EVNJA





ΕN

User manual

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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.
- 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 "afterimaging" or "ghost imaging", on your screen.

 "Burn-in", "after-imaging", or "ghost imaging" is a well-known phenomenon in LED 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.

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



*Different according to region

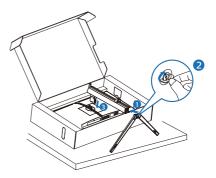
2 Install the base

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



2. Hold the stand with both hands.

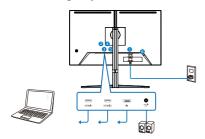
- (1) Gently attach the base to the stand.
- (2) Use your fingers to tighten the screw located at the bottom of the base.
- (3) Gently attach the stand to the VESA mount area until the latch locks the stand.



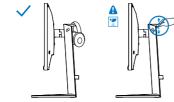
Caution

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

3 Connecting to your PC



Headphone hook



- 1 AC power input
- 2 HDMI 1 input
- 3 HDMI 2 input
- 4 DisplayPort input
- **5** Audio Out
- 6 Kensington anti-theft lock

Connect to PC

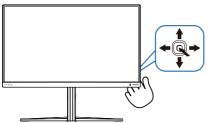
- 1. Connect the power cord to the back of the monitor firmly.
- 2. Turn off your computer and unplug its power cable.
- 3. Connect the monitor signal cable to the video connector on the back of your computer.
- Plug the power cord of your computer and your monitor into a nearby outlet.
- Turn on your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



The headphone holder is securely integrated with the monitor stand and is specifically designed for headset storage. Please note that excessive pulling/dragging on the hook, which effectively goes beyond its intended use, may result in damage.

2.2 Operating the monitor

1 Description of the control buttons



Press to switch power on.
Press more than 3 seconds to switch power off.

Access the OSD menu.

Confirm the OSD adjustment.

Adjust the Game Setting.

Adjust the OSD menu.

Change the signal input source.

Adjust the OSD menu.

SmartImage Game menu. There are multiple selections: Standard, FPS, Racing, RTS, Movie, LowBlue Mode, EasyRead, Economy, Smartuniformity, Game1 and Game2.

Return to previous OSD level.

When the monitor receives
HDR signal, SmartImage will
show the HDR menu. There
are multiple selections in
this menu: HDR Game, HDR
Movie, HDR Vivid, DisplayHDR
400, Personal, and Off.

Description of the On-Screen Display

What is On-Screen Display (OSD)?

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



Basic and simple instructions on the control keys

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

The OSD Menu

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

Main menu Si	ib menu		
SmartImage	 Standard, FPS, Racing, RTS, Movie, LowBlue Mode, EasyRead, Econom 	Brightness	
	SmartUniformity, Game1, Game2	Contrast	— 0-100
		SmartContrast Gamma	— On, Off — 1.8, 2.0, 2.2, 2.4, 2.6
		— Sharpness	— 1.8, 2.0, 2.2, 2.4, 2.6 — 0-100
		= sRGB	— On, Off
		Color Temperature	 Native, Preset, 5000K, 6500K, 7500K, 8200K, 9300K, 11500K
		R.G.B. settings	— On, Off
		Red	 0-100
		- Green	
		- Blue	— 0~100
		Reset Brightness	— Yes, No — 0–100
 SmartImage(HD (HDR source) 	R) HDR Game, HDR Movie, HDR Vivid	Contrast	— 0-100
(IDIC Source)		Light Enhancement	— 0-3
		Color Enhancement	— 0~3
		Reset	— Yes, No
	DisplayHDR 400		 0-100
	— Personal	Brightness Contrast	— 0-100 — 0-100
		Light Enhancement	— 0-100 — 0-3
		Color Enhancement	— 0×3 — 0×3
		Reset	— Yes, No
	∟ off		
— Game Mode	Adaptive Sync	 Adaptive Sync On, Adaptive Syr 	nc Off
ounic mode	— Smart MBR	- MBR Level	
	— Crosshair	 Off, On, Smart Crosshair On 	
	Stark ShadowBoost	— Off, Level 1, Level 2, Level 3	
	- Smart Sniper	Size	— Off, 1, 1.5, 2.0
	- Smart Sniper	Position	— Top, Central
	Low Input Lag	Low Input Lag On, Low Input Lag	
	- SmartResponse	SmartResponse	Off, Fast , Faster, Fastest
			— Oil, Fast , Faster, Fastest
	☐ Overclock	— Overclock On, Overclock Off	
Input	Input	HDMI1	
		HDMI 2	
		- DisplayPort	
		- Auto	— On, Off
- Audio	Volume	— 0~100	 0~100
	— Mute	— Mute On, Mute Off)	
	Audio Source	- HDMI 1, HDMI 2, DisplayPort	
- Language	— Language	 English, Deutsch, Español, Еλλην Polski, Русский, Svenska, Suor 	หตุ, Français, Italiano, Magyar, Nederlands, Portuguès, Portuguès do Brasil, ท่า, Türkçe, Cestina, Українська, 简体中文, 繁體中文,日本語,한국어
System	CSD Setting	- Horizontal	 0~100
		- Vertical	— 0-100
			— Off, 1, 2, 3, 4
		- Transparency	
	DID (DDD	☐ OSD Time out	— 5s, 10s, 20s, 30s, 60s
	PIP/PBP	PIP/PBP Mode	— Off, PIP, PBP
		PIP/PBP Input	- HDMI 1, HDMI 2, DisplayPort
		PIP Size	- Small, Middle, Large
		PIP Position	— Top-R, Top-L, Bottom-R, Bottom-L
		Swap	
	- Smart Size	Screen Size	— 27"W, 24"W, 23"W, 22"W, 21.5"W,
		1:1	20"W, 19.5"W, 19"W, 19", 18.5"W, 17"
		4:3	
	Pixel Orbiting	 Pixel Orbiting On, Pixel Orbiting 	Off
	Over Scan	Over Scan On, Over Scan Off	
- Setup	Power LED	— 0-4	
	Resolution Notice	Resolution Notice On, Resolution	on Notice Off
	Information	Model	
	Poset	└─ SN	
	Reset	— Yes, No	
Close			



- Game mode: This model is equipped with new features in OSD which gives you high-quality visual experience.
 - Stark Shadow Boost
 This feature enhances dark scenes
 without overexposing lightened
 areas. The Stark ShadowBoost
 feature has three selectable levels
 that offer texturized images
 with better color saturation with
 higher contrast so you can see
 better in both light and dark
 environments. In addition, this
 feature helps you fine-tune your
 sight so that enemies get exposed
 more quickly when gaming.
 - Smart MBR In an effort to reduce motion blur, this monitor's LED backlight will work simultaneously with the refresh rate to control brightness levels for the best picture clarity. Please note that Smart-MBR is a type of gaming mode, requires a minimum refresh rate of 75Hz, and it is recommended to turn the function off when not gaming as it may cause screenflickering.
 - Smart Crosshair
 Color of Crosshair is set by
 default. When Smart Crosshair
 is on, the color will change as
 complementary color to the
 background color. Smart Crosshair enhances the accuracy
 of aiming so you can spot the
 enemies more easily.
 - Smart Sniper
 This feature enables you to zoom
 in to multiple targets at once;
 ultimately making it easier to aim
 and hit your enemies.

 This Philips monitor is certified with NVIDIA® G-Sync® compatible. Both technologies are used to match the refresh rate of the monitor to the graphic cards. Providing the smoothest gaming experience by reducing or eliminating judder, tearing, and stuttering.

Enabling Adaptive-Sync from the On-Screen Display menu will automatically activate the appropriate technology depending on the graphics card installed in your computer:

If using an NVIDIA GeForce graphics card, G-Sync compatible will be enabled.

- Go to www.philips.com/support to download the latest version of leaflet to get more information on G-Sync certification.
- Resolution notification
 This monitor is designed for optimal performance at its native resolution:2560

When the monitor is powered on at a different resolution, an alert is displayed on the screen as follows: Use 2560 x 1440 for best results.

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

4 OverClock Your Monitor

x 1440.

The OverClock function increases the native refresh rate, however, it does have some associated risks along with it. Please follow the instructions below to activate the OverClock feature on your monitor:

 First, check your PC's graphics card and make sure it is capable of achieving the maximum resolution and refresh rate of this monitor.

- 2. If needed, install the latest version of graphics card driver.
- Ensure the OverClock signal port is available (Please refer to the chapter Resolution & Preset Modes in the dedicated user manual).
- 4. Modify the refresh rate in the On Screen Display (OSD) settings.

To enable the OverClock feature, you will need to go to OSD menu > Game Settings > OverClock.

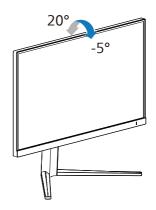


Note

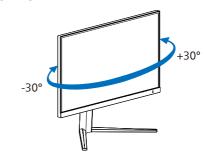
Please note that the default setting for OverClock is off as it can cause irreversible damage to your monitor. If the screen is displayed abnormally after rebooting, please switch off the OverClock setting located in the monitor's OSD menu. Alternatively, you can unplug the power cable. Then, press and hold the left button of the menu toggle on the monitor while plugging the power cable back in. Keep holding the button until the screen turns on. This will turn off the Overclock function, and the monitor will return to its default refresh rate.

5 Physical Function

Tilt



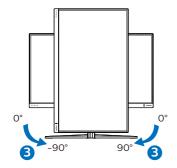
Swivel



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 Remove the Base Assembly for VESA Mounting

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

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

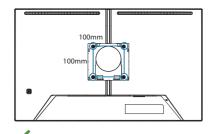


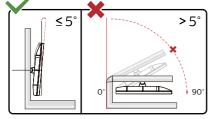
While keeping the release button pressed, tilt the stand and slide it out.



Note

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





* Display design may differ from those illustrated 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.

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?



- 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.
- 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.

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.



Note

The black strip located on the top and the bottom of the screen is for measuring the correct aspect ratio when in the PBP mode. If you expect to see full-screen, adjust your device's resolutions to popup 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.

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

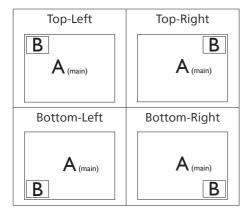
Please refer to the table below for compatibility of the main/sub-input source.

/+ > /		SUB SOURCE POSSIBILITY (xl)			
MultiView	Inputs	HDMI 1	HDMI 2	DisplayPort	
MAIN	HDMI 1	•	•	•	
SOURCE	HDMI 2	•	•	•	
(xl)	DisplayPort	•	•	•	

 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.

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.

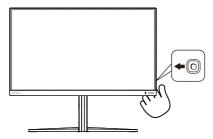
2 Why do I need it?

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?

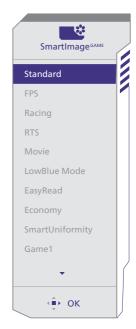
SmartImage is an exclusive, leadingedge Philips technology that analyzes the content displayed on your screen. Based on the scenario you select, SmartImage dynamically enhances the contrast, color saturation, and sharpness of images to enhance the contents being displayed - all in real time by the press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

4 How to enable SmartImage?



- 1. Toggle to the left to launch the SmartImage on-screen display.
- 2. Toggle the up or down to select between the SmartImage modes.
- The SmartImage on-screen display will remain on screen for 5 seconds, or you can also toggle to the left to make confirmation.

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



- Standard: Enhances text and dampens brightness to increase readability and reduce eye strain. This mode significantly enhances readability and productivity when working with spreadsheets, PDF files, scanned articles, or other similar office applications.
- FPS: For playing FPS (First Person Shooters) games. Improves dark theme black level details.

- Racing: For playing Racing games.
 Provides the 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 detail in darker areas of your videos without experiencing color washout.
- 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 well-being, the Philips LowBlue Mode setting uses smart software technology to reduce harmful shortwave blue light.
- 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.
- Economy: Under this profile, brightness and contrast are adjusted and backlighting is fine-tuned to produce the right display for everyday office applications.
- Smartuniformity: Fluctuations in brightness on different parts of a screen are a common phenomenon among LCD displays. 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.
- **Game1**: User's preference settings saved as Game1.
- Game2: User's preference settings saved as Game2.

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

There are 6 modes to select: HDR Game, HDR Movie, HDR Vivid, DisplayHDR 400, 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 reveals more details, easily spotting enemies hiding in the dark corner and shadows.
- HDR Movie: Ideal setting for watching HDR movies. Deliver better contrast and brightness for a more realistic and immersing viewing experience.
- HDR Vivid: Enhancing red, green, and blue for true-to-life visuals.
- DisplayHDR 400: Meet VESA DisplayHDR 400 standard.
- **Personal:** Customize available settings in the picture menu.

 Off: No optimization by SmartImage HDR.



To switch off the HDR function, please disable the Input device and its content. Inconsistent HDR settings between the input device and monitor may cause unsatisfying images.

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.

4. NVIDIA® G-SYNC® Compatible NVIDIA



When playing intense games with high refresh rates, screen tearing may appear without optimal graphics

synchronization. Certified as NVIDIA® G-SYNC® Compatible, variable refresh rate (VRR) reducing screen tearing and syncing your monitor's refresh rate with your graphic card's output for a smoother gaming experience. Scenes appear instantly, objects look sharper, and gameplay is smooth, giving you a stunning visual experience and a serious competitive edge.

⊜ Note

- 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.
- NVIDIA® G-SYNC® support interface: DisplayPort.
- Make sure your graphic card supports NVIDIA® G-SYNC®.
- Make sure to update NVIDIA®
 G-SYNC® driver to the latest version,
 see more information on NVIDIA
 website: https://www.nvidia.com/.
- © 2019 NVIDIA, the NVIDIA logo, and NVIDIA G-SYNC are trademarks and/ or registered trademarks of NVIDIA Corporation in the U.S. and other countries.

5. HDR

HDR Settings in Windows10 system.

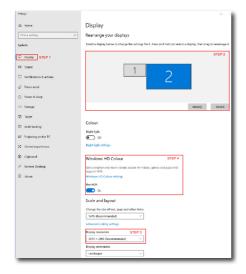
Steps

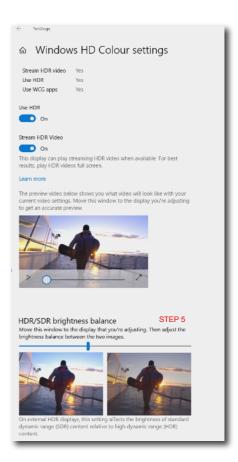
- Right-click on the desktop, and enter Display settings.
- 2. Select the display/monitor.
- 3. Select an HDR-capable display under Rearrange your displays.
- 4. Select Windows HD Color settings.
- 5. Adjust Brightness for SDR content.



Windows 10 edition is required. Always upgrade to the most updated version. The link below is for further information from the Microsoft official website.

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





Note

To switch off the HDR function, please disable it from an Input device and its content. Inconsistent HDR settings between the input device and monitor may cause unsatisfying images.

6. Technical Specifications

Picture/Display			
Monitor Panel Type	IPS Technology		
Backlight	W-LED		
Panel Size	27" W (68.5 cm)		
Aspect Ratio	16:9		
Pixel Pitch	0.2331 (H) mm x 0.2331 (V) mm		
Contrast Ratio(typ.)	1200:1		
Recommended Resolution	2560 x 1440 @ 60 Hz		
Maximum Resolution	2560 x 1440 @ 144 Hz (HDMI) 2560 x 1440 @ 260 Hz (DP)		
Viewing Angle	178° (H) / 178° (V) @ C/R > 10 (typ.)		
Display Colors	1.07 B (8 bits + FRC) ¹		
Flicker Free	Yes		
Picture Enhancement	SmartImage Game /SmartImage HDR		
Vertical Refresh Rate	48 Hz - 144Hz (HDMI) 48 Hz - 260 Hz (DP)		
Horizontal Frequency	30 KHz - 230 KHz (HDMI) 30 KHz - 400 KHz (DP)		
sRGB	YES		
LowBlue Mode	YES		
EasyRead	YES		
Smartuniformity	YES		
Delta E	YES		
HDR	VESA Certified DisplayHDR™ 400		
G Sync	YES		
Connectivity			
Signal Input source	HDMI, DisplayPort		
Connectors	2 x HDMI 2.0 (HDCP 1.4 / HDCP 2.2) 1 x DisplayPort 1.4 (HDCP 1.4 / HDCP 2.2) 1 x Audio out		
Sync input	Separate Sync		
Convenience			
MultiView	PIP/PBP mode,2xdevices		
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		
Plug & Play Compatibility	DDC/CI, sRGB, Windows 11/10, Mac OS X		

Stand						
Tilt	-5 /	/ +20 degree				
Swivel		/ +30 degree				
Height adjustment		0 mm				
Pivot	-90) / +90 degree				
Power						
Consumption		Input Voltage 100VAC , 60Hz	AC Input Voltage at 115VAC, 60Hz	AC Input Voltage at 230VAC, 50Hz		
Normal Operation	24.	0 W (typ.)	23.9 W (typ.)	23.9 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*		Input Voltage 100VAC , 60Hz	AC Input Voltage at 115VAC, 60Hz	AC Input Voltage at 230VAC , 50Hz		
Normal Operation	81. (ty	91 BTU/hr o.)	81.57 BTU/hr (typ.)	81.57 BTU/hr (typ.)		
Sleep (Standby mode)		1 BTU/hr (typ.)	1.71 BTU/hr (typ.)	1.71 BTU/hr (typ.)		
Off mode		2 BTU/hr (typ.)	1.02 BTU/hr (typ.)	1.02 BTU/hr (typ.)		
Power LED indicator	_		andby/Sleep mode: \	White (blinking)		
Power Supply	Bui	lt-in, 100-240VA	C, 50/60Hz			
Dimensions						
Product with stand (WxHxD)		614 x 519 x 26 ⁻⁷	1 mm			
Product without stand (WxHxD)		614 x 368 x 60	614 x 368 x 60 mm			
Product with packaging (WxHxD)		730 x 455 x 139	9 mm			
Weight						
Product with stand		5.73 kg				
Product without stand		3.89 kg				
Product with packaging		8.46 kg				
Operating Condition						
Temperature range (operation)		0°C to 40°C				
Relative humidity (operation)		20% to 80%				
Atmospheric pressure (operation)	Atmospheric pressure 700hPa to 1060hPa					
Temperature range (Non-operation)		-20°C to 60°C				
Relative humidity (Non-operation)		10% to 90%				
Atmospheric pressure (Non-operation)		500hPa to 1060)hPa			

Environmental and energy				
ROHS	YES			
Packaging	100% recyclable			
Specific Substances	100% PVC BFR free housing			
Cabinet				
Color	Dark Slate			
Finish	Texture			

¹ For more information, please refer to Chapter 6.1 on Display Input Format.



- 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. SmartUniformity and Delta E information sheets are included in the box.

6.1 Resolution & Preset Modes

H. freq (kHz)	Resolution	V. freq (Hz)
31.469	640 x 480	59.94
35.00	640 x 480	66.667
37.861	640 x 480	72.809
37.50	640 x 480	75.00
31.469	720 x 400	70.087
35.156	800 x 600	56.25
37.879	800 x 600	60.317
48.077	800 x 600	72.188
46.875	800 x 600	75.00
49.725	832 x 624	74.551
48.363	1024 x 768	60.004
56.476	1024 x 768	70.069
60.023	1024 x 768	75.029
44.772	1280 x 720	59.855
63.981	1280 x 1024	60.02
79.976	1280 x 1024	75.025
89.45	1280 x 1440 PBP model	59.913
67.50	1920 x 1080	60.00
88.86	2560 x 1440	60.00
183.00	2560 x 1440	120.00
222.19	2560 x 1440	144.00
247.67	2560 x 1440	165.00 (DP)
300.20	2560 x 1440	200.00 (DP)
364.80	2560 x 1440	240.00 (DP)
383.17	2560 x 1440	260.00 (DP OverClock)

Note

Please note that your display works best at the native resolution of 2560 x 1440. 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

	422/420	444/RGB	422/420	444/RGB
	HDMI 2.0	HDMI 2.0	DP 1.4	DP 1.4
2560 x 1440 260Hz 10bit	NA	NA	OK	OK
2560 x 1440 240Hz 10bit	NA	NA	OK	OK
2560 x 1440 200Hz 10bit	NA	NA	OK	OK
2560 x 1440 165Hz 10bit	NA	NA	OK	OK
2560 x 1440 144Hz 10bit	OK	NA	OK	OK
2560 x 1440 60Hz 10bit	OK	OK	OK	OK
low resolutions 8 bit/10 bit	OK	OK	OK	OK



In order for the monitor to function properly, your PC's graphics card must support DisplayPort 1.4 or HDMI 2.0. The display resolution and refresh rate are also dependent on the computer's graphic card capabitlity.

7. Power Management

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

Power Management Definition						
VESA Mode	Video	H-sync	V-sync	Power Used	LED Color	
Active	ON	Yes	Yes	23.9 W (typ.) 55.4 W (max.)	White	
Sleep (Standby mode)	OFF	No	No	0.5 W	White (blink)	
Off mode	OFF	-	-	0.3 W	OFF	

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

Native resolution: 2560 x 1440

Contrast: 50%Brightness: 70%

• Color temperature: 6500k with full white pattern

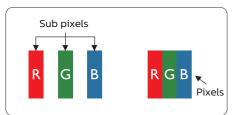
Note

This data is subject to change without notice.

8. Customer care and warranty

8.1 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 quarantee that all panels will be free from pixel defects, but Philips guarantees that any monitor with an unacceptable number of defects will be repaired and/ or replaced under warranty. This notice explains the different types of pixel defects and defines acceptable defect levels for each type. To qualify for repair or replacement under warranty, the number of pixel defects on a TFT Monitor panel must exceed these acceptable levels. For example, no more than 0.0004% of the sub-pixels on a monitor may be defective. Furthermore, Philips sets even higher quality standards for certain types or combinations of pixel defects that are more noticeable than others. This policy is valid worldwide.



Pixels and Sub pixels

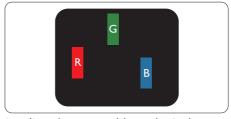
A pixel, or picture element, is composed of three sub-pixels in the primary colors of red, green, and blue. Many pixels together form an image. When all the sub-pixels of a pixel are lit, the three colored sub-pixels together appear as a single white pixel. When all are dark, the three colored sub-pixels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

Types of Pixel Defects

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

Bright Dot Defects

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

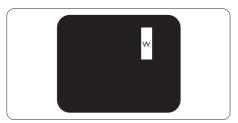


One lit red, green or blue sub pixel.



Two adjacent lit sub-pixels:

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



Three adjacent lit sub pixels (one white pixel).

Note

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

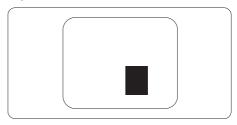
Black Dot Defects

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



Proximity of Pixel Defects

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



Pixel Defect Tolerances

To qualify for repair or replacement due to pixel defects during the warranty period, a TFT Monitor panel in a Philips flat panel monitor must have pixel or subpixel 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	0
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

8.2 Customer Care & Warranty

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

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

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

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

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

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

Philips Customer Care Center number listed below.

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

^{**}Proof of original purchase and extended warranty purchase required.



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

Troubleshooting & FAOs

9.1 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 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 connecting side. If yes, repair or replace the cable.
- The Energy Saving feature may be activated Screen says.

Check cable connection

- 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.

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 vibrates on the screen

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

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 LED 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 monitor unattended.
- Always activate a periodic screen refresh application if your LCD monitor 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.

9.2 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: 2560 x 1440.

- 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 the box labeled 'desktop area', move the sidebar to 2560 x 1440 pixels.
- Open 'Advanced Properties' and set the Refresh Rate to 60 Hz, then click OK.
- Restart your computer and repeat Restart your computer and repeat steps 2 and 3 to verify that your PC is set at 2560 x 1440.
- Shut down your computer, disconnect your old monitor, and reconnect your Philips LED monitor.
- Turn on your monitor and then turn on your PC.

Q2: What is the recommended refresh rate for an LED monitor?

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

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

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

first install your monitor. Follow the instructions in your user manual, 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 monitor together determine the available resolutions. You can select the desired resolution under Windows® Control Panel with the "Display properties".

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

Ans.: Press the → button, then select [Setup], press the ↓ button, then select [Reset] to recall all the original factory settings

Q6: Is the LCD screen resistant to scratches?

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

Q7: How should I clean the LCD surface?

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

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

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

- Press the → button to show the OSD (On Screen Display) menu
- Select [SmartImage], press the
 button, then press the
 button to
 select the option [Color Temperature]
 then press the
 button to enter
 the color setting, there are eight
 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 LED monitor to any PC, workstation, or Mac?

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

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

Q10: Are Philips LCD monitors Plugand- Play?

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

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

Warning

Failure to activate a screen saver, or a periodic screen refresh application may result in severe "burn-in" "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 monitor works best at its native resolution of 2560 x 1440. For the best display, please use this resolution.

Q13: How to unlock/lock my hotkey?

Ans.: Please press

for 10 seconds to unlock/lock the hotkey, by doing so, your display pops out
"Attention" to show the unlock/ lock status as shown below illustrators.

Monitor control 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.

9.3 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 the OSD menu.
Select your preferred [PIP Size]
option from the [PIP / PBP] main
menu.

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

Ans.: Normally the audio source is linked to the main picture source. If you want to change audiosource input, you can press ⇒ enter in the 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 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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