## EVNJA



42M2N8900

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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 operating your monitor.

The Philips guarantee applies provided the product is handled properly for its intended use, in accordance with its operating instructions and upon presentation of the original invoice or cash receipt, indicating the date of purchase, dealer's name and model and production number of the product.

## 1.1 Safety precautions and maintenance

#### Warnings

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

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

Excessive sound pressure from earphones and headphones can cause hearing loss. Adjustment of the equalizer to maximum increases the earphones and headphones output voltage and therefore 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 on 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 for normal operation.
- Please use approved power cord provided by Philips all the time. If your power cord is missing, please contact with your local service center. (Please refer to Service contact information listed in Regulation & Service Information Manual.)
- Operate under the specified power supply. Be sure to operate the monitor only with the specified power supply. Use of an 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, for example 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 or transportation.
- Excessive usage of 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. Try to keep your eyes from eye strain while using the screen for a constant period of time by :
  - Looking at something varying distances after a long period focusing on the screen.
  - Conscious Blinking often while you work.
  - Gently closing and rolling your eyes to relax.
  - Reposition your screen to appropriate height and angle according to your height.
  - Adjusting the brightness and contrast to appropriate level.
  - Adjusting the environment lighting similar to that of your screen brightness, avoid the fluorescent lighting, and surfaces that don't reflect too much light.
  - Seeing a doctor if your symptoms.

#### Maintenance

 To protect your monitor from possible damage, do not put excessive pressure on the OLED panel. When moving your monitor, grasp the frame to lift; do not lift the monitor by placing your hand or fingers on the OLED 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 of time.
- 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 solvent, such as, alcohol, or ammonia-based liquids to clean your monitor.
- To avoid the risk of shock or permanent damage to the set, do not expose the monitor to dust, rain, water, or excessive moisture environment.
- If your monitor gets wet, wipe it with dry cloth as soon as possible.
- If foreign substance or water gets in your monitor, please turn the power off immediately and disconnect the power cord. Then, remove the foreign substance or water, and send it to the maintenance center.
- Do not store or use the monitor in locations exposed to heat, direct sunlight or extreme cold.
- In order 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: 0-40°C 32-104°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 OLED panel technology. In most cases, the "burnin" 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 "afterimage" 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 with your local service center. (Please refer to Service contact information listed in Regulation & Service Information Manual.)
- For transportation information, please refer to "Technical Specifications".
- Do not leave your monitor in a car/ trunk under direct sun light.

#### 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 have been followed.

#### 1.2 Notational Descriptions

The following subsections describe 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 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 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 authority.

#### 1.3 Disposal of product and packing material

Waste Electrical and Electronic Equipment-WEEE



This marking on the product or on its packaging illustrates that, under European Directive 2012/19/EU governing used electrical and electronic appliances, this product may not be disposed of with normal household waste. You are responsible for disposal of this equipment through a designated waste electrical and electronic equipment collection. To determine the locations for dropping off such waste electrical and electronic, 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 amount of reusable materials and to 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 product, service and activities.

From the planning, design and production stages, Philips emphasizes the important 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) in accordance with all Environmental Laws and taking back program with the contractor company.

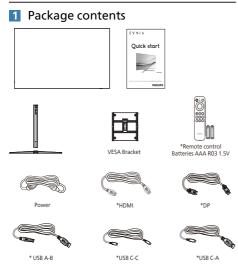
Your display is manufactured with high quality materials and components which can be recycled and reused.

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





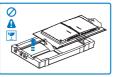
Screw and screwdriver M4-10 x 4 M5-20 x 2

#### \*Different according to region

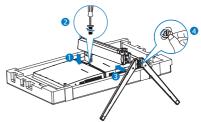
#### 2 Install the base

1. In order 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.





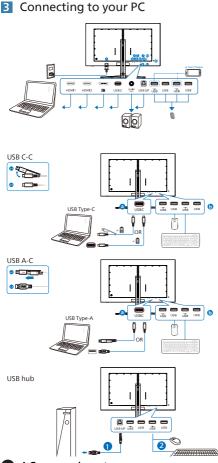
- 2. Hold the stand with both hands.
  - Gently attach the stand to the VESA mount area until the latch locks the stand.
  - (2) Use a screwdriver to tighten the assembly screws, and secure the stand to the monitor tightly.
  - (3) Gently attach the base to the stand.
  - (4) Use your fingers to tighten the screw located at the bottom of the base, and secure the base to the stand tightly.



3. After attaching the base, erect the monitor with both hands on holding the monitor together with styrofoam firmly. Now you can pull out the styrofoam. When you pull out the styrofoam, do not squeeze the panel to avoid broken panel.







- 1 AC power input
- 2 HDMI 1 input
- B HDMI 2 input
- OisplayPort input
- USBC
- 6 Audio Out
- 🕖 USB UP
- 8 USB downstream/USB fast charger
- OSB downstream
- USB downstream/USB fast charger
- USB downstream
- Kensington anti-theft lock

#### Connect to PC

- 1. Connect the power cord to the back of the monitor 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 USB hub

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

Connected USB devices will not work in this state.

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

5 USB charging

This display has USB ports capable of standard power output including some with USB charging function (identifiable with power icon  $\widetilde{_{MB}}$ ). You can use these ports to charge your Smart phone 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 to "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.

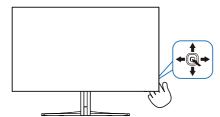


#### Warning

USB 2.4Ghz wireless devices, such as, wireless mouse, keyboard, and headphones, maybe have interference by the high-speed signal of USB3.2 devices, which may result in a decreased efficiency of the radio transmission. Should this happen, please try the following methods to help reduce the effects of interference.

- Try to keep USB2.0 receivers away from USB3.2 connection port.
- Use a standard USB extension cable or USB hub to increase the space between your wireless receiver and the USB3.2 connection port.

- 2.2 Operating the monitor
- **1** Description of the control buttons



0		Press to switch power on. Press more than 3 seconds to switch power off.
		Access the OSD menu.
0	-	Confirm the OSD adjustment.
		Adjust the Game Mode.
8	•	Adjust the OSD menu.
4	•	Change the signal input source.
	•	Adjust the OSD menu.
6	+	SmartImage Game menu. There are multiple selections: Console Mode, Standard, FPS, Racing, RTS, Movie, LowBlue Mode, EasyRead, Economy, Game 1 and Game 2 When the monitor receives HDR signal, SmartImage will show HDR menu. There are multiple selections: HDR Game, HDR Movie, HDR Vivid, Personal, and Off.
		Return to previous OSD level.

#### 2 Description of the On Screen Display

What is On-Screen Display (OSD)? On-Screen Display (OSD) is a feature in all Philips OLED 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 on screen display interface is shown as below:

SmartImage Game Mo	Gintestow E	<b>へい)</b> Audio System	Setup Close
Console Mode	Brightness	90	
Standard			
FPS			Select
Racing			ф. ОК
RTS			
Movie			+ Close
LowBlue Mode			Guse
· · ·			/
Resolution			SmartImage
3840X2160	60Hz HDMI 1	Off	Standard

Basic and simple instruction on the control keys

To access the OSD menu on this Philips display simply use the single toggle button 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 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.

	kub menu		
- Smartimage	<ul> <li>Console Mode( Xbox Mode/ Switch Mode/PS5 Mode), Standard, PS5, Bacing, RTS, Movie, Lowillue Mode, EaryRead, Econom Game1, Game2</li> </ul>	Brightness	- 0-100
	Standard, FPS, Racing, RTS, Movie,	- Contrast	- 0-100
	LowElue Mode, EavyRead, Econom	ny, - SmartContrast	- 0s, Off
	Game1, Game2	Gamma	- 18, 20, 22, 24, 24
		- Sharpress	- 0-100
		= sRGB	- 0-100 - 00,0ff
		Color Temperature	
		Reset	- Yes, No
- Smartimage(H)	R) - HDR Game		
(HDR source)	HDR Game		
	HDR Vivid		
	- Personal	- Upht Enhance	- 9-3
	Off	- Ught Linnance	- 0-1
Game Mode	- Adaptive Sens	- Adaptive Sync On, Adaptive Sync O	-
	Crosshair	- Off, On, Smart Crosshair On	
	Dynamic DarkBoost	- Off, Level 1, Level 2, Level 3	
	<ul> <li>Dynamic banksoolt</li> </ul>		
	SharpShooter	Off, 1.0, 1.5, 2.0	
	- Low Input Lag	- Low Input Lag On, Low Input Lag O	er en
	SmartFrame		
		SmartFrame On	
		Size	- 1234567
		Brightness	- 0-100
		- Contrast	- 0-100
		H. position	- 1-Max
		V.position	- 1-Max
Ambiglow	Light Mode	Follow Video	
		- Follow Audio	
		Color Shift	
		Color Wave	
		Color Breathing	
		Starry Night	
		Static Mode	
	- Ambiglow Setting	Colors	<ul> <li>Rainbow, White, Red, Rose, Magenta, Violet, Blue, Azure, Cyan, Aqua, Green, Pear, Yellow, Orange</li> </ul>
		Light Position	All Zones, 3-sided, central
		- Brightness	- Bright, Brighter, Brightest
		Speed	- Low, Normal, High
	Beart	- Yes No	
	Ambiolow Off		
Input			
	HDMI 2		
	<ul> <li>DisplayPort</li> </ul>		
	usa c		
	Auto	- 0n,0ff	
Audio	Volume		
	Audio Mode	- Sport & Racing	
		BPG & Adventure	
		Shooting & Action	
		Manufa Mintables	
		- more mananey	
		Music	
	Mute		
	- Audio Source	- HDMI1, HDMI2, DisplayPort, USB C	
	- 19	- 100Hz, 300Hz, 1KHz, 3KHz, 10KHz	- 4-4
- System	HDMI Refresh Rate		
- system	FILME RETYETS False	HDMI 1 HDMI 2	120Hz, 130Hz 120Hz, 130Hz
	OSD Settion	HDMI 2	- 120Hz, 130Hz
	<ul> <li>OSD Setting</li> </ul>		
		- Vertical	- 0-100
		Transparency	- Off, 1, 2, 3, 4
		C OSD Time out	- 54, 104, 204, 304, 604
	PIP/ PEP	PIP/PEP Mode	- Off, PIP, PEP
		PIP/PIP Input	- HDMI1, HDMI2, DP, USB C
		PIP Size	- Small, Middle, Large
		PIP Position	- Top-R, Top-L, Bottom-R, Bottom-L
		Swap	- Topic, topic, automic, automic
		Swap	
	Smart Size	Screen Size	<ul> <li>42°W, 27°W, 24°W, 23°W, 22°W, 21.5°W, 20°W, 19.5°W, 19°W, 19°, 18.5°W</li> </ul>
			20"W, 19.5"W, 19"W, 19", 18.5"W
		1:1 Appect	
	USB Setting	USB-C Setting	- (High Resolution) USB 2.0, (High Data Speed) USB 3.2
		USB Standby Mode	- 01.0ff
	1	C KVM	Auto, USB C, USB Up
	Smart Power	- Smart Power On,Smart Power Off	
	Over Scan	- Over Scan On, Over Scan Off	
Setup	Power LED	- 0-4	
setup			
	Language	English, Deutsch, Español, EXXyesch Nederlands, Portuguile, Portuguile o Svenska · Suomi · Türkçe · Čeltina 気能中文 · 日本語 · 世紀이	, Français, Italiano, Magyar - Io Brazil - Dobiti - Durosual
	1	Svenska - Suomi - Türkçe - Čeltina	· Yxpalietaka, 關係中文,
	Resolution Notice	- Resolution Notice	Resolution Notice On, Resolution Notice Off
	- 00	- CEC (0n. 0ff)	
	OLED Panel Care	Screen Saver	- 0n, 0ff
	1	Pixel Orbiting	0s, 0ff
	1	Pixel Refresh	- Yes, No
	1	Panel Refresh	- Yes, No
	1	Auto Warning	- 01.0ff
	1		
	Information	Model	
	1	- SN	
	Reset	- Yes, No	

#### Note

- Recommend to set Fan on Auto mode to avoid overheating issue. You may hear the sound from the operation of the fan which helps to cool down the temperature inside of the monitor.
- Please refer to Chapters 8 on Screen Maintenance for details of OLED Panel Care.

#### 3 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 screen: 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.

#### 4 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).

#### 5 Physical Function

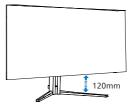
Tilt







#### Height adjustment



#### **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 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.

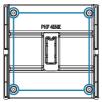
1. Place the monitor face down on a smooth surface. Pay attention not to scratch or damage the screen.

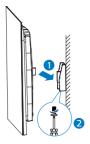


2. Loosen the assembly screws, then detach the neck from the monitor.



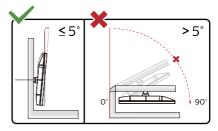
3. Gently attach the latch to the VESA until the latch locks the VESA.





#### Note

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.

#### 2.4 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.

## 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.

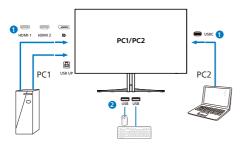
Use USB-C and HDMI or DP as input, then use USB-C/USB-B as USB upstream.

Please follow the steps for the settings.

 Connect the USB upstream cable from your dual devices to the "USB C" and "USB UP" port of this monitor at the same time.

Source	USB Upstream
HDMI/DP	USB UP
USB C	USB C

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



 Enter to OSD menu. Go to KVM layer and select "Auto", "USB C" or "USB Up" 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.



Use DP and HDMI as input then use USB-B/USB-C as USB upstream.

Please follow the steps for the settings.

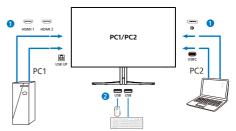
 Connect the USB upstream cable from your dual devices to the "USB C" and "USB UP" port of this monitor at the same time.

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

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

Source	USB Upstream
HDMI or DP	USB UP
DP or HDMI	USB C

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



 Enter to OSD menu. Go to KVM layer and select "Auto", "USB C" or "USB Up" 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.

IDMI Refresh Rate	USB-C Setting	High Resolution	Auto 🗸	
imart Size				
JSB Setting				

#### 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.

#### 2.5 MultiView



#### 1 What is it?

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

#### 2 Why do I need it?

With the ultra high resolution Philips MultiView display, you can experience a world of connectivity in a comfortable way in the office or at home. With this display, you can conveniently enjoy multiple content sources at 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 secured company intranet to access files from a desktop.

3 How to enable MultiView by OSD menu?



- 1. Toggle to the right to enter OSD Menu Screen.
- 2. Toggle to the up or down to select main menu [PIP / PBP], then toggle to the right to confirm.
- Toggle to the up or down to select [PIP / PBP Mode], then toggle to the right.
- 4. Toggle to the up or down to select [PIP], [PBP], then toggle to the right to confirm your selection.
- 5. Now you can move backward to set the [PIP / PBP Input], [PIP Size], [PIP Position] or [Swap].

Toggle to the right 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 other signal sources.



When the sub source is not detected.

 $A_{(main)}$ 

#### Note

The black strip shows on the top and the bottom of the screen for the correct aspect ratio when in the PBP mode. If you expect to see full screen side by side, adjust your devices resolutions as pop up attention resolution, you will able to see 2 devices source screen project to this display side by side without black strips. Note the analog signal is not support this full screen in PIP mode. No support both main source and sub source above the 4K 100Hz at the same time.

 PIP / PBP Input: There are different video input to choose as the sub display source: [HDMI 1], [HDMI 2], [DP], [USB C].

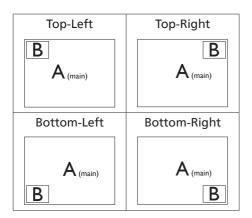
Please refer below table for compatibility of main/sub input source.

		SUB S	OURCE I	POSSIBILIT	Y (xl)
<b>Multi</b> View	Inputs	HDMI 1	HDMI 2	DisplayPort	USBC
	HDMI 1	•	•	٠	•
MAIN SOURCE	HDMI 2	•	•	•	•
(xl)	DisplayPort	•	•	•	•
(\(\)	USBC	•	•	•	٠

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

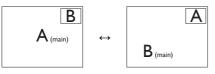


• PIP Position: When PIP is activated, there are four sub-window positions to choose.



 Swap: The main picture source and the sub picture source 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 do the SWAP function, the video and its audio source will swap at the same time.

## 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 optimized monitor performance.

#### 2 Why do I need it?

You want a monitor that delivers optimized display all your favorite types of content, SmartImage software dynamically adjust 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. Toggle to the left to launch the SmartImage on screen display.

- 2. Toggle to the up or down to select between the smartImage modes.
- The SmartImage on screen display will remain on screen for 8 seconds, or you can also toggle to the left to make confirmation.

There are multiple selections: Console Mode, Standard, FPS, Racing, RTS, Movie, LowBlue Mode, EasyRead, Economy, Game 1 and Game 2



- Console Mode: Play on different consoles, this mode can recognize different consoles and change the title name of the mode. Example: Xbox Mode, PS5 Mode, Switch Mode.
- Standard: 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.
- **FPS:** For playing FPS (First Person Shooters) games. Improves dark theme black level details.

- **Racing:** For playing Racing games. Provides fastest response time and high color saturation.
- **RTS:** For playing RTS (Real Time Strategy) games, a user-selected portion can be highlighted for RTS games (through SmartFrame). The picture quality can be adjusted for the highlighted portion.
- 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.
- 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.
- **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.
- Economy:Under this profile, brightness, contrast are adjusted and backlighting finetuned for just right display of everyday office applications and lower power consumption.
- Game 1: User's preference settings saved as Game 1.
- Game 2: User's preference settings saved as Game 2.

When this display receives HDR signal from the connected device, select a picture mode that best fits your needs.

There are multiple selections:HDR Game, HDR Movie, HDR Vivid, HDR True Black, Personal, and Off.



- HDR Game: Ideal setting to optimize for playing video games. With brighter white and darker black, the gaming scene is vivid and revealing more details, easily spot enemies hiding in the dark corner and shadows.
- HDR Movie: Ideal setting for watching HDR movie. Deliver better contrast and brightness for more realistic and immerse viewing experience.
- HDR Vivid: Enhancing red, green, and blue for true-to-life visuals.
- **Personal:** Customize available settings in picture menu.
- Off: No optimization by SmartImage HDR.

#### Note

To switch off HDR function, please disable from Input device and its content.

Inconsistent HDR settings between input device and monitor may cause unsatisfying images.

#### 3.2 SmartContrast

#### 1 What is it?

Unique technology that dynamically analyzes displayed content and automatically optimizes a Monitor's contrast ratio for maximum visual clarity and viewing enjoyment, stepping up backlighting for clearer, crisper and brighter images or dimming backlighting for clear display of images on dark backgrounds.

#### 2 Why do I need it?

You want the very best visual clarity and viewing comfort for every type of content. SmartContrast dynamically controls contrast and adjusts backlighting for clear, crisp, bright gaming and video images or displays clear, readable text for office work. 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 analyse 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.

### 4. Power Delivery and Smart Power

You can power your compatible device with up to 90 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 90W of power through the USBC 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 USBC port:
- 1. Connect the device to the USBC port.
- 2. Turn on [Smart Power].
- 3. If [Smart Power] is on, and USBC 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 2 power delivery levels:

		Power Delivery from USBC
Level 1	0~70	90W
Level 2	71~100	65W

#### Note

- If [Smart Power] is on, and DFP (Downstream Facing Port) is using more than 5W, then USBC can only deliver up to 65W.
- If [Smart Power] is off, then USBC can only deliver up to 65W.
- PowerSensor and LightSensor cannot be enabled with Smart Power simultaneously.

### 5. 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.

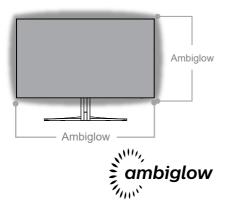
The responsiveness of mouse input and overall frames per second are reduced with v-sync, too. AMD Adaptive Sync technology eliminates all of these problems by letting the GPU update the monitor the moment a new picture is ready, leaving gamers with unbelievably smooth, responsive, tearing-free games.

Followed by the graphic card that are compatible.

- Operating system
  - Windows 11/10/8.1/8
- 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

## 6. Ambiglow



#### 1 What is it?

Ambiglow adds a new dimension to your viewing experience. The innovative Ambiglow processor continuously adjusts the overall color and brightness of the light to match the on screen image. User options like Auto mode, 3 step brightness settings allow to adjust the ambiance to your liking and available wall surface. Whether you are playing games, or watching movies, Philips Ambiglow offers you a unique and immersive viewing experience.

#### 2 How does it work?

It is recommended that you dim the lighting conditions in your room for maximum effect. Ensure that Ambiglow is set to "on" mode. Start a movie, or play a game from your computer. The monitor will react with appropriate colors creating a halo effect, overall matching the image on the screen. You can also manually select Bright, Brighter, Brightest mode or ambiglow function off mode depending on your preference which helps reduce eye fatigue under prolonged usage.

#### 3 How to enable Ambiglow

Ambiglow function can be selected through OSD menu by pressing right button to choose and pressing right button again to confirm the selection:

- 1. Press right button.
- To switch Ambiglow off, or select [Follow Video], [Follow Audio], [Color Shift], [Color Wave], [Color Breathing], [Starry Night], [Static Mode], [Colors], [Light Position], [Brightness], [Speed], [Off].



## 7. HDR

HDR Settings in Windows11/10 system.

#### Steps

- 1. Right click on the desktop, enter to Display settings.
- 2. Select the display/monitor.
- 3. Select an HDR-capable display under Rearrange your displays.
- 4. Select Windows HD Color settings.
- 5. Adjust Brightness for SDR content.

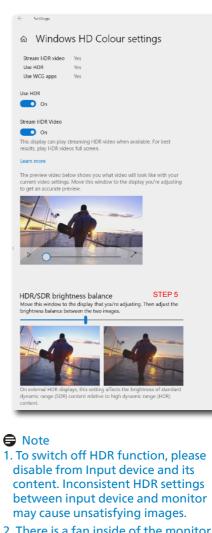
#### Note

Windows11/10 edition is required; always upgrade to the most updated version.

Below linkage is for the further more information from microsoft official website.

https://support.microsoft.com/enau/help/4040263/windows-10-hdradvanced-color-settings

Settings			U 2
分 Home	Display		
Find a setting ,0	Rearrange your displays		
System	Select a display below to change the settings for it. Press and hold (or select) a	display, then dra	j to reamange it.
Display STEP 1			STEP 2
44 Sound			
Notifications N actors	2		
ال المراجع ال			
O Power & sleep			
🗆 Storage		identify	Detect
12) Tablet			
D1 Multi-tasking	Colour		
6P Projecting to this PC	Night light		
X Shared experiences	Night light settings		
(c) Cipboard	Windows HD Colour STEP 4		
3 <sup>C</sup> Remote Desktop	Get a brighter and more vibrant picture for videos, games and apps that support HDR.		
Shout	Windows HD Colour settings		
	Use HDR		
	Scale and layout		
	Change the size of text, apps and other items  15(7) (Recommended)		
	Advanced scaling settings		
	Display resolution STEP 3		
	3840 × 2860 (Recommended) V		
	Display orientation		
	Landscape $\vee$		



- 2. There is a fan inside of the monitor which will be automatically enabled when the monitor reach certain temperature and helps to cool down the temperature inside of the monitor.
- 3. If the monitor turn off or power saving or no signal states, the fan function will turn off.

## 8. Screen maintenance

Following the characteristics of OLED displays, there are automatic mechanisms used to protect the screen and reduce image sticking which may request an opportunity to run the refresh process. These mechanism settings may be adjusted in the On-Screen Display (OSD) menu under OLED Panel Care.

		On	
IEC .		.) —	
DLED Panel Care		Ŋ—	

#### Screen Saver

When a static image is detected for a certain period of time, the screen saver function will dim the screen to protect the panel from sticking. When a moving image is detected, the monitor will recover luminance to previous working status. Default setting is On and would highly recommend that you always set it as On to protect the screen. It is also recommended that you also set your device to use a screen saver.

#### Pixel Orbiting

Pixel shift moves the image a couple of pixels at regular intervals to avoid potential sticking. This is not noticeable in normal circumstances. Default setting is On and would highly recommend that you always set it as On to protect the screen.

#### Pixel Refresh

After a cumulative usage over 4 hours, Pixel Refresh will be activated to compensate the image sticking. When it is activated, screen will be in standby mode for 3 minutes to finish the whole process.

There will be a 1<sup>st</sup> pop-up message after 4-hours and you can choose to proceed the refresh process or skip it. If you choose to skip it, there will be more reminders after every 2 hours. After cumulative usage of 16 hours, you will not be able to skip it. If you cannot execute Pixel Refresh upon receiving the reminders, you can still go to OSD menu at your feasible time to proceed the process.

A reminder message that pops up after 4 hours of continuous use, and will then appear every 2 hours after.



#### Compulsory execution message



#### Panel Refresh

After cumulative usage over 500 hours, Panel Refresh will run automatically to adjust the uniformity of OLED to prevent image retention caused by static content. When it is activated, screen will be in Standby mode for 30 seconds to finish the process. Also, you cannot skip Panel Refresh process but it could be finished simultaneously while the monitor goes into standby mode for over 2 hours or while you turn off the monitor.

#### Compulsory execution message



#### • Auto Warning

Default setting is On to provide messages as reminders of Pixel Refresh and Panel Refresh automatically. If you turn off Auto Warning, the messages will not appear, yet the calculation of cumulative usage hours continues. If Auto Warning is set to Off, the cumulative usage exceeds 16 hours, Pixel Refresh will be activated automatically when you press the power button or the monitor goes into Standby mode.

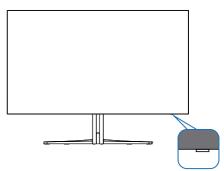
A reminder message that pops up after 4 hours of continuous use, and will then appear every 2 hours after.



#### Note

- 1. Pixel Refresh and Panel Refresh can be run whenever you detect a luminance gap or image sticking.
- 2. While the display is in standby mode, refresh will run automatically when needed. This will ensure your display offers the best possible performance while minimizing interruptions.

#### **LED Indicator**



Status	LED Color
Power On	White
Standby	White (breathing)
Pixel Refresh	White (blinking)
Panel Refresh	Amber (blinking)
Panel Error	Amber
Power Off	No LED

# 9. Designs to prevent computer vision syndrome (CVS)

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

Follow below instructions and use Philips monitor to efficiently reduce fatigue and maximum working productivity.

- 1. Appropriate environment lighting:
  - Adjusting the environment lighting similar to that of your screen brightness, avoid the fluorescent lighting, and surfaces that don't reflect too much light.
  - Adjusting the brightness and contrast to appropriate level.
- 2. Good working habits:
  - Excessive usage of 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 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, side for pain relief.

- 3. Ideal working posture
  - Reposition your screen to appropriate height and angle according to your height.
- 4. Choose Philips monitor for easy-oneyes.
  - Anti-glare screen: Anti-glare screen efficiently reduces annoying and distracting reflections that caused eye fatigue.
  - Flicker-free technology designs 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 paper-like reading experience, giving a more comfortable viewing experience while dealing with long documents on the screen.

## 10. Technical Specifications

Picture/Display			
Monitor Panel Type	OLED		
Panel Size	41.54" W (105.5 cm)		
Aspect Ratio	16:9		
Pixel Pitch	0.2395 (H) mm x 0.2395 (V) mm		
Contrast Ratio (typ.)	1.5M:1		
Recommended			
Resolution	3840 x 2160 @ 60 Hz		
Maximum Resolution	3840 x 2160 @ 138 Hz		
Viewing Angle	178° (H) / 178° (V) @ C/R > 10000 (typ.)		
Picture Enhancement	SmartImage Game /SmartImage HDR		
Vertical Refresh Rate	48 Hz - 138 Hz		
Horizontal Frequency	30 KHz - 255 KHz		
sRGB	YES		
Flicker Free	YES		
LowBlue Mode	YES		
Monitor Colors	1.07 B (10 bits)		
Adaptive Sync	YES		
EasyRead	YES		
Delta E	YES		
HDR ready	YES		
Ambiglow	YES		
Over-the-air firmware	Yes		
update	res		
Connectivity			
Signal Input source	HDMI, DisplayPort, USB-C (DP Alt mode)		
	1 x USB-C (upstream, HDCP 1.4, HDCP 2.2, HDCP 2.3)		
	2 x HDMI 2.1 (HDCP 1.4, HDCP 2.2, HDCP 2.3)		
Connectors	1 x DisplayPort 1.4 (HDCP 1.4, HDCP 2.2, HDCP 2.3)		
connectors	1 x Audio out		
	1 x USB-B (upstream)		
Complement	4 x USB-A (downstream with x2 fast charge BC 1.2)		
Sync input	Separate Sync		
USB	LISP LIP v1 (unstream)		
USB Ports	USB UP x1 (upstream) USB-C x1 (upstream, DP Alt mode)		
0301010	USB-A x4 (downstream with x2 fast charge B.C 1.2)		
	USB-C: USB PD version 3.0, up to 90W (5V/3A, 7V/3A, 9V/3A,		
Power Delivery	10V/3A, 12V/3A, 15V/3A, 20V/4.5A)		
	USB-A: x2 fast charge B.C 1.2, up to 7.5W (5V/1.5A)		
Super Speed	USB-C/USB-A: USB 3.2 Gen1, 5 Gbps		

Convenience				
Built-in Speakers	10 W x 2 with DTS sound			
MultiView	PIP/PBP mode, 2×devices			
OSD Languages	English, German, Spanish, Greek, French, Italian, Hungarian, Dutch, Portuguese, Brazil Portuguese, Polish, Russian, Swedish, Finnish, Turkish, Czech, Ukranian, Simplified Chinese, Traditional Chinese, Japanese, Korean			
Other Convenience	VESA mount (100 x 100 mm), Kensington Lock			
Compatibility	DDC/CI, sRGB, Windows 11/10/8.1/8, Mac OS X			
Stand				
	-5 / +15 degree			
Swivel	-20° / +20°			
Height adjustment	120 mm			
Power				
Consumption	AC Input Voltage at 100VAC, 60Hz AC Input Voltage at 115VAC, 60Hz AC Input Voltage at 230VAC, 50Hz			
Normal Operation	69.6 W (typ.) 69.6 W (typ.) 70.7 W (typ.)			
Sleep (Standby mode)	0.5 W (typ.) 0.5 W (typ.) 0.5 W (typ.)			
Off mode	0.3 W (typ.) 0.3 W (typ.) 0.3 W (typ.)			
Heat Dissipation*	AC Input VoltageAC Input VoltageAC Input Voltageat 100VAC ,at 115VAC ,at 230VAC ,60Hz60Hz50Hz			
Normal Operation	237.5 BTU/hr 237.5 BTU/hr 241.3 BTU/hr (typ.) (typ.) (typ.)			
Sleep (Standby mode)	1.71 BTU/hr         1.71 BTU/hr         1.71 BTU/hr           (typ.)         (typ.)         (typ.)			
Off mode	1.02 BTU/hr         1.02 BTU/hr         1.02 BTU/hr           (typ.)         (typ.)         (typ.)			
Power LED indicator	On mode: White, Standby/Sleep mode: White (blinking)			
Power Supply	Built-in, 100-240VAC, 50/60Hz			
Dimensions				
Product with stand (WxHxD	932 x 689 x 359 mm			
Product without stand (WxHxD)	932 x 535 x 79 mm			
Product with packaging (WxHxD)	1070 x 635 x 188 mm			
Weight				
Product with stand	17.30 kg			
Product without stand	13.84 kg			

Operating Condition		
Temperature range (operation)	0°C to 40°C	
Relative humidity (operation)	20% to 80%	
Atmospheric pressure (operation)	700 to 1060hPa	
Altitude (operation)	0~ 5000 m (0~ 16404ft )	
Temperature range (Non-operation)	-20°C to 60°C	
Relative humidity (Non-operation)	10% to 90%	
Atmospheric pressure (Non-operation)	500 to 1060hPa	
Altitude (Non-operation)	0~ 12192m (0~ 40000ft )	
Environmental and energy		
ROHS	YES	
Packaging	100% recyclable	
Specific Substances	100% PVC BFR free housing	
Cabinet		
Color	White	
Finish	Texture	

#### Note

- 1. This data is subject to change without notice. Go to www.philips.com/support to download the latest version of leaflet.
- 2. 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).

#### 10.1 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
37.88	800 x 600	60.32
46.88	800 x 600	75.00
48.36	1024 x 768	60.00
60.02	1024 x 768	75.03
44.77	1280x 720	59.86
63.89	1280 x 1024	60.02
79.98	1280 x 1024	75.03
67.50	1920 x 1080	60.00
135.00	1920 x 1080	120.00
133.29	1920x2160 59.98 (PBP)	
183.00	2560x1440	120.00
67.50	3840 x 2160 30.00	
112.50	3840 x 2160	50.00
135.00	3840 x 2160	60.00
266.65	3840 x 2160	120.00
311.89	3840 x 2160 (HDMI/DP)	138.00

#### Note

Please notice that your display works best at native resolution of 3840 x 2160.

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.

**Display Input Format** 

Format	Source	3440 x 1440
		@ 60Hz
		10 bits
422/420	HDMI 2.1	OK
444/RGB	HDMI 2.1	N/A
422/420	DP1.4	OK
444/RGB	DP1.4	OK
422/420	USB C@High Data Speed	OK
	USB C@High Resolution	OK
444/RGB	USB C@High Data Speed	OK
	USB C@High Resolution	OK

## 11. Power Management

If you have VESA DPM compliance display card or software installed in 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	69.6 W (typ.) 292.2 W (max.)	White
Sleep (Standby mode)	OFF	No	No	0.5 W (typ.)	White (blink)
Off mode	OFF	-	-	0.3 W (typ.)	OFF

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

- Native resolution: 3840 x 2160
- Contrast: 50%
- Brightness: 90%
- Color temperature: 6500k with full white pattern

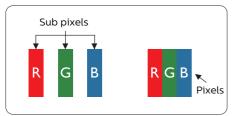
## Solution Note This data is subject to change without

notice.

## 12. Customer care and warranty

#### 12.1 Philips' Flat Panel Monitors 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 or replaced under warranty. This notice explains the different types of pixel defects and defines acceptable defect levels for each type. In order 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 guality standards for certain types or combinations of pixel defects that are more noticeable than others. This policy is valid worldwide.



#### Pixels and Sub pixels

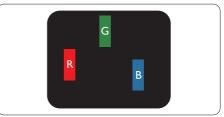
A pixel, or picture element, is composed of three sub pixels in the primary colors of red, green and blue. Many pixels together form an image. When all sub pixels of a pixel are lit, the three colored sub pixels together appear as a single white pixel. When all are dark, the three colored sub pixels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

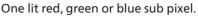
#### Types of Pixel Defects

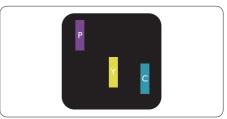
Pixel and sub pixel defects appear on the screen in different ways. There are two categories of pixel defects and several types of sub pixel defects within each category.

#### **Bright Dot Defects**

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

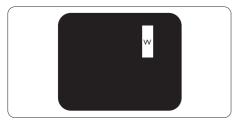






Two adjacent lit sub pixels:

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



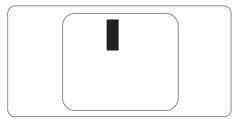
Three adjacent lit sub pixels (one white pixel).

#### Note

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

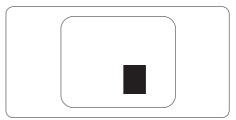
#### Black Dot Defects

Black dot defects appear as pixels or sub pixels that are always dark or 'off'. That is, 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

In order 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	0
2 adjacent lit subpixels	0
3 adjacent lit subpixels (one white pixel)	0
Distance between two bright dot defects*	0
Total bright dot defects of all types	0
BLACK DOT DEFECTS	ACCEPTABLE LEVEL
1 dark subpixel	35 or fewer
2 adjacent dark subpixels	15 or fewer
3 adjacent dark subpixels	0 or fewer
Distance between two black dot defects*	≥20mm
Total black dot defects of all types	35 or fewer
TOTAL DOT DEFECTS	ACCEPTABLE LEVEL
Total bright or black dot defects of all types	35 or fewer

Note
1 or 2 adjacent sub pixel defects = 1 dot defect

#### 12.2 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 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 Warranty Period please refer to Warranty Statement in Regulation & Service 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.

•	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 Regulation & Service Information Manual for regional service hotline, which is available on the Philips website support page.

## 13. Troubleshooting & FAQs

#### 13.1 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 rear 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 monitor 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



- Make sure the monitor cable is properly connected to your computer. (Also refer to the Quick Start Guide).
- Check to see if the monitor cable has bent pins.

• Make sure the computer is turned on.

#### AUTO button doesn't function

• The auto function is applicable only in VGA-Analog mode. If the result is not satisfactory, you can do manual adjustments via the OSD menu.

#### Note

## The Auto Function is not applicable in DVI-Digital mode as it is not necessary.

#### Visible signs of smoke or sparks

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

#### 2 Imaging Problems

#### Image is not centered

- Adjust the image position using the "Auto" function in OSD Main Controls.
- Adjust the image position using the Phase/Clock of Setup in OSD Main Controls. It is valid only in VGA mode.

#### Image vibrates on the screen

• Check that the signal cable is properly securely connected to the graphics board or PC.

#### Vertical flicker appears

- Adjust the image using the "Auto" function in OSD Main Controls.
- Eliminate the vertical bars using the Phase/Clock of Setup in OSD Main Controls. It is valid only in VGA mode.

#### Horizontal flicker appears

 [ NI

- Adjust the image using the "Auto" function in OSD Main Controls.
- Eliminate the vertical bars using the Phase/Clock of Setup in OSD Main Controls. It is valid only in VGA mode.

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 OLED panel technology. In most cases, the "burn-in" or "afterimaging" 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 OLED monitor 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-imaging" or "ghost imaging" 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 monitor'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 Regulation & Service Information Manual and contact Philips customer service representative.

\* Functionality different according to display.

#### 13.2 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: 3840 x 2160.
- 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 3840 x 2160 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 3840 x 2160.
- Shut down your computer, disconnect your old monitor and reconnect your Philips OLED monitor.
- Turn on your monitor and then turn on your PC.
- Q2: What is the recommended refresh rate for OLED monitor?
- Ans.: Recommended refresh rate in OLED monitors is 60 Hz, In case of any disturbance on screen, you can set it up to 100 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<sup>®</sup> Control Panel with the "Display properties".
- Q5: What if I get lost when I am making monitor adjustments via OSD?
- Ans.: Simply press the → button, then select [Reset] to recall all the original factory settings.
- Q6: Is the OLED 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 OLED 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 → button to show the OSD (On Screen Display) menu
- Press ♥ button to select the option [Color] then press ➡ button 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, bluewhite 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).
  - 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 Kevin temperatures such as 2004K are red; higher temperatures such as 9300K are blue. Neutral temperature is white, at 6504K.

- Q9: Can I connect my OLED monitor to any PC, workstation or Mac?
- Ans.: Yes. All Philips OLED 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 OLED monitors Plugand- Play?
- Ans.: Yes, the monitors are Plug-and-Play compatible with Windows 11/10/8.1/8, Mac OSX.
- Q11: What is Image Sticking, or Image Burn-in, or After Image, or Ghost Image in OLED 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 OLED 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 OLED 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 "afterimage" 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 OLED monitor works best at its native resolution of 3840 x 2160. For best display, please use this resolution.

- Q13: How to unlock/lock my hot key?
- Ans.: Please press ↓ for 10 seconds to unlock/lock the hot key, by doing so, your display pops out "Attention" to show the unlock/ lock status as shown below illustrators.



- Q14: Where can I find Regulation & Service Information Manual mentioned in EDFU?
- Ans.: Regulation & Service Information Manual can be download on the Philips website support page.

- 13.3 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 video?
- Ans.: Normally the audio source is linked to the main picture source. If you want to change audiosource 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 subwindow signal source to be progressive timing (P-timing).

# Q

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