

Business Monitor

6000 Series



27B2U6903

### <sup>EN</sup> User manual

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. 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% RH~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", "after-imaging" or "ghost imaging" will disappear gradually over some 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.

This equipment is not suitable for use in locations where children are likely to be present.

### **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.

They are used as follows:

### 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 takeback 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 highquality 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

### Package contents



Thunderbolt™ 4

\*Different according to region.

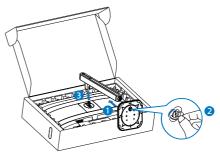
HDMI

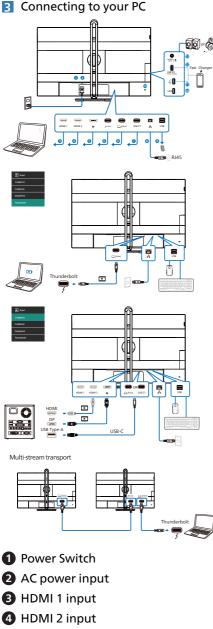
### 2 Install the base

 To well protect this monitor and avoid scratching or damaging of the monitor, keep the monitor face down in the cushion for the base installation.



- 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, and secure the base to the stand tightly.
  - (3) Gently attach the stand to the VESA mount area until the latch locks the stand.





- DisplayPort input
- 6 Thunderbolt<sup>™</sup> 4 input □ f(96W) / Thunderbolt<sup>™</sup> 4 output f(15W)

- Thunderbolt<sup>™</sup> 4 input □/96WI: Video output (ALT mode DP 1.4), PD 96W, data transfer.
- Thunderbolt<sup>™</sup> 4 output ź(15W): PD 15W, downstream.
- Thunderbolt daisy chain: first plug in Thunderbolt input □/(96W), then plug in Thunderbolt output /(15W) for signal output.(Refer to chapter: Daisy-chain function)
- USB C1 upstream
- 8 RJ45 input
- 9 USB downstream
- USB downstream
- USB downstream/USB fast charger
- USB C2(PD 15W, downstream)
- Audio (In/Out): audio out / microphone in combo jack
- 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.
- 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 display has USB ports capable of standard power output including some with USB charging functions (identifiable with power icon ⇐). You can use these ports to charge your Smartphone or power your external HDD, for example. The display 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.

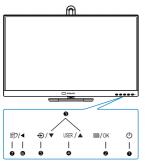
### Warning

USB 2.4Ghz wireless devices, such as wireless mice, keyboards, and headphones, may result in decreased efficiency of radio transmission of USB 3.2 or higher version of 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 or higher version of connection port.
- Use a standard USB extension cable or USB hub to increase the space between your wireless receiver and the USB 3.2 or higher version of connection port.

### 2.2 Operating the monitor

**1** Description of the control buttons



0	ወ	Switch monitor's power ON or OFF.
2	■/OK	Access the OSD menu. Confirm the OSD adjustment.
B		Adjust the OSD menu.
4	USER	User preference key. Customize your own preference function from OSD to become the "user key".
6	Ð	Change the signal input source.
6	•	Return to previous OSD level.
Ð	<b>()</b>	SmartImage hot key. There are multiple modes to select: EasyRead, Office, Photo, Movie, Game, Economy, LowBlue Mode, SmartUniformity, Off.

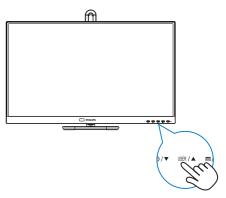
### 2 Customize your own "USER" key

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

🛋 🔊 Audio	Horizontal	Volume
Color	Vertical	MultiView 🗸
Language	Transparency	Brightness
■ OSD Setting →	OSD Time Out	USB-C Setting
USB Setting	User Key 🕨 🕨	PowerSensor
🔅 Setup		
•		

- 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.



### **B** 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 userfriendly OSD interface is shown below:

<b>_</b> ((	PowerSensor	On	√	User
<u>ب</u>	LightSensor	Off		
۲	LowBlue Mode			
€	Input			
	Picture			
	PIP/PBP			
•				

Basic and simple instructions on the control keys

In the OSD shown above, you can press ▼▲ buttons at the front bezel of the monitor to move the cursor, and press OK button to confirm the choice or change.

### 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.

Main menu		menu		
PowerSensor		On Off	_	0, 1, 2, 3, 4, User
- LightSensor		On Off		
LowBlue Mode		On Off	-	1, 2, 3, 4
— Input	E	1 HDMI 2.0 2 HDMI 2.0 DisplayPort Thunderbolt Auto		On, Off
- Picture		Smartimage		EasyRead, Office, Photo, Movie, Game, Economy, LowBlue Mode, SmartUniformity, Off
		Adaptive Sync	_	On Off
		Picture Format	_	Wide screen, 4:3, 1:1
		Brightness		0~100
	L	Contrast		0~100
		Sharpness		0~100
		SmartResponse		Off. Fast. Faster. Fastest
		SmartContrast		On, Off
		Gamma		1.8, 2.0, 2.2, 2.4, 2.6
		Pixel Orbiting		On, Off
		Over Scan		On, Off
- PIP/PBP		PIP / PBP Mode		Off, PIP, PBP
111710		PIP / PBP Input		1 HDMI 2.0, 2 HDMI2.0, DisplayPort, Thunderbolt
		PIP Size		Small, Middle, Large
		PIP Position		Top-Right, Top-Left, Bottom-Right, Bottom-Left
		Swap		
- Audio	_	Volume	_	0~100
		Mute	_	On, Off
	L	Audio Source	_	HDMII, HDMI2, DisplayPort, Thunderbolt
Color	_	Color Temperature	_	Native, 5000K, 6500K, 7500K, 8200K, 9300K, 1150
		sRGB		
	L	User Define		Red: 0~100
				Green: 0~100 Blue: 0~100
- Language	_			λληνική, Français, Italiano, Magyar, Nederlands,
				isil, Polski , <b>Русский</b> , Svenska, Suomi, Türkçe, <u>5. 繁體中文,日本</u> 語,한국어
- OSD Setting		Horizontal		0-100
- OSD Setting		Vertical		0~100
	F	Transparency		Off, 1, 2, 3, 4
	$\vdash$	OSD Time out		5s, 10s, 20s, 30s, 60s
	L	User Key		Volume
			⊢	MultiView
			$\vdash$	Brightness
			1	USB-C Setting
			L_	PowerSensor
- USB Setting		USB-C Setting	_	High Data Speed, High Resolution
	$\vdash$	USB Standby Mode	_	On, Off
	L	KVM	_	Auto, Thunderbolt ,USB C
Setup	_	Power LED	_	0, 1, 2, 3, 4
		Resolution Notification		
		ThunderBolt		HBR2, HBR3
	$\vdash$	Reset		Yes, No
	L	Information		

### 4 Resolution notification

This monitor is designed for optimal performance at its native resolution: 3840 x 2160.

When the monitor is powered on at a different resolution, an alert is displayed on the screen as follows: Use 3840 x 2160 for best results.

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

### Note

- 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 3840 x 2160 @60Hz.Press button > USB Setting > USB > High Resolution
- 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



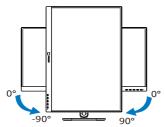
### Swivel



### 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.

### 2.3 MultiClient Integrated KVM

### 1 What is it?

With the Multiclient Integrated Keyboard Video Mouse (KVM) switch feature, it is possible to control two separate PCs with a one monitor/ keyboard/mouse setup.

2 How to Enable Multiclient Integrated KVM

With the built-in Multiclient Integrated KVM feature, it's easy to switch between each connected device via the On-Screen Display (OSD) menu setting. For the use of Thunderbolt input  $\Box_{f^{(96W)}}$ , HDMI and/or DP as input, use the USB-C cable in the direction of USB Upstream.

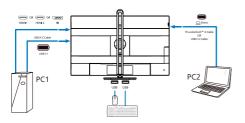
Then, connect the upstream cables from your PC to the Thunderbolt input  $\Box$ /<sup>(96W)</sup> and USB C1 ports located on the monitor. This process for each PC can be done simultaneously. Please refer to the table and graphic below for more information.

This table explains each source to its corresponding ports on the monitor.

Source	USB Upstream
HDMI or DP	USB C1
Thunderbolt input	Thunderbolt input
<u></u> ,(96W)	<u> </u> , <b>∕</b> (96W)

A Step-by-Step procedure:

 Connect each cord from the corresponding ports on the monitor, as mentioned in the table above, connect to each PC.



 Enter the On-Screen Display (OSD) menu. Go to the KVM tab and select "Auto", "Thunderbolt", or "USB C" to switch the monitor view from one device to another. To switch to another monitor view, simply repeat this step.

	Audio	USB-C Setting	Auto 🗸
	Color	USB Standby Mode	Thunderbolt
	Language	кум 🕨	USB C
•*	OSD Setting		
B	USB Setting		
۵	Setup		
•			

 Go to the KVM tab and select "Auto", the KVM Smart function can be used.

Users are now able to switch between sources more easily with the latest Smart KVM feature. To move sources, simply click the "ctrl" three times. It would be also available for swapping the Main Picture and the Sub Picture on PIP with Smart KVM.

If you would like to use a DP and/or HDMI cord to input into your device, use the Thunderbolt input  $\Box_{f^{(96W)}}$  and USB C1 ports with the USB cord being in direction USB upstream.

Please check out the following steps for adjusting the settings for HDMI/DP usage:

 Connect the USB cable upstream from the PC(s) to the "Thunderbolt input □/96W" and "USB C1" ports of this monitor. This procedure can be done at the same time, if desired.

The dual PC setup should look like this:

PC1: You can use a USB-C/A cable in direction upstream and a HDMI cable or a DP cable and connect

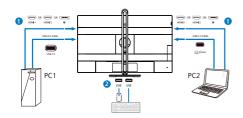
it to the HDMI or DP port on the monitor for viewing video and audio content.

PC2: You can use a USB-C/A cable in direction upstream and a HDMI cable or a DP cable and connect it to the HDMI or DP port on the monitor for viewing video and audio content.

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

Source	USB Upstream
HDMI or DP	USB C1
DP or HDMI	Thunderbolt input 🖵 🕫 🕬

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



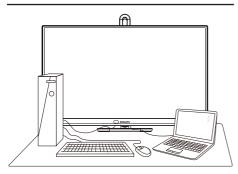
 Go to the On-Screen Display (OSD) menu and follow the same procedure with the KVM feature as #2 in the previous section.

Note

- Please note that the connection of the input source is not automatic and it is necessary to go to the On-Screen Display (OSD) to select the input you are using.
- You can also ads Multiclient Integrated KVM feature in Pictureby-Picture (PBP) mode. When you enable PBP, you are able to view two different sources projected onto the same screen. The MultiClient Integrated KVM feature enhances productivity by using one screen to

control two PCs via the On-Screen Display (OSD) menu setting.

### 2.4 MultiView



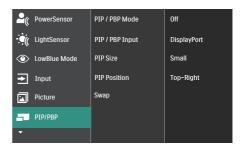
### 1 What is it?

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?

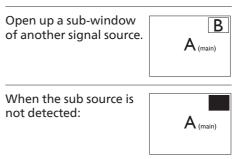
With the ultra-high-resolution Philips MultiView display, you can comfortably experience a world of connectivity in the office or at home. With this display, you can conveniently enjoy multiple content sources on one screen. For example, You may want to keep an eye on the live news video feed with audio 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?
- Press button on the front bezel to enter OSD Menu Screen.



- 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.
- Press ▲ or ▼ button to select [PIP] or [PBP].
- 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



### [PBP]: Picture by Picture

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

$A_{(main)}$	В
--------------	---

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 fullscreen, adjust your device's resolutions to pop-up attention resolution and you will 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 PBP mode.

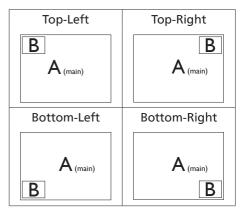
Please refer to the table below for compatibility of the main/sub-input source.

★→/		SUB SOURCE POSSIBILITY (xl)			
<b>Multi</b> View	Inputs	HDMI 1	HDMI 2	DisplayPort	Thunderbolt <sup>™</sup> 4
MAAINI	HDMI 1	٠	٠	•	•
MAIN SOURCE	HDMI 2	•	•	•	•
(xl)	DisplayPort	٠	•	•	•
(XI)	Thunderbolt <sup>™</sup> 4	٠	•	•	•

• **PIP Size**: When PIP is activated, there are three sub-window sizes to choose from [**Small**], [**Middle**], and [**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 display 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. Then lift the monitor stand.



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



 Press both corners of the VESA Cover and the other side of the cover will pop out.

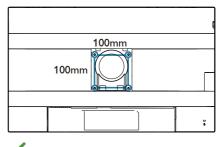


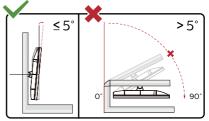
4. Loosen the assembly screws, Remove the hinge.



### Note

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





\* Display design may differ from those illustrated in this manual.

### 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.

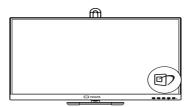
### 2 Why do I need it?

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 realtime 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 the scenario you select, SmartImage dynamically enhances the contrast, color saturation, and sharpness of images to enhance the contents being displayed - all in real time by the press of a single button.

### 4 How to enable SmartImage?



1. Press <sup>I</sup> to launch the SmartImage on-screen display.

- Keep pressing ▼▲ to toggle among EasyRead, Office, Photo, Movie, Game, Economy, SmartUniformity and Off.
- 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, LowBlue Mode, SmartUniformity and Off.

SmartImage
EasyRead
Office
Photo
Movie
Game
Economy
LowBlue Mode
SmartUniformity
Off

- EasyRead: Helps improve reading of text-based applications like PDF ebooks. By using a special algorithm that 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 detail in darker areas of your videos without experiencing color washout.
- 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 and contrast are adjusted and backlighting is fine-tuned to produce the right display for everyday office applications.
- LowBlue Mode: LowBlue Mode for easy on-the-eyes productivity Studies have shown that just as ultraviolet rays can cause eye damage, shortwave length blue light rays from LED displays can cause eye damage and affect vision over time. Developed for wellbeing, Philips LowBlue Mode setting uses a smart software technology to reduce harmful shortwave blue light.
- SmartUniformity: Fluctuations in brightness and color on different parts of a screen are a common phenomenon among LCD monitors. Typical uniformity is measured around 75-80%. By enabling Philips SmartUniformity feature, display uniformity is increased to above

95%. This produces more consistent and true images.

• Off: No optimization by SmartImage.

### Note

Philips LowBlue mode, mode 2 compliance with TUV eyesafe, you can have this mode by simply press the hotkey ☑?, then press ▲ to select LowBlue Mode, see above SmartImage selection steps.

### 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?



- Press ▲ or ▼ button to select main menu [LightSensor], then press button OK.
- Press ▲ or ▼ button to turn on or off the LightSensor.

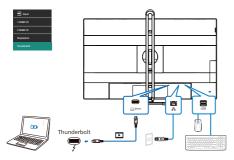
### 4. Thunderbolt™ docking display introduction

Philips Thunderbolt<sup>™</sup> docking monitors deliver universal port replication, for a simple, clutter-free, notebook connection.

Securely connect to networks, transmit data, video and audio from laptop only using a single cable.

### 4.1 Docking through Thunderbolt™ 4

- Connect the Thunderbolt<sup>™</sup> 4 cable to the Thunderbolt input □/(96W) port on the monitor and to your PC. It can transmit video, audio, data, network, power through Thunderbolt<sup>™</sup> cable.
- 2. Press ⊕ at the rear of the monitor to enter input menu screen.
- 3. Press ▲ or ▼ button to select [Thunderbolt].



### Note

When connect your monitor to the PC with Thunderbolt or USB C-A cable, your monitor screen probably show as the extend screen. To call out the main screen on your monitor, hold the

Windows key 📲 and press P twice.

(Windows key + P + P) If you still cannot see the main screen on your monitor, hold the Windows key and and

press P. All your options pop-up on the right side, then select "PC screen only" or "Duplicated".

### 5. 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 measurment 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.
  - LowBlue mode: Blue light may cause eye strains. Philips LowBlue mode allows you to set different blue light filter levels for variety working situation.
  - EasyRead mode for a paperlike reading experience, giving a more comfortable viewing experience while dealing with long documents on the screen.

### Note

- Meaning of "low blue light content": In the User Manual the meaning of "Low blue light content" has to be explained by the manufacturer to the end-user.
- Health recommendations: The user manual (either paper or electronic/ online) shall remind the user to follow national Safety & Health recommendations in regards to eye strain.
- "Low blue light content" modes: The display can support more than one 'low blue light content' mode. It shall be clearly described in the user manual which mode or modes are 'low blue light content' modes and

which are not; and how to set the display to these modes.

• Port used1.1.1.5: In case the port used for 'low blue light' mode differs from the port used for testing, the user manual shall describe which port shall be use.

### 6. 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 80 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"

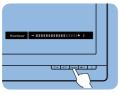
If you prefer to be in a position outside the detection zone listed above, you can choose a higher strength signal for optimal operating efficiency: The higher the setting, the stronger the detection signal. For maximum PowerSensor efficiency and proper detection, please position yourself directly in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

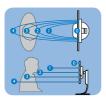
- If you choose to position yourself more than 100 cm or 40 inches from the monitor, use signal setting 4 detection signal (120cm/40in).
- Since some dark-colored clothing tends to absorb infrared signals, even when the user is within 100 cm or 40 inches of the display, it is important to step up the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

### Hot key

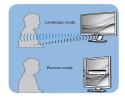
## (for selected models only)

### Sensor distance





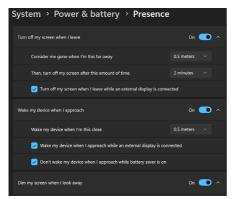
### Landscape/Portrait mode



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.

PowerSensor 🔸	On 🕨	0 🗸
LightSensor	Off	1
➡ Input		2
Picture		3
PIP/PBP		4
🛋 💓 Audio		User
•		

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

### Note

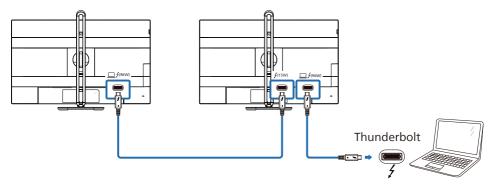
- A manually selected PowerSensor mode will remain operational unless and until it is readjusted. If you find that the PowerSensor is excessively sensitive to nearby motion, please adjust to a lower signal strength. Keep the sensor lens clean. If the sensor lens is dirty, wipe it with alcohol to avoid 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.

### 7. Daisy-chain function

Thunderbolt<sup>™</sup> 4 supports Daisy Chain. If your laptop /Desktop/Display Monitor supports Thunderbolt<sup>™</sup> 4, you can use Thunderbolt<sup>™</sup> 4 for multi-screen connections (Daisy Chain).

To daisy-chain monitors, first to check below:

- 1. Connect the Thunderbolt<sup>™</sup> 4 cable to the Thunderbolt input □<sup>f(96W)</sup> port on the first monitor and to your PC.
- 2. Connect an another cable to the Thunderbolt output <sup>f</sup>(15W)</sup> port on the first monitor , and Thunderbolt input □<sup>f(95W)</sup> port on the secondary monitor.



Thunderbolt 4 input	Link Rate*1	Maximum number of external monitors that can be supported	Thunderbolt 4 Output
3840 x 2160 @ 60Hz	HBR3	1	3840 x 2160 @ 60Hz(HBR3), 8bits

### Note

• The maximum number of connectible monitors may vary depending on GPU performance.

### 8. Adaptive Sync



PC gaming has long had 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 is 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. Therefore, this feature leaves gamers with unbelievably smooth, responsive, tearing-free gaming.

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

### 9. Technical Specifications

Initial StateIPSDisplay Panel TypeIPSBacklightW-LEDPanel Size $27"$ W (68.6 cm)Aspect Ratio16.9Pixel Pitch0.1554 (H) mm x 0.1554 (V) mmContrast ratio(typical)1000:1Native Resolution3840 x 2160 @60HzMaximum Resolution3840 x 2160 @60HzViewing Angle178° (H) / 178° (V) @ C/R > 10 (Typ.)Picture EnhancementSmartImageDisplay Colors1.07B (8bits+Hi-FRC) <sup>1</sup> Vertical Refresh Rate23 Hz - 75 HzHorizontal Frequency30 kHz - 140 kHzSRGBYESSmartUniformityYESDelta EYESLowBlue ModeYESAdaptive SyncYESOver-the-air firmware updateYESSignal Input sourceHDMI, DisplayPort, Thunderbolt <sup>TM</sup> 4 □/9990Connectors2 x HDMI 2.0 (HDCP 1.4, HDCP 2.2) 1 x USB-C1 (upstream) 1 x USB-C2 (downstream) 1 x USB-C2 (downstream) 1 x KJS-5C1 (upstream) 1 x KJS-5C1	Picture/Display	
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sRGB   YES     SmartUniformity   YES     Delta E   YES     EasyRead   YES     Flicker Free   YES     LowBlue Mode   YES     Adaptive Sync   YES     Over-the-air firmware update   YES     Connectivity   YES     Signal Input source   HDMI, DisplayPort, Thunderbolt <sup>™</sup> 4 □ freen     YES   2 x HDMI 2.0 (HDCP 1.4, HDCP 2.2)     1 x DisplayPort 1.4 (HDCP 1.4, HDCP 2.2)   2 x Thunderbolt <sup>™</sup> 4 (Thunderbolt input x1, Thunderbolt output x1, HDCP 1.4, HDCP 2.2)     2 x Thunderbolt <sup>™</sup> 4 (Chunderbolt input x1, Thunderbolt output x1, HDCP 1.4, HDCP 2.2)   1 x USB-C2 (downstream)     1 x USB-C2 (downstream)   1 x USB-C2 (downstream)     1 x USB-A (downstream)   1 x Audio (In/Out): audio out / microphone in combo jack <sup>2</sup> Signal output   Thunderbolt <sup>™</sup> 4 fristing (Refer to Daisy-chain function)		
SmartUniformityYESDelta EYESEasyReadYESFlicker FreeYESLowBlue ModeYESAdaptive SyncYESOver-the-air firmware updateYESConnectivitySignal Input sourceHDMI, DisplayPort, Thunderbolt <sup>TM</sup> 4 $\f^{(000)}$ 2 x HDMI 2.0 (HDCP 1.4, HDCP 2.2) 1 x DisplayPort 1.4 (HDCP 1.4, HDCP 2.2) 2 x Thunderbolt <sup>TM</sup> 4 (Thunderbolt input x1, Thunderbolt 		
Delta EYESEasyReadYESFlicker FreeYESLowBlue ModeYESAdaptive SyncYESOver-the-air firmware updateYESConnectivitySignal Input sourceHDMI, DisplayPort, Thunderbolt <sup>™</sup> 4 □ f(95M)2 x HDMI 2.0 (HDCP 1.4, HDCP 2.2) 1 x DisplayPort 1.4 (HDCP 1.4, HDCP 2.2) 2 x Thunderbolt <sup>™</sup> 4 (Thunderbolt input x1, Thunderbolt output x1, HDCP 1.4, HDCP 2.2) 1 x USB-C1 (upstream) 1 x USB-C2 (downstream) 4 x USB-A (downstream) 1 x RJ45,Ethernet LAN (USB 2.0: 10M/100M; USB 3.2: 2.5G) 1 x Audio (In/Out): audio out / microphone in combo jack²Signal outputThunderbolt <sup>™</sup> 4 f(15M) (Refer to Daisy-chain function)		YES
Flicker FreeYESLowBlue ModeYESAdaptive SyncYESOver-the-air firmware updateYESConnectivityYESSignal Input sourceHDMI, DisplayPort, Thunderbolt <sup>™</sup> 4 □ / (900)2 x HDMI 2.0 (HDCP 1.4, HDCP 2.2) 1 x DisplayPort 1.4 (HDCP 1.4, HDCP 2.2) 2 x Thunderbolt <sup>™</sup> 4 (Thunderbolt input x1, Thunderbolt output x1, HDCP 1.4, HDCP 2.2) 1 x USB-C1 (upstream) 1 x USB-C2 (downstream) 1 x RJ45,Ethernet LAN (USB 2.0: 10M/100M; USB 3.2: 2.5G) 1 x Audio (In/Out): audio out / microphone in combo jack²Signal outputThunderbolt <sup>™</sup> 4 /(15W) (Refer to Daisy-chain function)	-	YES
Flicker FreeYESLowBlue ModeYESAdaptive SyncYESOver-the-air firmware updateYESConnectivityYESSignal Input sourceHDMI, DisplayPort, Thunderbolt <sup>™</sup> 4 □ / (900)2 x HDMI 2.0 (HDCP 1.4, HDCP 2.2) 1 x DisplayPort 1.4 (HDCP 1.4, HDCP 2.2) 2 x Thunderbolt <sup>™</sup> 4 (Thunderbolt input x1, Thunderbolt output x1, HDCP 1.4, HDCP 2.2) 1 x USB-C1 (upstream) 1 x USB-C2 (downstream) 1 x RJ45,Ethernet LAN (USB 2.0: 10M/100M; USB 3.2: 2.5G) 1 x Audio (In/Out): audio out / microphone in combo jack²Signal outputThunderbolt <sup>™</sup> 4 /(15W) (Refer to Daisy-chain function)	EasyRead	YES
LowBlue ModeYESAdaptive SyncYESOver-the-air firmware updateYESConnectivitySignal Input sourceHDMI, DisplayPort, Thunderbolt <sup>™</sup> 4 □ƒ(96W)2 x HDMI 2.0 (HDCP 1.4, HDCP 2.2) 1 x DisplayPort 1.4 (HDCP 1.4, HDCP 2.2) 2 x Thunderbolt <sup>™</sup> 4 (Thunderbolt input x1, Thunderbolt output x1, HDCP 1.4, HDCP 2.2) 1 x USB-C1 (upstream) 1 x USB-C2 (downstream) 4 x USB-A (downstream) 1 x RJ45,Ethernet LAN (USB 2.0: 10M/100M; USB 3.2: 2.5G) 1 x Audio (In/Out): audio out / microphone in combo jack²Signal outputThunderbolt <sup>™</sup> 4 ƒ(15W) (Refer to Daisy-chain function)		YES
Adaptive SyncYESOver-the-air firmware updateYESConnectivityHDMI, DisplayPort, Thunderbolt <sup>™</sup> 4 □ ƒ(9600)Signal Input sourceHDMI, DisplayPort, Thunderbolt <sup>™</sup> 4 □ ƒ(9600)2 x HDMI 2.0 (HDCP 1.4, HDCP 2.2) 1 x DisplayPort 1.4 (HDCP 1.4, HDCP 2.2) 2 x Thunderbolt <sup>™</sup> 4 (Thunderbolt input x1, Thunderbolt output x1, HDCP 1.4, HDCP 2.2) 1 x USB-C1 (upstream) 1 x USB-C2 (downstream) 4 x USB-A (downstream) 1 x RJ45,Ethernet LAN (USB 2.0: 10M/100M; USB 3.2: 2.5G) 1 x Audio (In/Out): audio out / microphone in combo jack <sup>2</sup> Signal outputThunderbolt <sup>™</sup> 4 ƒ(1500) (Refer to Daisy-chain function)		
Over-the-air firmware updateYESConnectivityHDMI, DisplayPort, Thunderbolt <sup>TM</sup> 4 $\{f'06W}$ Signal Input sourceHDMI, DisplayPort, Thunderbolt <sup>TM</sup> 4 $\{f'06W}$ 2 x HDMI 2.0 (HDCP 1.4, HDCP 2.2) 1 x DisplayPort 1.4 (HDCP 1.4, HDCP 2.2) 2 x Thunderbolt <sup>TM</sup> 4 (Thunderbolt input x1, Thunderbolt output x1, HDCP 1.4, HDCP 2.2) 1 x USB-C1 (upstream) 1 x USB-C2 (downstream) 4 x USB-A (downstream) 1 x RJ45,Ethernet LAN (USB 2.0: 10M/100M; USB 3.2: 2.5G) 1 x Audio (In/Out): audio out / microphone in combo jack <sup>2</sup> Signal outputThunderbolt <sup>TM</sup> 4 $f_{(15W)}$ (Refer to Daisy-chain function)		YES
Connectivity     Signal Input source   HDMI, DisplayPort, Thunderbolt <sup>™</sup> 4 □ / (96W)     2 x HDMI 2.0 (HDCP 1.4, HDCP 2.2)   1 x DisplayPort 1.4 (HDCP 1.4, HDCP 2.2)     2 x Thunderbolt <sup>™</sup> 4 (Thunderbolt input x1, Thunderbolt output x1, HDCP 1.4, HDCP 2.2)   1 x USB-C1 (upstream)     1 x USB-C1 (upstream)   1 x USB-C2 (downstream)     4 x USB-A (downstream)   1 x RJ45,Ethernet LAN (USB 2.0: 10M/100M; USB 3.2: 2.5G)     1 x Audio (In/Out): audio out / microphone in combo jack <sup>2</sup> Signal output   Thunderbolt <sup>™</sup> 4 /(15W)     (Refer to Daisy-chain function)	Over-the-air firmware	YES
Signal Input sourceHDMI, DisplayPort, Thunderbolt <sup>™</sup> 4 □ / (96W)2 x HDMI 2.0 (HDCP 1.4, HDCP 2.2) 1 x DisplayPort 1.4 (HDCP 1.4, HDCP 2.2) 2 x Thunderbolt <sup>™</sup> 4 (Thunderbolt input x1, Thunderbolt output x1, HDCP 1.4, HDCP 2.2) 1 x USB-C1 (upstream) 1 x USB-C2 (downstream) 4 x USB-A (downstream) 1 x RJ45,Ethernet LAN (USB 2.0: 10M/100M; USB 3.2: 2.5G) 1 x Audio (In/Out): audio out / microphone in combo jack <sup>2</sup> Signal outputThunderbolt <sup>™</sup> 4 / (15W) (Refer to Daisy-chain function)		
Signal output $2 \times HDMI 2.0 (HDCP 1.4, HDCP 2.2)$ 1 x DisplayPort 1.4 (HDCP 1.4, HDCP 2.2) 2 x Thunderbolt <sup>TM</sup> 4 (Thunderbolt input x1, Thunderbolt output x1, HDCP 1.4, HDCP 2.2) 1 x USB-C1 (upstream) 1 x USB-C2 (downstream) 4 x USB-A (downstream) 1 x RJ45,Ethernet LAN (USB 2.0: 10M/100M; USB 3.2: 2.5G) 1 x Audio (In/Out): audio out / microphone in combo jack <sup>2</sup> Signal outputThunderbolt <sup>TM</sup> 4 f(15W) (Refer to Daisy-chain function)		
1 x DisplayPort 1.4 (HDCP 1.4, HDCP 2.2) 2 x Thunderbolt <sup>TM</sup> 4 (Thunderbolt input x1, Thunderbolt output x1, HDCP 1.4, HDCP 2.2) 1 x USB-C1 (upstream) 1 x USB-C2 (downstream) 4 x USB-A (downstream) 1 x RJ45,Ethernet LAN (USB 2.0: 10M/100M; USB 3.2: 2.5G) 1 x Audio (In/Out): audio out / microphone in combo jack²Signal outputThunderbolt <sup>TM</sup> 4 ½(15W) (Refer to Daisy-chain function)	Signal Input source	HDMI, DisplayPort, Thunderbolt <sup>™</sup> 4 <u>□</u> ⁄(96W)
4 x USB-A (downstream)     1 x RJ45,Ethernet LAN (USB 2.0: 10M/100M; USB 3.2:     2.5G)     1 x Audio (In/Out): audio out / microphone in combo jack <sup>2</sup> Signal output   Thunderbolt <sup>TM</sup> 4 ź(15W) (Refer to Daisy-chain function)		1 x DisplayPort 1.4 (HDCP 1.4, HDCP 2.2) 2 x Thunderbolt <sup>™</sup> 4 (Thunderbolt input x1, Thunderbolt output x1, HDCP 1.4, HDCP 2.2)
(Refer to Daisy-chain function)	Connectors	1 x USB-C2 (downstream) 4 x USB-A (downstream) 1 x RJ45,Ethernet LAN (USB 2.0: 10M/100M; USB 3.2: 2.5G) 1 x Audio (In/Out): audio out / microphone in combo
Sync input Separate Sync	Signal output	
	Sync input	Separate Sync

USB						
Thunderbolt™	Thunderbolt <sup>™</sup> 4 (input) (upstream, DisplayPort Alt mode, HDCP 2.2/ HDCP 1.4, PD 96W) Thunderbolt <sup>™</sup> 4 (output) (downstream, PD 15W)					
USB Ports		ream, PD 15W) <sup>₄</sup> eam with x1 fast cha	<b>.</b> .			
Power Delivery	96W (5V/3A, 7V/3. 20V/4.8A) <sup>5</sup> ThunderboltTM 4 ( (5V/3A) USBC2: USB PD vers	nput): USB PD version A, 9V/3A, 10V/3A, 1 output): Power supp sion 3.0, up to 15W ( ge B.C 1.2, up to 7.5 <sup>1</sup>	2V/3A, 15V/3A, oly up to 15W (5V/3A) <sup>4</sup>			
USB SuperSpeed	USB-C/USB-A: USB	3.2 Gen2, 10 Gbps				
Convenience						
USER convenience	@⊅/◀ -⊕/▼ ૫૬	Ser / ▲ 🗐 / OK 🛛 🕻	り			
Built-in speaker	3 W x 2					
MultiView	PIP/PBP mode, 2×c	levices				
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), Kensingtor	n Lock			
Plug & Play Compatibility	DDC/CI, Mac OS X, sRGB, Windows 11/10					
Stand						
Tilt	-5 / +30 degree					
Swivel	-180 / +180 degree	2				
Height adjustment	150 mm					
Pivot	-90 / +90 degree					
Power						
Consumption	AC Input Voltage at 100VAC , 50Hz	AC Input Voltage at 115VAC , 60Hz	AC Input Voltage at 230VAC , 50Hz			
Normal Operation	33.3 W (typ.)	33.3 W (typ.)	32.5 W (typ.)			
Sleep (Standby mode)	0.45 W(typ.)	0.45 W(typ.)	0.45 W(typ.)			
Off mode	0.40 W(typ.)	0.40 W(typ.)	0.40 W(typ.)			
Off mode(AC switch)	0 W(typ.)	0 W(typ.)	0 W(typ.)			
Heat Dissipation*	AC Input Voltage at 100VAC , 50Hz	AC Input Voltage at 115VAC , 60Hz	AC Input Voltage at 230VAC , 50Hz			

Normal Operation	113.65 BTU/hr (typ.)	113.65 BTU/hr (typ.)	110.92 BTU/hr (typ.)				
Sleep (Standby mode)	1.54 BTU/hr(typ.)	1.54 BTU/hr(typ.)	1.54 BTU/ hr(typ.)				
Off mode	1.37 BTU/hr(typ.)	1.37 BTU/hr(typ.)	1.37 BTU/ hr(typ.)				
Off mode(AC switch)	0 BTU/hr(typ.)	0 BTU/hr(typ.)	0 BTU/hr(typ.)				
On Mode(ECO mode)	20.9 W (typ.)						
PowerSensor	8.5 W (typ.)						
Power LED indicator		tandby/Sleep mode:	White (blinking)				
Power Supply	Built-in, 100-240V	AC, 50/60Hz					
Dimensions							
Product with stand (WxHxD)	614 x 543 x 235 mr	n					
Product without stand (WxHxD)	614 x 371 x 66 mm						
Product with packaging (WxHxD)	730 x 445 x 139 mr	n					
Weight							
Product with stand	7.28 kg						
Product without stand	5.54 kg						
Product with packaging	10.01 kg						
Operating Condition							
Temperature range (operation)	0°C to 40 °C						
Relative humidity (operation)	20% to 80%						
Atmospheric pressure (operation)	700 to 1060hPa	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	y						
ROHS	YES						
Packaging	100% recyclable						
Specific Substances	100% PVC BFR free	e housing					
Cabinet							
Color	Charcoal/Silver						
Finish	Texture						

- <sup>1</sup> For more information, please refer to Chapter 9.1 on Display Input Format.
- <sup>2</sup> The headset also supports a microphone which comply CTIA and OMTP standard.
- <sup>3</sup> The USB-C1 port provides upstream data transfer only.
- <sup>4</sup> The USB-C2 port provides downstream and 15W of power.
- <sup>5</sup> The Thunderbolt port provides data, video transfer, and power delivery 96W (typical) up to 100W depending on the device.

### 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. SmartUniformity and Delta E information are included in the sheets located in the box.
- 4. 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	720x400	70.09
31.47	640x480	59.94
35.00	640x480	66.67
37.86	640x480	72.81
37.50	640x480	75.00
35.16	800x600	56.25
37.88	800x600	60.32
48.08	800x600	72.19
46.88	800x600	75.00
47.73	832x624	74.55
48.36	1024x768	60.00
56.48	1024x768	70.07
60.02	1024x768	75.03
44.77	1280x720	59.86
60.00	1280x960	60.00
63.89	1280x1024	60.02
79.98	1280x1024	75.03
55.94	1440x900	59.89
67.50	1920x1080	60.00
132.59	1920x2160 PBP mode	59.99
88.78	2560x1440	59.95
65.67	3840x2160	29.98
133.31	3840x2160	60.00

### Note

 Please notice that your display works best at native resolution of 3840 x 2160 @ 60Hz. For best display quality, please follow this resolution recommendation. Recommended resolution HDMI 2.0/ DP/Thunderbolt<sup>™</sup> 4:3840 x 2160 @ 60Hz If your display is not on the native resolution when connecting to Thunderbolt<sup>™</sup> 4 or DP port, please adjust resolution to the optimal state: 3840 x 2160 @60 Hz from your PC.

- 2. The factory default setting HDMI supports to the resolution 3840 x 2160 @ 60Hz.
- The USB hub default setting of Thunderbolt<sup>™</sup> 4/USB C1 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.Press button > USB Setting > USB > High Resolution.Display Input Format.

#### Video Timing

V. freq (Hz)
59.94/60Hz 4:3
50Hz 16:9
59.94/60Hz 16:9
59.94/60Hz 16:9
59.94/60Hz 16:9
60Hz 16:9 (HDMI)
50Hz 16:9 (HDMI)

### Video Bandwidth

Host	Video Cable	Resolution
	USB-C Gen1 Cable	
USB-C (Alt Mode DP1.2)	Thunderbolt <sup>™</sup> 3 Cable (40G)	3840x2160@60Hz
	Thunderbolt <sup>™</sup> 4 Cable (40G)	
	USB-C Gen1 Cable	
USB-C (Alt Mode DP1.4)	Thunderbolt <sup>™</sup> 3 Cable (40G)	3840x2160@60Hz with HDR
(All Mode Dr 1.4)	Thunderbolt <sup>™</sup> 4 Cable (40G)	
Thunderbolt <sup>™</sup> 3/	USB-C Gen1 Cable	
Thunderbolt <sup>™</sup> 4	Thunderbolt <sup>™</sup> 3 Cable (40G)	3840x2160@60Hz
(Alt Mode DP1.2)	Thunderbolt <sup>™</sup> 4 Cable (40G)	
Thunderbolt <sup>™</sup> 3/	USB-C Gen1 Cable	
Thunderbolt <sup>™</sup> 4	Thunderbolt <sup>™</sup> 3 Cable (40G)	3840x2160@60Hz with HDR
(Alt Mode DP1.4)	Thunderbolt <sup>™</sup> 4 Cable (40G)	
HDMI 2.0	HDMI 2.0 cable	3840x2160@60Hz with HDR
DisplayPort	DP 1.2 cable	3840x2160@60Hz
DisplayPort	DP 1.4 cable	3840x2160@60Hz with HDR

### Note

## In order for the monitor to function properly with 3840 x 2160@60Hz 10 bits, your PC's graphics card must support Display Stream Compression (DSC).

### **Display Input Format**

	HDMI2.0		DP	1.4	TBT4	
	422/420	444/RGB	422/420	444/RGB	422/420	444/RGB
3840x2160 60Hz 10bits	OK	NA	OK	OK	OK	OK
3840x2160 60Hz 8bits	ОК	OK	OK	ОК	ОК	OK
3840x2160 30Hz 10bits	OK	NA	OK	ОК	ОК	OK
3840x2160 30Hz 8bits	ОК	OK	OK	OK	ОК	OK
lower resolutions 8bits/ 10bits	ОК	ОК	ОК	ОК	ОК	ОК

### Note

In order for the monitor to function properly, your PC's graphics card must support the following: DisplayPort 1.4 or ThunderboltTM 4 with Display Stream Compression (DSC)

### 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:

Ρον	Power Management Definition							
VESA Mode	Video	H-sync	V-sync	Power Used	LED Color			
Active	ON	Yes	Yes	33.3 W (typ.) 248.5 W (max.)	White			
Sleep (Standby mode)	OFF	No	No	0.45 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: 3840 x 2160
- Contrast: 50%
- Brightness: 70%
- Color temperature: 6500k with full white pattern
- Audio and USB Inactive (Off)

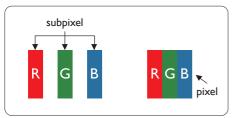
### Note

This data is subject to change without notice.

# 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 subpixels 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

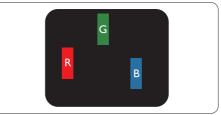
A pixel, or picture element, is composed of three sub-pixels in the primary colors of red, green, and blue. Many pixels together form an image. When all the sub-pixels of a pixel are lit, the three colored sub-pixels together appear as a single white pixel. When all are dark, the three colored sub-pixels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

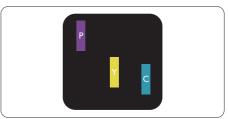
Pixel and sub-pixel defects appear on the screen in different ways. There are two categories of pixel defects and several types of sub-pixel defects within each category.

### **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.

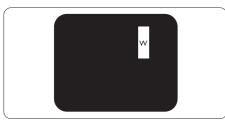


One lit red, green or blue sub pixel.



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

Ā 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.

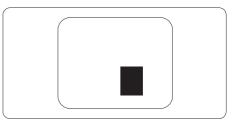
### Black Dot Defects

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

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.

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.

•	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

Philips Customer Care Center number listed below.

\*\*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 persists after you have tried these solutions, contact a 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 the back of the monitor.
- First, ensure that the power button on the front of the display 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 monitor cable has no bent pins on the connecting 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 monitor from the mains power source immediately for safety
- Contact Philips customer service representative immediately.

### 2 Imaging Problems

The 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" "after-imaging" or "ghost imaging" will disappear gradually over some 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", "after-imaging" or "ghost imaging"

symptoms that will not disappear and cannot be repaired. The damage mentioned above is not covered under your warranty.

The image appears distorted or the text is fuzzy or blurred.

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

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

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

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

• You can adjust the "power on" light using the power LED Setup in OSD Main Controls.

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

\* Functionality is different according to display.

### 12.2 General FAQs

- Q1: When I install my display what should I do if the screen shows 'Cannot display this video mode'?
- Ans.: Recommended resolution for this display: 3840 x 2160.
- Unplug all cables, then connect your PC to the display 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 the box labeled 'desktop area', move the sidebar to 3840 x 2160 pixels.

- Open 'Advanced Properties' and set the Refresh Rate to 60 Hz, then click OK.
- Restart your computer and repeat steps 2 and 3 to verify that your PC is set at 3840 x 2160.
- Shut down your computer, disconnect your old monitor, and reconnect your Philips LCD monitor.
- Turn on your display and then turn on your PC.
- Q2: What is the recommended refresh rate for an LCD monitor?
- Ans.: Recommended refresh rate in LCD monitors is 60 Hz, In case of any disturbance on the screen, you can set it up to 165 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, and monitor drivers (.inf and .icm files) will be installed automatically.
- Q4: How do I adjust the resolution?
- Ans.: Your video card/graphic driver and display together determine the available resolutions. You can select the desired resolution under Windows<sup>®</sup> Control Panel with the "Display properties".

- Q5: What if I get lost when I am making display adjustments via OSD?
- 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 display, 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 display?
- Ans.: Yes, you can change your color setting through OSD control as per 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 the color setting, there are three settings as below.
  - Color Temperature: The settings are as follows. 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, bluewhite toning".

- 2. sRGB: This is a standard setting for ensuring the correct exchange of colors between different devices (e.g. digital cameras, monitors, printers, scanners, etc).
- User Define: The user can choose his/her preferred color setting by adjusting red, green, and blue colors.

### 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 Kevin temperatures such as 2004K are red; higher temperatures such as 9300K are blue. The 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 displays Plug-and-Play?
- Ans.: Yes, the displays are Plug-and-Play compatible with Windows 11/10
- Q11: What is Image Sticking, Image Burn-in, 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 display unattended. Always activate a periodic screen refresh application if your LCD display will display unchanging static content.

### Warning

Failure to activate a screen saver, or a periodic screen refresh application may result in severe "burn-in" "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 3840 x 2160. For the best display, please use this resolution.
- Q13: How to unlock/lock my hotkey?

Monitor controls unlocked

Monitor controls locked

- Q14: Where can I find the Important information manual mentioned in EDFU?
- Ans.: Important information manual can be downloaded on the Philips website support page.
- Q15: Why cannot detect my monitor's Windows Hello webcam, and also Face Recognition option is greyed out?
- Ans: To fix this issue, you need to proceed following steps to detect the webcam device again:
  - Press Crtl + Shift + ESC to launch the Microsoft Windows Task Manager.
  - 2. Select 'Services' tag.

Processes Performance A	pp history	Startup Users Details Services			
Name	PID	Description	Status	Group	-
FontCache3.0.0.0		Windows Presentation Foundat	Stopped		
WSearch	268	Windows Search	Running		
WMPNetworkSvc		Windows Media Player Networ	Stopped		
a wmiApSrv		WMI Performance Adapter	Stopped		
WinDefend	2868	Windows Defender Service	Running		
WdNisSvc	3444	Windows Defender Network In	Running		
Q wbengine		Block Level Backup Engine Serv	Stopped		
Q VSS		Volume Shadow Copy	Stopped		
Q vds		Virtual Disk	Stopped		
Q VaultSvc	792	Credential Manager	Running		
UIODetect		Interactive Services Detection	Stopped		
TrustedInstaller		Windows Modules Installer	Stopped		
ss_conn_service		SAMSUNG Mobile Connectivit	Stopped		
Sppsvc		Software Protection	Stopped		
G Spooler	1940	Print Spooler	Running		
SNMPTRAP		SNMP Trap	Stopped		
SensorDataService		Sensor Data Service	Stopped		

- Scroll down and select 'WbioSrvc' (Windows Biometric Service). If the status shows 'Running', right click to stop the service first, then restart the service manually.
- 4. Then go back to sign-in options menu to set up Window Hello Webcam.

### 12.3 Multiview FAQs

- Q1: Can I enlarge the PIP subwindow?
- Q2: How to listen to Audio, independent of a video?

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 do the sub-windows flicker when I enable PIP/PBP?
- Ans: It's because the sub-windows video source is interlace timing (i-timing), please change the sub-window signal source to progressive timing (P-timing).



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