

PHILIPS

Business
Monitor

5000 Series



24B2G5301

EN	
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Register your product and get support at www.philips.com/welcome

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1. Important

This electronic user's guide is intended for anyone who uses the Philips monitor. Take time to read this user manual before you use your monitor. It contains important information and notes regarding the operation of your monitor.

The Philips guarantee applies provided that the product is handled for its intended use, by its operating instructions, and accompanied by the presentation of the original invoice or cash receipt that indicates the date of purchase, dealer's name and model, and production number of the product.

1.1 Safety precautions and maintenance

Warnings

The use of controls, adjustments, or procedures other than those specified in this document may result in exposure to shock, electrical hazards, and/or mechanical hazards.

Read and follow these instructions when connecting and using your monitor.

Excessive sound pressure from earphones and headphones can cause hearing loss. Adjustment of the equalizer to maximum capacity increases the earphones and headphones output voltage; thereby increasing the sound pressure level.

Operation

- Please Keep the monitor out of direct sunlight, very strong bright lights and away from any other heat source. Lengthy exposure to this type of environment may result in discoloration and damage to the monitor.
- Keep the display away from oil. Oil may damage the plastic cover of the display and void the warranty.
- Remove any object that could fall into ventilation holes or prevent proper cooling of the monitor's electronics.
- Do not block the ventilation holes in the cabinet.
- When positioning the monitor, make sure the power plug and outlet are easily accessible.
- If turning off the monitor by detaching the power cable or DC power cord, wait for 6 seconds before attaching the power cable or DC power cord before returning to normal operation.
- Please use the approved power cord provided by Philips all the times. If your power cord is missing, please contact your local service center. (Please refer to the Service contact information located in the Important information manual.)
- Operate under the specified power supply. Use of incorrect voltage will cause malfunction and may cause fire or electric shock.
- Protect the cable. Do not pull or bend the power cable and signal cable. Do not place the monitor or any other heavy objects on the cables. If damaged, the cables may cause fire or electric shock.
- Do not subject the monitor to severe vibration or high-impact conditions during operation.
- To avoid potential damage, like the panel peeling from the bezel, ensure that the monitor does not tilt downward by more than -5 degrees. If the -5 degree downward tilt angle

maximum is exceeded, the monitor damage will not be covered under warranty.

- Do not knock or drop the monitor during operation and/or transportation.
- The USB Type-C port could only be connected to specify equipment with fire enclosure in compliance with IEC 62368-1 or IEC 60950-1.
- Excessive usage of the monitor can cause eye discomfort. It's recommended to take shorter breaks more often at your workstation than longer breaks and less often. For example, a 5-10 minute break after 50-60-minute continuous screen use is likely to be better than a 15-minute break every two hours. Prevent eye strain while using the screen for a constant period by :
 - Looking at something varying distances after a long period of focusing on the screen.
 - Conscious Blinking while you work.
 - Gently closing and rolling your eyes to relax.
 - Reposition your screen to the appropriate height and angle.
 - Adjust the brightness and contrast to an appropriate level.
 - Adjust the environment lighting similar to that of your screen brightness. Avoid fluorescent lighting and surfaces that don't reflect too much light.
 - Seeing a doctor if your symptoms worsen.

Maintenance

- To protect your monitor from possible damage, do not put excessive pressure on the LCD panel. When moving your monitor, grasp the frame to lift; do not lift the monitor by placing your hand or fingers on the LCD panel.
- Oil-based cleaning solutions may damage the plastic parts and void the warranty.
- Unplug the monitor if you are not going to use it for an extensive period.
- Unplug the monitor if you need to clean it with a slightly damp cloth. The screen may be wiped with a dry cloth when the power is off. However, never use organic solvents, such as alcohol or ammonia-based liquids.
- To avoid the risk of shock or permanent damage to the set, do not expose the monitor to dust, rain, water, or excessive moisture.
- If your monitor gets wet, wipe it with a dry cloth as soon as possible.
- If a foreign substance or water gets in your monitor, please turn the power off immediately and disconnect the power cord. Then, if damaged, send it to the maintenance center.
- Do not store or use the monitor in locations exposed to heat, direct sunlight, or extreme cold.
- To maintain the best performance of your monitor and use it for a longer lifetime, please use the monitor in a location that falls within the following temperature and humidity ranges:

- Temperature: 0°C-40°C 32°F-104°F
- Humidity: 20%-80% RH

Important information for Burn-in/ Ghost image

- Always activate a moving screen saver program when you leave your monitor unattended. Always activate a periodic screen refresh application if your monitor will display unchanging static content. Uninterrupted display of still or static images over an extended period may cause “burn-in”, also known as “after-imaging” or “ghost imaging”, on your screen.
- “Burn-in”, “after-imaging”, or “ghost imaging” is a well-known phenomenon in LCD panel technology. In most cases, the “burn-in” or “after-imaging” or “ghost imaging” will disappear gradually over a period of time after the power has been switched off.

Warning

Failure to activate a screen saver, or a periodic screen refresh application may result in severe “burn-in” or “after-image” or “ghost image” symptoms that will not disappear and cannot be repaired. The damage mentioned above is not covered under your warranty.

Service

- The casing cover should be opened only by qualified service personnel.
- If there is any need for any document for repair or integration, please contact your local service center. (You can refer to the service contact information listed in the important information manual.)
- For transportation information, please refer to “Technical Specifications”.

- Do not leave your monitor in a car under direct sunlight.

Note

Consult a service technician if the monitor does not operate normally or you are not sure what procedure to take when the operating instructions given in this manual.

1.2 Notational Descriptions

The following subsections describe the notational conventions used in this document.

Notes, Cautions, and Warnings

Throughout this guide, blocks of text may be accompanied by an icon and printed in bold or italic type. These blocks contain notes, cautions, and/or warnings.

Note

This icon indicates important information and tips that help you make better use of your computer system.

Caution

This icon indicates information that tells you how to avoid either potential damage to the hardware or loss of data.

Warning

This icon indicates the potential for bodily harm and tells you how to avoid the problem.

Some warnings may appear in alternate formats and may not be accompanied by an icon. In such cases, the specific presentation of the warning is mandated by the relevant regulatory mechanism.

1.3 Disposal of product and packing material

Waste Electrical and Electronic Equipment-WEEE



This marking on the product or its packaging illustrates that, under European Directive 2012/19/EU governing used electrical and electronic appliances, this product may not be disposed with normal household waste. You are responsible for the disposal of this equipment through a designated waste electrical and electronic equipment collection. To determine the locations for dropping off such waste, contact your local government office, the waste disposal organization that serves your household, or the store at which you purchased the product.

Your new monitor contains materials that can be recycled and reused. Specialized companies can recycle your product to increase the number of reusable materials and minimize the amount to be disposed of.

All redundant packing material has been omitted. We have done our utmost to make the packaging easily separable into mono materials.

Please find out about the local regulations on how to dispose of your old monitor and packing from your sales representative.

Taking back/Recycling Information for Customers

Philips establishes technically and economically viable objectives to optimize the environmental performance of the organization's products, services, and activities.

From the planning, design, and production stages, Philips emphasizes the importance of making products that can easily be recycled. At Philips, end-of-life management primarily entails participation in national take-back initiatives and recycling programs whenever possible, preferably in cooperation with competitors, which recycle all materials (products and related packaging material) following all Environmental Laws and taking back programs with the contractor company.

Your display is manufactured with high-quality materials and components which can be recycled and reused.

To learn more about our recycling program please visit:

<http://www.philips.com/a-w/about/sustainability.html>

2. Setting up the monitor

2.1 Installation

1 Package contents



Power



*HDMI



*DP



*USB C-C



*USB C-A

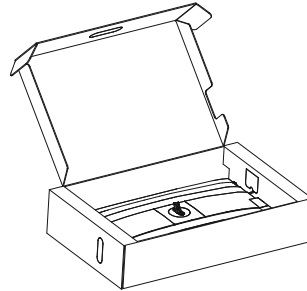


*USB C-C/A

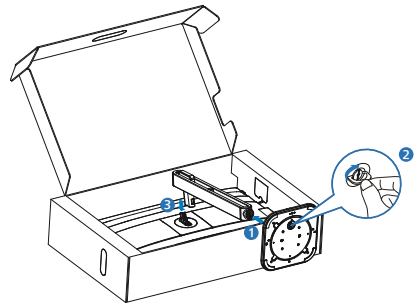
*Different according to region.

2 Install the base

1. Place the monitor face down on a smooth surface. Pay attention not to scratch or damage the screen.



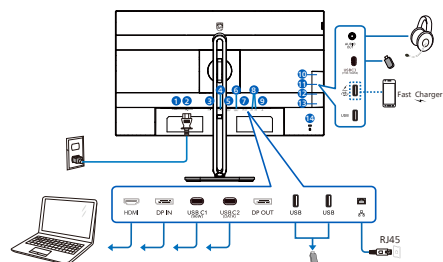
2. Hold the stand with both hands.
 - (1) Gently attach the base to the stand.
 - (2) Use your fingers to tighten the screw located at the bottom of the base.
 - (3) Gently attach the stand to the VESA mount area until the latch locks the stand.



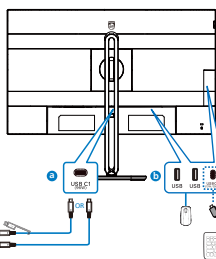
! Caution

Place the monitor face down on a smooth surface. Pay attention not to scratch or damage the screen.

3 Connecting to your PC



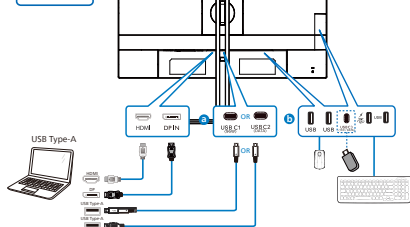
USB C-C



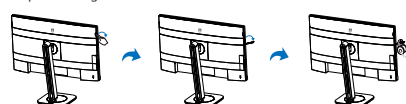
USB Type-C



USB hub (USB A-C)



Earphone-Hang



- ❶ Power Switch
- ❷ AC power input
- ❸ HDMI input
- ❹ DisplayPort input
- ❺ USB C1 (96W)
- ❻ USB C2 (DATA)
- ❼ DisplayPort output
- ❽ USB downstream
- ❾ RJ45 input
- ❿ Audio out
- ⓫ USB C3 (15W/DATA)
- ⓫ USB downstream/USB fast charger
- ⓫ USB downstream
- ⓫ Kensington anti-theft lock

Connect to PC

1. Connect the power cord to the back of the display firmly.
2. Turn off your computer and unplug its power cable.
3. Connect the monitor signal cable to the video connector on the back of your computer.
4. Plug the power cord of your computer and your monitor into a nearby outlet.
5. Turn on your computer and monitor. If the monitor displays an image, installation is complete.

4 RJ45 driver installation

You can find the “LAN Drivers” from Philips website support page.

Please follow the steps for the installation:

1. Install the LAN driver that matches your system.
2. Double click driver to install, and follow Window’s instructions to proceed with installation.
3. It will show “success” when the installation is finished.
4. You must reboot your computer after the installation has completed.
5. Now you will be able to see “Realtek USB Ethernet Network Adapter” from your program installed list.
6. We recommend to periodically visit the above web link to check for the availability of the most updated driver.

Note

Please contact Philips service hotline for Mac address clone tool as necessary.

5 USB hub

To comply with International energy standards, the USB hub/ports of this monitor are disabled during Standby and Off modes.

Connected USB devices will not work in this state.

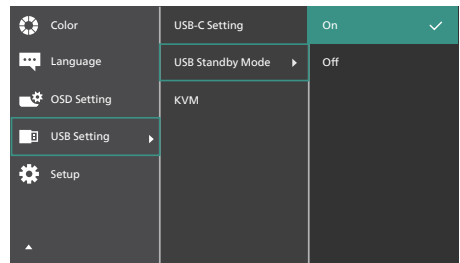
To permanently put the USB function in the “ON” state, please go to OSD Menu, then select “USB standby mode”, and switch it to the “ON” state. Somehow if your monitor resets to the factory setting, ensure to select “USB standby mode” to “ON” state in the OSD menu.

6 USB charging

This monitor has USB ports capable of standard power output including

some with USB Charging function (identifiable with power icon ). You can use these ports to charge your Smart phone or power your external HDD, for example. The monitor must be powered ON at all times to be able to use this function.

Some selected Philips displays may not Power or Charge your device when it enters “Sleep/Standby” mode (White power LED blinking). In that case, please enter to OSD Menu and select “USB Standby Mode”, then, turn the function to “ON” mode (default=OFF). This will then keep the USB power and charging functions active even when the monitor is in sleep/standby mode.



Note

If you Turn OFF your monitor via the power switch at any given time, all the USB ports will power OFF.

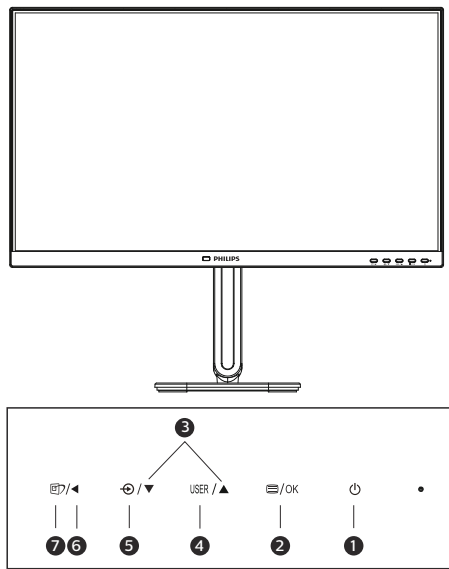
Warning

USB 2.4Ghz wireless devices, such as wireless mice, keyboards, and headphones, may result in decreased efficiency of radio transmission of USB 3.2 devices. Should this happen, please try the following methods to help reduce the effects:

- Try to keep USB 2.0 receivers away from a USB 3.2 connection port.
- Use a standard USB extension cable or USB hub to increase the space between your wireless receiver and the USB3.2 or higher version of connection port.

2.2 Operating the monitor

1 Description of the control buttons

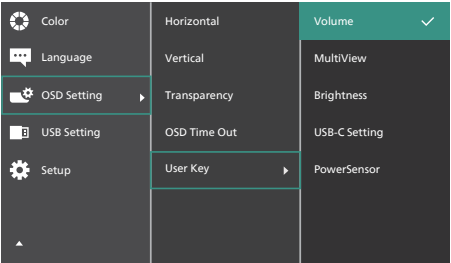


1		Switch monitor's power ON or OFF.
2		Access the OSD menu. Confirm the OSD adjustment.
3		Adjust the OSD menu.
4	USER	User preference key. Customize your own preference function from OSD to become the "user key".
5		Change the signal input source.
6		Return to previous OSD level.
7		SmartImage hot key. There are multiple modes to select: EasyRead, Office, Photo, Movie, Game, Economy, Off.

2 Customize your own "USER" key

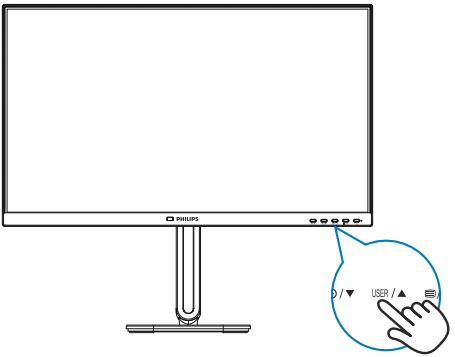
This hot key allows you to setup your favorite function key.

1. Press button on the front bezel to enter OSD Menu Screen.



2. Press or button to select main menu [OSD Settings], then press OK button.
3. Press or button to select [User Key], then press OK button.
4. Press or button to select your preferred function.
5. Press OK button to confirm your selection.

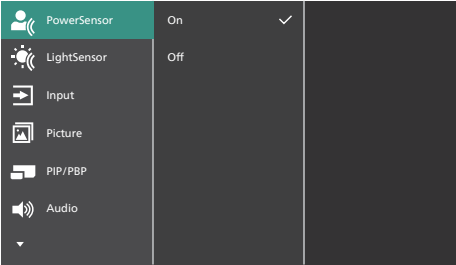
Now you can press the hotkey directly on the front bezel. Only your pre-selected function will appear for quick access.



3 Description of the On-Screen Display

What is On-Screen Display (OSD)?

On-Screen Display (OSD) is a feature in all Philips LCD monitors. It allows an end user to adjust screen performance or select functions of the monitors directly through an on-screen instruction window. A user-friendly OSD interface is shown below:



Basic and simple instructions on the control keys

To access the OSD menu on this Philips display, simply use the single toggle button located on the rear side of the display. The single button operates like a joystick. To move the cursor, simply toggle the button in four directions. Press the button to select the desired option.

The OSD Menu

Below is an overall view of the structure of the On-Screen Display. You can use this as a reference when you want to work your way around the different adjustments later on.

Note

If this display has "DPS" for ECO design, the default setting is "ON" mode: it makes the screen looks slightly dim; for optimum brightness, enter to the OSD to set "DPS" to "OFF" mode.

Main menu	Sub menu	
PowerSensor	On Off	0, 1, 2, 3, 4, User
LightSensor	On Off	
Input	HDMI 1.4 DisplayPort USB C Auto	On, Off
Picture	SmartImage Adaptive Sync Picture Format Brightness Contrast Sharpness SmartResponse SmartContrast Gamma Pixel Orbiting Over Scan DPS	EasyRead, Office, Photo, Movie, Game/Economy, Off On, Off Wide screen, 4:3 0-100 0-100 0-100 Off, Fast, Faster, Fastest On, Off 1.8, 2.0, 2.2, 2.4, 2.6 On, Off On, Off On, Off
PIP/PBP	PIP/PBP Mode PIP/PBP Input PIP Size PIP Position Swap	Off, PIP, PBP HDMI 1.4, DisplayPort, USB C Small, Middle, Large Top-Right, Top-Left, Bottom-Right, Bottom-Left
Audio	Volume Mute Audio Source	0-100 On, Off HDMI, DisplayPort, USB C
Color	Color Temperature sRGB User Define	Native, 5000K, 6500K, 7500K, 8200K, 9300K, 11500K — Red: 0-100 Green: 0-100 Blue: 0-100
Language	English, Deutsch, Español, Ελληνικά, Français, Italiano, Magyar, Nederlands, Português, Português do Brasil, Polski, Русский, Svenska, Suomi, Türkçe, Čeština, Українська, 简体中文, 繁體中文, 日本語, 한국어	
OSD Setting	Horizontal Vertical Transparency OSD Time Out User Key	0-100 0-100 Off, 1, 2, 3, 4 5s, 10s, 20s, 30s, 60s Volume MultiView Brightness USB-C Setting PowerSensor
USB Setting	USB-C Setting USB Standby Mode KVM	High Resolution, High Data Speed On, Off Auto, USB C1, USB C2
Setup	Power LED Resolution Notification DP Out Multi-Stream Smart Power Reset Information	0, 1, 2, 3, 4 On, Off Clone, Extend On, Off Yes, No

4 Resolution notification

This monitor is designed for optimal performance at its native resolution, 1920 x 1080. When the monitor is powered on at a different resolution, an alert is displayed on screen: Use 1920 x 1080 for best results.

Display of the native resolution alert can be switched off from Setup in the OSD (On Screen Display) menu.

Note

1. The USB hub default setting of USB C input for this monitor is "High Data Speed". The maximum resolution supported depends on your graphic card capability. If your PC doesn't support HBR 3, select High Resolution in USB Setting, then the maximum resolution supported will be 1920 x 1080 @100Hz. Press  button > USB Setting > USB > High Resolution
2. If your Ethernet connection seems slow, please enter OSD menu and select High Data Speed which supports the LAN speed to 2.5G.

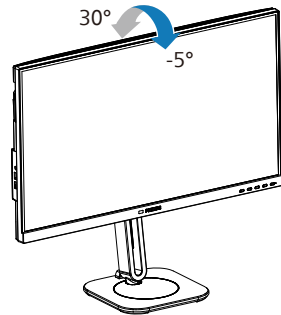
5 Firmware

The over-the-air (OTA) firmware update is through the SmartControl software and is easily downloadable through the Philips website. What does SmartControl do? It is an additional software that helps control the photo, audio, and the other on-screen graphic settings of the monitor.

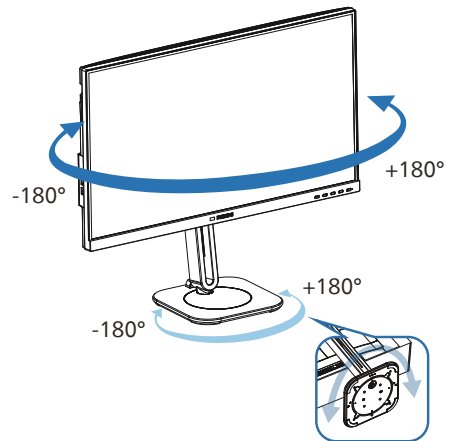
In the "Setup" section, you can check which firmware version you currently have and if you need to upgrade or not. In addition, it is important to note that the firmware upgrades must be done through the SmartControl software. It is necessary to be connected to a network when updating the firmware on SmartControl over-the-air (OTA).

6 Physical Function

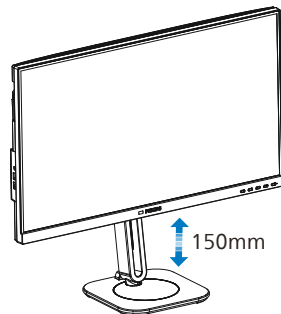
Tilt



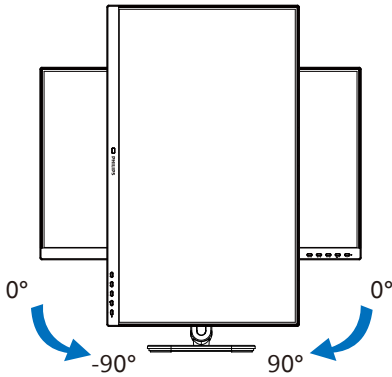
Swivel



Height adjustment



Pivot



Warning

- To avoid potential screen damage, such as panel peeling, ensure that the monitor does not tilt downward by more than -5 degrees.
- Do not press the screen while adjusting the angle of the monitor. Grasp only the bezel.
- It is important to note that when you adjust the angle of the monitor screen, the entire stand and rotating disk will also move with it as this is a swivel-adjustable monitor.

2.3 MultiClient Integrated KVM

1 What is it?

With MultiClient Integrated KVM switch, you can control two separate PCs with one monitor-keyboard-mouse set up.

2 How to enable MultiClient Integrated KVM

With the built-in MultiClient Integrated KVM, Philips monitor allows to quickly switch your peripherals back and forth between in two devices through the OSD menu setting.

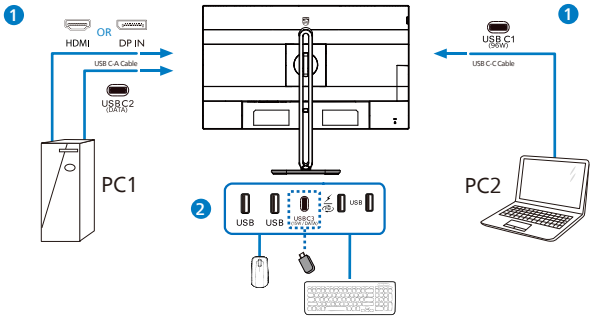
Use USB C1 and HDMI or DP as input, then use USB C2 as USB upstream

Please follow the steps for the settings.

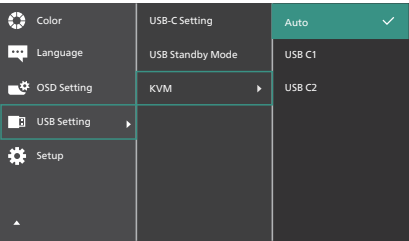
1. Connect the USB upstream cables from your dual devices to the “USB C1” and “USB C2” port of this monitor at the same time.

Source	USB Upstream
HDMI or DP	USB C2
USB C1	USB C1

2. Connect peripherals to the USB downstream port of this monitor.



3. Enter to OSD menu. Go to KVM layer and select “Auto”, “USB C1” or “USB C2” to switch the control of peripherals from one device to another. Simply repeat this step for switching the control system using one set of peripheral.



4. Go to the KVM tab and select “Auto”, the KVM Smart function can be used.

Note

Users are now able to switch sources easier than ever with the latest SmartKVM feature: Users can simply click the “ctrl” key three times, swap the main picture and/or sub picture on PIP, and press the hotkey located on the bottom-right side of the monitor. Please note that the hotkey feature is available for Windows systems.

Use DP and HDMI as input then use USB C1 as USB upstream.

Please follow the steps for the settings.

- 1. Connect the USB upstream cable from your dual devices to the “USB C1” and “USB C2” port of this monitor at the same time.

The dual PC setup should look like this:

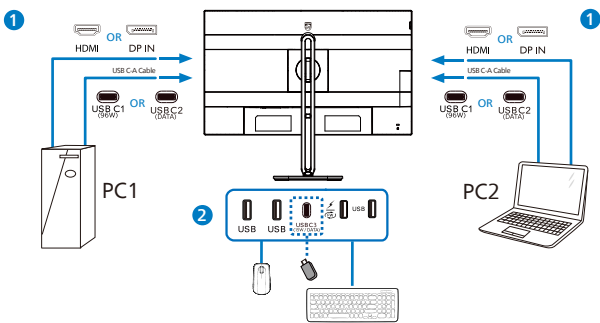
PC1: USB C2 as upstream and HDMI or DP cable for both video and audio transfer.

PC2: USB C1 as upstream (USB C-A) and DP or HDMI for both video and audio transfer.

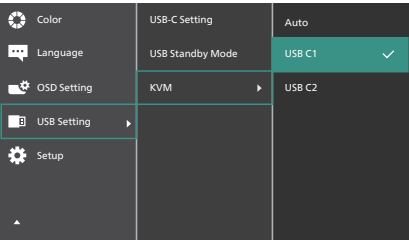
For your convenience. Please use the table below as reference.

Source	USB Upstream
HDMI or DP	USB C2
DP or HDMI	USB C1

- 2. Connect peripherals to the USB downstream port of this monitor.



- 3. Enter to OSD menu. Go to KVM layer and select “USB C1” to switch the control of peripherals from one device to another. Simply repeat this step for switching the control system using one set of peripheral.



Note

You can also adopt “MultiClient Integrated KVM” in PBP mode, when you enable PBP, you can see two different sources projected to this monitor side by side simultaneously. “MultiClient Integrated KVM” enhances your operation by using one set of peripherals to control between in two systems through the OSD menu setting. Follow step3 as mentioned above.

2.4 MultiView



1 What is it?

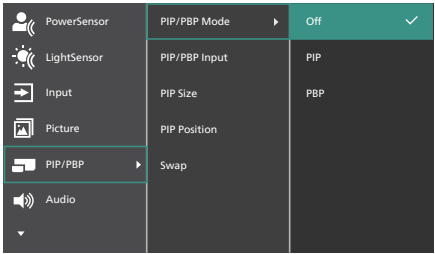
Multiview enables active variety to connect and view so that you can work with multiple devices like PC and Notebook side-by-side simultaneously, thereby making complex multitasking work a breeze.

2 Why do I need it?

With the ultra-high-resolution Philips MultiView display, you can comfortably experience a world of connectivity in the office or at home. With this display, you can conveniently enjoy multiple content sources on one screen. For example, You may want to keep an eye on the live news video feed with audio in the small window, while working on your latest blog... or you may want to edit an Excel file from your Ultrabook, while logged into a secured company intranet to access files from a desktop.

3 How to enable MultiView by OSD menu?

1. Press  button on the front bezel to enter OSD Menu Screen.



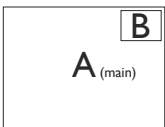
2. Press  or  button to select main menu [PIP / PBP], then press OK button.
3. Press  or  button to select [PIP / PBP Mode], then press OK button.
4. Press  or  button to select [PIP] or [PBP].
5. Now you can move backward to set the [PIP / PBP Input], [PIP Size], [PIP Position], or [Swap].
6. Press OK button to confirm your selection.

4 MultiView in OSD menu

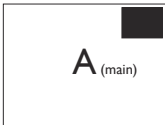
- **PIP / PBP Mode:** There are two modes for MultiView: [PIP] and [PBP].

[PIP]: Picture in Picture

Open up a sub-window of another signal source.



When the sub source is not detected:



[PBP]: Picture by Picture

Open up a sub-window side-by-side of another signal source.



When the sub source is not detected:



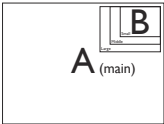
Note
The black strip located on the top and the bottom of the screen is for measuring the correct aspect ratio when in the PBP mode. If you expect to see full-screen, adjust your device's resolutions to pop-up attention resolution and you will be able to see 2 devices' source screen project to this display without black strips. It is important to note that the analog signal is not supported on full screen in PIP mode.

- PIP / PBP Input:** There are different video inputs to choose from as the sub-display source: [HDMI 1.4], [DisplayPort], [USB C].

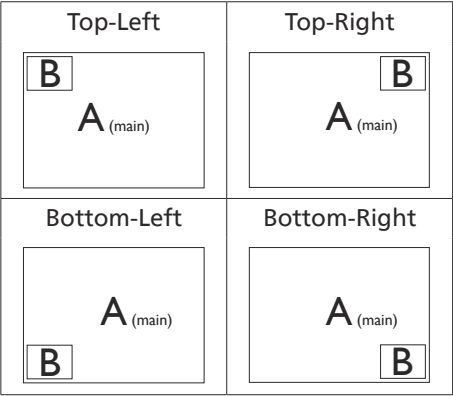
Please refer to the table below for compatibility of the main/sub-input source.

 MultiView	Inputs	SUB SOURCE POSSIBILITY (xl)		
		HDMI	DisplayPort	USB C
MAIN SOURCE (xl)	HDMI	●	●	●
	DisplayPort	●	●	●
	USB C	●	●	●

- PIP Size:** When PIP is activated, there are three sub-window sizes to choose from [Small], [Middle], [Large].

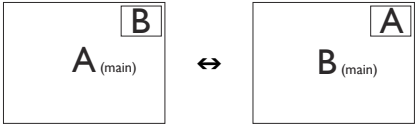


- PIP Position:** When PIP is activated, there are four sub-window positions to choose from.



Swap: The main picture source and the sub-picture source are swapped on the display.

Swap A and B source in [PIP] mode:



Swap A and B source in [PBP] mode:



- Off:** Stop MultiView function.

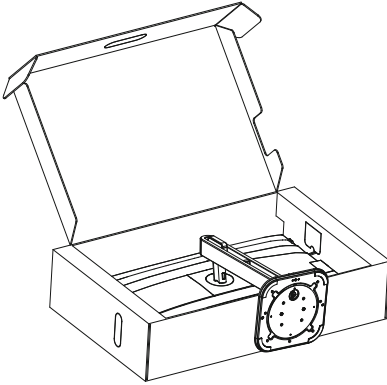


Note
When you activate the SWAP function, the video and its audio source will swap at the same time.

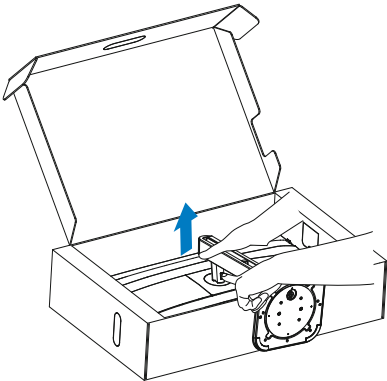
2.5 Remove the Base Assembly for VESA Mounting

Before you start disassembling the monitor base, please follow the instructions below to avoid any possible damage or injury.

1. Place the monitor face down on a smooth surface. Pay attention not to scratch or damage the screen.



2. While keeping the release button pressed, tilt the stand and slide it out.

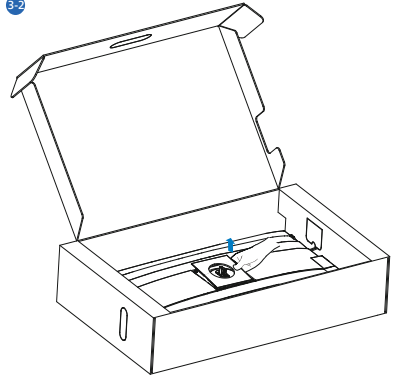


3. Remove the VESA cover.

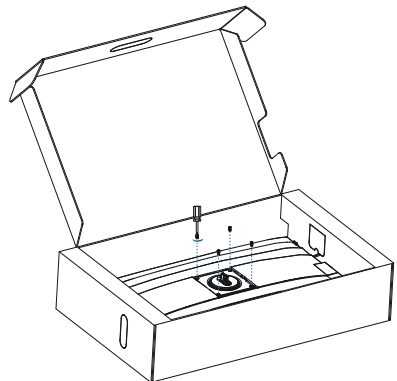
3-1



3-2

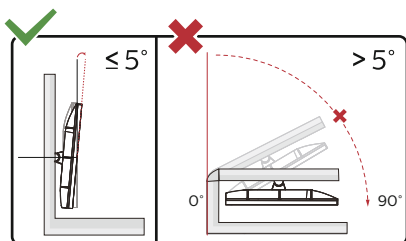
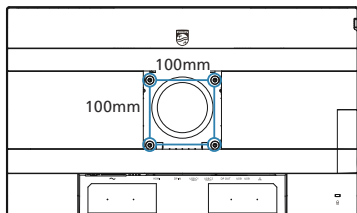


4. Remove the VESA.



ⓘ Note

This monitor accepts a 100mm x 100mm VESA-Compliant mounting interface. VESA Mounting Screw M4. Always contact manufacturer for wall-mount installation.



* Display design may differ from those illustrated.

⚠ Warning

- To avoid potential screen damage, such as panel peeling, ensure that the monitor does not tilt downward by more than -5 degrees.
- Do not press the screen while adjusting the angle of the monitor. Grasp only the bezel.

3. Image Optimization

3.1 SmartImage

1 What is it?

SmartImage provides presets that optimize display for different types of content, dynamically adjusting brightness, contrast, color, and sharpness in real-time. Whether you're working with text applications, displaying images, or watching a video, Philips SmartImage delivers great monitor performance.

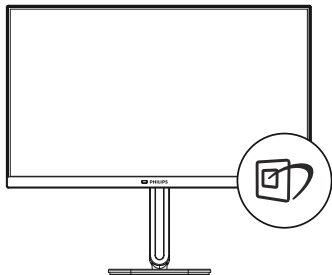
2 Why do I need it?

It is ideal to have a monitor that delivers an optimized display of all your favorite types of content. Our SmartImage software dynamically adjusts brightness, contrast, color, and sharpness in real-time to enhance your monitor viewing experience.

3 How does it work?

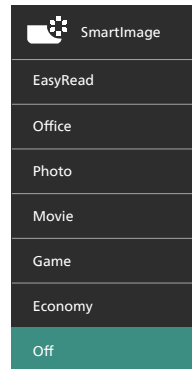
SmartImage is an exclusive, leading edge Philips technology that analyzes the content displayed on your screen. Based on a scenario you select, SmartImage dynamically enhances the contrast, color saturation and sharpness of images to enhance the contents being displayed - all in real time with the press of a single button.

4 How to enable SmartImage?



1. Press  to launch the SmartImage on screen display.
2. Keep pressing ▼▲ to toggle among EasyRead, Office, Photo, Movie, Game, Economy, Off.
3. The SmartImage on screen display will remain on screen for 5 seconds, or you can also press "OK" to make confirmation.

There are multiple modes to select: EasyRead, Office, Photo, Movie, Game, Economy, Off.



- **EasyRead:** Helps improve reading of text based application like PDF ebooks. By using a special algorithm which increases the contrast and boundary sharpness of text content, the display is optimized for a stress-free reading by adjusting the brightness, contrast and color temperature of the monitor.
- **Office:** Enhances text and dampens brightness to increase readability and reduce eye strain. This mode significantly enhances readability and productivity when you're working with spreadsheets, PDF files, scanned articles or other general office applications.

- **Photo:** This profile combines color saturation, dynamic contrast and sharpness enhancement to display photos and other images with outstanding clarity in vibrant colors - all without artifacts and faded colors.
- **Movie:** Ramped up luminance, deepened color saturation, dynamic contrast and razor sharpness displays every details in darker areas of your videos without color washout in brighter areas maintaining a dynamic natural values for the ultimate video display.
- **Game:** Turn on over drive circuit for best response time, reduce jaggy edges for fast moving objects on screen, enhance contrast ratio for bright and dark scheme, this profile delivers the best gaming experience for gamers.
- **Economy:** Under this profile, brightness, contrast are adjusted and backlighting finetuned for just right display of everyday office applications and lower power consumption.
- **Off:** No optimization by SmartImage.

3.2 SmartContrast

1 What is it?

It is a unique technology that dynamically analyzes displayed content and automatically optimizes a monitor's contrast ratio for maximum visual clarity and viewing enjoyment.

2 Why do I need it?

Because SmartContrast offers the best visual clarity and viewing comfort for every type of content. It dynamically controls contrast and adjusts backlighting for bright gaming and video imagery. In addition, by reducing your monitor's power consumption, you save on energy costs and extend the lifetime of your monitor.

3 How does it work?

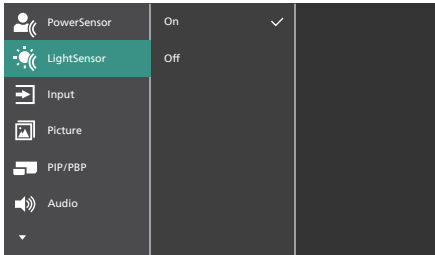
When you activate SmartContrast, it will analyze the content you are displaying in real time to adjust colors and control backlight intensity. This function will dynamically enhance contrast for a great entertainment experience when viewing videos or playing games.

3.3 LightSensor

1 What is it?

Light Sensor is a unique and intelligent way of optimizing picture quality by measuring and analyzing the incoming signal to automatically adjust picture quality settings. Light Sensor uses a sensor to adjust the picture brightness depending on the room light conditions.

2 How to enable LightSensor?



1. Press  button on the front bezel to enter OSD menu screen.
2. Press  or  button to select main menu [LightSensor], then press button **OK**.
3. Press  or  button to turn on or off the LightSensor.

4. Designs to prevent computer vision syndrome (CVS)

Philips monitor is designed to prevent eye strain caused by prolonged computer use.

Follow the below instructions and use a Philips monitor to efficiently reduce fatigue and maximize working productivity.

1. Appropriate environment lighting:

- Adjust the environment lighting similar to that of your screen brightness, avoid fluorescent lighting, and surfaces that don't reflect too much light.
- Adjust the brightness and contrast to the appropriate level.

2. Good working habits:

- Excessive usage of the monitor can cause eye discomfort, it's better to take shorter breaks more often at your workstation than longer breaks and less often; for example a 5-10 minute break after 50-60-minute continuous screen use is likely to be better than a 15-minute break every two hours.
- Looking at something varying distances after a long period of focusing on the screen.
- Gently closing and rolling your eyes to relax.
- Conscious blinking often while working.
- Gently stretch your neck, and slowly tilt your head forward, backward, and side for pain relief.

3. Ideal working posture

- Reposition your screen to the appropriate measurement according to your own height.

4. Choose a Philips monitor for viewing that is easy on the eyes.

- Anti-glare screen: This feature efficiently reduces annoying and distracting reflections that is associated with eye fatigue.
- Flicker-free technology is designed to regulate brightness and reduce flicker for more comfortable viewing.
- EasyRead mode for a paper-like reading experience, giving a more comfortable viewing experience while dealing with long documents on the screen.

5. PowerSensor 2

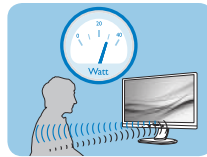
This monitor is equipped with the PowerSensor 2 feature that reduces energy consumption by detecting when users move closer and further away from the screen.

As both the PowerSensor and PowerSensor 2 aim to save energy, the main difference is in the **OSD PowerSensor Sub menu's "User" setting**. This mode gives **PowerSensor 2** its ability to detect users within a defined range and go into standby/wake mode on both the PC and monitor when the user walks away or returns, respectively.

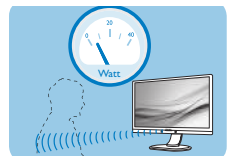
1 How does it work?

- PowerSensor works on the principle of transmission and reception of harmless "infrared" signals in order to detect user presence.
- The sensor is located near the bottom of the monitor's screen and will detect users from the center to a viewing angle of 30 degrees. When the user is in front of the monitor, the monitor operates at the personalized brightness, contrast, and color settings.
- Users can simply make a selection from "0 to 4" based on the distance they would like their monitor to detect them from. Additionally, as a newly developed function customized for user preference, it is possible to change this setting in the OSD **PowerSensor Sub menu's "User" setting**.
- To provide an example of PowerSensor 2's power saving function, if the monitor's brightness was set at 100 percent, it will automatically reduce power consumption by 60 percent when the user leaves the field of view.

User present in front



User not present



Power consumption as illustrated above is for reference purpose only

2 How to I adjust the settings?

The PowerSensor 2 features is designed to detect the presence of the user located between 30 and 100 cm (12 and 40 inches) from the display and within five degrees from the left or right of the monitor.

Custom settings

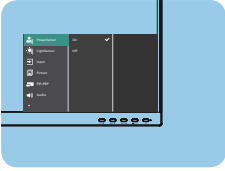
The selection of OSD "0, 1, 2, 3, 4"

If you prefer to be in a position outside the detection zone listed above, you can choose a higher strength signal for optimal operating efficiency: The higher the setting, the stronger the detection signal. For maximum PowerSensor efficiency and proper detection, please position yourself directly in front of your monitor.

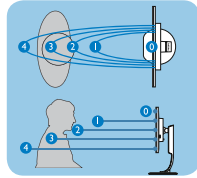
- If you choose to position yourself more than 100 cm or 40 inches from the monitor, use signal setting 4 detection signal (120cm/40in).
- Since some dark-colored clothing tends to absorb infrared signals, even when the user is within 100 cm or 40 inches of the display, it is important to step up the signal strength when wearing black or other dark clothes.

Hot key

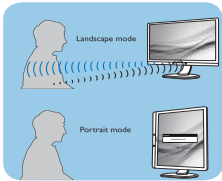
(for selected models only)



Sensor distance



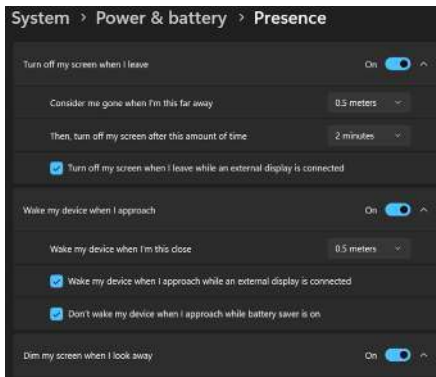
Landscape/Portrait mode



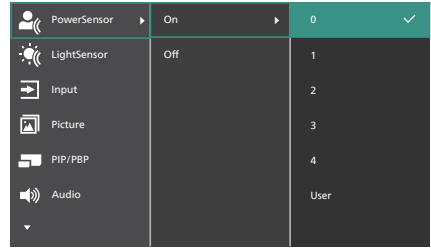
Above illustrations are for reference purpose only, may not reflect the exact display of this model.

The selection of OSD PowerSensor Sub menu "User"

For the computer, users need to select the distance from the laptop's system menu. Under the section of System > Power & battery > Presence. There are three options for the distances: 50 cm, 75 cm, and 120 cm. Once the setting is changed on the computer, users also need to select "User" on the monitor's OSD PowerSensor section. After these steps, the feature is activated.



This image shows the settings to change from the PC.



This image shows the settings to change from the monitor's OSD menu.

Note

- A manually selected PowerSensor mode will remain operational unless and until it is readjusted. If you find that the PowerSensor is excessively sensitive to nearby motion, please adjust to a lower signal strength. Keep the sensor lens clean. If the sensor lens is dirty, wipe it with alcohol to avoid reducing the PowerSensor's effectiveness.
- The function of the PowerSensor Sub menu "User" is only available for computers equipped with a Windows 11 operation system. For more information, please refer to Microsoft Presence Sensing page.

6. Daisy-chain function

DisplayPort Multi-Stream feature enables multiple monitor connections.

This Philips display is equipped with DisplayPort interface and DisplayPort over USB-C which enables daisy-chaining to multiple displays.

Now you can daisy chain and use multiple monitors via a single cable from one display to the next.

To daisy-chain monitors, first to check below:

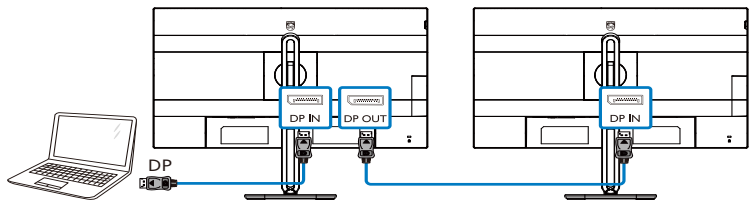
Make sure the GPU on your PC support DisplayPort MST (Multi-stream transport).

 Note

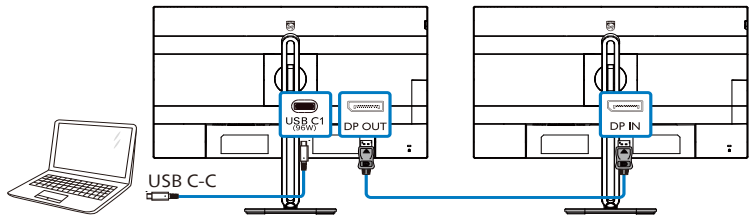
- The maximum number of connectible monitors may vary depending on GPU performance.
- Please check with your graphic card vendor and always update your graphic card driver.
- If the Daisy Chain Function is not showing, please proceed to the On Screen Display (OSD) menu and change the input from "Auto" to "DisplayPort" or "USB-C" according to the port that connects to your computer.

In addition, another option is to update the monitor's firmware and download the SmartControl software from the Philips website. If you choose to go this route, it is necessary to have a strong network connection when updating the firmware on SmartControl.

DisplayPort multi-streaming over DisplayPort



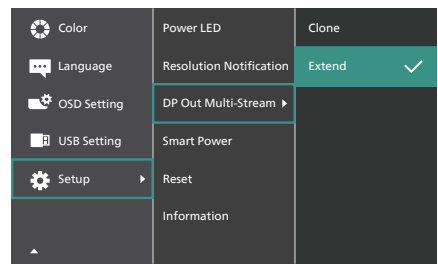
DisplayPort multi-streaming over USB-C



Display Resolution input	Maximum number of external monitors that can be supported
1920 x 1080 @ 100Hz	Extend mode 2

To select one of DP Out Multi-stream modes:

Press  button, select Setup > DP Out Multi-stream > Extend.



 Note

The secondary monitor in the chain must support DisplayPort multi-streaming, and the maximum resolution support is 1920 x 1080@100Hz. (Depending on your computer output is HBR3 signal.)

7. Adaptive Sync



Adaptive Sync

PC gaming has long been an imperfect experience because GPUs and monitors update at different rates. Sometimes a GPU can render many new pictures during a single update of the monitor, and the monitor will show pieces of each picture as a single image. This is called “tearing.” Gamers can fix tearing with a feature called “v-sync,” but the image can become jerky as the GPU waits on the monitor to call for an update before delivering new pictures.

The responsiveness of mouse input and overall frames per second are reduced with v-sync, too. AMD Adaptive Sync technology eliminates all of these problems by letting the GPU update the monitor the moment a new picture is ready, leaving gamers with unbelievably smooth, responsive, tearing-free games.

Followed by the graphic card that are compatible.

- Operating system
 - Windows 11/10
- Graphic Card: R9 290/300 Series & R7 260 Series
 - AMD Radeon R9 300 Series
 - AMD Radeon R9 Fury X
 - AMD Radeon R9 360
 - AMD Radeon R7 360
 - AMD Radeon R9 295X2
 - AMD Radeon R9 290X
 - AMD Radeon R9 290
 - AMD Radeon R9 285
 - AMD Radeon R7 260X
- AMD Radeon R7 260
- Processor A-Series Desktop and Mobility APUs
 - AMD A10-7890K
 - AMD A10-7870K
 - AMD A10-7850K
 - AMD A10-7800
 - AMD A10-7700K
 - AMD A8-7670K
 - AMD A8-7650K
 - AMD A8-7600
 - AMD A6-7400K
 - AMD RX 6500 XT
 - AMD RX 6600 XT
 - AMD RX 6700 XT
 - AMD RX 6750 XT
 - AMD RX 6800
 - AMD RX 6800 XT
 - AMD RX 6900 XT

8. Power Delivery and Smart Power

You can power your compatible device with up to 96 Watts of power from this monitor.

1 What is it?

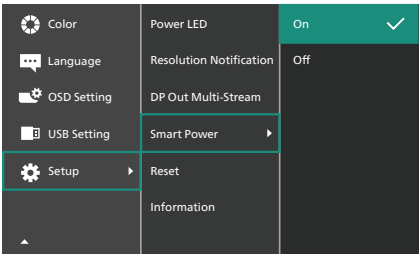
Smart Power is an exclusive Philips technology that provides flexible power delivery options for various devices.

This is useful for recharging high performance laptops with only one cable.

With Smart Power, the monitor makes it possible to deliver up to 96W of power through the USB-C port, compared to the standard 65W.

To prevent damaging the device, Smart Power enables protections to limit current draw.

2 How to enable Smart Power?



1. Toggle to the right to enter OSD Menu Screen.
2. Toggle to the up or down to select main menu [Setup], then toggle to the right to confirm.
3. Toggle to the up or down to turn on or off the [Smart Power].

3 Power through USB-C port:

1. Connect the device to the USB-C port.
2. Turn on [Smart Power].
3. If [Smart Power] is on, and USB-C is used for power, then maximum power delivery depends on the brightness value of the monitor. You may adjust the brightness value manually to increase power delivery from this monitor.

There are 3 power delivery levels:

	Brightness value	Power Delivery from USB-C
Level 1	0~20	96W
Level 2	21~60	85W
Level 3	61~100	80W

Note

- If [Smart Power] is on, and DFP (Downstream Facing Port) is using more than 5W, then USB-C can only deliver up to 65W.
- If [Smart Power] is off, then USB-C can only deliver up to 65W.

9. Technical Specifications

Picture/Display	
Display Panel Type	IPS Technology
Backlight	W-LED
Panel Size	23.8" W (60.5 cm)
Aspect Ratio	16:9
Pixel Pitch	0.2745 (H) mm x 0.2745 (V) mm
Contrast ratio(typical)	1500:1
Native Resolution	1920 x 1080 @ 60 Hz
Maximum Resolution	1920 x 1080 @ 100 Hz
Viewing Angle	178° (H) / 178° (V) @ C/R > 10 (Typ.)
Picture Enhancement	SmartImage
Display Colors	16.7M (6bit + A-FRC)
Vertical Refresh Rate	48 Hz - 100 Hz
Horizontal Frequency	30 kHz - 115 kHz
sRGB	YES
EasyRead	YES
Flicker Free	YES
Adaptive Sync	YES
Over-the-air firmware update	YES
Connectivity	
Signal Input source	HDMI, DisplayPort, USB C1 (DP Alt mode)
Connectors	1 x HDMI 1.4 (HDCP 1.4) 1 x DisplayPort 1.4 (HDCP 1.4) 1 x USB C1 (upstream, HDCP 1.4) 1 x USB C2 (upstream) 1 x USB C3 (downstream) 4 x USB-A (downstream) 1 x RJ45, Ethernet LAN (USB 2.0: 10M/100M; USB 3.2:2.5G) 1 x DisplayPort out 1 x Audio out
Sync input	Separate Sync
USB	
USB Ports	USB C1 x1 (upstream, Up to 96W, DP Alt mode) ¹ USB C2 x1 (upstream, data) ² USB C3 x1 (downstream, up to 15W) ³ USB-A x4 (downstream with x1 fast charge B.C 1.2)
Power Delivery	USB C1: USB PD version 3.0, Up to 96W (5V/3A, 7V/3A, 9V/3A, 10V/3A, 12V/3A, 15V/3A, 20V/3.25A, 20V/4.0A, 20V/4.25A, 20V/4.8A) USB C3: Power supply up to 15W (5V/3A) USB-A: x1 fast charge B.C 1.2, up to 7.5W (5V/1.5A)
Super Speed	USB C/USB-A: USB 3.2 Gen2, 10 Gbps

Convenience			
USER convenience	/ / USER / / OK		
Built-in speaker	3 W x 2		
MultiView	PIP/PBP mode, 2xdevices		
OSD Languages	English, German, Spanish, Greek, French, Italian, Hungarian, Dutch, Portuguese, Brasil Portuguese, Polish, Russian, Swedish, Finnish, Turkish, Czech, Ukranian, Simplified Chinese, Traditional Chinese, Japanese, Korean		
Other Convenience	VESA mount(100×100mm), Kensington Lock		
Plug & Play Compatibility	DDC/CI, Mac OS X, sRGB, Windows 11/10		
Stand			
Tilt	-5 / +30 degree		
Swivel	-180 / +180 degree		
Height adjustment	150mm		
Pivot	-90 / +90 degree		
Power			
Consumption	AC Input Voltage at 100VAC , 60Hz	AC Input Voltage at 115VAC , 60Hz	AC Input Voltage at 230VAC, 50Hz
Normal Operation	16.6 W (typ.)	16.4 W (typ.)	16.0 W (typ.)
Sleep (Standby mode)	0.3 W	0.3 W	0.3 W
Off mode	0.3 W	0.3 W	0.3 W
Off mode(AC switch)	0 W	0 W	0 W
Heat Dissipation*	AC Input Voltage at 100VAC , 60Hz	AC Input Voltage at 115VAC , 60Hz	AC Input Voltage at 230VAC , 50Hz
Normal Operation	56.7 BTU/hr (typ.)	56.0 BTU/hr (typ.)	54.6 BTU/hr (typ.)
Sleep (Standby mode)	1.02 BTU/hr	1.02 BTU/hr	1.02 BTU/hr
Off mode	1.02 BTU/hr	1.02 BTU/hr	1.02 BTU/hr
Off mode(AC switch)	0 BTU/hr	0 BTU/hr	0 BTU/hr
On Mode(ECO mode)	11.9 W (typ.)		
PowerSensor	7.4 W (typ.)		
Power LED indicator	On mode: White, Standby/Sleep mode: White (blinking)		
Power Supply	Built-in, 100-240V AC, 50/60Hz		
Dimensions			
Product with stand (WxHxD)	540 x 501 x 232 mm		
Product without stand (WxHxD)	540 x 324 x 56 mm		
Product with packaging (WxHxD)	615 x 385 x 139 mm		

Weight	
Product with stand	5.61 kg
Product without stand	3.89 kg
Product with packaging	7.84 kg
Operating Condition	
Temperature range (operation)	0°C to 40 °C
Relative humidity (operation)	20% to 80%
Atmospheric pressure (operation)	700 to 1060hPa
Temperature range (Non-operation)	-20°C to 60°C
Relative humidity (Non-operation)	10% to 90%
Atmospheric pressure (Non-operation)	500 to 1060hPa
Environmental and energy	
ROHS	YES
Packaging	100% recyclable
Specific Substances	100% PVC BFR free housing
Cabinet	
Color	Charcoal/Silver
Finish	Texture

¹ The USB-C port USBC provides data, video transfer, and power delivery 96W (typical) up to 100W depending on the device.

² The USB-C port USBC2 provides upstream data transfer only.

³ The USB-C port USBC provides downstream data transfer and 15W of power.

Note

1. The data mentioned in this section is subject to change without notice. Go to www.philips.com/support to download the latest version of the leaflet.
2. The Power delivery function is also based on the PCs capabilities.
3. In order to update the monitor's firmware to the latest version, Please download the SmartControl software from Philips website. It is necessary to be connected to a network when updating the firmware on SmartControl over-the-air (OTA).

9.1 Resolution & Preset Modes

H. freq (kHz)	Resolution	V. freq (Hz)
31.47	720 x 400	70.09
31.47	640 x 480	59.94
35.00	640 x 480	66.67
37.86	640 x 480	72.81
37.50	640 x 480	75.00
35.16	800 x 600	56.25
37.88	800 x 600	60.32
46.88	800 x 600	75.00
48.08	800 x 600	72.19
47.73	832 x 624	74.55
48.36	1024 x 768	60.00
56.48	1024 x 768	70.07
60.02	1024 x 768	75.03
67.50	960 x 1080 PBP Mode	60.00
83.92	960 x 1080 PBP Mode	75.00
113.30	960 x 1080 PBP Mode	100.00
44.77	1280 x 720	59.86
60.00	1280 x 960	60.00
63.89	1280 x 1024	60.02
79.98	1280 x 1024	75.03
55.93	1440 x 900	59.89
65.29	1680 x 1050	59.95
67.50	1920 x 1080	60.00
83.93	1920 x 1080	75.01
110.00	1920 x 1080	100.00

Note

Please notice that your display works best at native resolution of 1920 x 1080. For best display quality, please follow this resolution recommendation.

For best output performance, please always ensure that your graphic card is capable of achieving the maximum resolution and refresh rate of this Philips display.

10. Power Management

If you have a VESA DPM compliance display card or software installed on your PC, the monitor can automatically reduce its power consumption when not in use. If an input from a keyboard, mouse, or other input device is detected, the monitor will 'wake up' automatically. The following table shows the power consumption and signaling of this automatic power saving feature:

Power Management Definition					
VESA Mode	Video	H-sync	V-sync	Power Used	LED Color
Active	ON	Yes	Yes	16.4 W (typ.) 164.2 W (max.)	White
Sleep (Standby mode)	OFF	No	No	0.3 W (typ.)	White (blink)
Off mode (AC switch)	OFF	-	-	0W (AC switch)	OFF

The following setup is used to measure power consumption on this display.

- Native resolution: 1920 x 1080
- Contrast: 50%
- Brightness: 80%
- Color temperature: 6500k with full white pattern

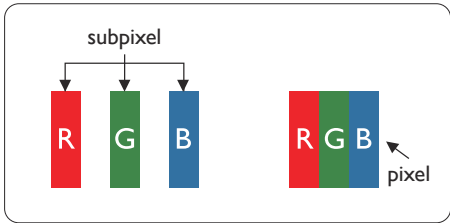
 Note

1. This data is subject to change without notice.
2. The Monitor uses low blue light panel and compliance with TÜV Rheinland Low Blue Light Hardware Solution at factory reset/default setting mode (Brightness:80%, Contrast: 50%).

11. Customer care and warranty

11.1 Philips' Flat Panel Displays Pixel Defect Policy

Philips strives to deliver the highest quality products. We use some of the industry's most advanced manufacturing processes and practice stringent quality control. However, pixel or sub-pixel defects on the TFT Monitor panels used in flat panel monitors are sometimes unavoidable. No manufacturer can guarantee that all panels will be free from pixel defects, but Philips guarantees that any monitor with an unacceptable number of defects will be repaired and/or replaced under warranty. This notice explains the different types of pixel defects and defines acceptable defect levels for each type. To qualify for repair or replacement under warranty, the number of pixel defects on a TFT Monitor panel must exceed these acceptable levels. For example, no more than 0.0004% of the sub-pixels on a monitor may be defective. Furthermore, Philips sets even higher quality standards for certain types or combinations of pixel defects that are more noticeable than others. This policy is valid worldwide.



Pixels and Sub pixels

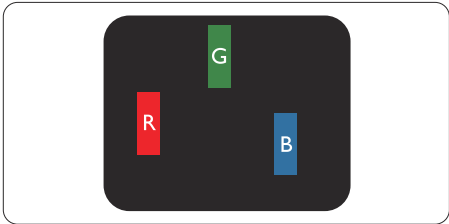
A pixel, or picture element, is composed of three sub-pixels in the primary colors of red, green, and blue. Many pixels together form an image. When all the sub-pixels of a pixel are lit, the three colored sub-pixels together appear as a single white pixel. When all are dark, the three colored sub-pixels together appear as a single black pixel. Other combinations of lit and dark sub-pixels appear as single pixels of other colors.

Types of Pixel Defects

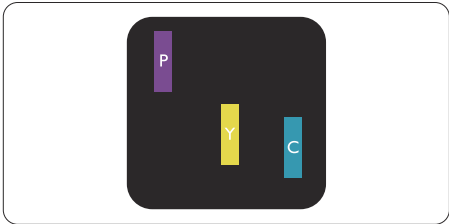
Pixel and sub-pixel defects appear on the screen in different ways. There are two categories of pixel defects and several types of sub-pixel defects within each category.

Bright Dot Defects

Bright dot defects appear as pixels or sub-pixels that are always lit or 'on'. Meaning, a bright dot is a sub-pixel that stands out on the screen when the monitor displays a dark pattern. There are three types of bright dot defects: One lit red, green, or blue sub-pixel.



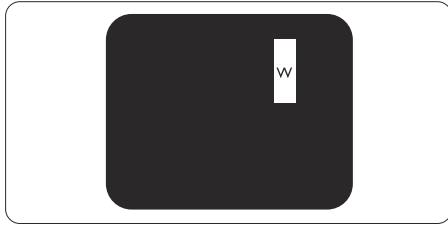
One lit red, green or blue sub pixel.



Two adjacent lit sub-pixels:

- Red + Blue = Purple

- Red + Green = Yellow
- Green + Blue = Cyan (Light Blue)



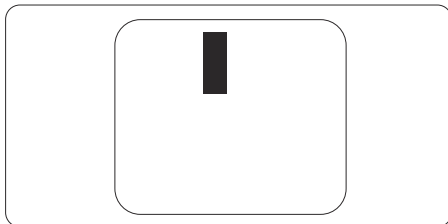
Three adjacent lit sub pixels (one white pixel).

Note

A red or bright blue dot must be more than 50 percent brighter than neighboring dots, while a bright green dot is 30 percent brighter than neighboring dots.

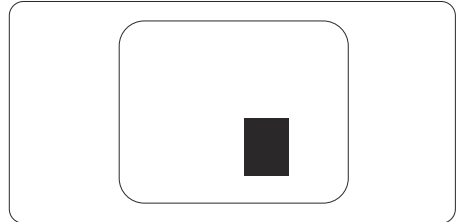
Black Dot Defects

Black dot defects appear as pixels or sub-pixels that are always dark or 'off'. Meaning, a dark dot is a sub-pixel that stands out on the screen when the monitor displays a light pattern. These are the types of black dot defects.



Proximity of Pixel Defects

Because pixel and sub pixels defects of the same type that are near to one another may be more noticeable, Philips also specifies tolerances for the proximity of pixel defects.



Pixel Defect Tolerances

To qualify for repair or replacement due to pixel defects during the warranty period, a TFT Monitor panel in a Philips flat panel monitor must have pixel or sub-pixel defects exceeding the tolerances listed in the following tables.

BRIGHT DOT DEFECTS	ACCEPTABLE LEVEL
1 lit subpixel	2
2 adjacent lit subpixels	1
3 adjacent lit subpixels (one white pixel)	0
Distance between two bright dot defects*	>15mm
Total bright dot defects of all types	2
BLACK DOT DEFECTS	ACCEPTABLE LEVEL
1 dark subpixel	3 or fewer
2 adjacent dark subpixels	2 or fewer
3 adjacent dark subpixels	1
Distance between two black dot defects*	>15mm
Total black dot defects of all types	3 or fewer
TOTAL DOT DEFECTS	ACCEPTABLE LEVEL
Total bright or black dot defects of all types	5 or fewer



Note

1 or 2 adjacent sub pixel defects = 1 dot defect

11.2 Customer Care & Warranty

For warranty coverage information and additional support requirements valid for your region, please visit www.philips.com/support website for details or contact your local Philips Customer Care Center.

For an extended warranty, if you would like to extend your general warranty period, an Out of Warranty service package is offered via our Certified Service Center.

For the Warranty Period please refer to Warranty Statement in the Important information manual.

If you wish to make use of this service, please be sure to purchase the service within 30 calendar days of your original purchase date. During the extended warranty period, the service includes pickup, repair, and return service, however, the user will be responsible for all costs accrued.

If the Certified Service Partner cannot perform the required repairs under the offered extended warranty package, we will find alternative solutions for you, if possible, up to the extended warranty period you have purchased.

Please contact our Philips Customer Service Representative or local contact center (by Consumer care number) for more details.

Philips Customer Care Center number listed below.

• Local Standard Warranty Period	• Extended Warranty Period	• Total Warranty Period
• Depend on different Regions	• + 1 Year	• Local Standard warranty period +1
	• + 2 Years	• Local Standard warranty period +2
	• + 3 Years	• Local Standard warranty period +3

**Proof of original purchase and extended warranty purchase required.

 Note

Please refer to the Important information manual for the regional service hotline, which is available on the Philips website support page.

12. Troubleshooting & FAQs

12.1 Troubleshooting

This page deals with problems that can be corrected by a user. If the problem still persists after you have tried these solutions, contact Philips customer service representative.

1 Common Problems

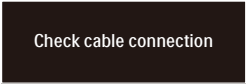
No Picture (Power LED not lit)

- Make sure the power cord is plugged into the power outlet and into the back of the monitor.
- First, ensure that the power button on the front of the monitor is in the OFF position, then press it to the ON position.

No Picture (Power LED is White)

- Make sure the computer is turned on.
- Make sure the signal cable is properly connected to your computer.
- Make sure the display cable has no bent pins on the connect side. If yes, repair or replace the cable.
- The Energy Saving feature may be activated

Screen says



Check cable connection

- Make sure the display cable is properly connected to your computer. (Also refer to the Quick Start Guide).

- Check to see if the display cable has bent pins.
- Make sure the computer is turned on.

Visible signs of smoke or sparks

- Do not perform any troubleshooting steps
- Disconnect the display from mains power source immediately for safety
- Contact with Philips customer service representative immediately.

2 Imaging Problems

Image appears blurred, indistinct or too dark

- Adjust the contrast and brightness on On-Screen Display.

An "after-image", "burn-in" or "ghost image" remains after the power has been turned off.

- Uninterrupted display of still or static images over an extended period may cause "burn in", also known as "after-imaging" or "ghost imaging", on your screen. "Burn-in", "after-imaging", or "ghost imaging" is a well-known phenomenon in LCD panel technology. In most cases, the "Burn-in" or "after-imaging" or "ghost imaging" will disappear gradually over a period of time after the power has been switched off.
- Always activate a moving screen saver program when you leave your display unattended.
- Always activate a periodic screen refresh application if your LCD display will display unchanging static content.
- Failure to activate a screen saver, or a periodic screen refresh application may result in severe "burn-in" or

"after-image" or "ghost image" symptoms that will not disappear and cannot be repaired. The damage mentioned above is not covered under your warranty.

Image appears distorted. Text is fuzzy or blurred.

- Set the PC's display resolution to the same mode as display's recommended screen native resolution.

Green, red, blue, dark, and white dots appears on the screen

- The remaining dots are normal characteristic of the liquid crystal used in today's technology, Please refer the pixel policy for more detail.

* The "power on" light is too strong and is disturbing

- You can adjust "power on" light using the power LED Setup in OSD main Controls.

For further assistance, refer to the Service contact information listed in Important information manual and contact Philips customer service representative.

* [Functionality different according to display.](#)

12.2 General FAQs

Q1: When I install my monitor what should I do if the screen shows 'Cannot display this video mode'?

Ans.: Recommended resolution for this monitor: 1920 x 1080.

- Unplug all cables, then connect your PC to the monitor that you used previously.
- In the Windows Start Menu, select Settings/Control Panel. In the Control Panel Window, select the Display icon. Inside the Display Control Panel, select the 'Settings' tab. Under the setting tab, in box labelled 'desktop area', move the sidebar to 1920 x 1080 pixels.
- Open 'Advanced Properties' and set the Refresh Rate to 60 Hz, then click OK.
- Restart your computer and repeat step 2 and 3 to verify that your PC is set at 1920 x 1080.
- Shut down your computer, disconnect your old monitor and reconnect your Philips LCD monitor.
- Turn on your monitor and then turn on your PC.

Q2: What is the recommended refresh rate for LCD monitor?

Ans.: Recommended refresh rate in LCD monitors is 60 Hz, In case of any disturbance on screen, you can set it up to 75 Hz to see if that removes the disturbance.

Q3: What are the .inf and .icm files? How do I install the drivers (.inf and .icm)?

Ans.: These are the driver files for your monitor. Your computer may ask you for monitor drivers (.inf

and .icm files) when you first install your monitor. Follow the instructions in your user manual, monitor drivers (.inf and .icm files) will be installed automatically.

Q4: How do I adjust the resolution?

Ans.: Your video card/graphic driver and monitor together determine the available resolutions. You can select the desired resolution under Windows® Control Panel with the "Display properties".

Q5: What if I get lost when I am making monitor adjustments via OSD?

Ans.: Simply press /OK button, then select 'Setup' > 'Reset' to recall all of the original factory settings.

Q6: Is the LCD screen resistant to scratches?

Ans.: In general it is recommended that the panel surface is not subjected to excessive shocks and is protected from sharp or blunt objects. When handling the monitor, make sure that there is no pressure or force applied to the panel surface side. This may affect your warranty conditions.

Q7: How should I clean the LCD surface?

Ans.: For normal cleaning, use a clean, soft cloth. For extensive cleaning, please use isopropyl alcohol. Do not use other solvents such as ethyl alcohol, ethanol, acetone, hexane, etc.

Q8: Can I change the color setting of my monitor?

Ans.: Yes, you can change your color setting through OSD control as the following procedures.

- Press "OK" to show the OSD (On Screen Display) menu
- Press "Down Arrow" to select the option "Color" then press "OK" to enter color setting, there are three settings as below.
 1. Color Temperature: The settings are Native, 5000K, 6500K, 7500K, 8200K, 9300K and 11500K. With settings in the 5000K range the panel appears "warm, with a red-white color tone", while a 11500K temperature yields "cool, bluishwhite toning".
 2. sRGB: This is a standard setting for ensuring correct exchange of colors between different device (e.g. digital cameras, monitors, printers, scanners, etc).
 3. User Define: The user can choose his/her preference color setting by adjusting red, green, blue color.



Note

A measurement of the color of light radiated by an object while it is being heated. This measurement is expressed in terms of absolute scale, (degrees Kelvin). Lower Kelvin temperatures such as 2004K are red; higher temperatures such as 9300K are blue. Neutral temperature is white, at 6504K.

Q9: Can I connect my LCD monitor to any PC, workstation or Mac?

Ans.: Yes. All Philips LCD monitors are fully compatible with standard PCs, Macs and workstations.

You may need a cable adapter to connect the monitor to your Mac system. Please contact your Philips sales representative for more information.

Q10: Are Philips LCD monitors Plug-and- Play?

Ans.: Yes, the monitors are Plug-and-Play compatible with Windows 11/10, Mac OSX.

Q11: What is Image Sticking, or Image Burn-in, or After Image, or Ghost Image in LCD panels?

Ans.: Uninterrupted display of still or static images over an extended period may cause "burn-in", also known as "after-imaging" or "ghost imaging", on your screen. "Burn-in", "after-imaging", or "ghost imaging" is a well-known phenomenon in LCD panel technology. In most cases, the "burn-in" or "after-imaging" or "ghost imaging" will disappear gradually over a period of time after the power has been switched off.

Always activate a moving screen saver program when you leave your monitor unattended.

Always activate a periodic screen refresh application if your LCD monitor will display unchanging static content.

Warning

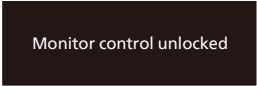
Failure to activate a screen saver, or a periodic screen refresh application may result in severe "burn-in" or "after-image" or "ghost image" symptoms that will not disappear and cannot be repaired. The damage mentioned above is not covered under your warranty.

Q12: Why is my Display not showing sharp text, and is displaying jagged characters?

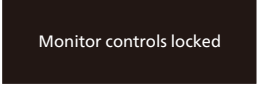
Ans.: Your LCD monitor works best at its native resolution of 1920 x 1080. For best display, please use this resolution.

Q13: How to unlock/lock my hot key?

Ans.: To lock the OSD, press and hold the /OK button while the monitor is off and then press  button to turn the monitor on. To un-lock the OSD, press and hold the /OK button while the monitor is off and then press  button to turn the monitor on.



Monitor control unlocked



Monitor controls locked

Q14: Where can I find Important Information manual mentioned in EDFU?

Ans.: Important Information manual can be download on the Philips website support page.

12.3 Multiview FAQs

Q1: Can I enlarge the PIP sub-window?

Ans.: Yes, there are 3 sizes to select: [Small], [Middle], [Large]. You can press  to enter OSD menu. Select your preferred [PIP Size] option from the [PIP / PBP] main menu.

Q2: How to listen to Audio, independent of a video?

Ans.: Normally the audio source is linked to the main picture source. If you want to change audio-source input, you can press  to enter OSD menu. Select your preferred [Audio Source] option from the [Audio] main menu.

Please note that the next time you turn on your display, the display will by default select the audio source you chose last time. In case you want to change it again, you need to go through the above steps to select your new preferred audio source, which then will become the “default” mode.

Q3: Why the sub-windows flickers when I enable PIP/PBP.

Ans: It's because the sub-windows video source is interlace timing (i-timing), please change sub-window signal source to be progressive timing (P-timing).



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