



XL ULTIMATE ESPORTS GAMING MONITOR

Gaming is in the Details

XL Series
User Manual

Copyright

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

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, 0.75mm² 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.




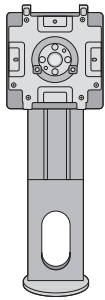

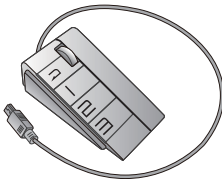
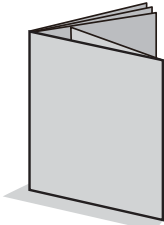

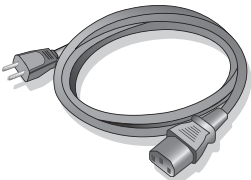
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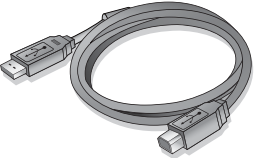
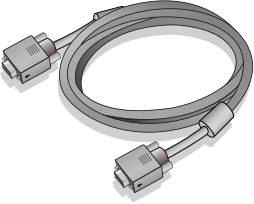
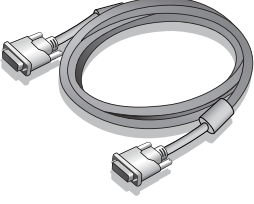
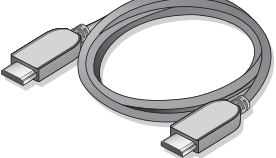
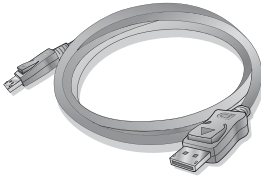
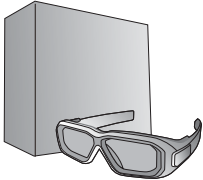


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Getting started

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	
S Switch (Swift Switch)	
Quick Start Guide	
CD-ROM	
Power Cord (Picture may differ from product supplied for your region.)	

USB Cable	
Video Cable: D-Sub (Optional accessory for models with D-Sub inputs, sold separately)	
Video Cable: DVI-D Dual Link	
Video Cable: HDMI (Optional accessory, sold separately)	
Video Cable: DP (XL2420G / XL2420GE only)	
NVIDIA 3D Vision Kit (XL2420TX only)	
Protective cover	
Headphone hook (Pre-installed, can be removed)	



• 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.

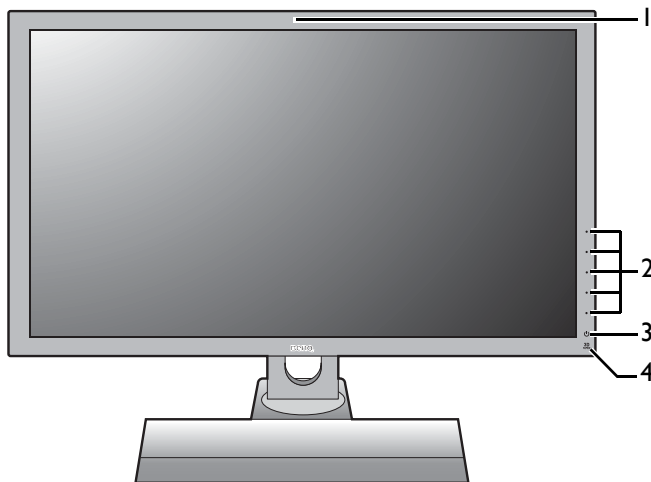
• Consider keeping the box and packaging in storage for use in the future when you may need to transport the monitor. The fitted foam packing is ideal for protecting the monitor during transport.



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

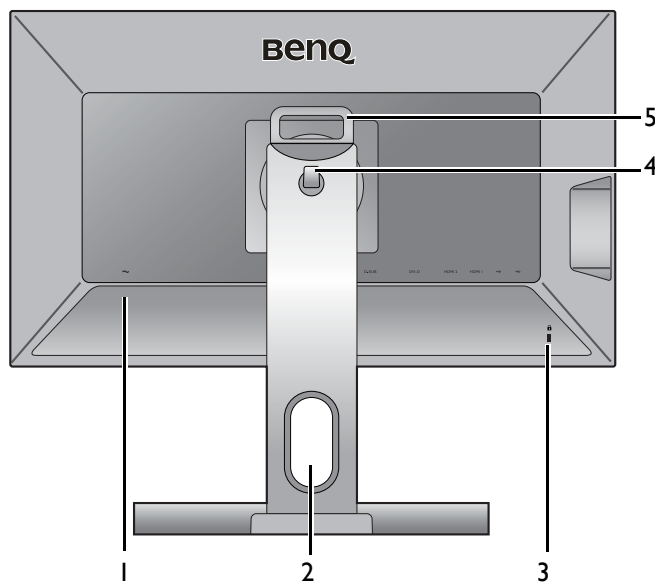
Getting to know your monitor

Front view

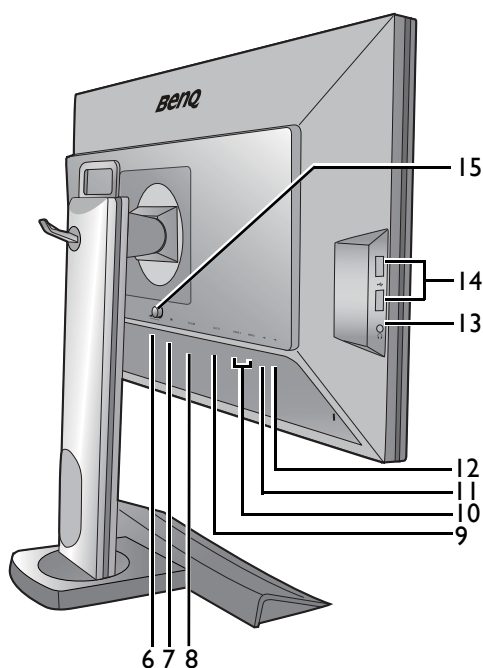


1. Infrared (IR) sensor (XL2420TX only)
2. Control buttons
3. Power button
4. Infrared (IR) emitter indicator

Back view

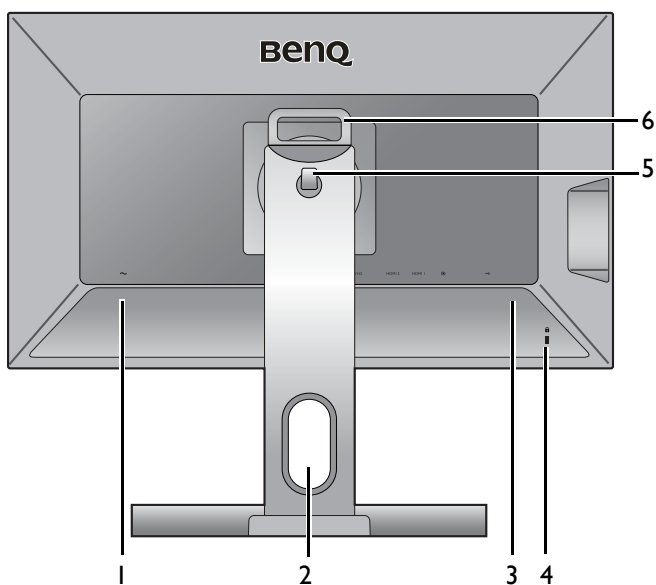


1. AC Power Input jack
2. Cable management hole
3. Kensington lock slot
4. Headphone hook
5. Handle

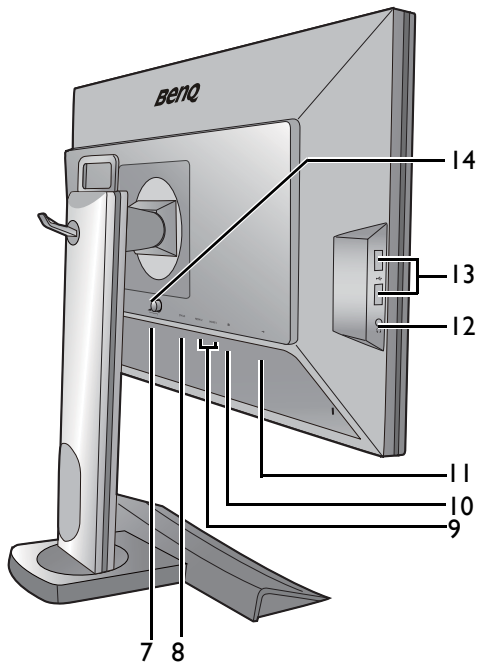


6. S Switch socket
7. DisplayPort socket
8. D-Sub socket
9. DVI-D socket
10. HDMI socket x 2
11. USB port (upstream; connecting to the PC)
12. USB port (downstream; connecting to USB devices)
13. Headphone jack
14. USB port x 2 (downstream; connecting to USB devices)
15. VESA mount release button

Back view (for models with G-SYNC module)



1. AC Power Input jack
2. Cable management hole
3. Service port (Service only. Do not remove the seal or the warranty is void.)
4. Kensington lock slot
5. Headphone hook
6. Handle



- 7. S Switch socket
- 8. DVI-D socket
- 9. HDMI socket x 2
- 10. DisplayPort socket
- 11. USB port (upstream; connecting to the PC)
- 12. Headphone jack
- 13. USB port x 2 (downstream; connecting to USB devices)
- 14. VESA mount release button

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.

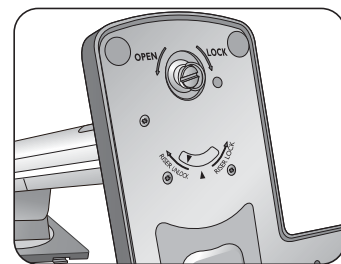
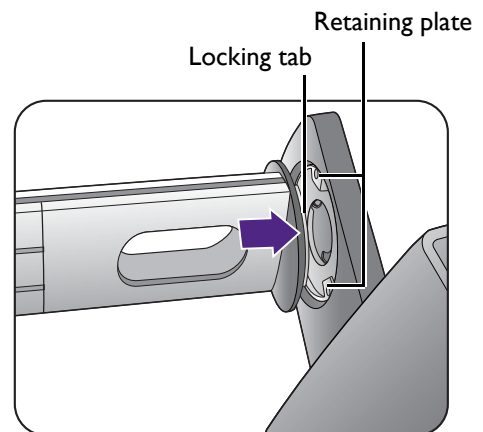
Protect the monitor and screen by clearing a flat open area on your desk and placing a soft item like the monitor packaging bag on the desk for padding.

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

(For XL2420)

Orient and align the stand base socket with the end of the stand arm. Make sure that the locking tabs at the end of the stand bypass the retaining plates on the stand, then push the stand and the base together. If the base is properly attached, the arrow at the end of the stand should point to **RISER UNLOCK**.

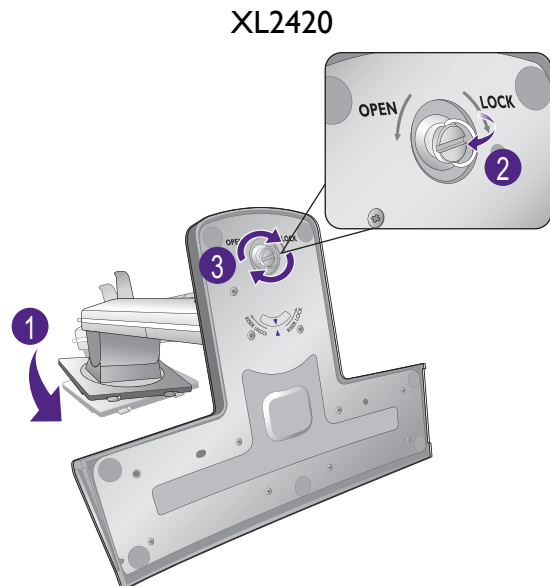
XL2420



(For XL2420)

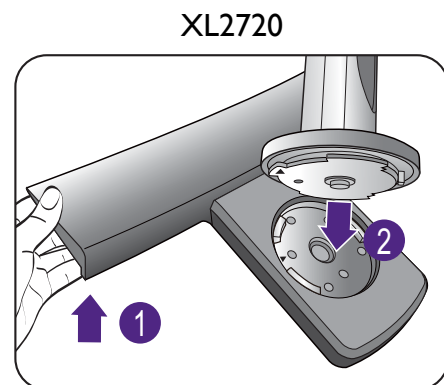
Turn the stand counterclockwise to align the arrow at the end of the stand with the one on the monitor base (1). Raise the thumbscrew lid (2) and tighten the thumbscrew as illustrated (3). Then push the lid back.

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

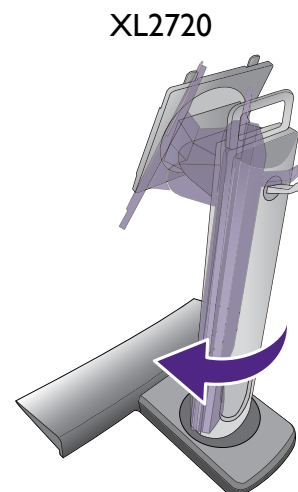


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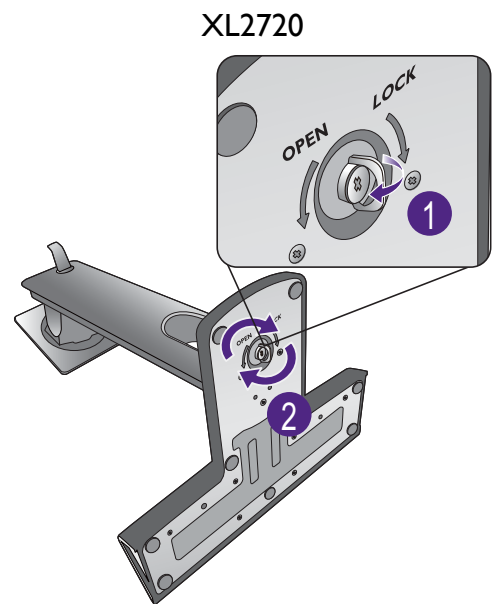
Lift up one end of the stand slightly to ensure a successful installation (1). Attach the monitor stand to the monitor base as illustrated (2). Make sure to align the arrow on the end of the stand to the one on the monitor base.



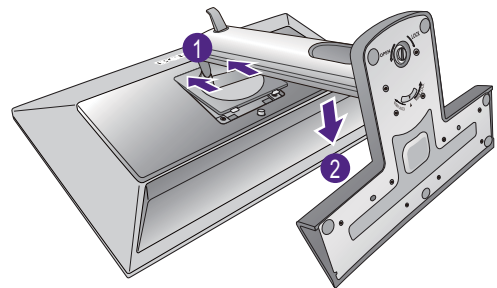
Turn the stand clockwise until you cannot go further.



Raise the thumbscrew lid (1) and tighten the thumbscrew as illustrated (2). Then push the lid back.



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

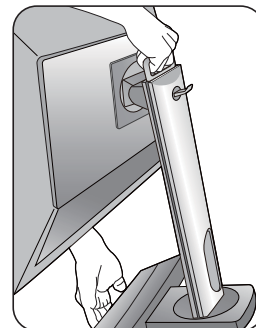


Gently attempt to pull them back apart to check that they have properly engaged.

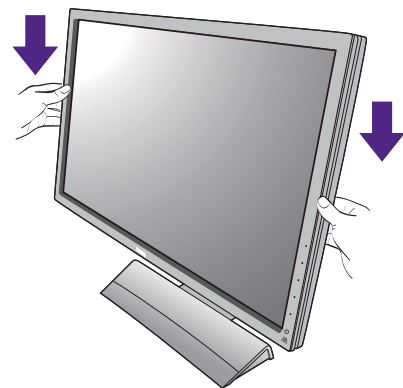
Carefully lift the monitor, turn it over and place it upright on its stand on a flat even surface.



To move the monitor, you must hold the handle and the bottom of the stand base at the same time as illustrated. You can protect the monitor using the supplied protective cover.

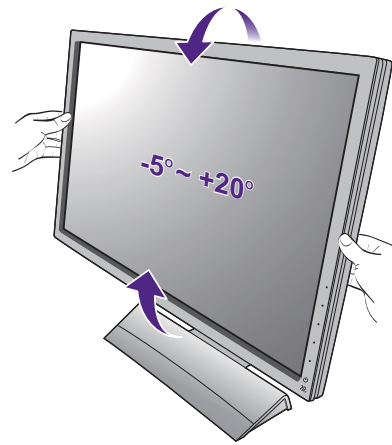


You might want to adjust the monitor stand height. See [Adjusting the monitor height on page 21](#) for more information.




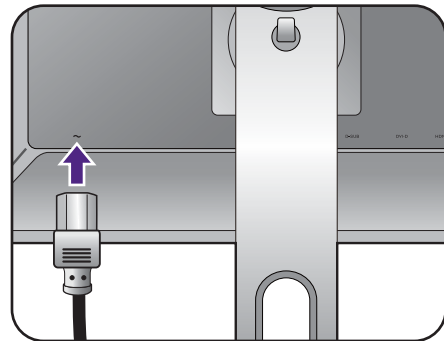


You should position the monitor and angle the screen to minimize unwanted reflections from other light sources.



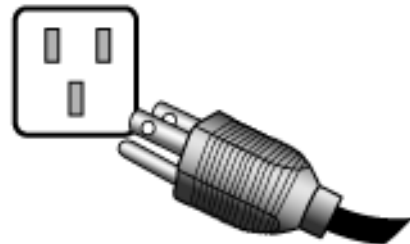
2. Connect the power cable to the monitor.

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.



3. Connect to 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.

4. Connect the PC video cable

Available input and output jacks may vary depending on the purchased model. For models with G-SYNC module, refer to [Modes and the required input source on page 41](#) for the available input source and the related menus.



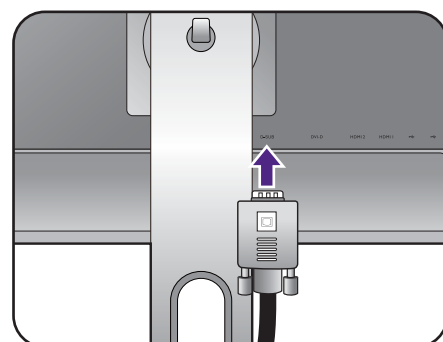
Do not use both DVI-D cable and D-Sub cable on the same PC. The only case in which both cables can be used is if they are connected to two different PCs with appropriate video systems.

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.

Either

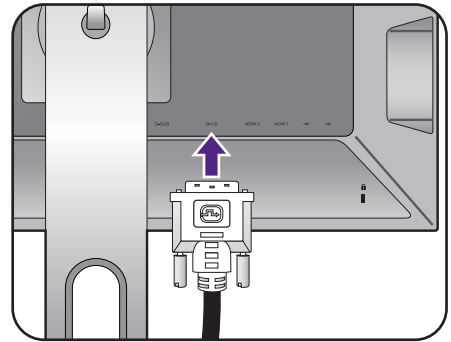


To Connect the DVI-D Dual Link Cable

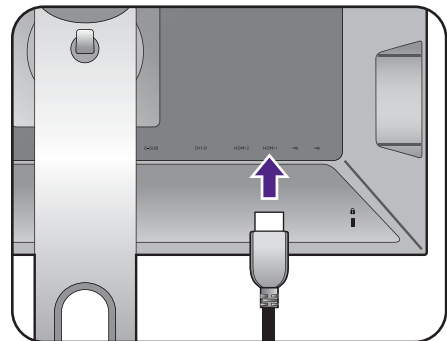
Connect the plug of the DVI-D Dual Link cable to the monitor video socket. Connect the other end of the cable (at the end with the ferrite filter) to the computer video socket.

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

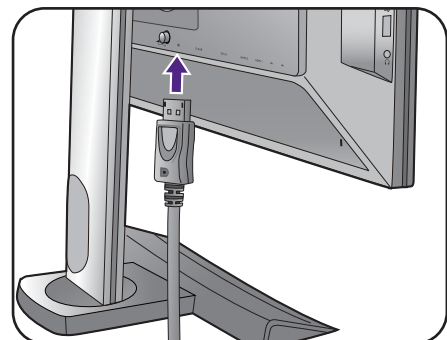
Or



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.



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.

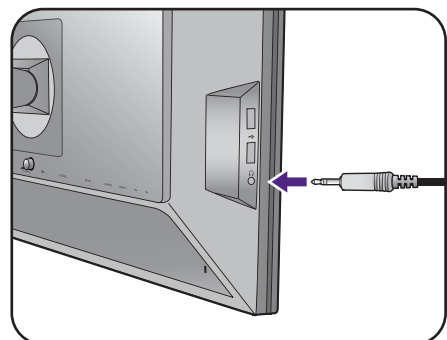
- Better quality: HDMI / DVI-D / DP
- Good quality: D-Sub



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

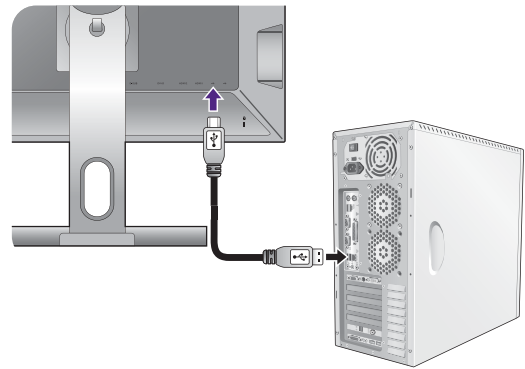
5. Connect the headphones.

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



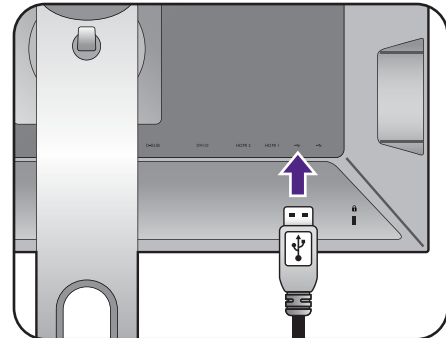
6. Connect USB devices.

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.

See picture on the right.

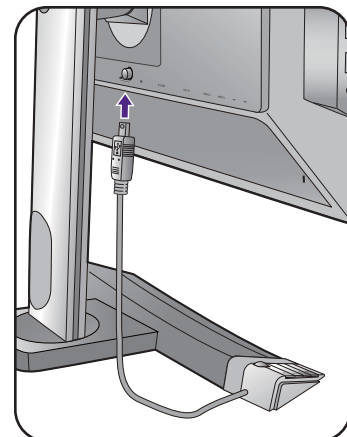


7. Connect the S Switch to the monitor.

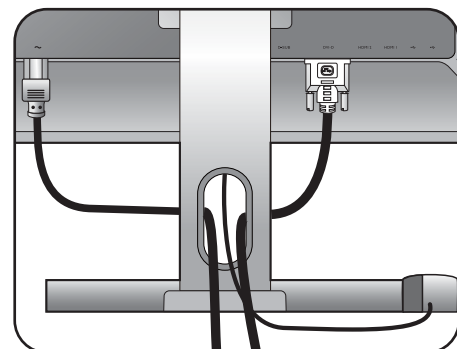
Connect the S Switch to the S Switch socket found on the back of the monitor. And place the S Switch next to your monitor base.



You can place the S Switch either on the left or on the right of the monitor base.



8. Organize the cables.



9. Turn on the power.

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

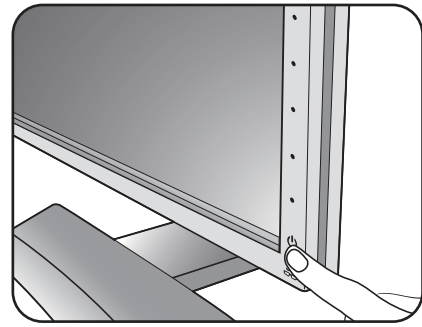
Turn on the computer too, and follow the instructions in [Getting the most from your BenQ monitor on page 25](#) to install the monitor software.



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



When the monitor is powered on, to prevent overheating, do not cover the monitor with the supplied protective cover or obstruct the ventilation holes.

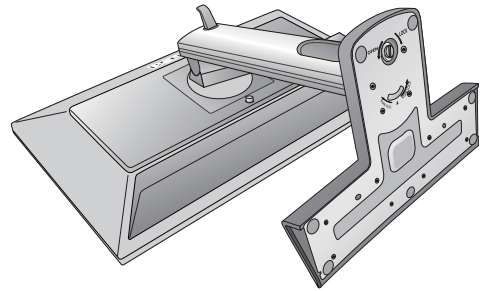


How to detach the stand and the base

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.

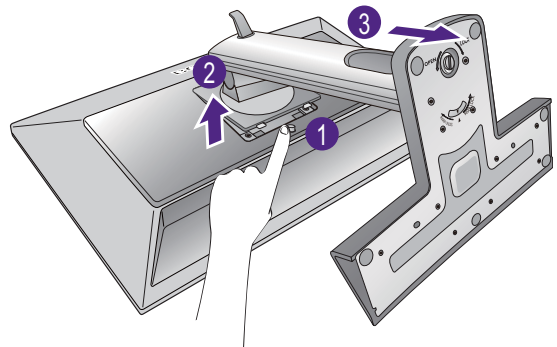
Protect the monitor and screen by clearing a flat open area on your desk and placing a soft item like a towel on the desk for padding, before laying the screen face down on a flat clean padded surface.



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.

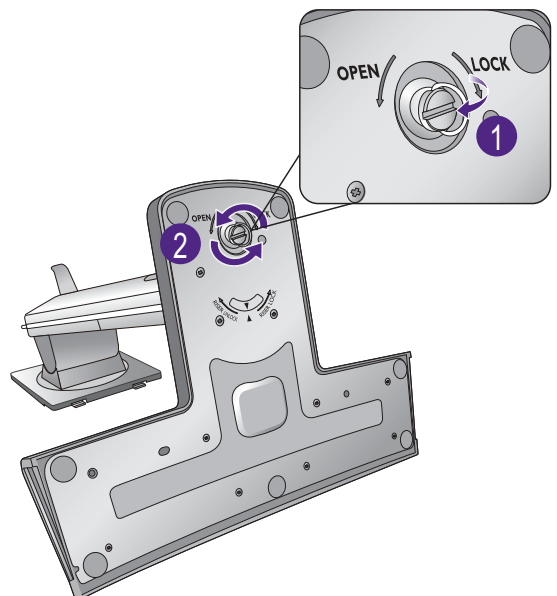
2. Remove the monitor stand.

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

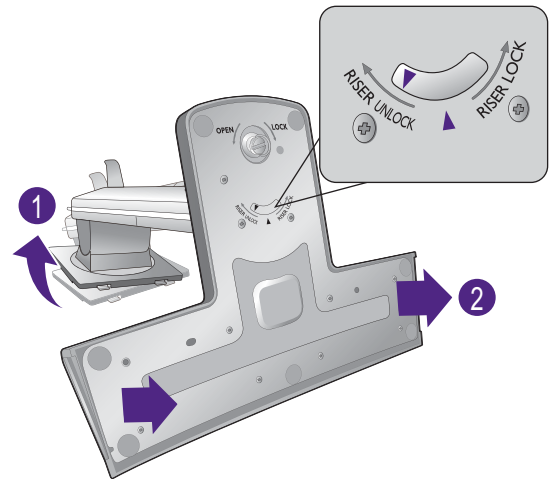


3. Remove the monitor base.

Align the arrow on the bottom of the stand with the one on the monitor stand. Raise the thumbscrew lid (1) and release the thumbscrew as illustrated (2).



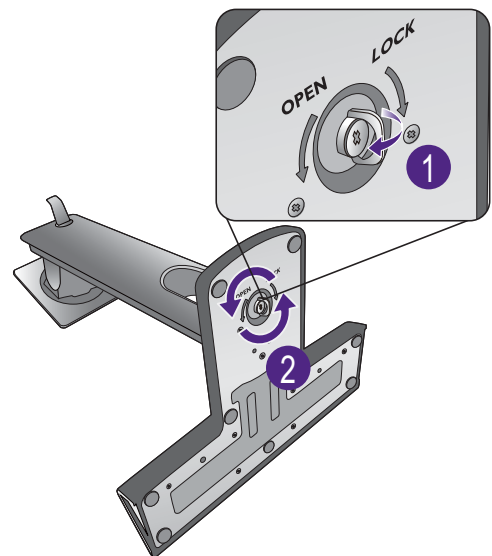
Turn the stand clockwise so that the arrow on the bottom of the stand points to **RISER UNLOCK** (1). And then detach the base from the stand (2).



(For XL2720)

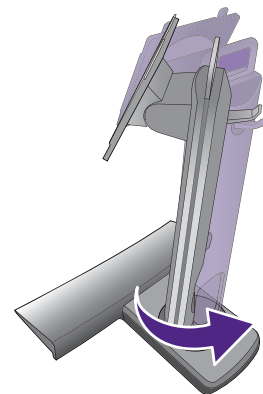
Raise the thumbscrew lid (1) and release the thumbscrew as illustrated (2).

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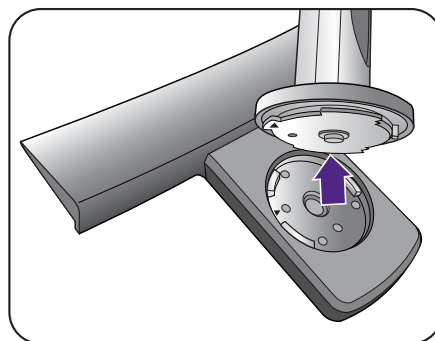
Turn the stand counterclockwise until you cannot go further.

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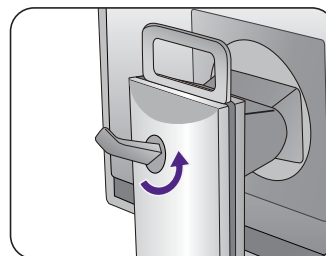


And then detach the base from the stand.

XL2720

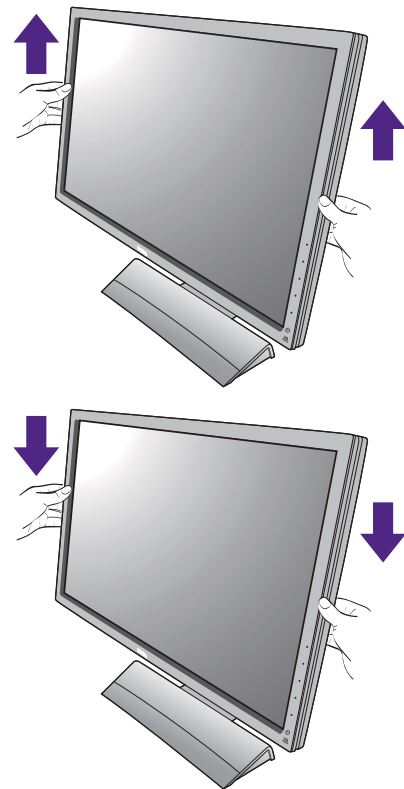


You can remove the headphone hook as illustrated. Keep the headphone hook somewhere safe.

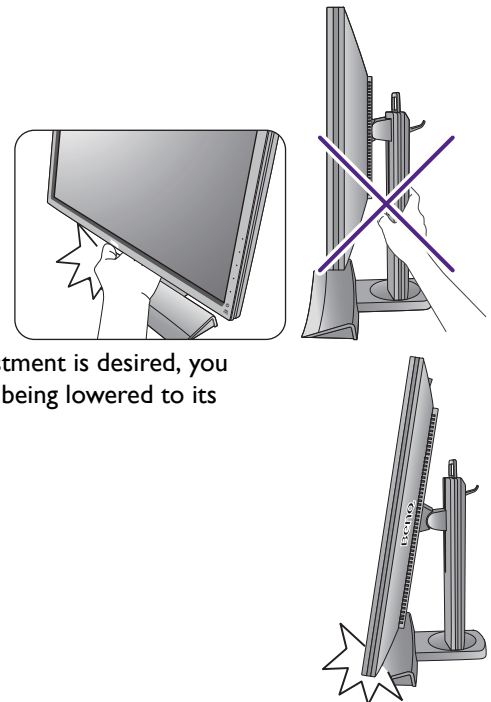


Adjusting the monitor height

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.

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



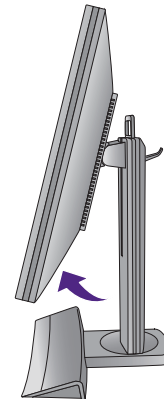
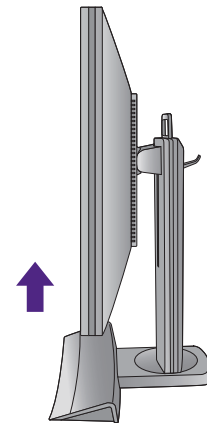
Depending on the operating system on your PC, different procedures should be followed to adjust the screen orientation. Refer to the help document of your operating system for details.

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.

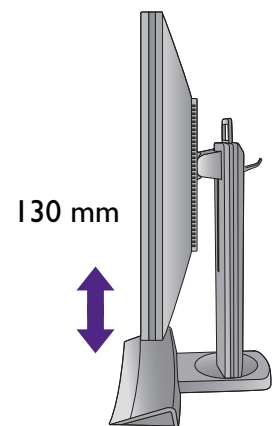
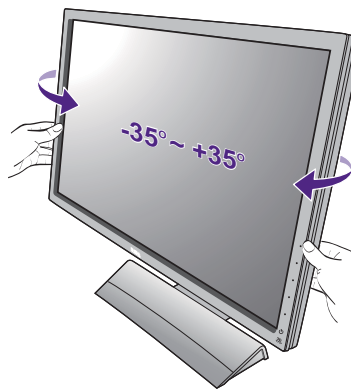
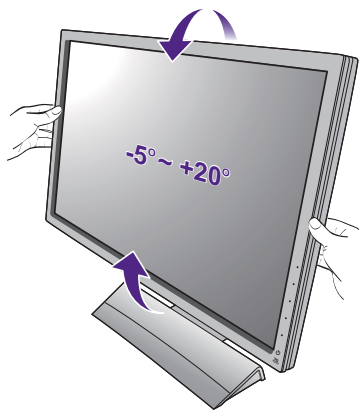


4. Adjust the monitor to the desired viewing angle.



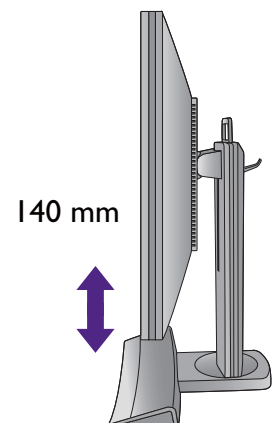
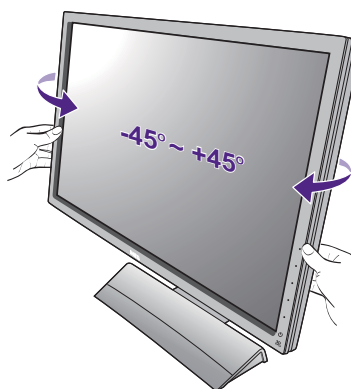
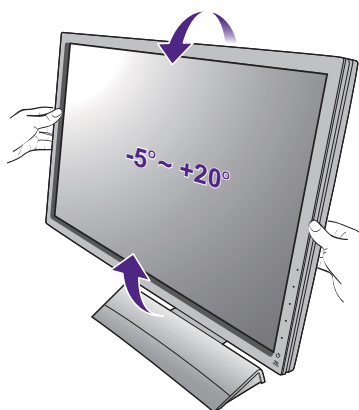
Viewing angle adjustment

You may position the screen to the desired angle with -5° to $+20^{\circ}$ monitor tilt, 70° (left and right total) monitor swivel, and 130 mm monitor height.



(For XL2720) You may position the screen to the desired angle with -5° to $+20^{\circ}$ monitor tilt, 90° (left and right total) monitor swivel, and 140 mm monitor height.

XL2720



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.



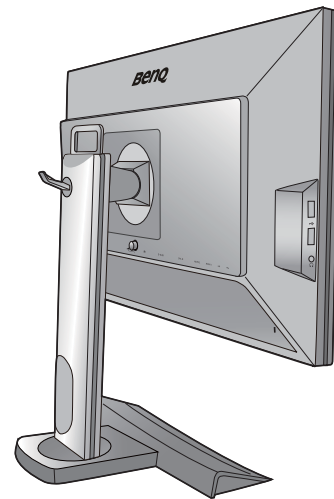
The maximum dimensions of the VESA mounting bracket compatible with your monitor are 125mm x 125mm.

Precautions

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

1. Remove the monitor stand.

Detach the monitor stand as instructed in step 1~2 in [How to detach the stand and the base on page 18](#).

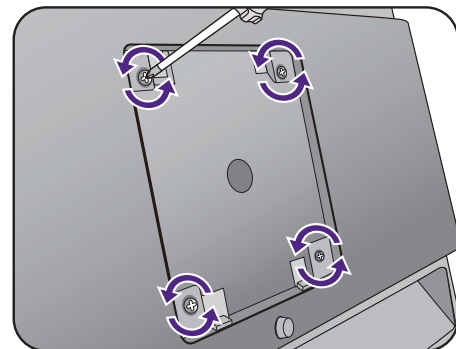


2. Remove the screws on the back cover.

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 color LCD flat screen 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 26.](#)
- [How to upgrade the monitor on an existing computer on page 27.](#)



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

How to install the monitor on a new computer

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



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

1. Follow the instructions in [How to assemble your monitor hardware on page 11](#).
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
XL2420t	XL2420T
XL2420te	XL2420TE
XL2420Z	XL2420Z / XL2420ZE
XL2420TX	XL2420TX
XL2420G	XL2420G / XL2420GE
XL2720T	XL2720T
XL2720Z	XL2720Z / XL2720ZE

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

See:

- [How to install on Windows 10 system \(selected models only\) on page 28.](#)
- [How to install on Windows 8 \(8.1\) system \(selected models only\) on page 29.](#)
- [How to install on Windows 7 system on page 30.](#)

How to install on Windows 10 system (selected models only)

1. Open **Display Properties**.

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

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

3. Click the **Hardware** tab.

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

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

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

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

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



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

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

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

10. Click **Close**.

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

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

1. Open **Display Properties**.

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

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

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

3. Click the **Hardware** tab.

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

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

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

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

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



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

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

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

10. Click **Close**.

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

How to install on Windows 7 system

1. Open **Display Properties**.

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

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

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

3. Click the **Hardware** tab.

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

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

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

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

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



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

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 watch 3D content on your monitor

Your monitor supports playing three-dimensional (3D) content transferred through DVI-D Dual Link or DP cable, depending on the purchased model. Yet you need to have the appropriate hardware equipment and software programs that are compatible with 3D playback.



3D content can be transferred to XL2420TX through HDMI cable (version 1.3 or above) as well.



- Not all menu options are available for 3D playback.
 - For models with G-SYNC module, 3D playback is available in **G-SYNC** mode only.
-

System requirements

- BenQ LCD Monitor (XL20 series)
- Compatible 3D glasses
- PC with Microsoft Windows 7 or Windows 8 (8.1) Operating System
- Compatible graphics processing units (GPU) with the latest driver files installed
- Compatible software programs that play 3D playback

For the compatible accessories, visit

<http://www.nvidia.com/object/3d-vision-requirements.html>. For the appropriate 3D players, check with the 3D content providers.



- Contact NVIDIA or visit NVIDIA website (<http://www.nvidia.com/page/home.html>) for the purchase and the settings of the compatible GPU.
 - Visit the NVIDIA website (www.nvidia.com/3DUpdate) for the latest GPU driver files.
-

Playing 3D content

Follow the instruction manuals of your 3D accessories to install the hardware and the software. If the 3D glasses are properly connected and IR signal is detected, the IR emitter indicator on the bottom right of the monitor and on the IR emitter module (purchased separately for XL2420T / XL2420TE / XL2720) will light up.

To improve the performance of 3D glasses, you can do the following:

- On XL2420TX, check if there are any obstacles in front of the IR sensor located at the front top of the monitor that keep the sensor from receiving signals from the 3D glasses. Go to **System** and **Emitter Mode** and change the setting as needed. See [Emitter Mode \(XL2420TX only\) on page 58](#) for more information.
- Follow the instruction manuals of the 3D accessories to make adjustment.

If you want to adjust the brightness when watching 3D content, go to **Picture** and **NVIDIA® 3D LightBoost™**. See [Brightness \(during 2D playback\) / NVIDIA® 3D LightBoost™ \(during 3D playback\) on page 47](#) for more information.

For models with G-SYNC module, adjust the brightness during 3D playback under **G-SYNC** mode > **Picture** > **NVIDIA® 3D LightBoost™**. See [Switching between Classic and G-SYNC modes \(for models with G-SYNC module only\)](#) on page 41 for details on mode switch.



IR sensor is embedded in the front bezel of your XL2420TX and is not visible to you.

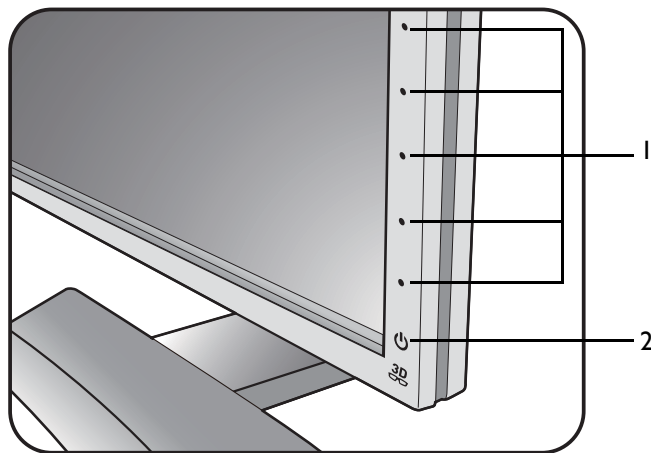
Safety information for watching 3D content

- You may experience eye strain after watching 3D content for certain period of time. Take off the 3D glasses and take a rest to relieve the eye strain.
- If you experience headaches, dizziness, or nausea, stop watching 3D content immediately. You might need to consult a doctor if the symptoms last.
- Watching 3D content for a long period of time may increase health risks. For small children, the elderly, the pregnant women or people who have high blood pressure or other health concerns, consult a doctor before watching 3D content.

How to adjust your monitor

The control panel

All OSD (On Screen Display) menus can be accessed by the control keys.



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.



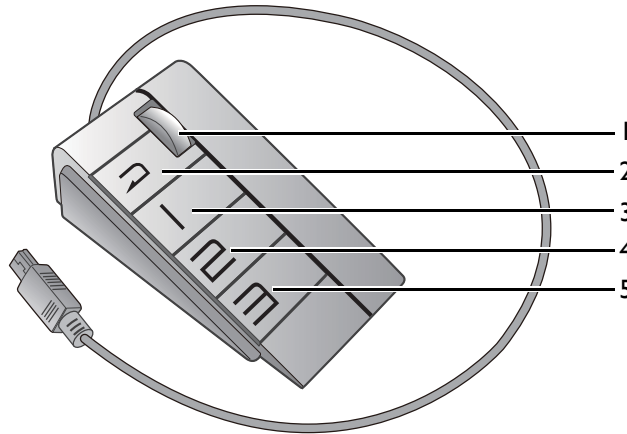
The control keys are embedded in a touchpad and are indicated by LED indicators. Touch of an LED indicator represents pressing the corresponding control key.

The S Switch

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



- You need to connect the S Switch to your monitor prior to use. Follow the instructions in [Connect the S Switch to the monitor. on page 16.](#)
- For models with G-SYNC module, S Switch works in **Classic** mode only.



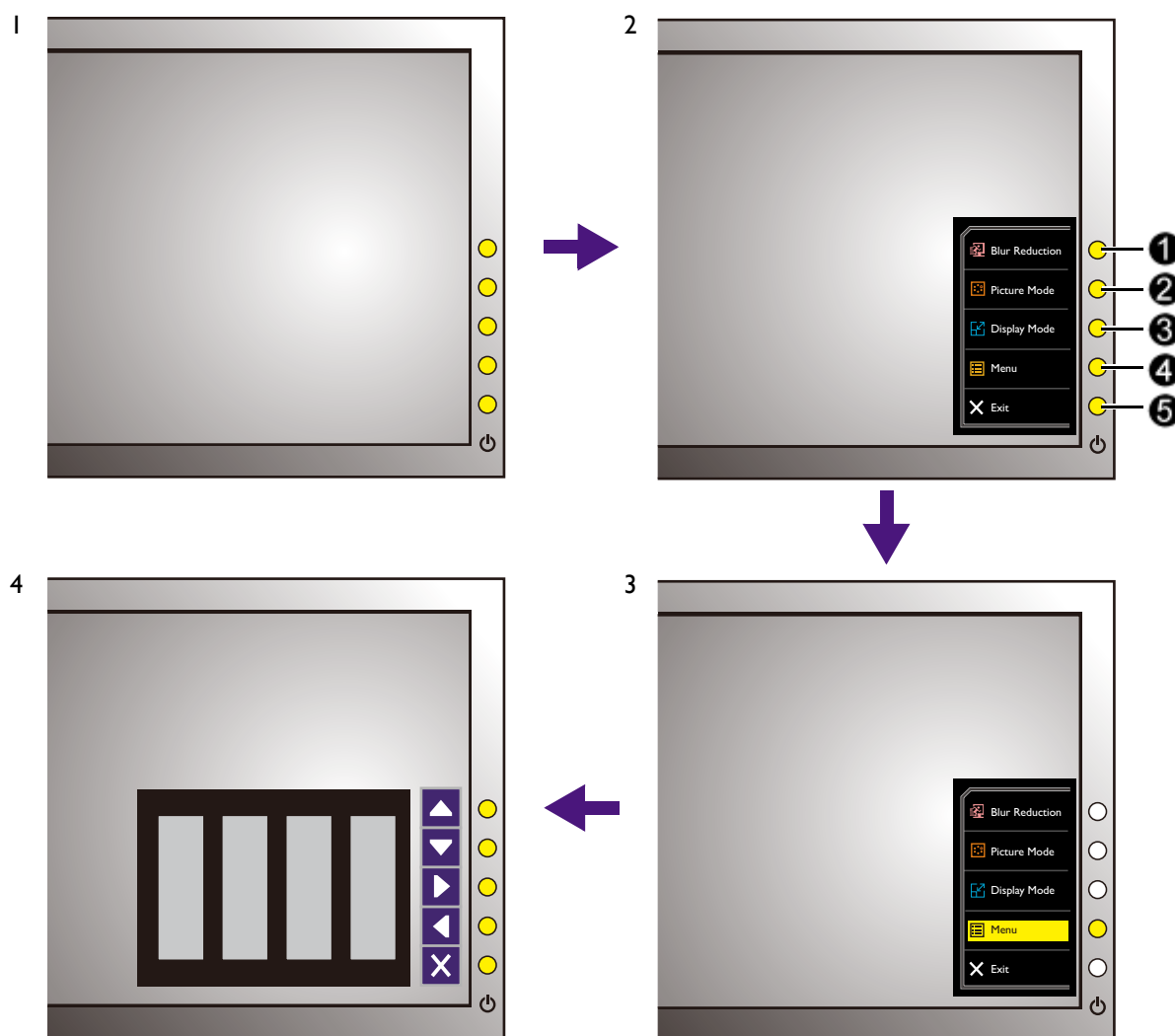
No.	Name	Function
1.	Wheel	<ul style="list-style-type: none">• For Increase/Decrease adjustment.• Scrolls Up/Down in a menu.• Selects menu item by pressing once.
2.	Return button	Returns to the previous menu.
3.	Gamer 1 button	<ul style="list-style-type: none">• Press to switch to Gamer 1 (Picture Mode).• Press and hold for 5 seconds to save the customized display settings for Gamer 1.
4.	Gamer 2 button	<ul style="list-style-type: none">• Press to switch to Gamer 2 (Picture Mode).• Press and hold for 5 seconds to save the customized display settings for Gamer 2.
5.	Gamer 3 button	<ul style="list-style-type: none">• Press to switch to Gamer 3 (Picture Mode).• Press and hold for 5 seconds to save the customized display settings for Gamer 3.



S Switch is designed for BenQ LCD Monitor XL20 series exclusively. Do not connect it to other devices with USB ports.






Basic menu operation

You can use the OSD menu to adjust all the settings on your monitor.



1. Press any of the control keys. Alternatively, press the wheel or the return button on the S Switch.
2. The hot key menu is displayed. The top 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 Blur Reduction (Motion Blur Reduction) or Engine Switch (for models with G-SYNC module). To change the default settings, see Customizing the hot keys on page 39. • 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 Picture Mode. To change the default settings, see Customizing the hot keys on page 39. • (When in G-SYNC mode) By default, the key is the hot key for ULMB. To change the default settings, see Customizing the hot keys on page 39. • For Down/Decrease adjustment.
③	Custom Key 3	 / 	<ul style="list-style-type: none"> • By default, the key is the hot key for Display Mode. To change the default settings, see Customizing the hot keys on page 39. • (When in G-SYNC mode) By default, the key is the hot key for Black eQualizer. To change the default settings, see Customizing the hot keys on page 39. • 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 (selected models only)

The provided **Display Pilot** software on the CD is an alternative to control the display. The main functions include:

- Control of the OSD menus.
- Access to more game modes through Game Mode Loader.

To find out more about the software, go to **System > Options > User Manual** in the **Display Pilot**.



- Supported operating systems: Windows 7, Windows 8, and Windows 8.1.
- For models with G-SYNC module, **Display Pilot** works in **Classic** mode only.

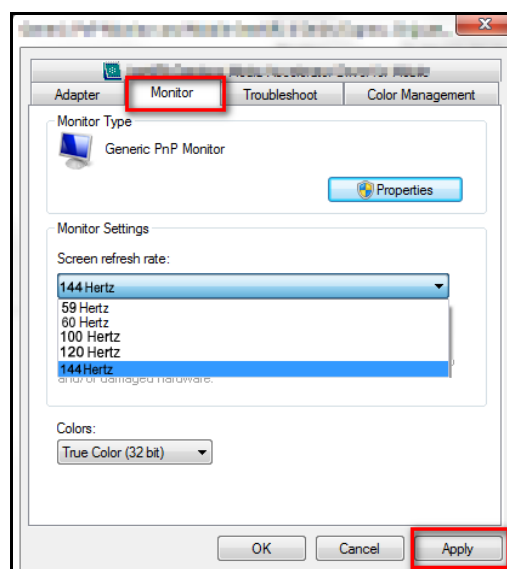
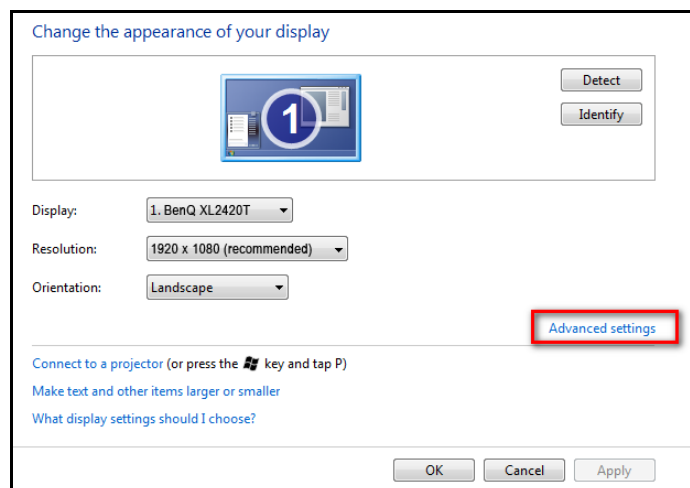
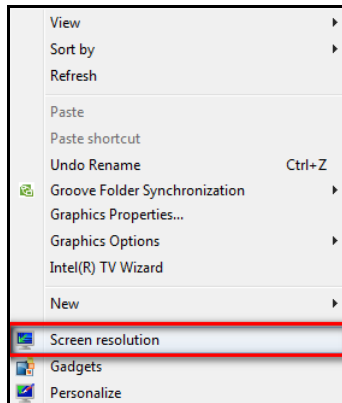
Initial setup for playing games

You can optimize the monitor to enhance your gaming experience. You might want to start with the following settings.



The highest refresh rate supported by XL2420TX/XL2720T is 120 Hz.

- I. Set the screen refresh rate to **144 Hertz** (144 Hz).
 - a. Right-click the desktop and select **Screen resolution**. Click **Advanced settings**. Under the **Monitor** tab, change the screen refresh rate to **144 Hertz**. And then click **Apply** and **Yes** to confirm the change.





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

- b. Go to the setup menu in your game, and change the frame rate or screen refresh rate to 144 Hz. Refer to the Help document that came with your game for details.

To check if the screen refresh rate has been changed, select **Menu** from the hotkey menu on your monitor, and go to **System and Information**. The refresh rate in **Current Resolution** should be 144 Hz.



If 144 Hz is not available in your menus, check the following:

- make sure the DVI-D Dual Link cable is properly connected to your computer and the monitor
- make sure your GPU supports 144 Hz
- make sure your game supports 144 Hz.

2. Select a desired display mode. See [Adjusting display mode on page 40](#).
3. Resize your display by **Smart Scaling**. See [Using Smart Scaling on page 41](#).
4. Select an appropriate game mode for your game. **FPS** is for FPS games, while **RTS** is for RTS games. For more game modes, please download by **Game Mode Loader**. See [Downloading more game modes using Game Mode Loader on page 40](#).
5. Adjust the brightness of your display. See [Brightness \(during 2D playback\) / NVIDIA® 3D LightBoost™ \(during 3D playback\) on page 47](#).
For models with G-SYNC module, adjust the brightness during 3D playback under **G-SYNC** mode > **Picture** > **NVIDIA® 3D LightBoost™**. See [Switching between Classic and G-SYNC modes \(for models with G-SYNC module only\) on page 41](#) for details on mode switch.
6. Adjust the brightness of the black shades by **Black eQualizer**. See [Black eQualizer on page 48](#).
7. Adjust the monitor height. See [Adjusting the monitor height on page 21](#).

Picture optimization



The default **Picture Mode** might be set for a specific type of game. If you prefer other picture modes, go to **Picture Advanced** and change setting in **Picture Mode**.

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 video output 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 wheel, or the return button on the S Switch to bring up the hot key menu. Select **Menu** to enter the main menu.
3. Go to **Display** and **Auto Adjustment**.
4. If you notice a vertical noise (like a curtain effect-shimmering of vertical lines), select **Pixel Clock** and adjust the monitor until the noise disappears.
5. If you notice a horizontal noise, select **Phase** and adjust the monitor until the noise disappears.

Customizing the hot keys

The top 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, or the wheel, or the return button on the S Switch to bring up the hot key menu.
2. Select **Menu** to access the main menu.
3. Go to **System**.
4. Select the custom key you want to change.
5. 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.



For models with G-SYNC module, you can also set the hot keys in **G-SYNC mode > System**. See [Switching between modes on page 41](#) and [G-SYNC mode: System menu on page 65](#) for more information.

Setting up your own game mode

There are several preset picture modes on your monitor that are suitable for games. To better suit your needs, you can change and save the related display settings, and switch to your own game mode easily.

1. Adjust the related available settings in different OSD menus.
2. After all settings are done, go to **Save Settings** and save as one of the game modes. Alternatively, press and hold one of the game mode buttons (labeled 1~3) on S Switch to save as one of the game modes.
3. If you want to switch to your game mode at any time, go to **Picture Advanced** and **Picture Mode**, and select the game mode you saved in Step 2. Your preferred display settings will be applied all at once. Alternatively, press one of the game mode buttons (depending on your settings in Step 2) on S Switch to switch to the desired game mode quickly.



BenQ offers more optimized game modes on the website. If you prefer to use these settings, refer to [Downloading more game modes using Game Mode Loader on page 40](#).

Downloading more game modes using Game Mode Loader

Instead of customizing your own display settings, you can download the game modes available on the BenQ website and apply the settings directly.

(For XL2420T / XL2720T series)

1. Link to gaming.benq.com.
2. Download and install the game mode loader.
3. Follow the on-screen instructions to complete the setup.
4. Go to **Picture Advanced** and **Picture Mode** on your monitor, and select the game mode you just downloaded to apply the settings directly.

(For XL2420Z / XL2720Z / XL2420G series)

1. Install **Display Pilot** from the provided CD.
2. Launch **Display Pilot** and select **Tools > Game Mode Loader**.
3. Click **Check Now** to check for new game modes.
4. To apply the downloaded game modes, select one from the drop-down list in **Tools**, and click **Apply**.



- Internet connection is required for this operation.
- For models with G-SYNC module, **Game Mode Loader** is available in **Classic** mode only.

Adjusting display mode

To display images of aspect ratios other than your monitor aspect ratio and sizes other than your display size, you can adjust the display mode on the monitor. For the aspect ratio and display size of your monitor, see the specifications on the CD.

1. Press any of the control keys, or the wheel, or the return button on the S Switch 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.



Switch to the desired display mode first, and follow the instructions in [Using Smart Scaling on page 41](#) to adjust the display size to precisely suit your needs.

Using Smart Scaling

You can resize your display by **Smart Scaling**.

1. 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 52](#).

Using Instant Mode

While playing games, you can diminish the input lag by activating **Instant Mode**.

1. Go to **Picture** and **Instant Mode**.
2. Select **On**.

Switching between Classic and G-SYNC modes (for models with G-SYNC module only)

If your monitor came with a G-SYNC module, you might want to switch between the **Classic** and **G-SYNC** modes to suit your needs. Note that each mode goes with its own OSD menus and is available for certain input source only.



Check if a compatible graphics processing units (GPU) with the latest driver files have been installed to your computer. Visit <http://www.geforce.com/hardware/technology/g-sync> for details.

Modes and the required input source

Refer to the following table for modes and the required input source. You are recommended to connect the DP cable only to your monitor if **G-SYNC** mode is desired to ensure all the G-SYNC functions and settings work properly.

Mode	Input source
Classic	DVI-D
	HDMI
G-SYNC	DP

Switching between modes

1. Depending on the desired mode, connect the required input source to your monitor. See [Connect the PC video cable on page 14](#) for more information.
2. Press the first control key (designated for **Engine Switch**) and select the desired mode. It takes a few seconds before the monitor is restarted and enters the selected mode.
3. For further setup, press any of the control keys to bring up the hot key menu, and select **Menu**.

4. If you are desired to switch to another mode, start with Step 2 again.



If you are prompted with the message **No Cable Connected** or **No Signal Detected**, check the following:

- if the cable connection required for the selected mode has been established properly.
- if the video source is available to your monitor.



If 2 input sources are connected to your monitor for **Classic** and **G-SYNC** modes separately, chances are that the computer compatibility may lead to video signal output error on the monitor. Try the following to solve the problem.

- Unplug and plug back the power cord of the monitor.
 - Switch between **Classic** and **G-SYNC** modes again.
-

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 wheel, or the return button on the S Switch to bring up the hot key menu. Select **Menu** to enter the main menu. See [Basic menu operation on page 35](#) 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 57](#) / [Language on page 66](#) 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 47](#)
- [Picture Advanced menu on page 50](#)
- [Save Settings menu on page 54](#)
- [Audio menu on page 55](#)
- [System menu on page 56](#)

OSD menus for models with G-SYNC module

If your monitor came with a G-SYNC module, you are provided with 2 sets of OSD menus with their own options: **Classic** and **G-SYNC**.

For more information on each menu in **Classic** mode, please refer to the following pages:

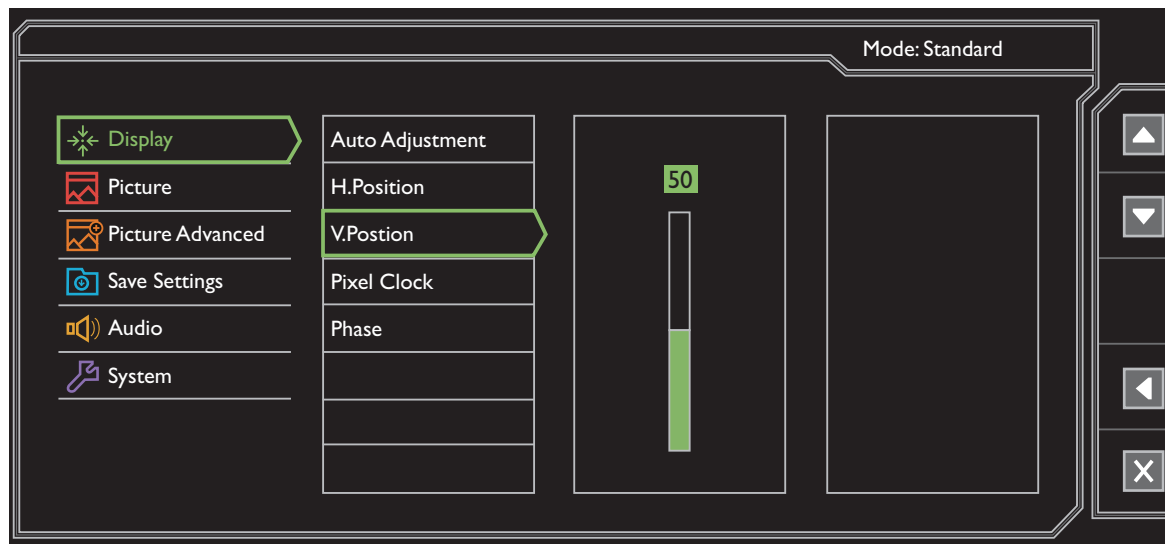
- [Engine Switch menu on page 46](#)
- [Picture menu on page 47](#)
- [Picture Advanced menu on page 50](#)
- [Save Settings menu on page 54](#)
- [Audio menu on page 55](#)
- [System menu on page 56](#)

For more information on each menu in **G-SYNC** mode, please refer to the following pages:

- [G-SYNC mode: Engine Switch menu on page 60](#)
- [G-SYNC mode: Picture menu on page 61](#)
- [G-SYNC mode: Picture Advanced menu on page 63](#)
- [G-SYNC mode: System menu on page 65](#)


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 .

Item	Function	Range
Auto Adjustment	Optimizes and adjusts the screen settings automatically for you. Not applicable to a digital input signal.	
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 39 . Not applicable to a digital input signal.	0 to 100











Item	Function	Range
Phase	<p>Adjusts the pixel clock phase timing to synchronize with the analog input video signal. See also: Picture optimization on page 39.</p> <p> Not applicable to a digital input signal.</p>	0 to 63



Engine Switch menu

(for models with G-SYNC module only)

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

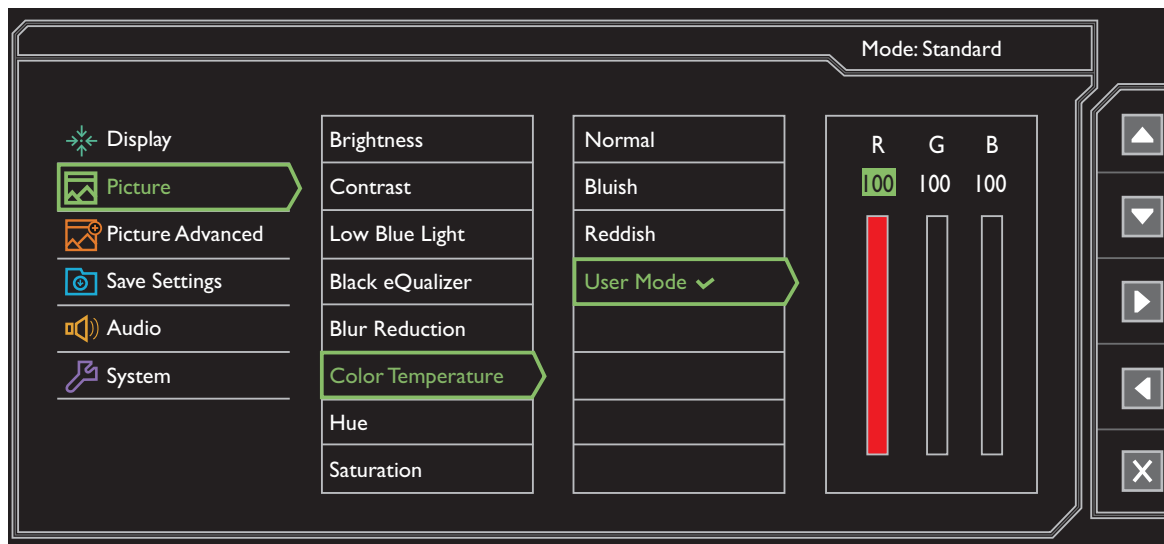


1. Select **Menu** from the hot key menu.
2. Use  or  to select **Engine Switch**.
3. Select  to go to a sub menu, and then use  or  to select a menu item.
4. Use  or  to make adjustments, or use  to make selection.
5. To return to the previous menu, select .
6. To exit the menu, select .

Item	Function	Range
G-SYNC	Switches to G-SYNC mode.  It works when video source through DP cable is connected to the monitor.	
Classic	Switches to Classic mode.  It works when video source through DVI-DL or HDMI cable is connected to the monitor.	




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 .

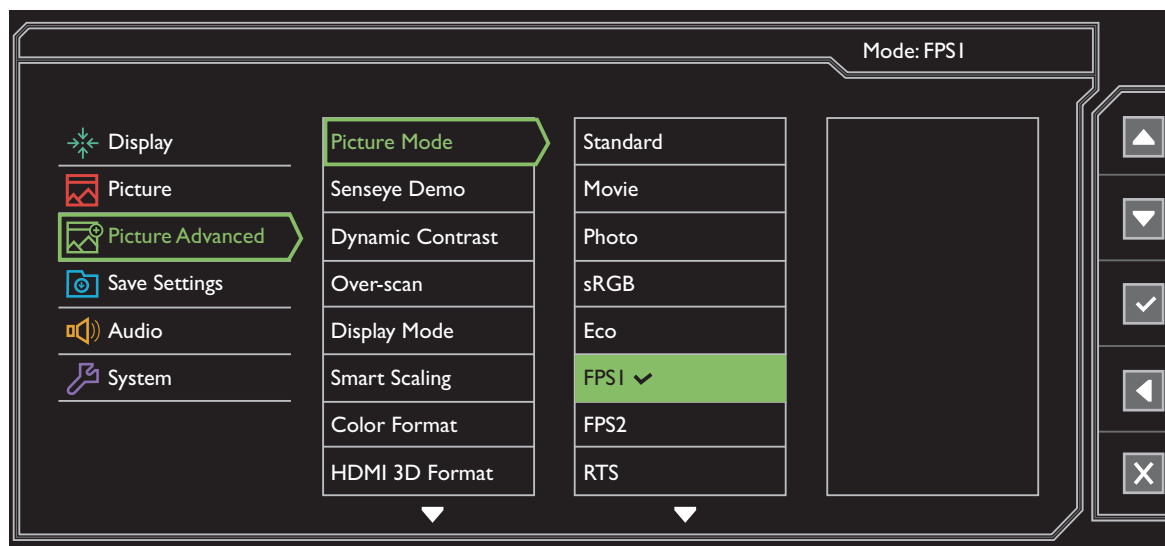
Item	Function	Range
Brightness (during 2D playback) / NVIDIA® 3D LightBoost™ (during 3D playback)	<ul style="list-style-type: none"> • Adjusts the balance between light and dark shades (during 2D playback). Or <ul style="list-style-type: none"> • Adjusts the brightness during 3D playback. 	(During 2D playback) • 0 to 100 (During 3D playback) • OFF to MAX
Contrast	Adjusts the degree of difference between darkness and lightness.	0 to 100
Low Blue Light (selected models only)	Decreases the blue light emitted from the display to reduce the risk of blue light exposure to your eyes. The higher the value is, the more blue light has been decreased.	0 ~ 10

Item	Function		Range
Black eQualizer	Brings out the dark shades by increasing the brightness without changing those of the light shades.  If the image is too bright or barely contains any dark shades, adjusting the value of Black eQualizer may not show much change to the image.		0 ~ 20
Blur Reduction (Motion Blur Reduction. Selected models only.)	Reduces motion blur in games or during video playback.  Not applicable for 3D playback.  Note the impacts of the Blur Reduction function once activated. - Brightness is decreased. - Flicker-free is disabled.		• ON • OFF
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 Mode	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. 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 the purity degree of colors.		0 ~ 100
Reset Color	Resets the custom color settings to the factory defaults.		• YES • NO
AMA	Improves the gray level response time of the LCD panel.		• OFF • High • Premium

Item	Function	Range
Instant Mode	<p>Adjusts the image processing to diminish input lag. You can have a real-time experience while playing games.</p>  <p>To optimize the picture quality, disable Instant Mode if the source is interlaced video. To check the resolution of the video source, go to System and Information on the monitor.</p>	<ul style="list-style-type: none"> • ON • OFF
Sharpness	Adjusts the clarity and visibility of the edges of the subjects in the image.	1 to 10
Gamma	Adjusts the tone luminance. The default value is 3 (the standard value for Windows).	<ul style="list-style-type: none"> • Gamma 1 • Gamma 2 • Gamma 3 • Gamma 4 • Gamma 5





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. The default setting is FPS1 . Change the setting if needed.	
	Standard For basic PC application.	
	Movie For viewing videos.	
	Photo For viewing still images.	
	sRGB For better color matching representation with the peripheral devices, such as printers, digital cameras, etc.	
	Eco For saving electricity with low power consumption by providing minimum brightness for all running programs.	

Item	Function		Range
	FPS1	For playing FPS (First Person Shooting) games.	
	FPS2		
	RTS	For playing RTS (Real-time strategy) games.	
	Gamer1	Applies customized display settings.  For details on setting up a game mode, see Setting up your own game mode on page 39 .	
	Gamer2		
	Gamer3		
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
Display Mode	This feature is provided to allow aspect ratios other than 16:9 to be displayed without geometric distortion.  The options under Display Mode will be different depending on the input signal sources.  Depending on your selection of Picture Mode , different Display Mode option is pre-set. Change the setting if needed.		
	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.	
	17" (4:3)	Displays the input image as if on a 17" monitor of 4:3 aspect ratio.	
	19" (4:3)	Displays the input image as if on a 19" monitor of 4:3 aspect ratio.	

Item	Function		Range
	19" (5:4) (XL2720 only)	Displays the input image as if on a 19" monitor of 5:4 aspect ratio.	
	19"W (16:10)	Displays the input image as if on a 19"W monitor of 16:10 aspect ratio.	
	21.5" (16:9)	Displays the input image as if on a 21.5" monitor of 16:9 aspect ratio.	
	22"W (16:10)	Displays the input image as if on a 22"W monitor of 16:10 aspect ratio.	
	23"W (16:9)	Displays the input image as if on a 23"W monitor of 16:9 aspect ratio.	
	23.6"W (16:9) (XL2720 only)	Displays the input image as if on a 23.6"W monitor of 16:9 aspect ratio.	
	24"W (16:9) (XL2720 only)	Displays the input image as if on a 24"W monitor of 16:9 aspect ratio.	
Smart Scaling	Adjusts the display size to best suit your needs.  If the Display Mode is 17", 19", 19"W, or 21.5", the last 4 scaling settings (in different resolutions of the input source) will be saved for quick access. (For XL2720) In almost all display modes except Full , Aspect , and 1:1, the last 9 scaling settings (in different resolutions of the input source) will be saved for quick access.  If the Display Mode is 1:1 (and the resolution of the input source is lower than 1920 x 1080), the last 3 scaling settings (in different resolutions of the input source) will be saved for quick access.		0 ~ 100
Color Format	Determines the color space (RGB or YUV) based on the detected video signal.  You might need to manually set the Color Format if colors shown on the monitor screen do not display properly.  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.		
	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.	

Item	Function		Range
HDMI 3D Format (XL2420TX only)	Selects an appropriate format to play 3D content.  Contact your 3D content provider for the correct playback format.		<ul style="list-style-type: none"> • 2D • FramePacked • Side-by-Side • Top Bottom
HDMI RGB PC Range	Determines the range of color scales. Select an option that matches the RGB range setting on the connected HDMI device.		<ul style="list-style-type: none"> • RGB (0 ~ 255) • RGB (16 ~ 235)
Smart Focus	This feature provides a highlight area to focus on certain content, e.g. a YouTube video or a game in windowed mode.		
	Size	Determines the size of the highlight area.	<ul style="list-style-type: none"> • Small • Large • OFF
	H. Position	Adjusts the horizontal position of the highlight area.	0 ~ 100
	V. Position	Adjusts the vertical position of the highlight area.	0 ~ 100
	Scaling	Scales the highlight area.	0 ~ 100

Save Settings 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.

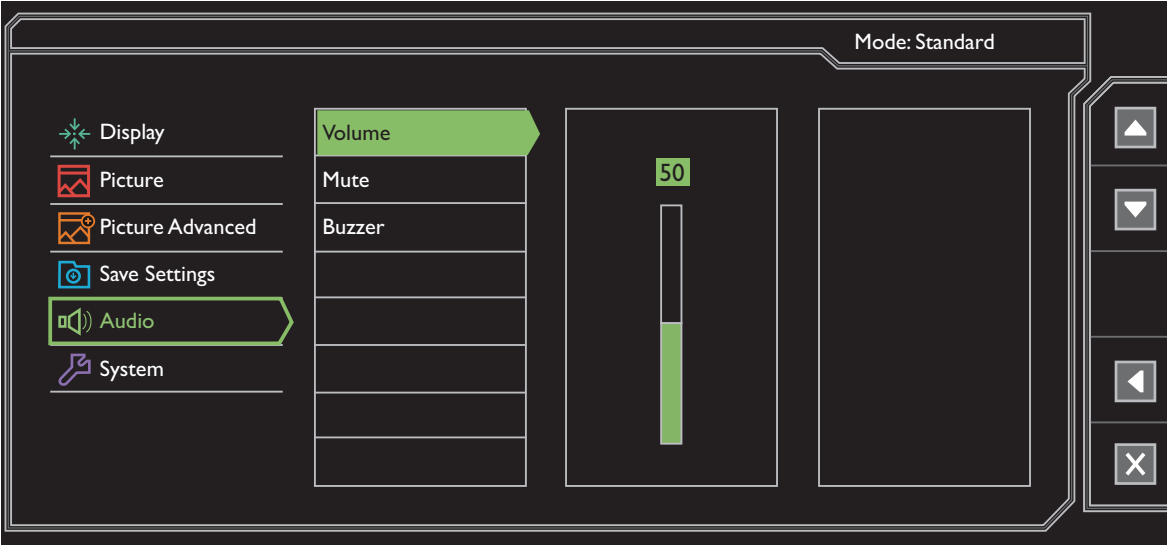












- 1. Select **Menu** from the hot key menu.
- 2. Use or to select **Save Settings**.
- 3. Select to go to a sub menu, and then use or to select a menu item.
- 4. Use to make selection.
- 5. To return to the previous menu, select .
- 6. To exit the menu, select .

Item	Function	Range
Gamer 1	Saves a new set of customized display settings. See Setting up your own game mode on page 39 for information on applying the game mode.	-
Gamer 2		
Gamer 3		

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.

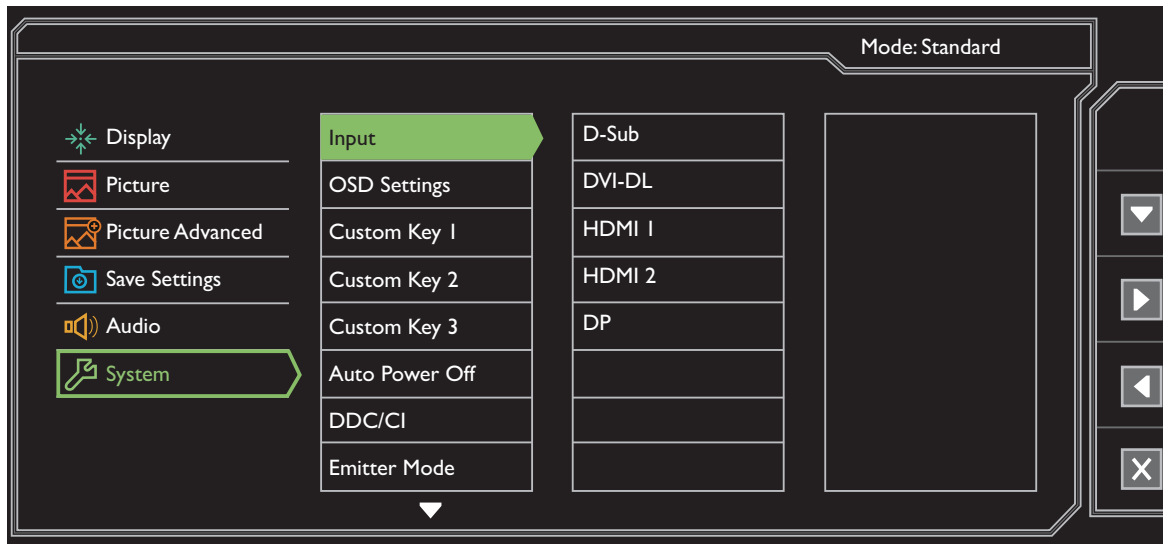


1. Select **Menu** from the hot key menu.
2. Use  or  to select **Audio**.
3. Select  to go to a sub menu, and then use  or  to select a menu item.
4. Use  or  to make adjustments, or use  to make selection.
5. To return to the previous menu, select .
6. To exit the menu, select .

Item	Function	Range
Volume	Adjusts the audio volume.	0 ~ 100
Mute	Mutes the audio input.	• ON • OFF
Buzzer	Turns the tone of control keys on or off.	• ON • OFF



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
Input	<p>Use this to change the input to that appropriate to your video cable connection type.</p> <p> D-Sub and DP are not available for models with G-SYNC module.</p>	<ul style="list-style-type: none"> • D-Sub • DVI-DL • HDMI 1 • HDMI 2 • DP

Item	Function		Range
OSD Settings	Language	<p>Sets the OSD menu language.</p>  <p>The language options displayed on your OSD may differ from those shown on the right, depending on the product supplied in your region.</p>	<ul style="list-style-type: none"> • English • Français • Deutsch • Italiano • Español • Polski • Česky • Magyar • Serbo-croatia • 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	<p>Prevents all the monitor settings from being accidentally changed. When this function is activated, the OSD controls and hotkey operations will be disabled.</p>  <p>To unlock the OSD controls, press and hold any key for 10 seconds.</p>	

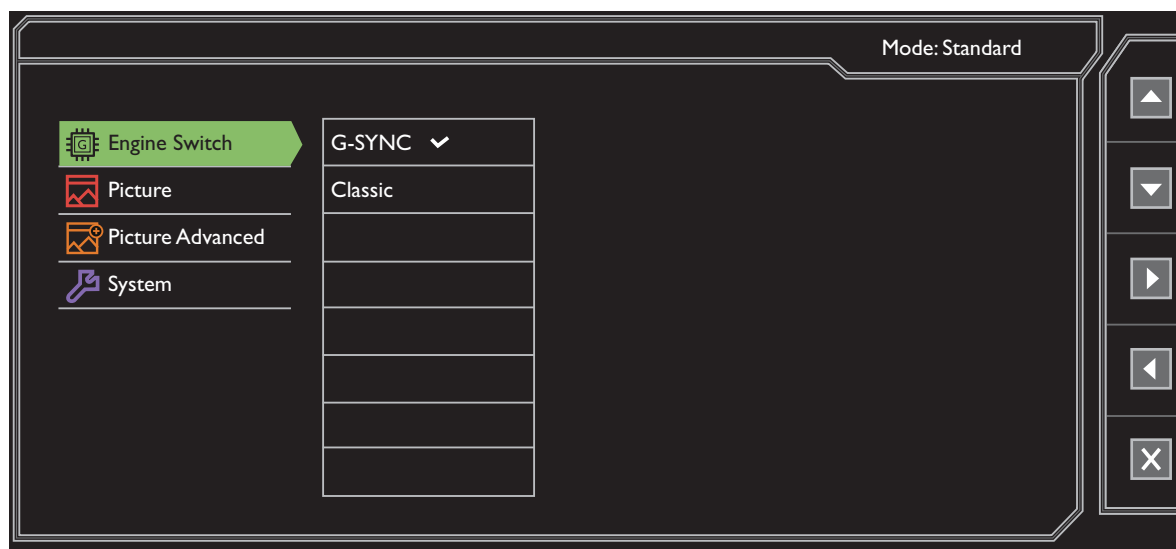
Item	Function		Range
Custom Key 1	Sets the function to be accessed by custom key 1.		• Engine Switch (for models with G-SYNC module) • Picture mode • Display Mode • Smart Scaling (not available for models with G-SYNC module) • Brightness • Contrast • Smart Focus • Volume • Mute • Black eQualizer • Input • Low Blue Light • Blur Reduction
Custom Key 2	Sets the function to be accessed by custom key 2.		
Custom Key 3	Sets the function to be accessed by custom key 3.		
Auto Power Off	Sets the time to power off the monitor automatically in power saving mode.		• OFF • 10min. • 20min. • 30min.
DDC/CI	Allows the monitor settings to be set through the software on the PC.  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.		• ON • OFF
Emitter Mode (XL2420TX only)	Decides the IR signal range.		
	Normal Mode	Sets the signal distance in normal power mode.	
	Consumer Mode	Sets to reduce interference with other IR equipment (e.g. televisions or DVD players).	
	LAN Mode	Sets the minimum distance for LAN parties in low power mode.	

Item	Function	Range
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.	<ul style="list-style-type: none"> • ON • OFF
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) • Model Name
Reset All	Resets all mode, color and geometry settings to the factory default values.	<ul style="list-style-type: none"> • YES • NO

G-SYNC mode: Engine Switch menu

(for models with G-SYNC module only)

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



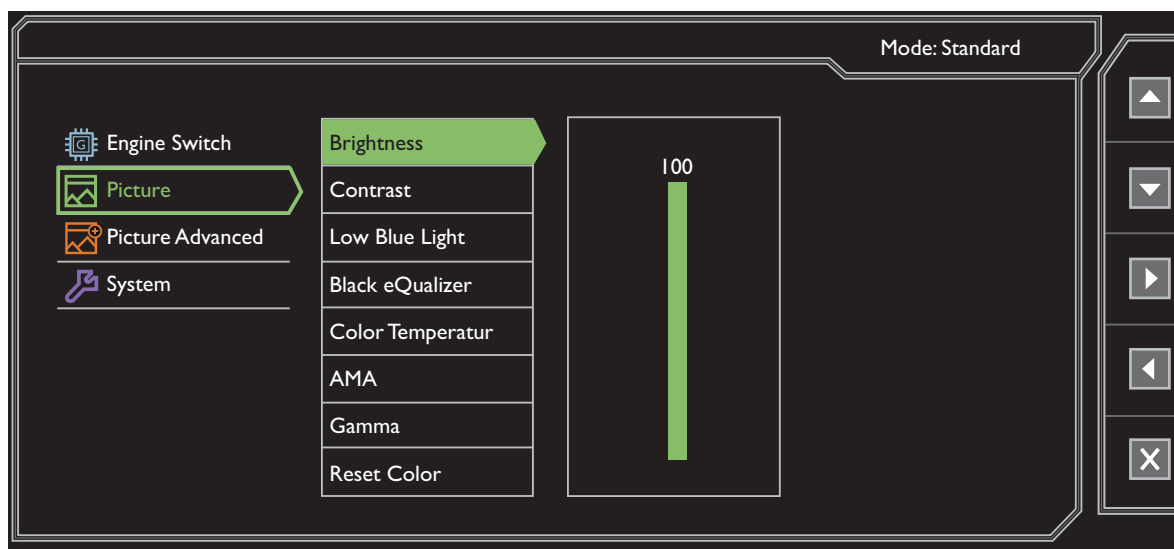
1. Select **Menu** from the hot key menu.
2. Use or to select **Engine Switch**.
3. Select to go to a sub menu, and then use or to select a menu item.
4. Use or to make adjustments, or use to make selection.
5. To return to the previous menu, select .
6. To exit the menu, select .











Item	Function	Range
G-SYNC	Switches to G-SYNC mode. It works when video source through DP cable is connected to the monitor.	
Classic	Switches to Classic mode. It works when video source through DVI-DL or HDMI cable is connected to the monitor.	

G-SYNC mode: Picture menu



(for models with G-SYNC module only)

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



1. Select **Menu** from the hot key menu.
2. Use  or  to select **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 .

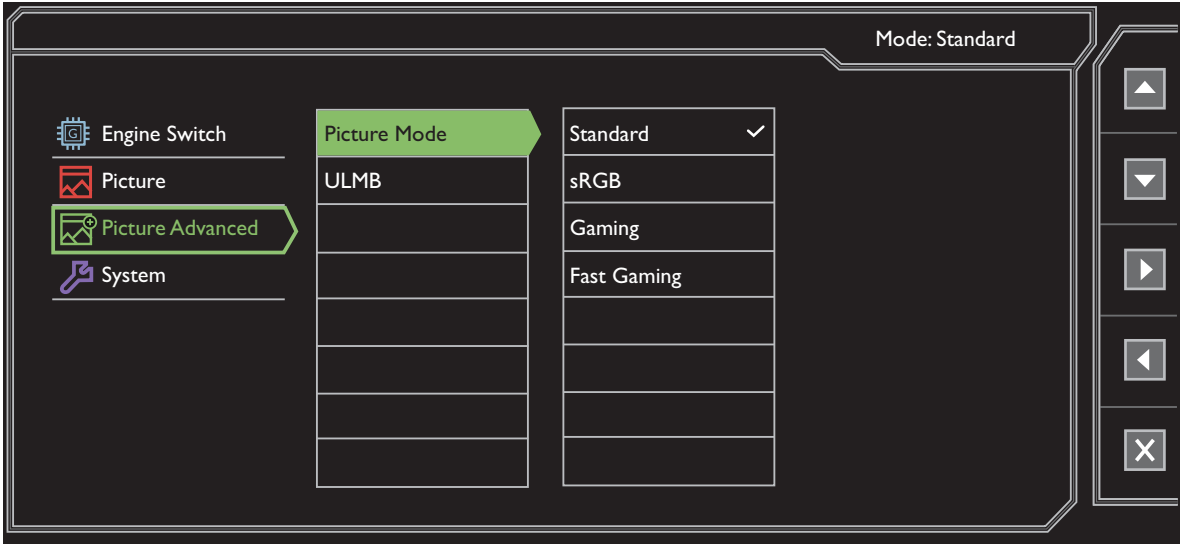
Item	Function	Range
Brightness (during 2D playback) / NVIDIA® 3D LightBoost™ (during 3D playback)	<ul style="list-style-type: none">• Adjusts the balance between light and dark shades (during 2D playback). Or <ul style="list-style-type: none">• Adjusts the brightness during 3D playback.	(During 2D playback) <ul style="list-style-type: none">• 0 to 100 (During 3D playback) <ul style="list-style-type: none">• OFF to MAX
Contrast	Adjusts the degree of difference between darkness and lightness.	0 to 100











Item	Function		Range
Low Blue Light (selected models only)	<p>Decreases the blue light emitted from the display to reduce the risk of blue light exposure to your eyes.</p>  The higher the value is, the more blue light has been decreased.		0 ~ 10
Black eQualizer	<p>Brings out the dark shades by increasing the brightness without changing those of the light shades.</p>  If the image is too bright or barely contains any dark shades, adjusting the value of Black eQualizer may not show much change to the image.		0 ~ 20
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 Mode	<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)
AMA	Improves the gray level response time of the LCD panel.		<ul style="list-style-type: none"> • OFF • High • Premium
Reset Color	Resets the custom color settings to the factory defaults.		<ul style="list-style-type: none"> • YES • NO
Gamma	Adjusts the tone luminance. The default value is 3 (the standard value for Windows).		<ul style="list-style-type: none"> • Gamma 1 • Gamma 2 • Gamma 3 • Gamma 4


G-SYNC mode: Picture Advanced menu





(For models with G-SYNC module only)

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



1. Select **Menu** from the hot key menu.
2. Use  or  to select **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 .

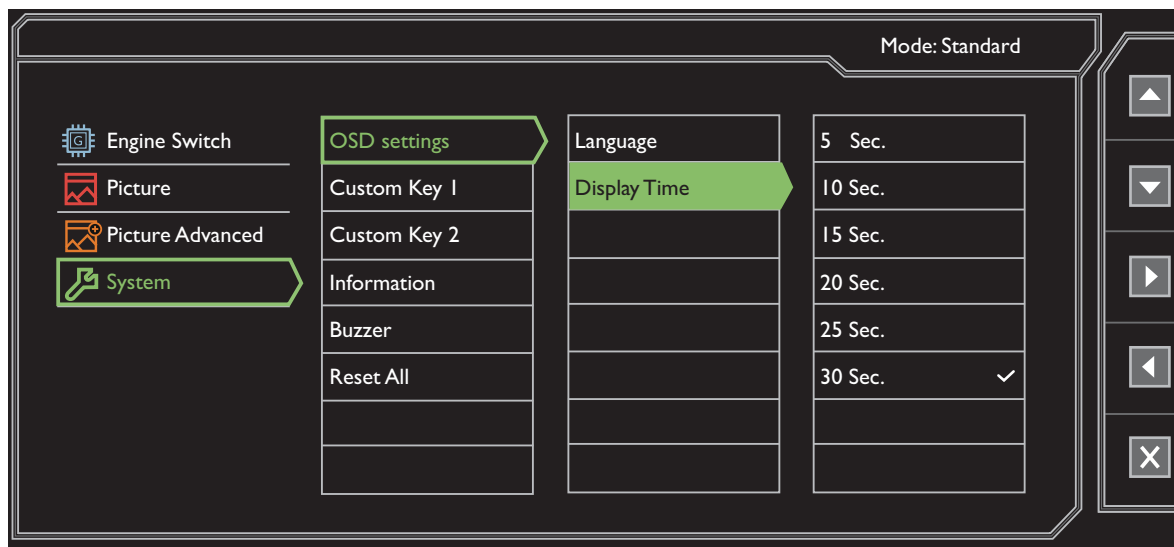
Item	Function		Range
Picture Mode	Select a picture mode that best suits the type of images shown on the screen.		
	 The default setting is Fast Gaming . Change the setting if needed.		
	Standard	For basic PC application.	
	sRGB	For better color matching representation with the peripheral devices, such as printers, digital cameras, etc.	
	Gaming	For playing video games.	











Item	Function		Range
	Fast Gaming	For playing fast-paced games.	
ULMB (Ultra Low Motion Blur)	Reduces motion blur in games or during video playback.		
	 Not applicable for 3D playback.		
	 Available when refresh rate is 85 Hz, 100 Hz, or 120 Hz.		
	 Note the impacts of the ULMB function once activated. - Brightness is decreased. - Flicker-free is disabled.		
	ON	Enables motion blur reduction.	
OFF	Disables motion blur reduction.		
ULMB Pulse Width	Adjusts ULMB performance.  The brightness of the display changes with the ULMB Pulse Width adjustment.	0 ~ 100	


G-SYNC mode: System menu

(For models with G-SYNC module only)

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



1. Select **Menu** from the hot key menu.
2. Use  or  to select **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	<div>Sets the OSD menu language.</div> <div> The language options displayed on your OSD may differ from those shown on the right, depending on the product supplied in your region.</div>	<ul style="list-style-type: none">• English• Français• Deutsch• Italiano• Español• Polski• Český• Magyar• Serbo-croatia• 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.
Custom Key 1	Sets the function to be accessed by custom key 1.		<ul style="list-style-type: none">• Engine Switch• Picture mode
Custom Key 2	Sets the function to be accessed by custom key 2.		<ul style="list-style-type: none">• ULMB• Black eQualizer
Custom Key 3	Sets the function to be accessed by custom key 3.		<ul style="list-style-type: none">• Low Blue Light• Brightness• Contrast

Item	Function	Range
Information	Displays the current monitor property settings.	<ul style="list-style-type: none"> • Input • Current Resolution • Optimum Resolution (best with the monitor) • Mode
Reset All	Resets all mode, color and geometry settings to the factory default values.	<ul style="list-style-type: none"> • YES • NO

Troubleshooting

Frequently asked questions (FAQ)



The image has a faulty coloration.



- The default **Picture Mode** might be set for a specific type of game. If you prefer other picture modes, go to **Picture Advanced** and change setting in **Picture Mode**.
- If the image has a yellow, blue or pink appearance, go to **Picture** and **Reset Color**, and then choose **YES** to reset the color settings to the factory defaults.

If the image is still not correct and the OSD also has faulty coloration, this means one of the three primary colors is missing in the signal input. Now check the signal cable connectors. If any pin is bent or broken off, please contact your dealer to get necessary support.



The image is 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 LED indicator is white or orange.
-  • If the LED lights up in solid white, the monitor is powered on.
 -  • If the LED is illuminated in white and there is a message **Out of Range** on the screen, this means you are using a display mode that this monitor does not support, please change the setting to one of the supported mode. Please read the “**Preset display modes**” section from the link "**Adjusting the Screen Resolution**".
 -  • If the LED is illuminated in orange, the power management mode is active. Press any button on the computer keyboard or move the mouse. If that does not help, check the signal cable connectors. If any pin is bent or broken off, please contact your dealer to get necessary support.
 -  • If the LED is off, check the power supply mains socket, the external power supply and the mains switch.
-  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.
-  Read the instructions on the link "**Adjusting the Screen Resolution**" on the CD, and then select the correct resolution, refresh rate and make adjustments based on these instructions.
-  You are running the monitor at its native resolution, but the image is still distorted.
-  Images from different input sources may appear distorted or stretched on the monitor running at its native resolution. To have the optimal display performance of each type of input sources, you can use the **Display Mode** function to set a proper aspect ratio for the input sources. See [Display Mode on page 51](#) 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.



Video signal output error.



If 2 input sources are connected to your monitor for **Classic** and **G-SYNC** modes separately, chances are that the computer compatibility may lead to video signal output error on the monitor. Try the following to solve the problem.

- Unplug and plug back the power cord of the monitor.
- Switch between **Classic** and **G-SYNC** modes again.

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.