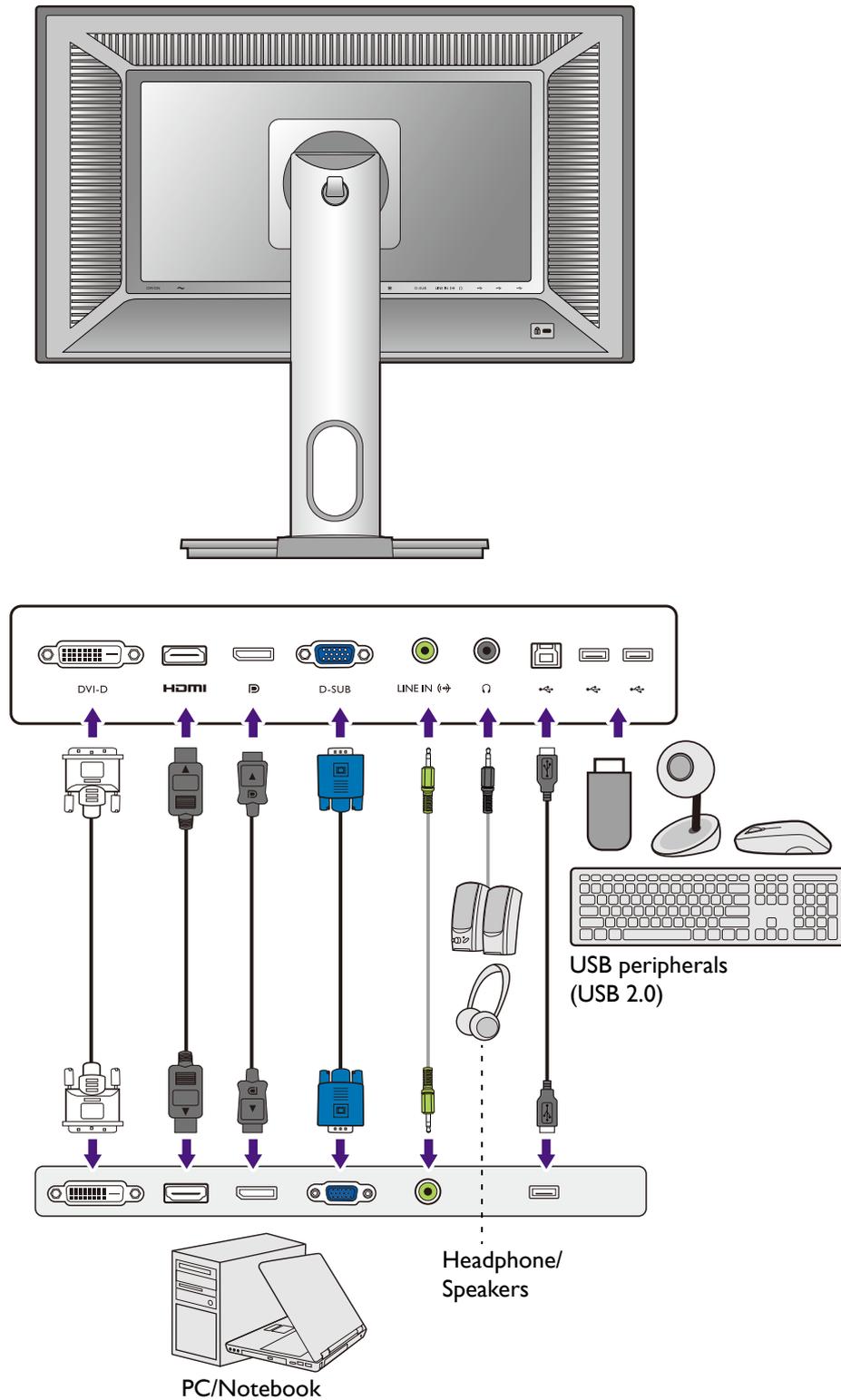
- *: HDMI-2 (2.0) only works with compatible graphic cards and devices. Compatible issue may occur when the HDMI-2 (2.0) input port conducts with a HDMI 1.4 output port.
- **: Supports up to 3840 x 2160 @ 60 Hz.
- Above diagram may vary depending on the model.
- Picture may differ from product supplied for your region.

Connection

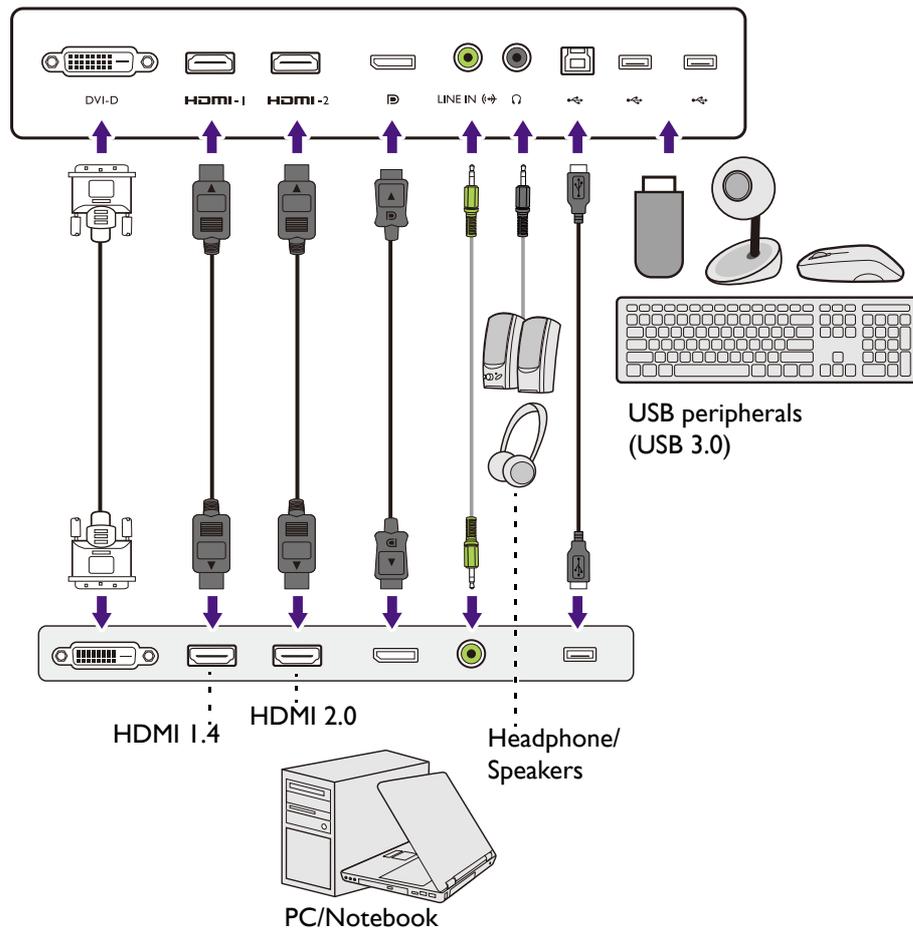
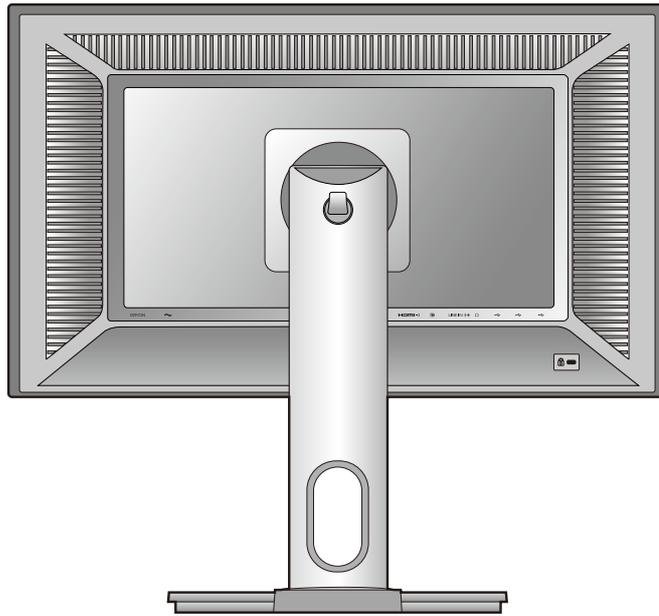
The following connection illustrations are for your reference only. For cables that are not supplied with your product, you can purchase them separately.

For detailed connection methods, see page 21 - 23.

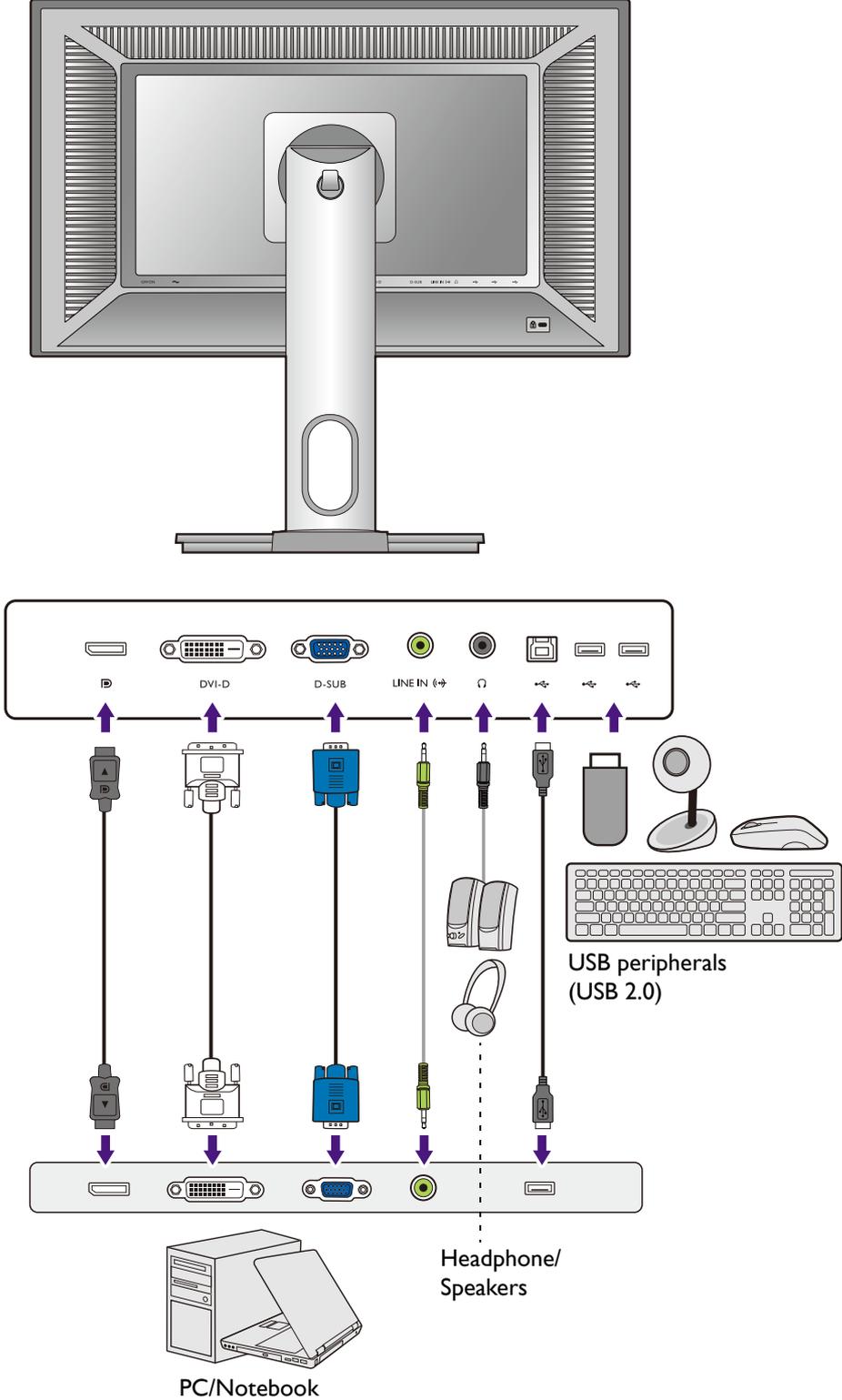
BL2420P



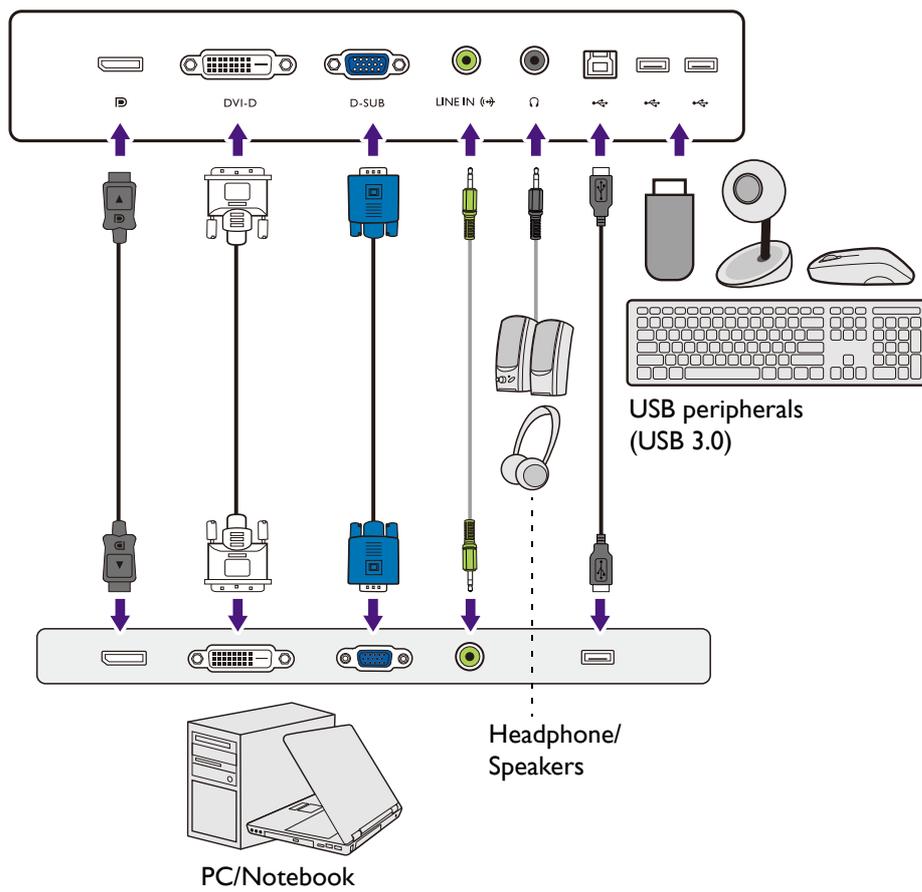
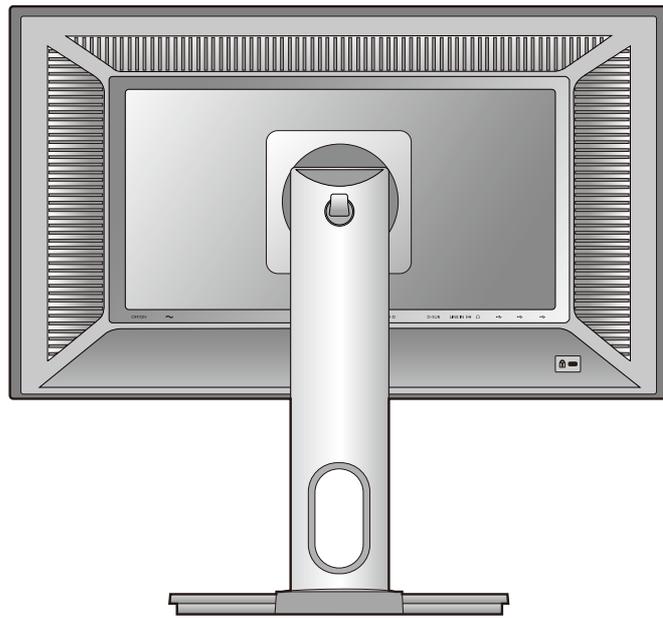
BL2420U



BL2420Z



BL2423



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 following illustrations are for your reference only. The location and available input and output jacks may vary depending on the purchased model.

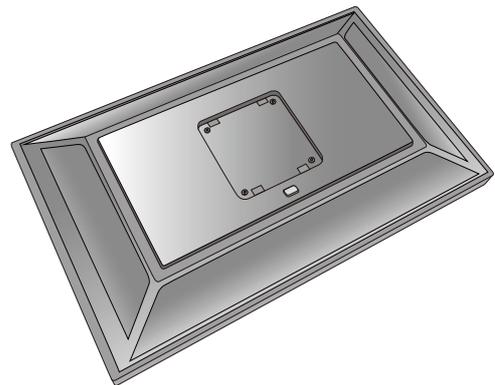
I. Attach the monitor base.



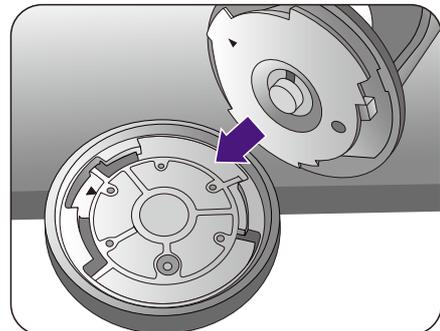
Please be careful to prevent damage to the monitor. Placing the screen surface on an object like a stapler or a mouse will crack the glass or damage the LCD substrate voiding your warranty. Sliding or scraping the monitor around on your desk will scratch or damage the monitor surround and controls.

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.



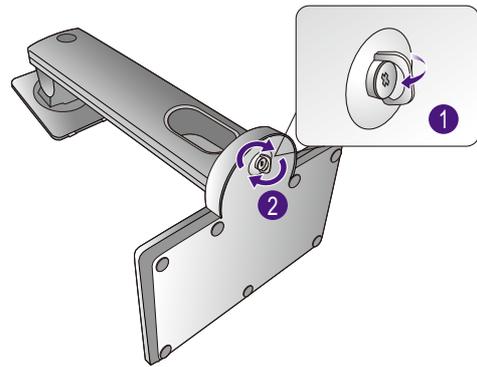
Attach the monitor stand to the monitor base as illustrated. Make sure to align the arrow on the end of the stand to the one on the monitor.



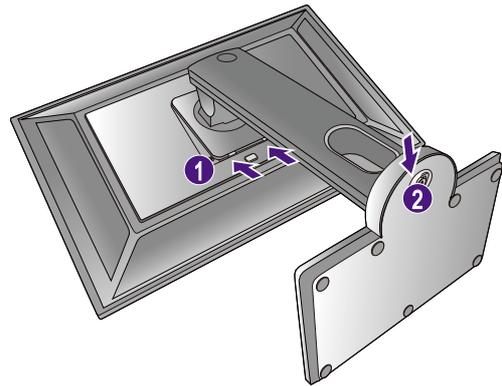
Turn the stand clockwise until you cannot go further.



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



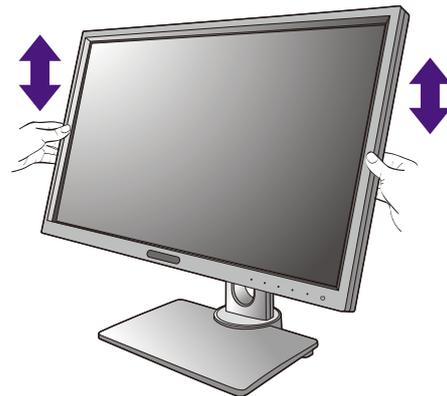
Orient and align the stand arm with the monitor (1), push them together until they click and lock into place (2).



Gently attempt to pull them back apart to check that they have properly engaged.

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

You might want to adjust the monitor stand height. See [Adjusting the monitor height on page 28](#) for more information.



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



2. 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 D-Sub Cable

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.

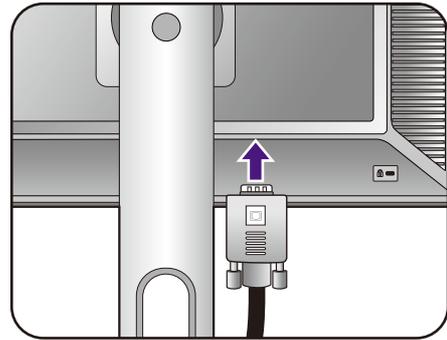
To Connect the DVI-D Cable

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.

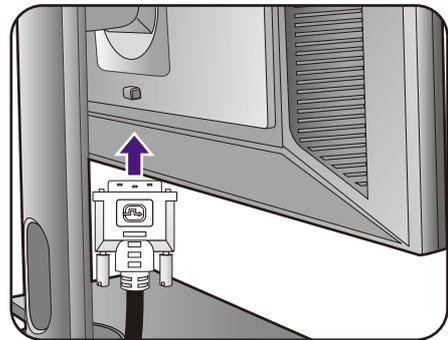
Tighten all finger screws to prevent the plugs from accidentally falling out during use.

To Connect the HDMI Cable

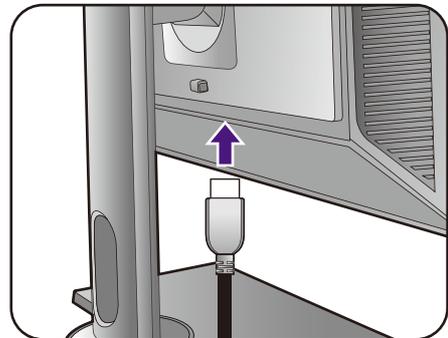
Connect the plug of the HDMI cable to the HDMI port on the monitor. Connect the other end of the cable to the HDMI port of a digital output device.



Or



Or



To Connect the DP Cable

Connect the plug of the DP cable to the monitor video socket. Connect the other end of the cable to the computer video socket.

 After the monitor is powered on, if the image is not displayed, disconnect the cable. Go to **System** and **DisplayPort** on the OSD menu of the monitor and change the setting from **1.2** to **1.1**, and then connect the cable again. To go to the OSD menu, see [Basic menu operation on page 39](#).

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

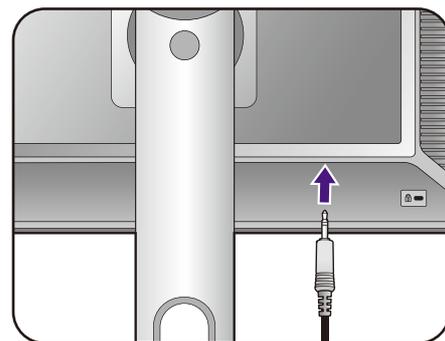
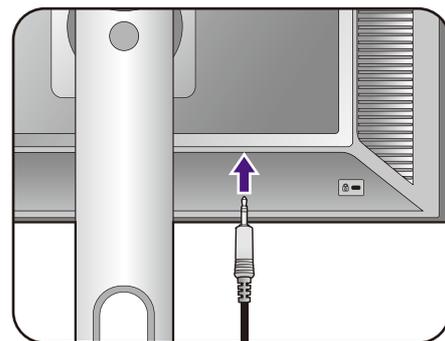
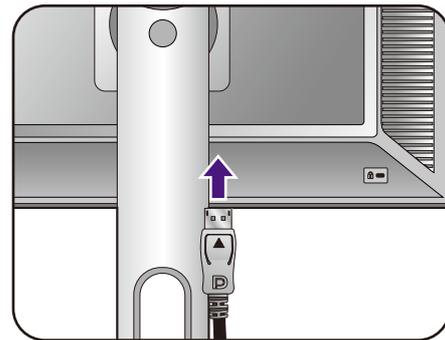
 The video cables included in your package and the socket illustrations on the right may vary depending on the product supplied for your region.

3. Connect the audio cable.

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

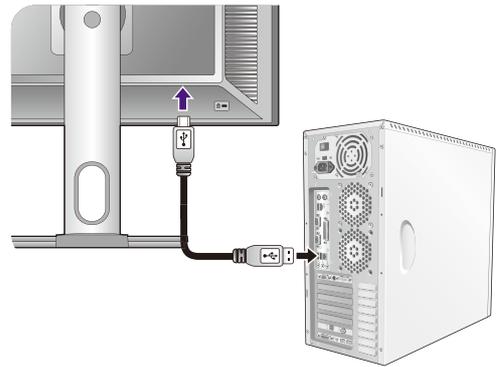
You may connect headphones to the headphone jack found on the back side of the monitor.

Or

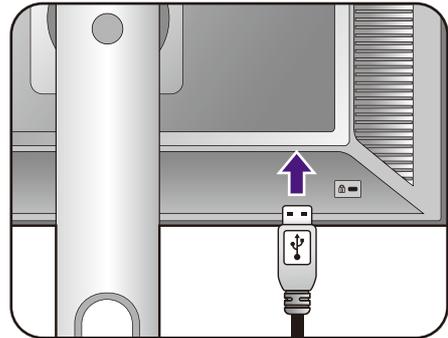


4. Connect USB devices.

Connect the USB cable between the PC and the monitor (via the upstream USB port at the back). This upstream USB port transmits data between the PC and the USB devices connected to the monitor.

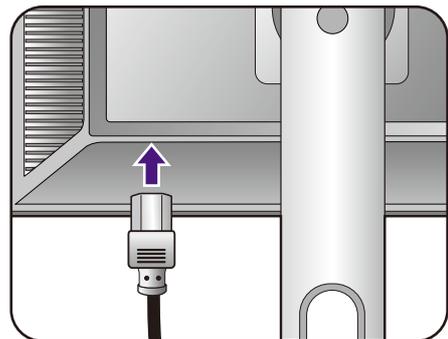


Connect USB devices via other USB ports (downstream) on the monitor. These downstream USB ports transmit data between connected USB devices and the upstream port.

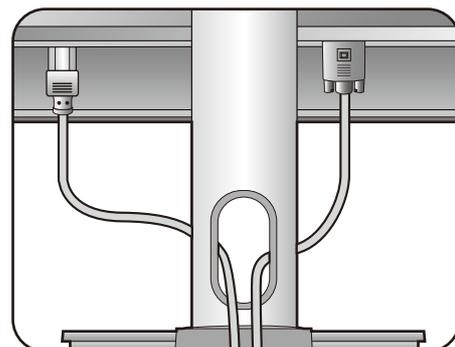


5. Connect the power cable to the monitor.

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.



6. Organize the cables.

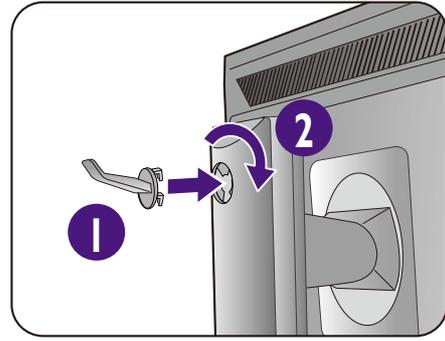


7. Install the headphone hook (optional step).

You can install the headphone hook to place your headphone. It is useful when your headphone is not in use.

Orient and align the headphone hook with the hole on the monitor stand, and attach the hook to the hole (1).

Turn the hook clockwise until you cannot go further (2). The headphone hook is ready to use.

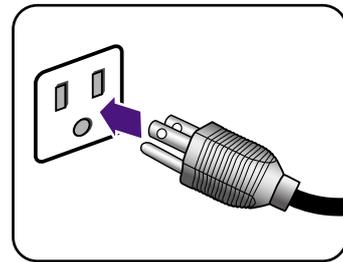


 The maximum load capacity of the headphone hook is 500g.

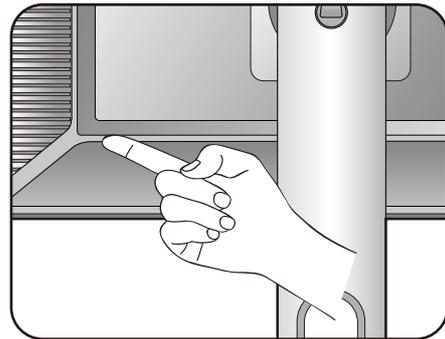
8. Connect-to and turn-on the power.

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

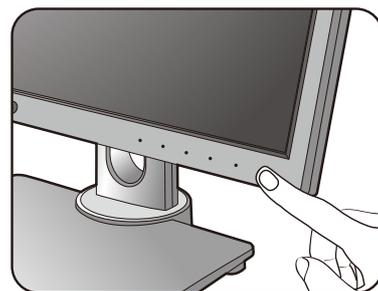
 Picture may differ from product supplied for your region.



Switch the power switch next to the AC power input jack to **ON**.



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

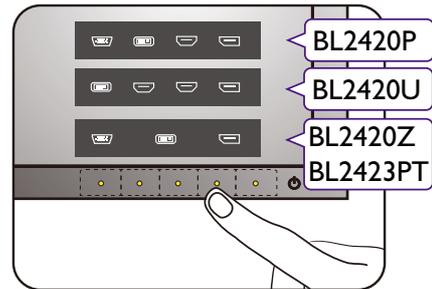
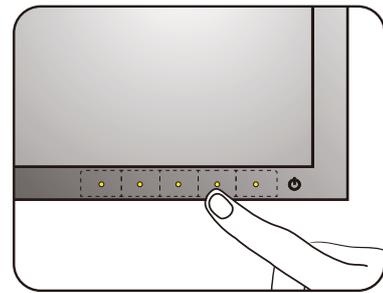


Turn on the computer too, and select an input source by the OSD control keys. The displayed input icons vary depending on the available video inputs of the purchased model.

Follow the instructions in [Getting the most from your BenQ monitor on page 32](#) to install the monitor software.



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



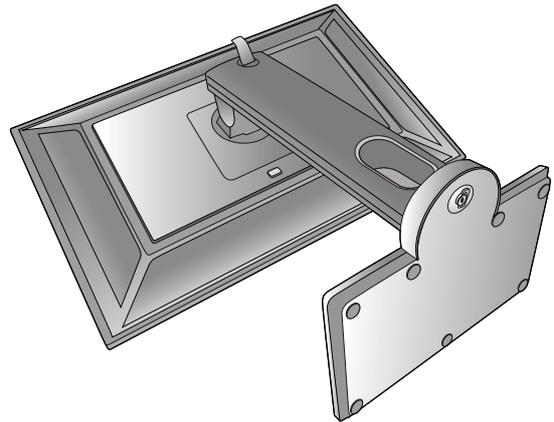
How to detach the stand and the base

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.

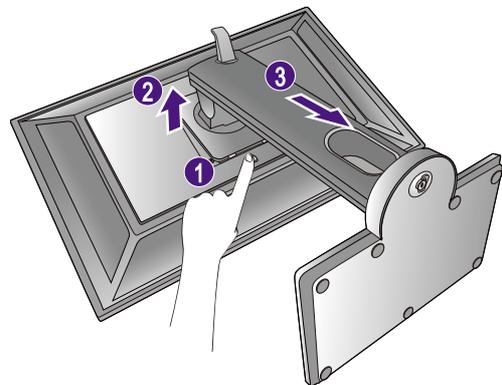
Protect the monitor and screen by clearing a flat open area on your desk and placing a soft item like a towel on the desk for padding, before laying the screen face down on a flat clean padded surface.

-  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.



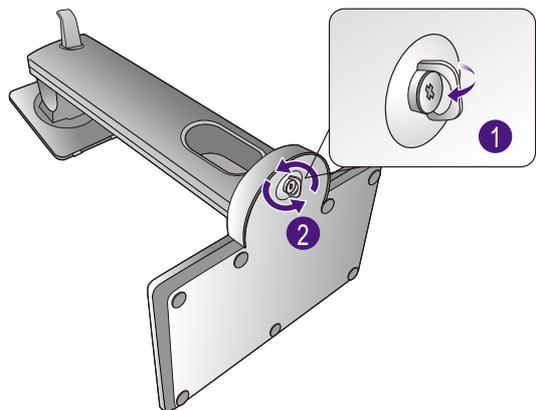
2. Remove the monitor stand.

While pressing and holding the VESA mount release button (1), detach the stand from the monitor (2) and (3).

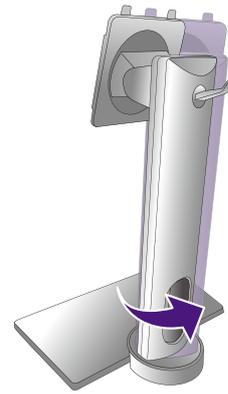


3. Remove the monitor base.

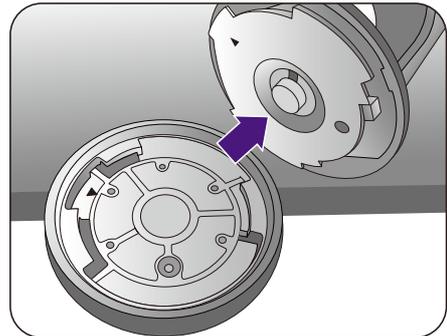
Release the thumbscrew on the bottom of the monitor base.



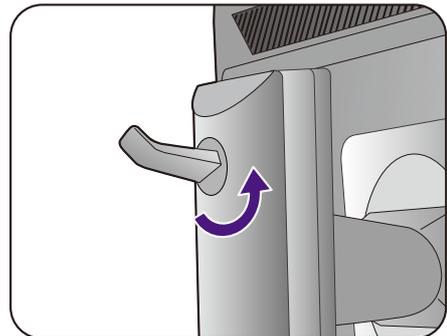
Turn the stand counterclockwise until you cannot go further.



And then detach the base from the stand.

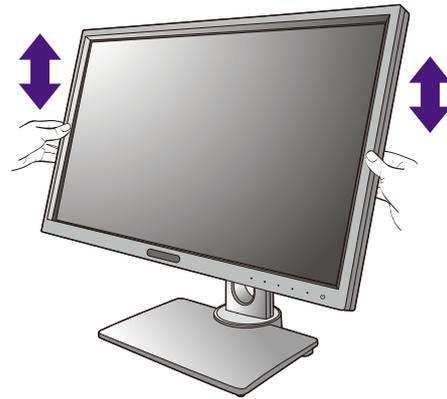


You can remove the headphone hook as illustrated. Keep the headphone hook somewhere safe.

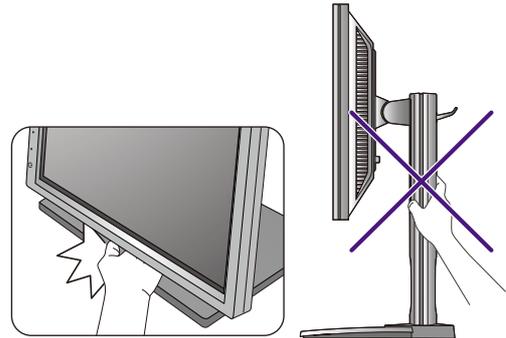


Adjusting the monitor height

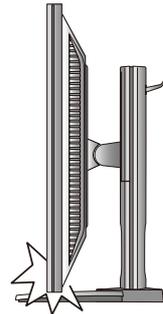
To adjust the monitor height, hold both the left and the right sides of the monitor to lower the monitor or lift it up to the desired height.



-  Avoid placing hands on the upper or lower part of the height-adjustable stand or at the bottom of the monitor, as ascending or descending monitor might cause personal injuries. Keep children out of reach of the monitor while performing this operation.



- If the monitor has been rotated to portrait mode and height adjustment is desired, you should be noted that the wide screen will keep the monitor from being lowered to its minimum height.



Rotating the monitor

1. Pivot the display.

Before rotating the monitor with a portrait viewing orientation, the display has to be rotated 90 degrees.

Click to launch the **Display Pilot** Software (downloaded from Support.BenQ.com), and check **Auto Pivot** to set the display to rotate with the monitor automatically. And then go to **Display** and **Auto Pivot** on your monitor. Select **ON**.

Alternatively, right-click the desktop and select **Screen resolution** from the popup menu. Select **Portrait** in **Orientation**, and apply the setting.



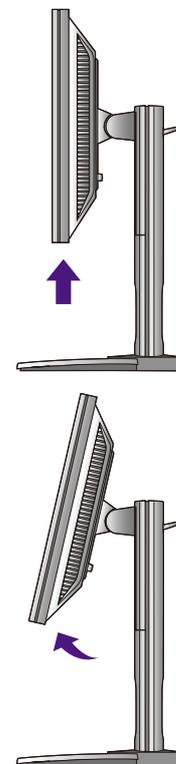
Depending on the operating system on your PC, different procedures should be followed to adjust the screen orientation. Refer to the help document of your operating system for details.

2. Fully extend the monitor and tilt it.

Gently lift the display up and extend it to the maximum extended position. Then tilt the monitor.



The monitor should be vertically extended to allow to rotate from landscape to portrait mode.



3. Rotate the monitor 90 degrees clockwise as illustrated.



To avoid the edge of the LCD display hitting the monitor base surface while it is being rotated, do tilt and extend the monitor to the highest position before you start to rotate the display. You should also make sure there are no obstacles around the monitor and there is enough room for cables.

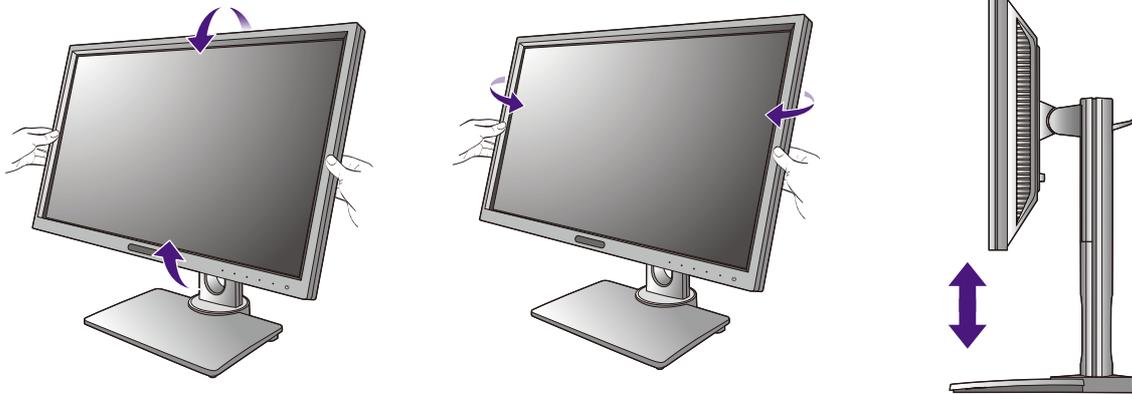


4. Adjust the monitor to the desired viewing angle.



Viewing angle adjustment

You may position the screen to the desired angle with the monitor tilt, swivel, and height adjustment functions. Check the product specifications on the website for details.



Using the monitor wall mounting kit

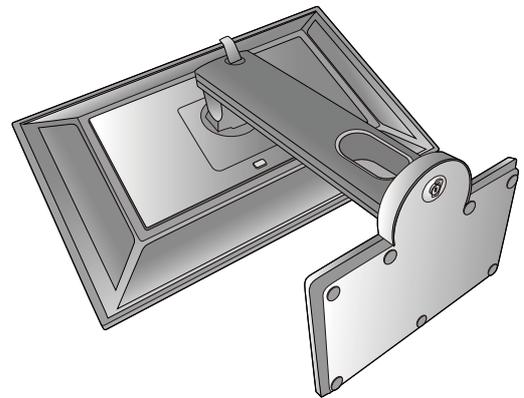
The back of your LCD monitor has a VESA standard mount with 100mm pattern, allowing the installation of a wall mount bracket. Before starting to install a monitor wall mounting kit, please read the precautions carefully.

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 on the website for weight information.
- Turn off the monitor and the power before disconnecting the cables from the LCD monitor.

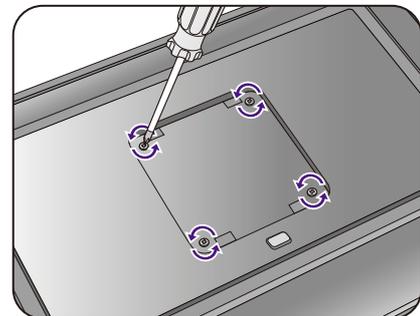
1. Remove the monitor stand.

Lay the screen face down on a clean and well-padded surface. Detach the monitor stand as instructed in step 1~2 in [How to detach the stand and the base on page 26](#).



2. Remove the screws on the back cover.

Use a cross-pointed screwdriver to release the screws on the back cover. The use of a magnetic-head screwdriver is recommended to avoid losing the screws.



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.

3. 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 local website. See [Downloading the LCD Monitor driver files from the Internet on page 32](#) for details.

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. 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 33](#).
- [How to upgrade the monitor on an existing computer on page 34](#).



- 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.
-

Downloading the LCD Monitor driver files from the Internet

1. Download the correct driver files from Support.BenQ.com.
2. On your computer, have your driver files extracted into an empty folder. Remember the file location the files are extracted to.

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 19](#).
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. Check **Search for a suitable driver for my device** option, and click **Next**.
3. Look to confirm that the wizard has selected the correct name of your monitor and click **Next**.
4. Click **Finish**.
5. Restart the computer.

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.

Installing monitor driver software involves selecting an appropriate information file (.inf) from the downloaded driver files for the particular model monitor you have connected, and letting Windows install the corresponding driver files. 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 35](#)
- [How to install on Windows 8 \(8.1\) system on page 36](#)
- [How to install on Windows 7 system on page 37.](#)

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

7. Click **Browse** and locate the driver files downloaded from the Internet as instructed in [Downloading the LCD Monitor driver files from the Internet on page 32](#).

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

7. Click **Browse** and locate the driver files downloaded from the Internet as instructed in [Downloading the LCD Monitor driver files from the Internet on page 32](#).

8. 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.

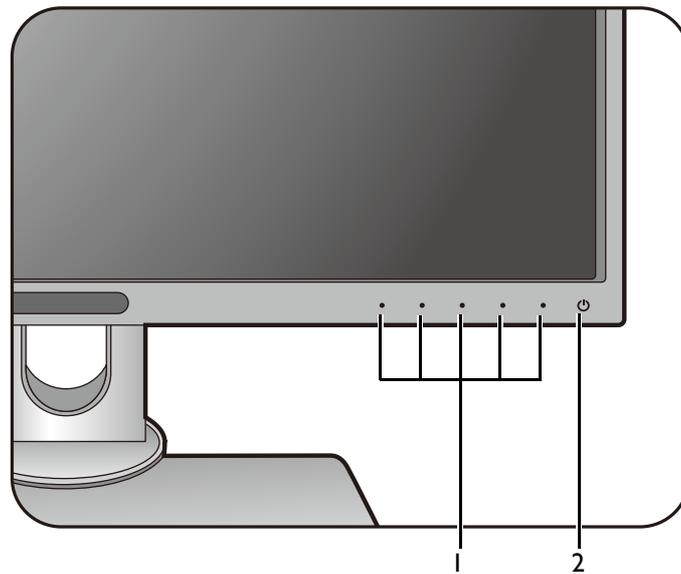
Alternatively, right-click the desktop and select **Personalize, Display, Devices and Printers**, and right-click the name of your monitor from the menu.

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. In the **Update Driver Software** window, select the option **Browse my computer for driver software**.
7. Click **Browse** and locate the driver files downloaded from the Internet as instructed in [Downloading the LCD Monitor driver files from the Internet on page 32](#).
8. Click **Close**.

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

How to adjust your monitor

The control panel



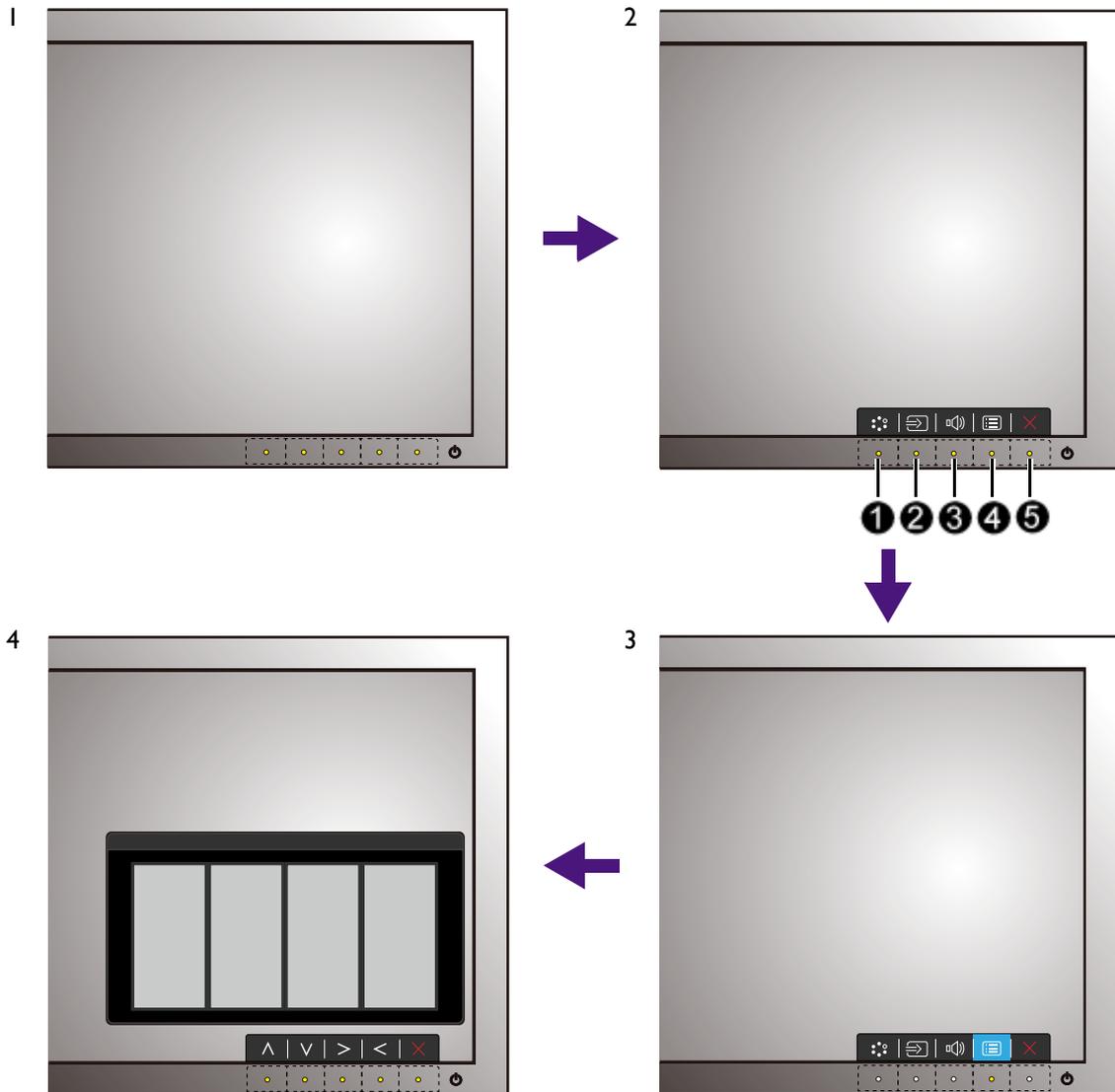
| No. | Name | Description |
|-----|--------------|---|
| 1. | Control keys | Accesses the functions or menu items displayed on the screen, right next to each key. |
| 2. | Power key | Turns the power on or off. |



The control keys are embedded in a touchpad and are indicated by the LED indicators. Touch of an LED indicator represents pressing the corresponding control key.

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 43](#) for details on the menu options.

| No. | OSD in hot key menu | OSD icon in main menu | Function |
|-----|---------------------|-----------------------|---|
| ① | Custom Key 1 | ^ | <ul style="list-style-type: none"> • By default, the key is the hot key for Picture Mode. To change the default settings, see Customizing the hot keys on page 41. • For Up/Increase adjustment. |

| No. | OSD in hot key menu | OSD icon in main menu | Function |
|-----|---------------------|-----------------------|--|
| ② | Custom Key 2 | ∨ | <ul style="list-style-type: none"> • By default, the key is the hot key for Input. To change the default settings, see Customizing the hot keys on page 41. • For Down/Decrease adjustment. |
| ③ | Custom Key 3 | > / ✓ | <ul style="list-style-type: none"> • By default, the key is the hot key for Volume. To change the default settings, see Customizing the hot keys on page 41. • Enters sub menus. • Selects menu items. |
| ④ | Menu | < | <ul style="list-style-type: none"> • Activates the main menu. • Returns to the previous menu. |
| 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.

Controlling the display with Display Pilot

The **Display Pilot** software is provided as an alternative to control the display. Go to Support.BenQ.com and download and install the software from the download page of your model. The website layout and content may vary by region/country.

The main functions include:

- Control of the OSD menus.
- Setup of rotating the display with the monitor automatically (see [page 29](#)).

For more information, go to **System > Options > User Manual** in **Display Pilot**.



Display Pilot is available on Windows 7, Windows 8, and Windows 8.1.

Picture optimization (for models with D-Sub inputs)

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.

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. The utility is available on the website. See [Product support on page 3](#) for more information.

1. Run the test program auto.exe. 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 access 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

Your monitor provides various picture modes that are suitable for different types of images. See [Picture Mode on page 48](#) for all the available picture modes.

Go to **Picture Advanced** and **Picture Mode** for a desired picture mode.

Connecting the monitor to your MacBook series product

While the monitor is connected to your MacBook series product, switch to **M-book** mode which represents MacBook's color matching and visual representation on your monitor.

1. Connect your monitor to the MacBook series product.
2. Go to **Picture Advanced** and **Picture Mode**.
3. Select **M-book**. The setting will take effect immediately.

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 39](#) 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.



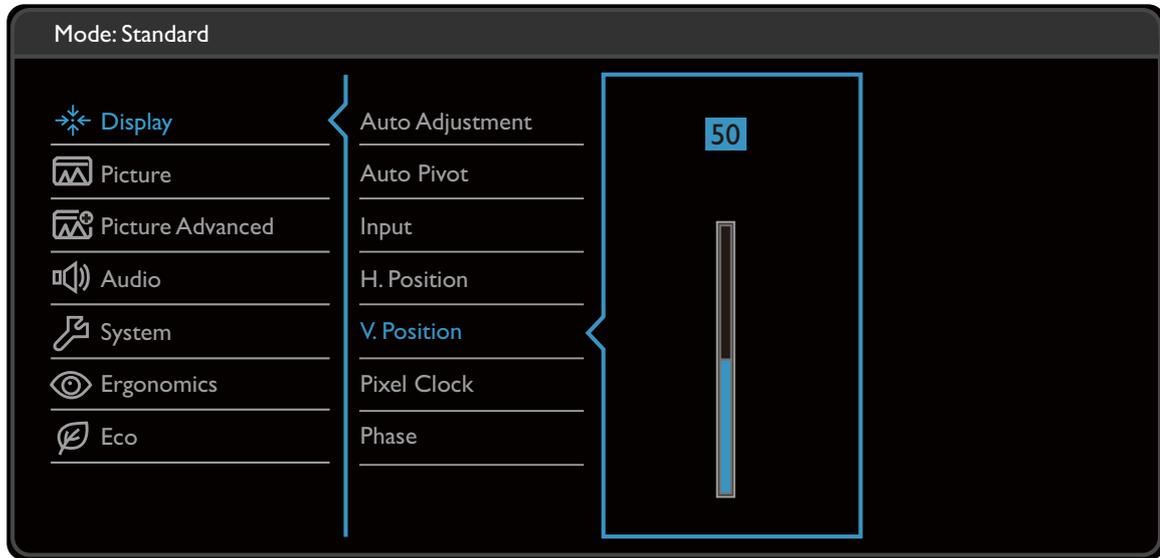
The OSD menu languages may differ from the product supplied to your region, see [Language on page 53](#) under **System** and **OSD Settings** for more details.

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

- [Display menu on page 44](#)
- [Picture menu on page 46](#)
- [Picture Advanced menu on page 48](#)
- [Audio menu on page 51](#)
- [System menu on page 52](#)
- [Ergonomics menu on page 56](#)
- [Eco menu on page 58](#)

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  or  to select **Display**.
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 .

For models with D-Sub inputs

| Item | Function | Range |
|------------------------|---|-------------|
| Auto Adjustment | Optimizes and adjusts the screen settings automatically for you.  Not applicable to a digital input signal. | |
| Auto Pivot | Sets to rotate the display with the monitor. See page 29 for more information. | •ON •OFF |

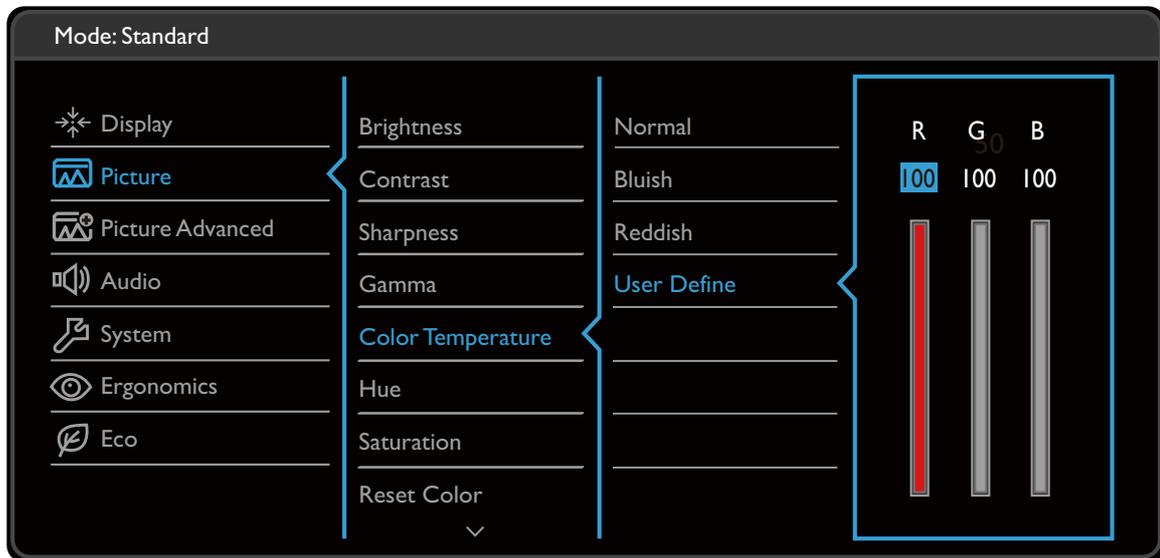
| Item | Function | Range |
|--------------------|---|---|
| Input | Use this to change the input to that appropriate to your video cable connection type.  Available options vary by model. Check the product specifications on the website for available input connectors of the purchased model. | <ul style="list-style-type: none"> •D-Sub •DVI •HDMI •DisplayPort |
| H. Position | Adjusts the horizontal position of the screen image. | 0 to 100 |
| V. Position | Adjusts the vertical position of the screen image. | 0 to 100 |
| Pixel Clock | Adjusts the pixel clock frequency timing to synchronize with the analog input video signal. See also: Picture optimization (for models with D-Sub inputs) on page 41 .  Not applicable to a digital input signal. | 0 to 100 |
| Phase | Adjusts the pixel clock phase timing to synchronize with the analog input video signal. See also: Picture optimization (for models with D-Sub inputs) on page 41 .  Not applicable to a digital input signal. | 0 to 63 |

For models without D-Sub inputs

| Item | Function | Range |
|-------------------|--|---|
| Auto Pivot | Sets to rotate the display with the monitor. See page 29 for more information. | <ul style="list-style-type: none"> •ON •OFF |
| Input | Use this to change the input to that appropriate to your video cable connection type. | <ul style="list-style-type: none"> •DVI •HDMI •DisplayPort |

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.



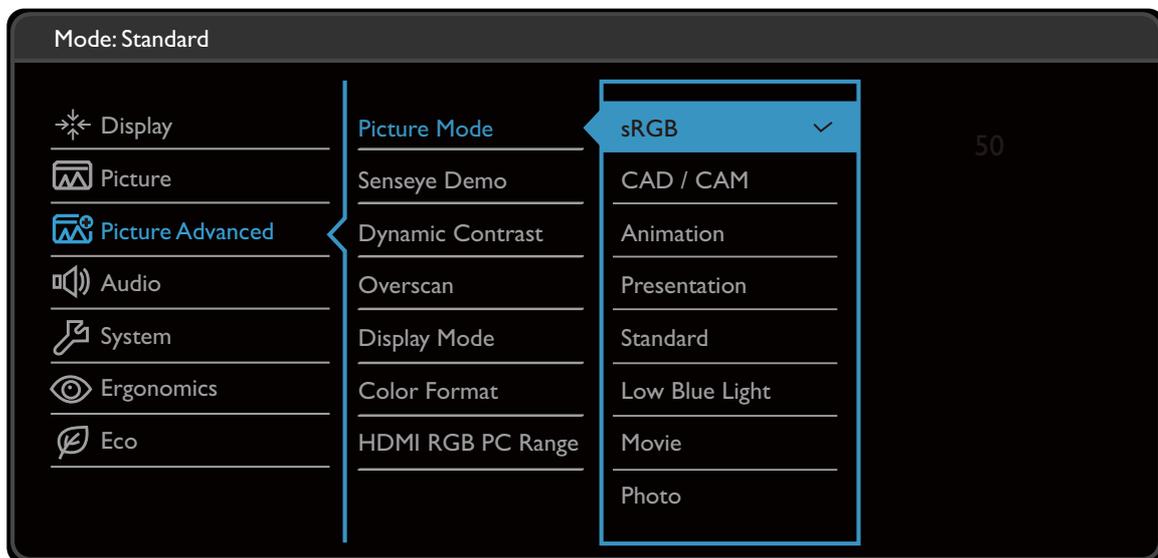
1. Select  (**Menu**) from the hot key menu.
2. Use  or  to select **Picture**.
3. Select  to go to a sub menu, and then use  or  to select a menu item.
4. Use  or  to make adjustments, or use  to make selection.
5. To return to the previous menu, select .
6. To exit the menu, select .

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

| Item | Function | | Range |
|--------------------------|--|--|--|
| Gamma | Adjusts the tone luminance. The default value is 3 (the standard value for Windows). | | <ul style="list-style-type: none"> • 1 • 2 • 3 • 4 • 5 |
| Color Temperature | Normal | Allows video and still photographs to be viewed with natural coloring. This is the factory default color. | |
| | Bluish | Applies a cool tint to the image and is factory pre-set to the PC industry standard white color. | |
| | Reddish | Applies a warm tint to the image and is factory pre-set to the news print standard white color. | |
| | User Define | <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 R (red), G (green), and 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"> • R (0~100) • G (0~100) • B (0~100) |
| Hue | Adjusts the degree of how we perceive colors. | | 0 ~ 100 |
| Saturation | Adjusts the purity degree of colors. | | 0 ~ 100 |
| Reset Color | Resets the custom color settings to the factory defaults. | | <ul style="list-style-type: none"> • YES • NO |
| AMA | Improves the gray level response time of the LCD panel. | | <ul style="list-style-type: none"> • OFF • High • Premium |

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 .

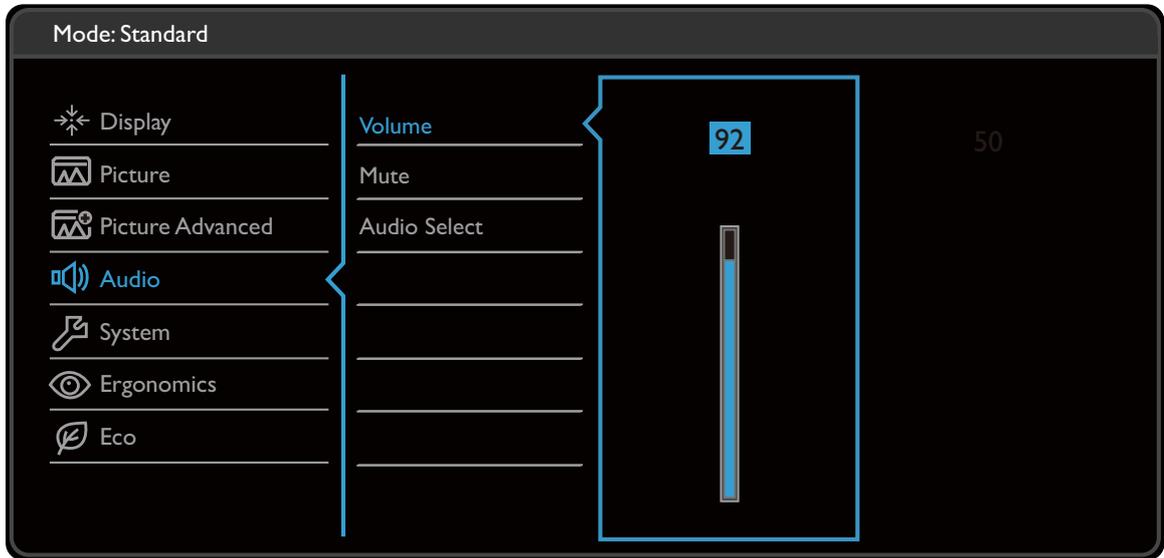
| Item | Function | | Range |
|---------------------|---|---|--------|
| Picture Mode | Select a picture mode that best suits the type of images shown on the screen. | | |
| | sRGB | For better color matching representation with the peripheral devices, such as printers, digital cameras, etc. | |
| | CAD / CAM | Enhances the contrast if a CAD / CAM software is used. | |
| | Animation | Enhances the contrast of the dark shades so you could work on the details easily when making an animation. | 0 ~ 10 |

| Item | Function | | Range | |
|-------------------------|---|---|---|------|
| | Presentation | Minimizes the differences of color, contrast, and brightness between the images displayed on the monitor and projected by a projector. | | |
| | Standard | For basic PC application. | | |
| | Low Blue Light | Decreases the blue light emitted from the display to reduce the risk of blue light exposure to your eyes.  The value for each Low Blue Light mode indicates how much blue light is decreased compared with the Standard mode. | | |
| | | Multimedia | For viewing multimedia files. | -30% |
| | | Web Surfing | For web surfing. | -50% |
| | | Office | For office works or office environment. | -60% |
| | | Reading | For reading e-books or documents. | -70% |
| | Movie | For viewing videos. | | |
| | Photo | For viewing still images. | | |
| | Eco | For saving electricity with low power consumption by providing minimum brightness for all running programs. | | |
| M-book | Minimizes the visual differences between the monitor and the connected MacBook series product. | | | |
| User | Applies a combination of picture settings defined by users. | | | |
| Senseye Demo | Displays the preview of screen images under the selected mode from Picture Mode. The screen will be divided into two windows; the left window demonstrates images of Standard mode, while the right window presents the images under the specified mode. | | <ul style="list-style-type: none"> • ON • OFF | |
| Dynamic Contrast | The function is to automatically detect the distribution of an input visual signal, and then to create the optimal contrast. | | 0 to 5 | |
| Overscan | 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, DP, or D-Sub (VGA converted from Component). | | <ul style="list-style-type: none"> • ON • OFF | |

| Item | Function | Range | | | | | | |
|---|--|---|--|---------------|---|------------|--|--|
| Display Mode | <p>This feature is provided to allow aspect ratios other than 16:9 to be displayed without geometric distortion.</p> <p> The options under Display Mode will be different depending on the input signal sources.</p> <p> Depending on your selection of Picture Mode, different Display Mode option is pre-set. Change the setting if needed.</p> <table border="1" data-bbox="328 551 1254 831"> <tr> <td data-bbox="328 551 533 645">Full</td> <td data-bbox="533 551 1254 645">Scales the input image to fill the screen. Ideal for 16:9 aspect images.</td> </tr> <tr> <td data-bbox="328 645 533 739">Aspect</td> <td data-bbox="533 645 1254 739">The input image is displayed without geometric distortion filling as much of the display as possible.</td> </tr> <tr> <td data-bbox="328 739 533 831">1:1</td> <td data-bbox="533 739 1254 831">Displays the input image in its native resolution without scaling.</td> </tr> </table> | Full | Scales the input image to fill the screen. Ideal for 16:9 aspect images. | Aspect | The input image is displayed without geometric distortion filling as much of the display as possible. | 1:1 | Displays the input image in its native resolution without scaling. | |
| Full | Scales the input image to fill the screen. Ideal for 16:9 aspect images. | | | | | | | |
| Aspect | The input image is displayed without geometric distortion filling as much of the display as possible. | | | | | | | |
| 1:1 | Displays the input image in its native resolution without scaling. | | | | | | | |
| Color Format (for models with D-Sub inputs) | <p>Determines the color space (RGB or YUV) based on the detected video signal.</p> <p> You might need to manually set the Color Format if colors shown on the monitor screen do not display properly.</p> <p> If the input source is HDMI or DP, color format is not selectable. In other words, Color Format is automatically set depending on the input video source.</p> <table border="1" data-bbox="328 1193 1254 1395"> <tr> <td data-bbox="328 1193 533 1301">RGB</td> <td data-bbox="533 1193 1254 1301"> <ul style="list-style-type: none"> • For D-Sub (VGA) input source from PC. • For DVI input source. </td> </tr> <tr> <td data-bbox="328 1301 533 1395">YUV</td> <td data-bbox="533 1301 1254 1395">For D-Sub (Component converted from VGA) input source from a video device.</td> </tr> </table> | RGB | <ul style="list-style-type: none"> • For D-Sub (VGA) input source from PC. • For DVI input source. | YUV | For D-Sub (Component converted from VGA) input source from a video device. | | | |
| RGB | <ul style="list-style-type: none"> • For D-Sub (VGA) input source from PC. • For DVI input source. | | | | | | | |
| YUV | For D-Sub (Component converted from VGA) input source from a video device. | | | | | | | |
| HDMI RGB PC Range (for models with HDMI inputs) | <p>Determines the range of color scales. Select an option that matches the RGB range setting on the connected HDMI device.</p> | <ul style="list-style-type: none"> • RGB (0 ~ 255) • RGB (16 ~ 235) | | | | | | |

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.

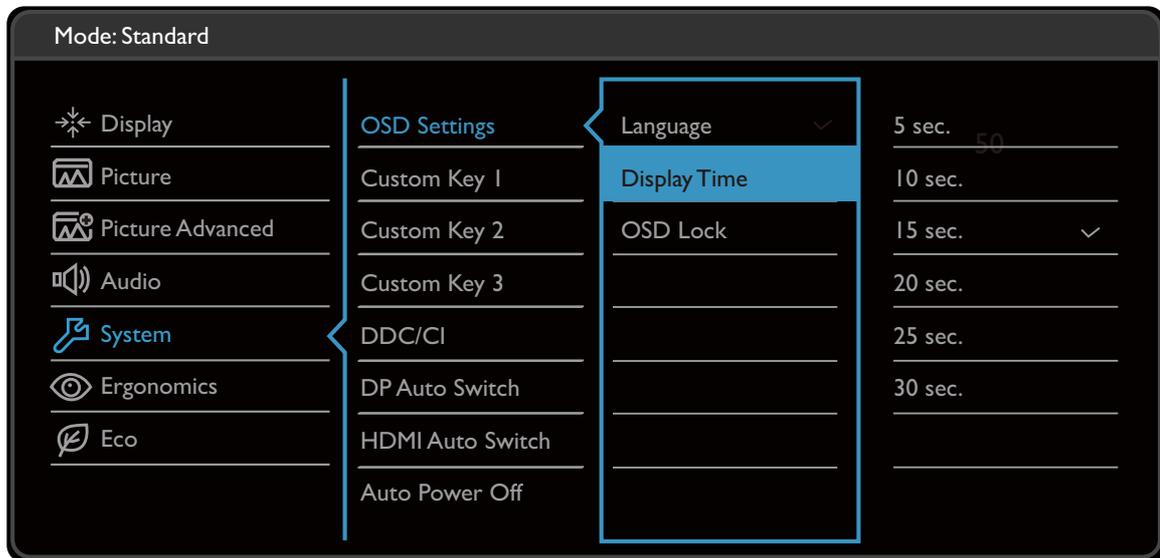


1. Select  (**Menu**) from the hot key menu.
2. Use \wedge or \vee to select **Audio**.
3. Select \triangleright to go to a sub menu, and then use \wedge or \vee to select a menu item.
4. Use \wedge or \vee to make adjustments, or use \checkmark to make selection.
5. To return to the previous menu, select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

| Item | Function | Range |
|--|--|---|
| Volume | Adjusts the audio volume. | 0 ~ 100 |
| Mute | Mutes the audio input. | <ul style="list-style-type: none"> • ON • OFF |
| Audio Select (for models with more than 2 audio sources) | Allow users to select the audio source or let the monitor detect it automatically. | <ul style="list-style-type: none"> • PC Audio • Auto Detect |

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 .

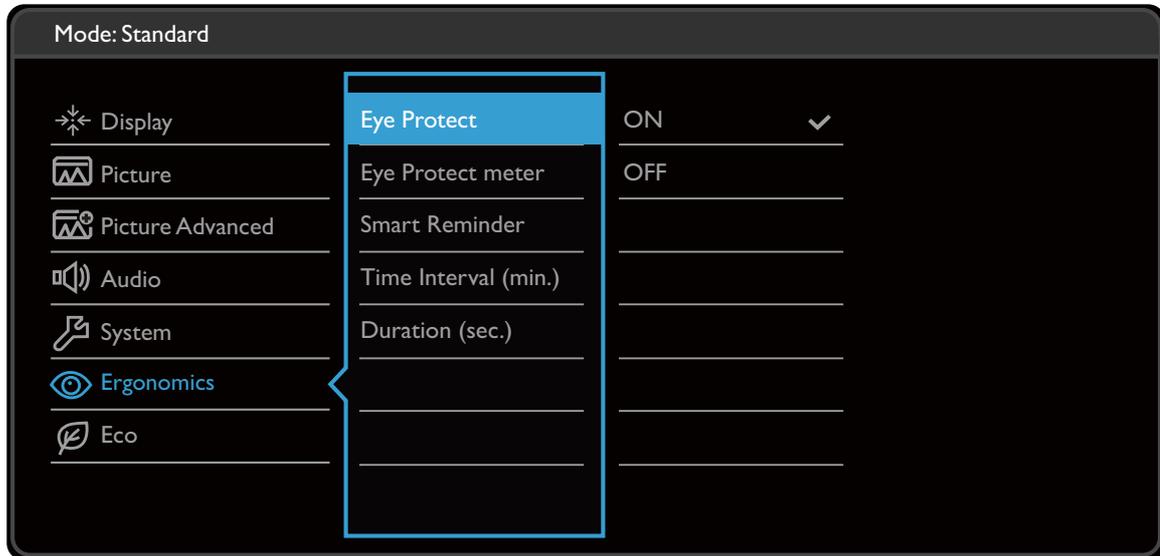
| Item | Function | | Range |
|---------------------|---------------------|--|--|
| OSD Settings | Language | Sets the OSD menu language.  The language options displayed on your OSD may differ from those shown on the right, depending on the product supplied in your region. | <ul style="list-style-type: none"> • English • Français • Deutsch • Italiano • Español • Polski • Český • Magyar • SiCG/BIH/CRO • Română • Nederlands • Русский • Svenska • Português • 日本語 • 繁體中文 • 简体中文 |
| | Display Time | Adjusts the display time of the OSD menu. | <ul style="list-style-type: none"> • 5 sec. • 10 sec. • 15 sec. • 20 sec. • 25 sec. • 30 sec. |
| | OSD Lock | 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 |
|-----------------------|--|---|
| Custom Key 1 | Sets the function to be accessed by custom key 1. | <ul style="list-style-type: none"> • Picture Mode • CAD / CAM |
| Custom Key 2 | Sets the function to be accessed by custom key 2. | <ul style="list-style-type: none"> • Animation • Low Blue Light |
| Custom Key 3 | Sets the function to be accessed by custom key 3. | <ul style="list-style-type: none"> • Display Mode • Brightness • Contrast • Auto Adjustment (for models with D-Sub inputs) • Volume • Mute • Input • Eye Protect (for BL2420) • Eye Protect Meter (for BL2420) • Bright Intelligence (for BL2423) • Light Meter (for BL2423) • ECO Sensor • ECO Sensor Meter • Smart Reminder |
| DDC/CI | <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"> • ON • OFF |
| DP Auto Switch | When this function is activated, DP port will be in the input auto select loop. Otherwise, DP can only be selected by input select or by hot key. | <ul style="list-style-type: none"> • ON • OFF |

| Item | Function | Range |
|--|---|--|
| HDMI Auto Switch (for models with HDMI inputs) | When this function is activated, HDMI port will be in the input auto select loop. Otherwise, HDMI can only be selected by input select or by hot key. | <ul style="list-style-type: none"> • ON • OFF |
| Auto Power Off | Sets the time to power off the monitor automatically in power saving mode. | <ul style="list-style-type: none"> • OFF • 10min. • 20min. • 30min. |
| Resolution Notice | 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"> • ON • OFF |
| Information | Displays the current monitor property settings. | <ul style="list-style-type: none"> • Input • Current Resolution • Optimum Resolution (best with the monitor) |
| DisplayPort | Selects an appropriate DP standard for data transmission. | <ul style="list-style-type: none"> • 1.1 • 1.2 |
| Reset All | Resets all mode, color and geometry settings to the factory default values. | <ul style="list-style-type: none"> • YES • NO |

Ergonomics 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.



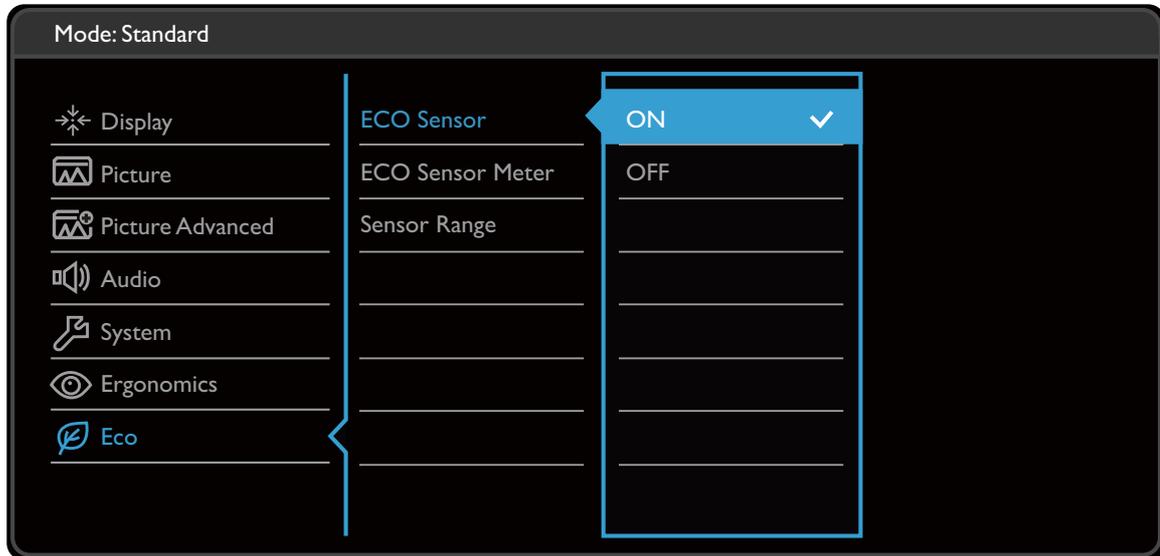
1. Select  (**Menu**) from the hot key menu.
2. Use \wedge or \vee to select **Ergonomics**.
3. Select $\>$ to go to a sub menu, and then use \wedge or \vee to select a menu item.
4. Use \wedge or \vee to make adjustments, or use \checkmark to make selection.
5. To return to the previous menu, select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

| Item | Function | Range |
|------------------------------------|---|---|
| Eye Protect (for BL2420) | Your monitor comes with a light sensor, which detects the light condition around the monitor and adjusts the monitor backlight automatically. This is to protect your eyes from overexposure to bright light. If the light is sufficient, the monitor brightness is increased. If the monitor is in a poor light, the monitor brightness is decreased.  If you prefer to adjust the monitor brightness manually, go to PICTURE > Brightness . | <ul style="list-style-type: none"> • ON • OFF |

| Item | Function | Range |
|--|--|---|
| Eye Protect Meter (for BL2420) | Sets to display the light condition around the monitor on the screen. | <ul style="list-style-type: none"> • ON • OFF |
| Bright Intelligence (for BL2423) | 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. | <ul style="list-style-type: none"> • ON • OFF |
| Light Meter (for BL2423) | Sets to display the light condition around the monitor on the screen. | <ul style="list-style-type: none"> • ON • OFF |
| Sensor Sensitivity (for BL2423) | Adjusts sensitivity of light sensor to change the brightness range to be detected. This may be helpful to correct uneven lighting in light detection. | 0 ~ 100 |
| Smart Reminder | Decides to display the pop-up message that reminds you to rest your eyes. | <ul style="list-style-type: none"> • ON • OFF |
| Time interval (min.) | Sets the interval of the reminder message. | <ul style="list-style-type: none"> • 20 • 40 • 60 • 80 • 100 |
| Duration (sec.) | Sets the time the reminder message lasts on the screen.  Alternatively, when the reminder message is displayed, press any key except the power button to hide the message. | <ul style="list-style-type: none"> • 5 • 10 • 15 • 20 • 25 |

Eco 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 **Eco**.
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 |
|-------------------|---|---|
| ECO Sensor | <p>Your monitor comes with a proximity sensor (called ECO sensor), which detects your presence in front of the monitor within the set range. If the sensor detects no presence, the monitor is turned off in 40 seconds to save power.</p> <p> If the monitor is turned off by the ECO sensor, the power button flashes in green. If the ECO sensor detect no presence for over 2 hours, the monitor will be powered off. Press the power button to turn on the monitor.</p> | <ul style="list-style-type: none"> • ON • OFF |

| Item | Function | Range |
|-------------------------|--|--|
| ECO Sensor Meter | Sets to display the countdown to turn off the monitor. | <ul style="list-style-type: none"> • ON • OFF |
| Sensor Range | Decides how far the sensor can detect. | <ul style="list-style-type: none"> • Near • Middle • Far |

Troubleshooting

Frequently asked questions (FAQ)

-  The image is blurred.
-  • Download **Resolution file** from the website (see [Product support on page 3](#)). Refer to "**Adjusting the Screen Resolution**". And then select the correct resolution, refresh rate and make adjustments based on these instructions.
- (For models with D-Sub inputs) If a VGA extension cable is used, remove the extension cable for the test. Is the image now in focus? Download **Resolution file** from the website (see [Product support on page 3](#)). Refer to "**Adjusting the Screen Resolution**". And then select the correct resolution, refresh rate and make adjustments based on these instructions to optimize the image. 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?
-  Download **Resolution file** from the website (see [Product support on page 3](#)). Refer to "**Adjusting the Screen Resolution**". And then select the correct resolution, refresh rate and make adjustments based on these instructions.
-  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 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. Download **Resolution file** from the website (see [Product support on page 3](#)). Refer to "**Adjusting the Screen Resolution**". And then select the correct resolution, refresh rate and make adjustments based on these instructions.
 -  • 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.
-  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.
-  The image is distorted, flashes or flickers.
-  Download **Resolution file** from the website (see [Product support on page 3](#)). Refer to "**Adjusting the Screen Resolution**". 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 50](#) for details.
-  The image is displaced in one direction.
-  Download **Resolution file** from the website (see [Product support on page 3](#)). Refer to "**Adjusting the Screen Resolution**". And then select the correct resolution, refresh rate and make adjustments based on these instructions.
-  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.

? 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.

? No sound can be heard from the built-in speakers:

- ✓ • Check whether Line In is properly connected.
- 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.)

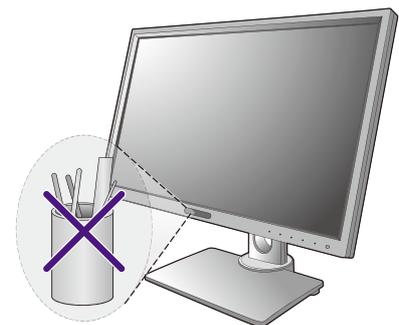
? The light sensor of the monitor does not work well.

✓ The light sensor is located at the front bottom of the monitor. Please check:

- (For BL2420) If the Eye Protect function is set to **ON**. Check **Ergonomics > Eye Protect**. (For BL2423) If the **Bright Intelligence** function is set to **ON**. Check **Ergonomics > 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.

? The ECO sensor of the monitor does not work well.

- ✓ • The ECO sensor is located at the front bottom of the monitor. Check if there are any obstacles in front of the sensor that keep the sensor from detecting your presence properly.
- The colors and the materials of your clothes may affect the detection. Adjust the sensor range if needed. See [Sensor Range on page 59](#) for more information.
- Adjust the distance between you and the monitor.



If none of the proceeding actions works, it is probably because the materials of your clothes are unique and cannot be detected by the ECO sensor. Please be noted that this is neither a manufacturing defect nor is the sensor damaged. You should turn off the ECO sensor for now in **Eco > ECO Sensor**.

Need more help?

If your problems remain after checking this manual, please contact your place of purchase or visit the local website from Support.BenQ.com for more support and local customer service.