

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.)

## **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.
- An approved power cord greater or equal to H03VV-F or H05VV-F, 2G or 3G, 0.75mm<sup>2</sup> must be used.

## Care And Cleaning

- Cleaning. Always unplug your monitor from the wall 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 source, or in a built-in installation unless proper ventilation is provided.
- Never push objects or spill liquid of any kind into this product.

## 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.

## 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.

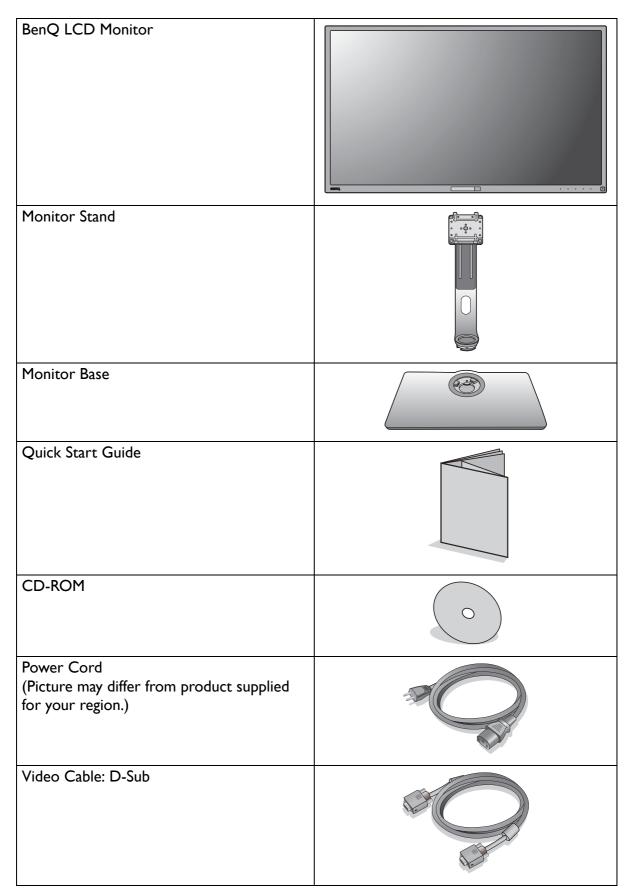


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## Getting started

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



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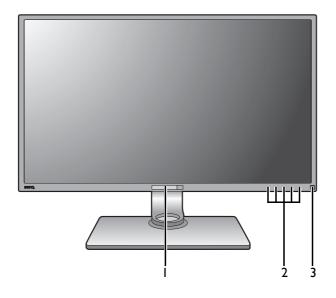
• Available accessories and the pictures shown here may differ from the actual contents and the product supplied for your region. For cables that are not supplied with your product, you can purchase them separately.

• 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.

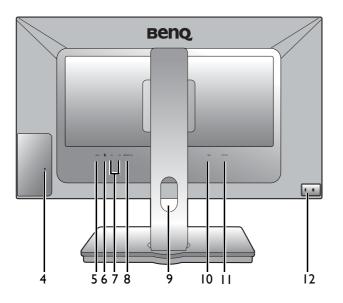
Always keep the product and accessories out of reach of small children.

## Getting to know your monitor

### Front view

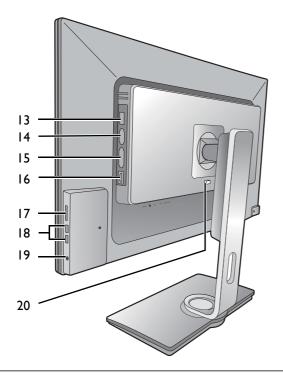


#### Back view



- I. Light sensor / Eco sensor
- 2. Control buttons
- 3. Power button

- 4. Wire holder socket
- 5. USB 3.0 ports (upstream; connecting to the PC)
- 6. OSD Controller socket
- 7. USB 2.0 ports (downstream; connecting to USB devices)
- 8. Audio Line In
- 9. Cable management hole
- 10. AC power input jack
- II. Power switch
- 12. Kensington lock slot



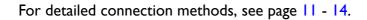
- 13. DisplayPort socket
- 14. D-Sub socket
- 15. DVI-D socket
- 16. HDMI socket
- 17. SD card slot
- 18. USB 3.0 ports (downstream; connecting to USB devices)
- 19. Headphone jack
- 20. Quick release button

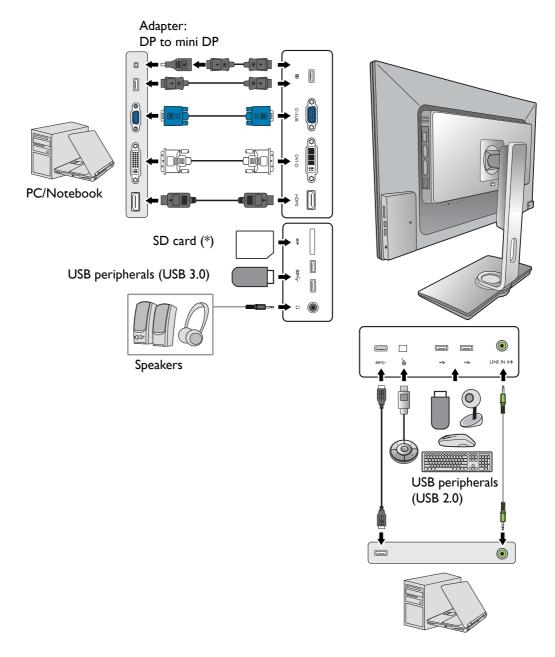
• Above diagram may vary depending on the model.

• 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.





\*: Requires card reader driver for Windows 8.1 operating system. Install the driver from the supplied CD.

## How to assemble your monitor hardware

**>** .

• If the computer is turned on you must turn it off before continuing.

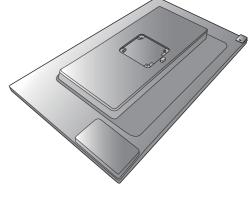
- Do not plug-in or turn-on the power to the monitor until instructed to do so.
- The following illustrations are for your reference only. Available input and output jacks may vary depending on the purchased model.

#### 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.

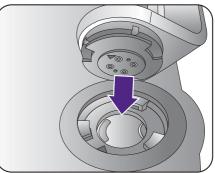
Protect the monitor and screen by clearing a flat open area on your desk and placing a soft item like the monitor packaging bag on the desk for padding.

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. And then turn the stand counterclockwise to face forward.

Orient and align the stand arm with the monitor  $(\mathbf{1})$ , 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 should position the monitor and angle the screen to minimize unwanted reflections from other light sources.

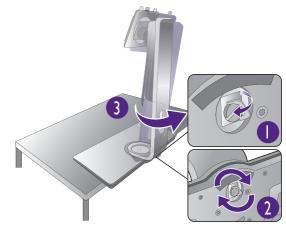


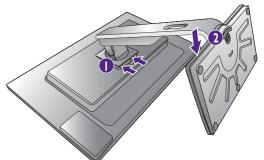
Do not use both DVI-D cable and D-Sub cable on the same PC. The only case in which both cables can be used is if they are connected to two different PCs with appropriate video systems.

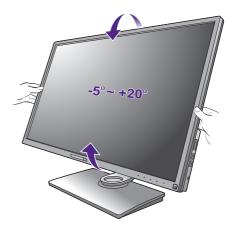
#### To Connect the D-Sub Cable

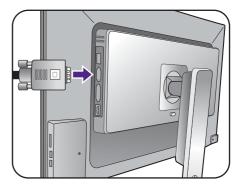
Connect the plug of the D-Sub cable (at the end without the ferrite filter) to the monitor video socket. Connect the other end of the cable (at the end with the ferrite filter) to the computer video socket.

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









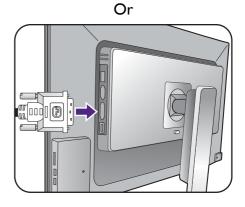
#### To Connect the DVI-D Cable

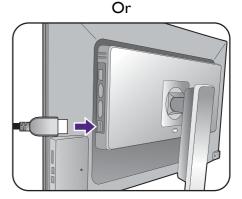
Connect the plug of the DVI-D cable (at the end without the ferrite filter) to the monitor video socket. Connect the other end of the cable (at the end with the ferrite filter) to the computer video socket.

Tighten all finger screws to prevent the plugs from accidently 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.





#### 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.

If the image is not displayed, go to **System**, **DisplayPort** and change the setting to **1.1**. And then connect the cable again.

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

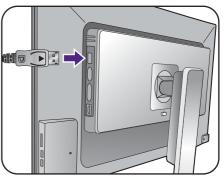
- Good quality: D-Sub

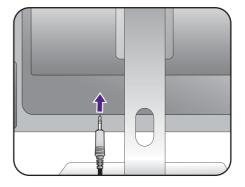
The video cables included in your package and the socket illustrations on the right may vary depending on the product supplied for your region.

#### 3. Connect the audio cable.

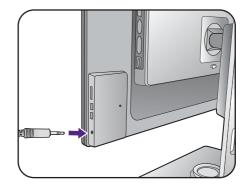
Connect the audio cable between the socket on the rear of the monitor (Line In) and your computer audio outlet.

Or





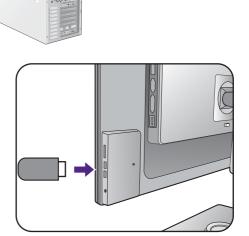
You may connect headphones to the headphone jack found on the back side of the monitor.



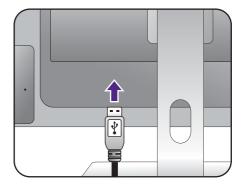
#### 4. Connect USB devices.

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.



Or



#### 5. Connect the memory card.

Insert an SD, MMC, or MS memory card following the direction indicated on the card to exchange files.

Requires card reader driver for Windows 8.1 operating system. Install the driver from the supplied CD.

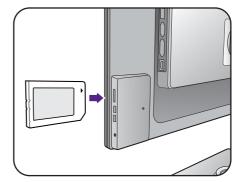
Supported memory card formats are as follows:

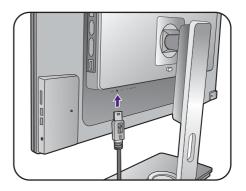
- SD / SDHC / SDXC
- MMC
- Memory Stick / Memory Stick Pro
- MS Duo / MS-Pro Duo
- 6. Connect the OSD Controller to the monitor.

Connect the OSD Controller to the mini USB port (exclusively for OSD Controller connection) on the rear of the monitor.

And place the OSD Controller on the monitor stand or to another desired place as illustrated.

For more information on OSD Controller, see OSD Controller on page 28.



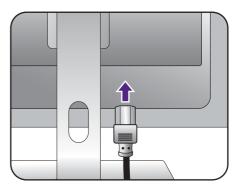






#### 7. Connect the power cable to the monitor.

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.



#### 8. Organize the cables.

Attach the wire holder to its socket on the rear of the monitor. And insert the cables one after one into the

wire holder  $(\mathbf{I})$ .

Route the cables via the cable management hole (2).

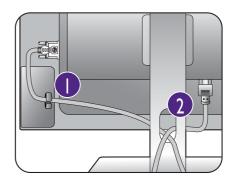
#### 9. Connect-to and turn-on the power.

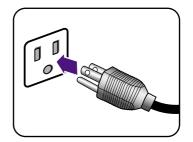
Plug the other end of the power cord into a power outlet and turn it on.

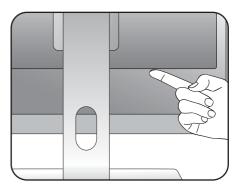


Picture may differ from product supplied for your region.

Switch the power switch next to the AC power input jack to  $\mathbf{ON}$ .



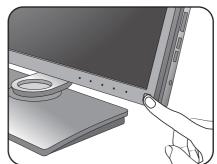




Turn on the monitor by pressing the power button on the monitor.

Turn on the computer too, and 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.

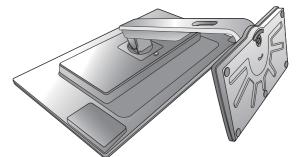


### How to detach the stand and the base

#### I. 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.

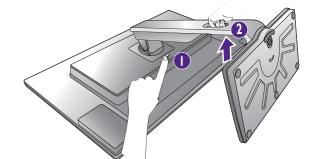


Please be careful to prevent damage to the monitor. Placing the screen surface on an object like a stapler or a mouse will crack the glass or damage the LCD substrate voiding your warranty. Sliding or scraping the monitor around on your desk will scratch or damage the monitor surround and controls.

#### 2. Remove the monitor stand.

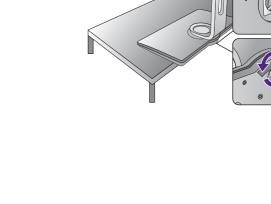
While pressing and holding the quick release button

 $(\mathbf{1})$ , detach the stand from the monitor  $(\mathbf{2})$ .

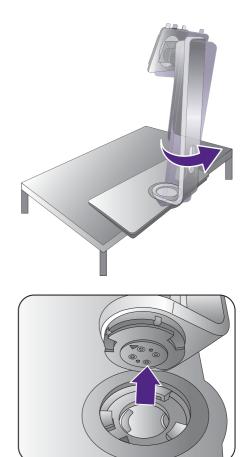


#### 3. Remove the monitor base.

Release the thumbscrew on the bottom of the monitor base.



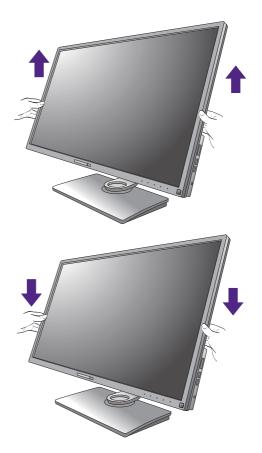
Turn the stand counterclockwise until you cannot go further.



And then detach the base from the stand.

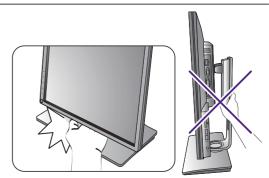
## Adjusting the monitor height

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

I. Pivot the display.

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

- a. Go to Display and Auto Pivot. Select On.
- b. Click to launch the Display Pilot Software (if installed from the CD), and check Auto Pivot to set the display to rotate with the monitor automatically.
   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. Remove the connected USB peripherals and audio cable first.

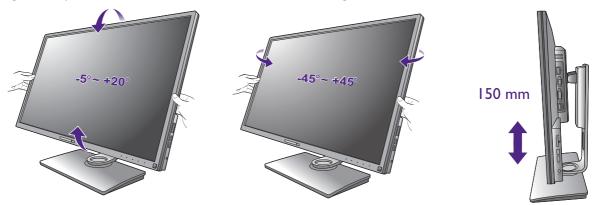


4. Adjust the monitor to the desired viewing angle.



## Viewing angle adjustment

You may position the screen to the desired angle with  $-5^{\circ}$  to  $+20^{\circ}$  monitor tilt,  $90^{\circ}$  (left and right total) monitor swivel, and 150 mm monitor height.



### Using the monitor wall mounting kit

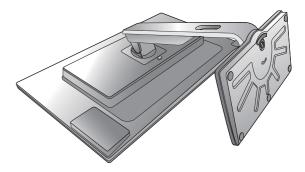
The back of your LCD monitor has a VESA standard mount with 100mm pattern, allowing the installation of a wall mount bracket. Before starting to install a monitor wall mounting kit, please read the precautions carefully.

#### **Precautions**

- Install your monitor and monitor mounting kit on a wall with flat surface.
- Ensure that the wall material is stable to support the weight of the monitor.
- 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. Detach the monitor stand as instructed in step  $I \sim 2$  in How to detach the stand and the base on page 16.

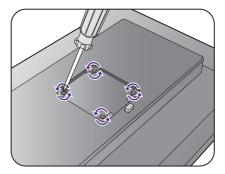


#### 2. Remove the screws on the back cover.

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



## 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.

Ø

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.

- Follow the instructions in How to assemble your monitor hardware on page 10.
   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
BL3200	BL3200PT / BL3200PE / BL3200PH

#### 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 8.1, Windows 8, and Windows 7 Operating System (OS).

Ø

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) 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 8 (8.1) system (selected models only) on page 25.
- How to install on Windows 7 system on page 26.

# How to install on Windows 8 (8.1) system (selected models only)

#### I. 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.

- 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

I. 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).

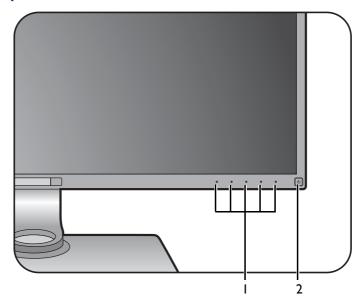
The drive letter for your CD drive may differ from the example above depending upon your system - it may be 'D:' or 'E:' or 'F:' etc.

- 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.

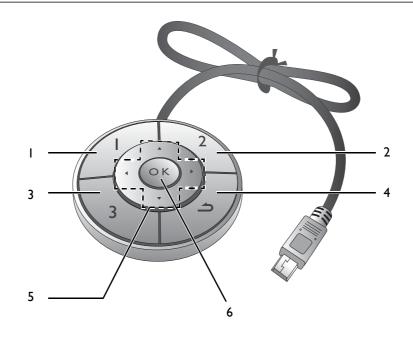


The control keys are embedded in a touchpad and are indicated by the LED indicators. Touch of an LED indicator represents pressing the corresponding control key.

### **OSD** Controller

Apart from the control keys, OSD Controller also provides a quick way to control and access the OSD menus.

You need to connect the OSD Controller to your monitor prior to use. Follow the instructions in Connect the OSD Controller to the monitor. on page 14.



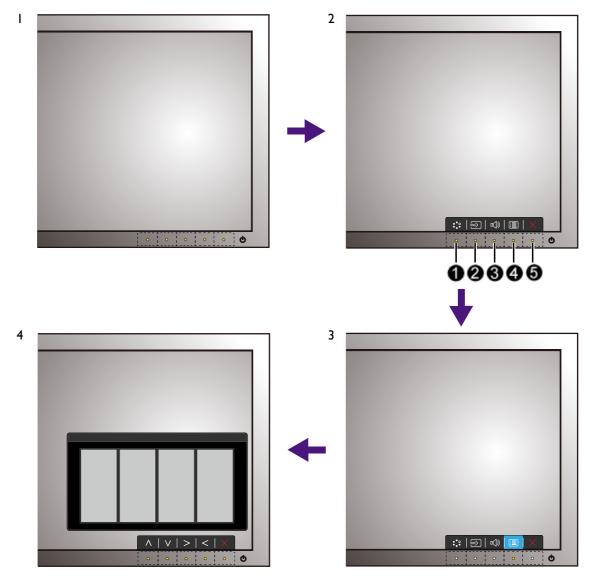
No.	Name	Description	
١.	Controller Key I	• Press to switch to <b>sRGB</b> ( <b>Picture Mode</b> ).	
		• Press and hold for 5 seconds to bring up a list of options, select	
		another feature of setup menu by pressing $igttacksquare$ or $igtacksquare$ , and	
		confirm with OK .	
2.	Controller Key 2	• Press to switch to CAD / CAM (Picture Mode).	
		• Press and hold for 5 seconds to bring up a list of options, select	
		another feature of setup menu by pressing $igttacksquare$ or $igtacksquare$ , and	
		confirm with OK .	
3.	Controller Key 3	• Press to switch to Low Blue Light (Picture Mode).	
		• Press and hold for 5 seconds to bring up a list of options, select	
		another feature of setup menu by pressing $\blacktriangle$ or $igvee$ , and	
		confirm with OK .	
4.	Return button	• Exits OSD menu.	
	( 1)	• Returns to the previous menu.	

No.	Name	Description	
5.	Navigation buttons	• ▲ : For Up/Increase adjustment.	
	(▲ / ▼ / ◀ /	• ▼: For Down/Decrease adjustment.	
	▶)	• • Enters sub menus.	
		• < : Returns to the previous menu.	
6.	OK key ( OK )	• Activates the hot key menu.	
		• Selects menu items.	
OSD Controller is designed for BenQ LCD Monitor exclusively and is available for compatible models only. E			

not connect it to other devices with mini USB ports.

#### 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.



- I. Press any of the control keys. Alternatively, press the OK key on the OSD Controller.
- 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 34 for details on the menu options.

No.	OSD in hot key menu	OSD icon in main menu	Function
0	Custom Key 1	٨	<ul> <li>By default, the key is the hot key for Picture Mode. To change the default settings, see Customizing the hot keys on page 32.</li> <li>For Up/Increase adjustment.</li> </ul>

No.	OSD in hot key menu	OSD icon in main menu	Function
0	Custom Key 2	V	<ul> <li>By default, the key is the hot key for Input. To change the default settings, see Customizing the hot keys on page 32.</li> <li>For Down/Decrease adjustment.</li> </ul>
8	Custom Key 3	> , √	• By default, the key is the hot key for <b>Volume</b> . To change the default settings, see Customizing the hot keys on page 32.
			• Enters sub menus.
			• Selects menu items.
4	Menu	<	• Activates the main menu.
			• Returns to the previous menu.
6	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 provided **Display Pilot** software on the CD is an alternative to control the display. The main functions include:

- Control of the OSD menus.
- Setup of rotating the display with the monitor automatically (see page 19).

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

#### 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.

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 or the OK key on the OSD Controller 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.

- I. Press any of the control keys or the OK key on the OSD Controller to bring up the hot key menu. Select 🔲 (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.

- I. Press any of the control keys or the OK key on the OSD Controller to bring up the hot key menu. Select 🔲 (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.

## Using Smart Scaling

You can resize your display by Smart Scaling.

- I. Go to Picture Advanced and Smart Scaling.
- 2. Adjust the value.



• If one of the custom keys is preset for **Smart Scaling**, you can press the custom key and adjust the value directly.

• Your display may become unstable temporarily when being resized. This is a normal phenomenon and should not be considered as manufacturing defect.

• For more information on Smart Scaling, go to Smart Scaling on page 41.

#### Choosing an appropriate picture mode

Your monitor provides various picture modes that are suitable for different types of images. See Picture Mode on page 39 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.

- I. 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 or the OK key on the OSD Controller to bring up the hot key menu. Select I (Menu) to access the main menu. See Basic menu operation on page 30 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.



The OSD menu languages may differ from the product supplied to your region, see Language on page 45 under **System** and **OSD Settings** for more details.

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

- Display menu on page 35
- Picture menu on page 37
- Picture Advanced menu on page 39
- Audio menu on page 43
- Ergonomics menu on page 48
- Eco menu on page 50
- System menu on page 44

## 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.

Mode: Standard				
Image: System   Image: System				



- I. Select 🔲 (Menu) from the hot key menu.
- 2. Use  $\land$  or  $\lor$  to select **Display**.
- 3. Select > to go to a sub menu, and then use  $\land$  or  $\lor$  to select a menu item.
- 4. Use  $\land$  or  $\lor$  to make adjustments, or use  $\checkmark$  to make selection.
- 5. To return to the previous menu, select < .
- 6. To exit the menu, select X.

ltem	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.	•ON •OFF
Input	Use this to change the input to that appropriate to your video cable connection type.	• D-Sub • DVI • HDMI • DisplayPort

ltem	Function	Range
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 on page 32. 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 on page 32. Not applicable to a digital input signal.	0 to 63

#### Picture menu

Mode: User		1	
→ <sup>↓</sup> ← Display	Brightness	Normal	_ R G B
Picture	Contrast	Bluish	100 100 100
Picture Advanced	Sharpness	Reddish	
<b>Audio</b>	Gamma	User Define	
<b>万</b> System	Color Temperature	{	
Ergonomics	Hue		
🖉 Eco	Saturation		
	Reset Color		
	$\checkmark$		



- I. Select 🔲 (Menu) from the hot key menu.
- 2. Use  $\land$  or  $\lor$  to select **Picture**.
- 3. Select > to go to a sub menu, and then use  $\land$  or  $\lor$  to select a menu item.
- 4. Use  $\land$  or  $\lor$  to make adjustments, or use  $\checkmark$  to make selection.
- 5. To return to the previous menu, select < .
- 6. To exit the menu, select X.

ltem	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.	l to 10

ltem		Function	Range
Gamma	standard value for Windows).		•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	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. 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.)	• R (0~100) • G (0~100) • B (0~100)
Hue	Adjusts the degree of how we perceive colors.		0~100
Saturation	Adjusts th	0~100	
Reset Color	Resets the	•YES •NO	
ΑΜΑ	Improves the gray level response time of the LCD panel.		• OFF • High • Premium

#### Picture Advanced menu

→ Chiplay       Picture Mode       sRGB       50         Image: Picture Advanced       Senseye Demo       CAD / CAM       Animation         Image: Picture Advanced       Overscan       Presentation
System       Display Mode       Standard         Standard       Low Blue Light         Eco       Color Format       Movie         Photo       Y



- I. Select 🔲 (Menu) from the hot key menu.
- 2. Use  $\land$  or  $\lor$  to select **Picture Advanced**.
- 3. Select > to go to a sub menu, and then use  $\land$  or  $\lor$  to select a menu item.
- 4. Use  $\land$  or  $\lor$  to make adjustments, or use  $\checkmark$  to make selection.
- 5. To return to the previous menu, select < .
- 6. To exit the menu, select X.

ltem	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

ltem			Range		
	Presentation	brightness b	<ul> <li>Minimizes the differences of color, contrast, and brightness between the images displayed on the monitor and projected by a projector.</li> <li>For basic PC application.</li> <li>Decreases the blue light emitted from the display to reduce the risk of blue light exposure to your eyes.</li> </ul>		
	Standard	For basic P			
	Low Blue Light	display to re			
		The value for each Low Blue Light mode indicates how much blue light is decreased compared with the Standard mode.Hultimedia filesMultimedia 			
				-30%	
		Web Surfing	For web surfing.	-50%	
		environment.		-60%	
				-70%	
	Movie				
	Photo				
	Eco				
	M-book				
	User	Applies a co defined by u	ombination of picture settings users.		
Senseye Demo	Displays the pr from <b>Picture N</b> windows; the I mode, while th specified mode	<b>lode</b> . The so eft window o he right windo	•ON •OFF		
Dynamic Contrast			to automatically detect the distribution of an nal, and then to create the optimal contrast.		
Overscan	annoying edge	s the input image. Use this feature to hide noise if present around your image. ly when the input source is HDMI, DP, or D-Sub (VGA		•ON •OFF	

ltem		Range	
Display Mode	This feature is to be displayed		
	The options under <b>Display Mode</b> will be different depending on the input signal sources.		
		on your selection of <b>Picture Mode</b> , different <b>Display Mode</b> e-set. Change the setting if needed.	
	FullScales 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.			
<b>1:1</b> Displays the input image in its native resolution without scaling.			
	<b>19s</b> "Displays the input image as if on a 19" monitor of 5:4 aspect ratio.		
	22" (16:10)	Displays the input image as if on a 22"W monitor of 16:10 aspect ratio.	
	23"	Displays the input image as if on a 23"W monitor of 16:9 aspect ratio.	
	24"	Displays the input image as if on a 24"W monitor of 16:9 aspect ratio.	
	24" (16:10)	Displays the input image as if on a 24"W monitor of 16:10 aspect ratio.	
	27"	Displays the input image as if on a 27"W monitor of 16:9 aspect ratio.	
	27" (16:10)	Displays the input image as if on a 27"W monitor of 16:10 aspect ratio.	
	30"	Displays the input image as if on a 30"W monitor of 16:9 aspect ratio.	
Smart Scaling	Adjusts the dis	splay size to best suit your needs.	0~100

ltem		Function	Range	
Color Format	Determines the color space ( <b>RGB</b> or <b>YUV</b> ) based on the detected video signal.			
	You might n the monitor			
	other word	If the input source is HDMI or DP, color format is not selectable. In other words, <b>Color Format</b> is automatically set depending on the input video source.		
	RGB	<ul><li>For D-Sub (VGA) input source from PC.</li><li>For DVI input source.</li></ul>		
	YUV	For D-Sub (Component converted from VGA) input source from a video device.		
HDMI RGB PC Range	matches the RGB range setting on the connected HDMI device.		• RGB (0 ~ 255) • RGB (16 ~ 235)	

#### Audio menu



- I. Select 🔲 (Menu) from the hot key menu.
- 2. Use  $\land$  or  $\lor$  to select Audio.
- 3. Select > to go to a sub menu, and then use  $\land$  or  $\lor$  to select a menu item.
- 4. Use  $\land$  or  $\lor$  to make adjustments, or use  $\checkmark$  to make selection.
- 5. To return to the previous menu, select < .
- 6. To exit the menu, select X.

ltem	Function	Range
Volume	Adjusts the audio volume.	0~100
Mute	Mutes the audio input.	• 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.	PC Audio     Auto Detect

### System menu

Mode: Standard			
<ul> <li>→ Display</li> <li>Picture</li> <li>Picture Advanced</li> <li>Audio</li> <li>System</li> <li>Ergonomics</li> <li>Eco</li> </ul>	OSD Settings Custom Key I Custom Key 2 Custom Key 3 DDC/CI DP Auto Switch HDMI Auto Switch Auto Power Off	Language ✓ Display Time OSD Lock	5 sec. 50 10 sec. ✓ 15 sec. ✓ 20 sec. 25 sec. 30 sec.
	~		



- I. Select 🔲 (Menu) from the hot key menu.
- 2. Use  $\land$  or  $\lor$  to select **System**.
- 3. Select > to go to a sub menu, and then use  $\land$  or  $\lor$  to select a menu item.
- 4. Use  $\land$  or  $\lor$  to make adjustments, or use  $\checkmark$  to make selection.
- 5. To return to the previous menu, select < .
- 6. To exit the menu, select X.

ltem	Function		Range
OSD Settings	Language	Sets the OSD menu language.	<ul> <li>English</li> <li>Français</li> <li>Deutsch</li> <li>Italiano</li> <li>Español</li> <li>Polski</li> <li>Česky</li> <li>Magyar</li> <li>SiCG/BiH/CRO</li> <li>Română</li> <li>Nederlands</li> <li>Русский</li> <li>Svenska</li> <li>Português</li> <li>日本語</li> </ul>
	Display Time	Adjusts the display time of the OSD menu.	•繁體中文 •简体中文 •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.	•YES •NO

ltem	Function	Range
Custom Key 1	Sets the function to be accessed by custom key 1.	Picture Mode     CAD / CAM
Custom Key 2	Sets the function to be accessed by custom key 2.	Animation     Low Blue Light
Custom Key 3	Sets the function to be accessed by custom key 3.	<ul> <li>Display Mode</li> <li>Brightness</li> <li>Contrast</li> <li>Auto Adjustment</li> <li>Volume</li> <li>Mute</li> <li>Input</li> <li>Eye Protect</li> <li>Eye Protect Meter</li> <li>ECO Sensor</li> <li>ECO Sensor Meter</li> <li>Smart Reminder</li> </ul>
DDC/CI	Allows the monitor settings to be set through the software on the PC. DDC/Cl, short for Display Data Channel/Command Interface, which was developed by Video Electronics Standards Association (VESA). DDC/Cl capability allows monitor controls to be sent via the software for remote diagnostics.	•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.	•ON •OFF
HDMI Auto Switch	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.	•ON •OFF
Auto Power Off	Sets the time to power off the monitor automatically in power saving mode.	• 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.	•ON •OFF

ltem	Function	Range
Information	Displays the current monitor property settings.	<ul> <li>Input</li> <li>Current Resolution</li> <li>Optimum Resolution (best with the monitor)</li> <li>Model Name</li> </ul>
DisplayPort	Selects an appropriate DP standard for data transmission.	•1.2 •1.1
Controller Key 1	Sets the feature or setup menu to be accessed by Controller Key I.	•sRGB •CAD/CAM
Controller Key 2	Sets the feature or setup menu to be accessed by Controller Key 2.	<ul><li>Animation</li><li>Presentation</li></ul>
Controller Key 3	Sets the feature or setup menu to be accessed by Controller Key 3.	<ul> <li>Standard</li> <li>Low Blue Light</li> <li>Movie</li> <li>Photo</li> <li>Eco</li> <li>M-book</li> <li>User</li> <li>Brightness</li> <li>Volume</li> <li>Input</li> </ul>
Reset All	Resets all mode, color and geometry settings to the factory default values.	•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.

Mode: Standard			
→☆← Display	Eye Protect	<u>ON</u> 🗸	
Picture	Eye Protect meter	OFF	
Picture Advanced	Smart Reminder		_
<b>เปฺ)</b> Audio	Time Interval (min.)		
<b>少</b> System	Duration (sec.)		
Ergonomics			_
🖉 Eco			
			-

 $\wedge$ 

>

 $\vee$  |

- I. Select 🔲 (Menu) from the hot key menu.
- 2. Use  $\land$  or  $\lor$  to select **Ergonomics**.
- 3. Select > to go to a sub menu, and then use  $\land$  or  $\lor$  to select a menu item.
- 4. Use  $\land$  or  $\lor$  to make adjustments, or use  $\checkmark$  to make selection.
- 5. To return to the previous menu, select < .
- 6. To exit the menu, select imes .

ltem	Function	Range
Eye Protect	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.	•ON •OFF
Eye Protect Meter	Sets to display the light condition around the monitor on the screen.	•ON •OFF

ltem	Function	Range
Smart Reminder	Decides to display the pop-up message that reminds you to rest your eyes.	•ON •OFF
Time interval (min.)	Sets the interval of the reminder message.	• 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.	• 5 • 10 • 15 • 20 • 25

#### Eco menu

Mode: Standard	Mode: Standard		
→☆← Display	ECO Sensor	ON 🗸	
Picture	ECO Sensor Meter	OFF	
Picture Advanced	Sensor Range		
<b>¤(Ĵ))</b> Audio			
<b>万</b> System			
Ergonomics	,		
🖉 Eco			



- I. Select 🔲 (Menu) from the hot key menu.
- 2. Use  $\land$  or  $\lor$  to select **Eco**.
- 3. Select > to go to a sub menu, and then use  $\land$  or  $\lor$  to select a menu item.
- 4. Use  $\land$  or  $\lor$  to make adjustments, or use  $\checkmark$  to make selection.
- 5. To return to the previous menu, select < .
- 6. To exit the menu, select X.

ltem	Function	Range
ECO Sensor	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.	•ON •OFF
	<ul> <li>If the monitor is turned off by the ECO sensor, the power button flashes in green.</li> <li>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.</li> </ul>	

ltem	Function	Range
ECO Sensor Meter	Sets to display the countdown to turn off the monitor.	•ON •OFF
Sensor Range	Decides how far the sensor can detect.	• Near • Middle • Far

# Troubleshooting

## Frequently asked questions (FAQ)

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.

How do you use a VGA extension cable?

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.

- $\bigcirc$ 
  - No image can be seen.

Is the prompt on the display illuminated in green?

If the LED is illuminated in green 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"**.

- Paint 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.
- Is the prompt on the display illuminated in orange?

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.

- Is the prompt on the display not illuminated at all?
- Check the power supply mains socket, the external power supply and the mains switch.
- 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.
- 2) 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.
  - 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.

- 2 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:

- If you have removed the sensor protection sticker.
- If the Eye Protect function is set to ON. Check Ergonomics > Eye Protect.
- 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.
  - If you have removed the sensor protection sticker.
  - The colors and the materials of your clothes may affect the detection. Adjust the sensor range if needed. See Sensor Range on page 51 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 e-mail us at: Support@BenQ.com.