

PHILIPS

Momentum

345M2



www.philips.com/welcome

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|----|----------------------------|----|
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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's manual before you use your monitor. It contains important information and notes regarding the operation of 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 Important 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.
- Do not disassemble the AC adapter. Disassembling the AC adapter may expose you to the danger of 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

1. Important

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 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 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

1. Important

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 “burned in” or “after-imaging” or “ghost imaging” will disappear gradually over a period of time after the power has been switched off.

Warning

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

Service

- The casing cover should be opened only by qualified service personnel.
- If there is any need for any document for repair or integration, please contact with your local service center. (Please refer to Service contact information listed in Important 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 take-back 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.

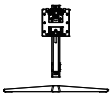
To learn more about our recycling program please visit:

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

2. Setting up the monitor

2.1 Installation

1 Package contents



Stand/Base



AC/DC Adapter



* DP



* HDMI

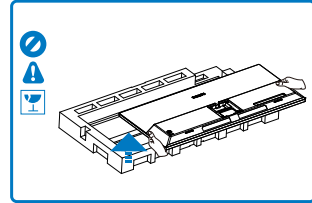
* Different according to region

Note

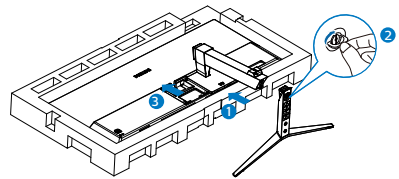
Use only the AC/DC adapter model: Philips ADPC2090

2 Install base stand

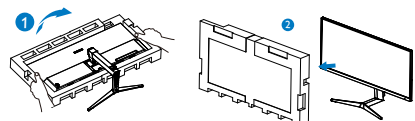
1. In order to well protect this monitor and avoid scratching or damaging of the monitor, keep the monitor face down in the cushion for the base installation.



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

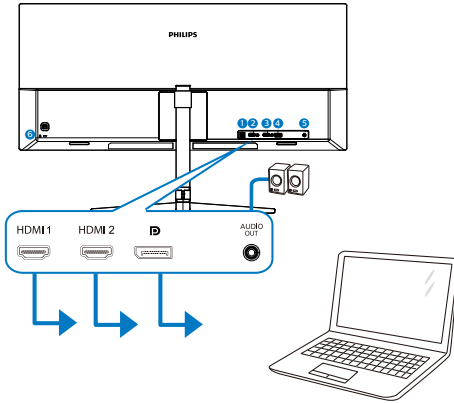


3. After attaching the base, erect the monitor with both hands on holding the monitor together with styrofoam firmly. Now you can pull out the styrofoam. When you pull out the styrofoam, do not squeeze the panel to avoid broken panel.



2. Setting up the monitor

3 Connecting to your computer



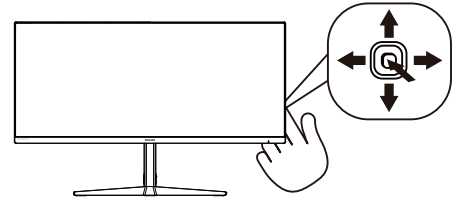
- ❶ AC/DC power input
- ❷ HDMI 1 input
- ❸ HDMI 2 input
- ❹ DisplayPort input
- ❺ Audio out
- ❻ Kensington anti-theft lock

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.
4. Plug the power cord of your computer and your monitor into a nearby outlet.
5. Turn on your computer and monitor. If the monitor displays an image, installation is complete.

2.2 Operating the monitor

1 Description of the control buttons



| | | |
|---|--|---|
| ❶ | | Press more than 3 seconds to switch display power OFF. Press to switch display power ON. |
| ❷ | | Access the OSD menu. Confirm the OSD adjustment. |
| ❸ | | Adjust the Game Setting. |
| | | Adjust the OSD menu. |
| ❹ | | Change the signal input source |
| | | Adjust the OSD menu. |
| ❺ | | SmartImage Game menu: There are multiple selections: FPS, Racing, RTS, Gamer 1, Gamer 2, LowBlue Mode, EasyRead, Off. |
| | | When the monitor receives HDR signal, SmartImage will show HDR menu: There are multiple selections: HDR Game, HDR Movie, HDR Photo, Personal and Off. |
| | | Return to previous OSD level. |

2. Setting up the monitor

2 Description of the On Screen Display

What is On-Screen Display (OSD)?

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

| | | |
|--------------|---------------|-----|
| Game Setting | Adaptive Sync | On |
| | MPRT | Off |
| LowBlue Mode | MPRT Level | 0 |
| | Low Input Lag | On |
| Input | SmartResponse | Off |
| | SmartFrame | Off |
| Picture | | |
| PIP/PBP | | |
| SmartSize | | |
| | | |

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.

| Main menu | Sub menu | | |
|--------------|-------------------------|---|-------------------------------------|
| Game Setting | Adaptive Sync | On, Off | |
| | MPRT | On, Off | |
| | MPRT Level | 0-20 | |
| | Low Input Lag | On, Off | |
| | SmartResponse | Off, Fast, Faster, Fastest | |
| | SmartFrame | | On, Off |
| | | Size | 1, 2, 3, 4, 5, 6, 7 |
| | | Brightness | 0-100 |
| | | Contrast | 0-100 |
| | | H. position | |
| | V. position | | |
| LowBlue Mode | On | 1, 2, 3, 4 | |
| | Off | | |
| Input | 1 HDMI 2.0 | | |
| | 2 HDMI 2.0 | | |
| | DisplayPort | | |
| | Auto | On, Off | |
| Picture | SmartImage | FPS/Racing/RTS/Gamer1/Gamer2/LowBlue Mode/EasyRead/Off | |
| | SmartImage HDR | HDR Game/HDR Movie/HDR Photo/Personal/Off | |
| | Brightness | 0-100 | |
| | Contrast | 0-100 | |
| | Sharpness | 0-100 | |
| | SmartContrast | On, Off | |
| | Gamma | 1.8, 2.0, 2.2, 2.4, 2.6 | |
| | Over Scan | On, Off | |
| | PIP/PBP | PIP / PBP Mode | Off, PIP, PBP |
| | | PIP / PBP Input | 1 HDMI 2.0, 2 HDMI 2.0, DisplayPort |
| PIP Size | | Small, Middle, Large | |
| PIP Position | | Top-Right, Top-Left, Bottom-Right, Bottom-Left | |
| Swap | | | |
| SmartSize | Panel Size | 17" (5:4) | |
| | | 19" (5:4) | |
| | | 19"W (16:10) | |
| | | 22"W (16:10) | |
| | | 18.5"W (16:9) | |
| | | 19.5"W (16:9) | |
| | | 20"W (16:9) | |
| | | 21.5"W (16:9) | |
| | | 23"W (16:9) | |
| | | 24"W (16:9) | |
| 27"W (16:9) | | | |
| 34"W | | | |
| 1:1 | | | |
| Aspect | | | |
| Audio | Volume | 0-100 | |
| | Mute | On, Off | |
| | Audio Source | HDMI 1, HDMI 2, DisplayPort | |
| Color | Color Temperature | Native, 5000K, 6500K, 7500K, 8200K, 9300K, 11500K | |
| | sRGB | | |
| | User Define | Red: 0-100 Green: 0-100 Blue: 0-100 | |
| Language | | English, Deutsch, Español, Ελληνικά, Français, Italiano, Magyar, Nederlands, Português, Português do Brasil, Polski, Русский, Svenska, Suomi, Türkçe, Čeština, Українська, 简体中文, 繁體中文, 日本語, 한국어 | |
| OSD Setting | Horizontal | 0-100 | |
| | Vertical | 0-100 | |
| | Transparency | Off, 1, 2, 3, 4 | |
| | OSD Time Out | 5s, 10s, 20s, 30s, 60s | |
| Setup | Resolution Notification | On, Off | |
| | Reset | Yes, No | |
| | Information | | |

2. Setting up the monitor

Note

- MPRT: To reduce motion blur, LED backlight will strobe synchronously with screen refresh, which may cause noticeable brightness change.
- 75Hz refresh rate or higher is required for MPRT.
- AMD FreeSync™ Premium and MPRT cannot be enabled simultaneously.
- MPRT is to adjust brightness for blur reduction, so cannot adjust brightness while MPRT is turned on.
- MPRT is gaming-optimized mode. Turn on MPRT may cause noticeable screen flickering. It is recommended to turn off when you are not using the gaming function.
- This Philips monitor is certified with AMD FreeSync™ only. The technology is 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 AMD Radeon graphics card, FreeSync will be enabled.
- Go to www.philips.com/support to download the latest version of leaflet to get more information on FreeSync certification.

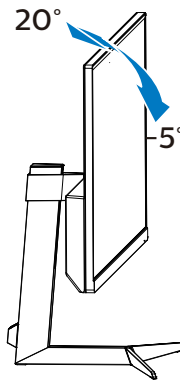
3 Resolution notification

This monitor is designed for optimal performance at its native resolution, 3440 x 1440. When the monitor is powered on at a different resolution, an alert is displayed on screen: Use 3440 x 1440 for best results.

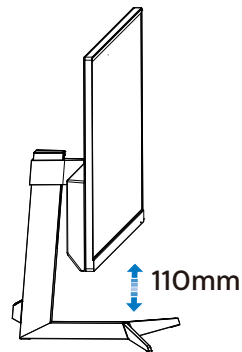
Display of the native resolution alert can be switched off from Setup in the OSD (On Screen Display) menu.

4 Physical Function

Tilt



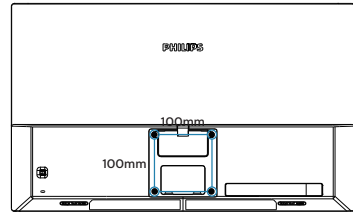
Height adjustment



2. Setting up the monitor

⚠ Warning

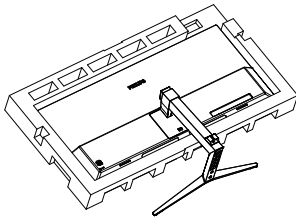
- To avoid potential screen damage, such as panel peeling, ensure that the monitor does not tilt downward by more than -5 degrees.
- Do not press the screen while adjusting the angle of the monitor. Grasp only the bezel.



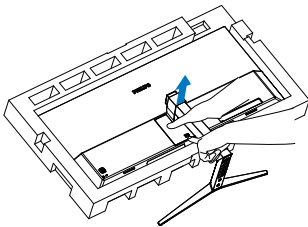
2.3 Remove the Base Assembly for VESA Mounting

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

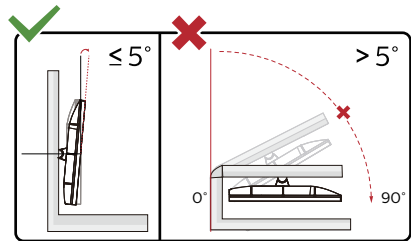


ⓘ Note

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

ⓘ Note

Please purchase the appropriate wall mount; otherwise the distance between the back-plug-in signal cable and the wall would be too short.



* 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 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?

| | | |
|--------------|-----------------|------------|
| Game Setting | PIP / PBP Mode | Off |
| | PIP / PBP Input | 2 HDMI 2.0 |
| LowBlue Mode | PIP Size | Small |
| | PIP Position | Top-Right |
| Input | Swap | |
| Picture | | |
| PIP/PBP | | |
| SmartSize | | |
| | | |

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.
3. 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].

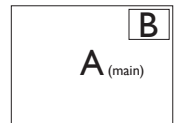
Toggle to the right to confirm your selection.

4 MultiView in OSD menu

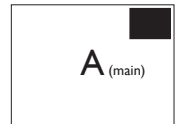
- PIP / PBP Mode: There are two modes for MultiView: [PIP] and [PBP].

[PIP]: Picture in Picture

Open up a sub-window of another signal source.

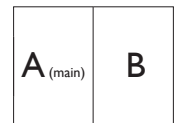


When the sub source is not detected:



[PBP]: Picture by Picture

Open up a sub-window side-by-side of other signal sources.



When the sub source is not detected.




2. Setting up the monitor

⊖ Note

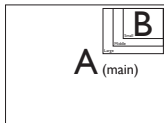
The black strip shows on the top and the bottom of the screen for the correct aspect ratio when in the PBP mode. If you expect to see full screen side by side, adjust your devices resolutions as pop up attention resolution, you will be able to see 2 devices source screen project to this display side by side without black strips. Note the analog signal does not support this full screen in PBP mode.

- PIP / PBP Input: There are different video input to choose as the sub display source: [1 HDMI 2.0], [2 HDMI 2.0], [DisplayPort].

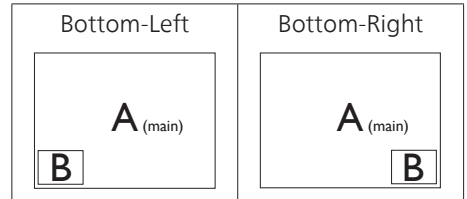
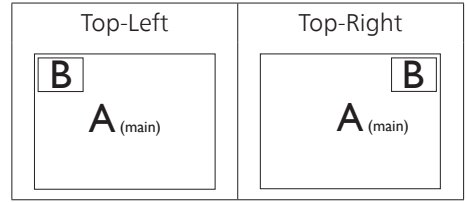
Please refer below table for compatibility of main/sub input source.

|  | | SUB SOURCE POSSIBILITY (x1) | | |
|--|-------------|-----------------------------|--------|--------|
| | | Inputs | HDMI 1 | HDMI 2 |
| MAIN SOURCE (x1) | HDMI 1 | • | • | • |
| | HDMI 2 | • | • | • |
| | DisplayPort | • | • | • |

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

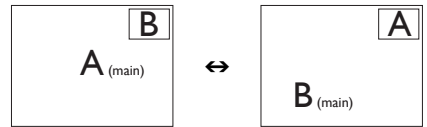


- PIP Position: When PIP is activated, there are four sub-window positions to choose.

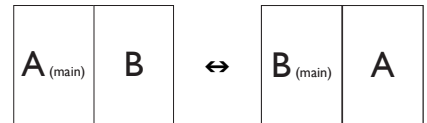


- Swap: The main picture source and the sub picture source swapped on the display.

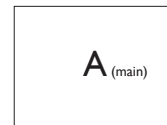
Swap A and B source in [PIP] mode:



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.

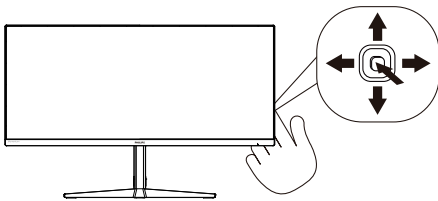
2 Why do I need it?

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?

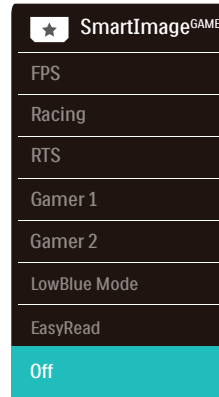


1. Toggle to the left to launch the SmartImage on screen display.
2. Toggle to the up or down to select among FPS, Racing, RTS, Gamer1,

Gamer2, LowBlue Mode, EasyRead and Off.

3. The SmartImage on screen display will remain on screen for 5 seconds, or you can also toggle to the right to make confirmation.

There are multiple selections: FPS, Racing, RTS, Gamer1, Gamer2, LowBlue Mode, EasyRead and Off.



- **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.
- **Gamer 1:** User's preference settings saved as Gamer 1.
- **Gamer 2:** User's preference settings saved as Gamer 2.
- **LowBlue Mode:** LowBlue Mode for easy on-the-eyes productivity Studies have shown that just as ultra-violet rays can cause eye damage, shortwave length blue light rays from LED

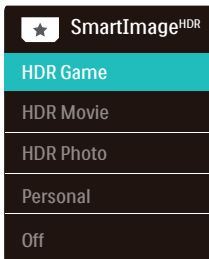
3. Image Optimization

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.
- **Off:** No optimization by SmartImage^{GAME}.

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

There are 5 modes to select: HDR Game, HDR Movie, HDR Photo, 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 Photo:** 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 display'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 display's power consumption, you save on energy costs and extend the lifetime of your display.

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. AMD FreeSync™ Premium



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 FreeSync™ Premium 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 11/10/8.1/8/7
- 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
- Processor A-Series Desktop and Mobility APUs
 - AMD Radeon R9 290X
 - AMD Radeon R9 290
 - AMD Radeon R9 285
 - AMD Radeon R7 260X
 - AMD Radeon R7 260
 - 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

5. HDR

HDR Settings in Windows10 system.

Steps

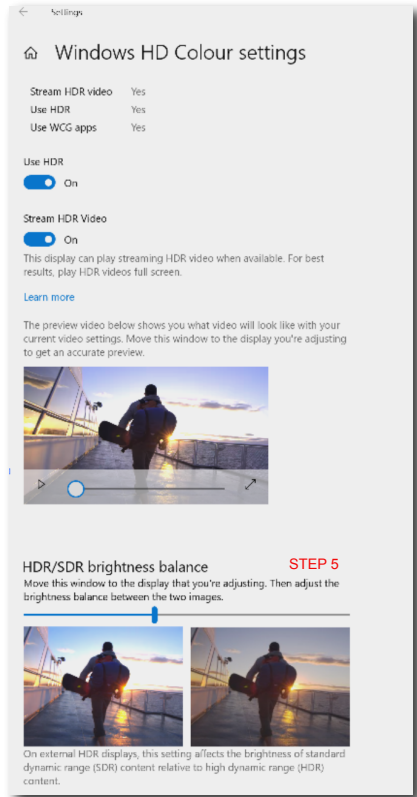
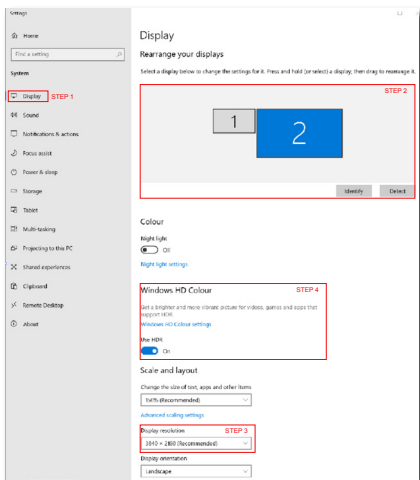
1. Right click on the desktop, enter to Display settings.
2. Select the display/monitor.
3. Select an HDR-capable display under Rearrange your displays.
4. Select Windows HD Color settings.
5. Adjust Brightness for SDR content.

ⓘ Note

Windows10 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/en-au/help/4040263/windows-10-hdr-advanced-color-settings>



ⓘ Note

1. 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.

6. Technical Specifications

| Picture/Display | |
|---------------------------|--|
| Monitor Panel Type | VA (345M2RL) |
| Backlight | W-LED system |
| Panel Size | 34" W (86.36 cm) |
| Aspect Ratio | 21:9 |
| Pixel Pitch | 0.23175(W) x 0.23175(H) |
| Contrast Ratio (typ.) | 4000:1 |
| Optimum Resolution | 3440 x 1440 @ 60 Hz |
| Viewing Angle | 178° (H) / 178° (V) @ C/R > 10 (Typ.) |
| Picture Enhancement | SmartImage Game / SmartImage HDR |
| Display Colors | 16.7 M (8 bits) |
| Vertical Refresh Rate | 48-120 Hz (HDMI) 48-144 Hz (DP) |
| Horizontal Frequency | 30-160 KHz (HDMI) 30-220 KHz (DP) |
| sRGB | YES |
| LowBlue Mode | YES |
| Flicker free | YES |
| HDR | YES |
| AMD FreeSync™ Premium | 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, Ukrainian, Simplified Chinese, Traditional Chinese, Japanese, Korean |
| Other Convenience | VESA mount(100 × 100 mm), Kensington Lock |
| Plug & Play Compatibility | DDC/CI, sRGB, Windows 11/10/8.1/8/7, Mac OSX |
| Stand | |
| Tilt | -5 / +20 degree |
| Height adjustment | 110 mm |

6. Technical Specifications

| Power | | | |
|--------------------------------------|--|-----------------------------------|-----------------------------------|
| Consumption | AC Input Voltage at 100VAC , 50Hz | AC Input Voltage at 115VAC , 50Hz | AC Input Voltage at 230VAC , 50Hz |
| Normal Operation | 43.8 W (typ.) | 43.6 W (typ.) | 42.6 W (typ.) |
| Sleep (Standby mode) | 0.5 W | 0.5 W | 0.5 W |
| Off mode | 0.3 W | 0.3 W | 0.3 W |
| Heat Dissipation* | AC Input Voltage at 100VAC , 50Hz | AC Input Voltage at 115VAC , 50Hz | AC Input Voltage at 230VAC , 50Hz |
| Normal Operation | 149.49 BTU/hr (typ.) | 148.81 BTU/hr (typ.) | 145.39 BTU/hr (typ.) |
| Sleep (Standby mode) | 1.71 BTU/hr | 1.71 BTU/hr | 1.71 BTU/hr |
| Off mode | 1.02 BTU/hr | 1.02 BTU/hr | 1.02 BTU/hr |
| Power LED indicator | On mode: White, Standby/Sleep mode: White (blinking) | | |
| Power Supply | External, 100-240V AC, 50/60Hz | | |
| Dimension | | | |
| Product with stand (WxHxD) | 817 x 523 x 249 mm | | |
| Product without stand (WxHxD) | 817 x 365 x 51 mm | | |
| Product with packaging (WxHxD) | 930 x 525 x 159 mm | | |
| Weight | | | |
| Product with stand | 6.96 kg | | |
| Product without stand | 5.41 kg | | |
| Product with packaging | 10.2 kg | | |
| Operating Condition | | | |
| Temperature range (operation) | 0°C to 40 °C | | |
| Relative humidity (operation) | 20% to 80% | | |
| Atmospheric pressure (operation) | 700 to 1060hPa | | |
| Temperature range (Non-operation) | -20°C to 60°C | | |
| Relative humidity (Non-operation) | 10% to 90% | | |
| Atmospheric pressure (Non-operation) | 500 to 1060hPa | | |
| Environmental and energy | | | |
| ROHS | YES | | |
| Packaging | 100% recyclable | | |
| Specific Substances | 100% PVC BFR free housing | | |

| Cabinet | |
|---------|---------|
| Color | Black |
| 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.The maximum resolution through HDMI is 3440 x 1440@100Hz, if you want to run refresh rate at 120Hz through HDMI, you may select the resolution from the advanced setting in your graphic card.

To achieve 120Hz through HDMI, the resolution will drop to FHD or QHD, which depends on your graphic card capability.

6.1 Resolution & Preset Modes

1 Maximum Resolution

3440 x 1440 @ 100 Hz (HDMI)

3440 x 1440 @ 144 Hz (DisplayPort)

2 Recommended Resolution

3440 x 1440 @ 60 Hz

| H. freq (kHz) | Resolution | V. freq (Hz) |
|---------------|----------------------------|--------------|
| 31.47 | 720x400 | 70.09 |
| 31.47 | 640x480 | 59.94 |
| 35.00 | 640x480 | 66.67 |
| 37.86 | 640x480 | 72.81 |
| 37.50 | 640x480 | 75.00 |
| 35.16 | 800x600 | 56.25 |
| 37.88 | 800x600 | 60.32 |
| 48.08 | 800x600 | 72.19 |
| 46.88 | 800x600 | 75.00 |
| 47.73 | 832x624 | 74.55 |
| 48.36 | 1024x768 | 60.00 |
| 56.48 | 1024x768 | 70.07 |
| 60.02 | 1024x768 | 75.03 |
| 44.77 | 1280x720 | 59.86 |
| 63.89 | 1280x1024 | 60.02 |
| 79.98 | 1280x1024 | 75.03 |
| 55.94 | 1440x900 | 59.89 |
| 65.29 | 1680x1050 | 59.95 |
| 89.48 | 1720x1440 | 59.97 |
| 113.22 | 1920x1080 | 99.93 |
| 119.88 | 1920x1080 | 120 |
| 67.17 | 2560x1080 | 59.98 |
| 88.82 | 3440x1440 | 59.97 |
| 150.97 | 3440x1440 | 99.98 |
| 214.56 | 3440x1440 (DisplayPort) | 144 |

Note

- Please notice that your display works best at native resolution of 3440 x 1440 . For best display quality, please follow this resolution recommendation.
- The highest supporting screen resolution on HDMI/DP is 3440 x 1440, but please always ensure that your graphic card is capable of achieving the maximum resolution and refresh rate of this Philips display.

7. 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 | 43.6 W (typ.), 60.3 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: 3440 x 1440
- Contrast: 50%
- Brightness: 80%
- Color temperature: 6500k with full white pattern

Note

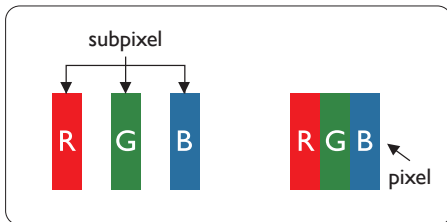
This data is subject to change without notice.

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 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 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 sub pixels of a

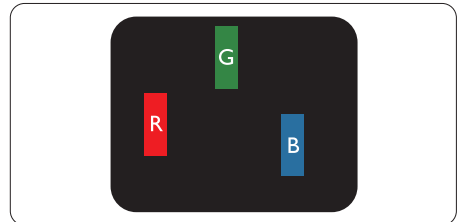
pixel are lit, the three colored sub pixels together appear as a single white pixel. When all are dark, the three colored sub pixels together appear as a single black pixel. Other combinations of lit and dark sub pixels appear as single pixels of other colors.

Types of Pixel Defects

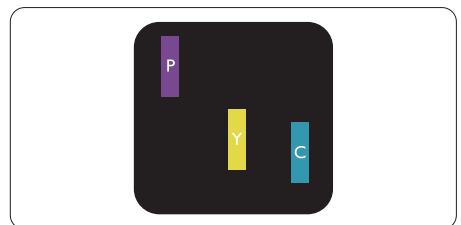
Pixel and sub pixel defects appear on the screen in different ways. There are two categories of pixel defects and several types of sub pixel defects within each category.

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.



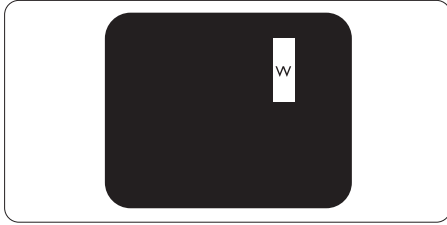
One lit red, green or blue sub pixel.



Two adjacent lit sub pixels:

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

8. Customer care and warranty



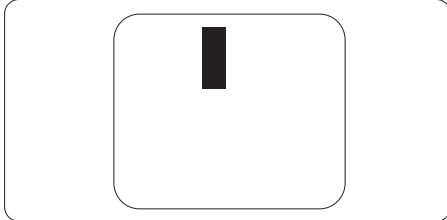
Three adjacent lit sub pixels (one white pixel).

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.

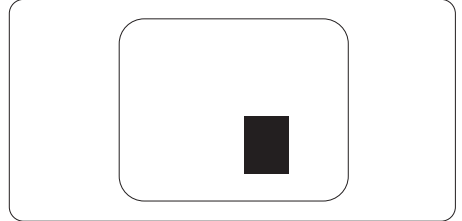
Black Dot Defects

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.

8. Customer care and warranty

| 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* | >15 mm |
| Total bright dot defects of all types | 2 |
| BLACK DOT DEFECTS | ACCEPTABLE LEVEL |
| 1 dark subpixel | 5 or fewer |
| 2 adjacent dark subpixels | 2 or fewer |
| 3 adjacent dark subpixels | 1 |
| Distance between two black dot defects* | >15 mm |
| Total black dot defects of all types | 5 or fewer |
| TOTAL DOT DEFECTS | ACCEPTABLE LEVEL |
| Total bright or black dot defects of all types | 10 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 Warranty Period please refer to Warranty Statement in Important Information Manual.

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.

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

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

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

Philips Customer Care Center number listed below.

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

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

Note

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

9. Troubleshooting & FAQs

9.1 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 side of the display is in the OFF position, then press it to the ON position.

No Picture (Power LED is White)

- Make sure the computer is turned on.
- Make sure the signal cable is properly connected to your computer.
- Make sure the monitor cable has no bent pins on the connect 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 secured to the graphics board or PC.

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 monitor panel technology. In most cases, the "burned 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 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-image" or "ghost image" symptoms that will not disappear and cannot be repaired. The damage

mentioned above is not covered under your warranty.

Image appears distorted. Text is fuzzy or blurred.

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

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

3 Audio problem

No sound

- Check if audio cable is connected to PC and monitor correctly.
- Ensure audio is not muted. Press OSD "Menu", select "Audio" then "Mute". Check it on "Off" position.
- Press "Volume" in OSD main control to adjust the volume.

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: 3440 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 box labelled 'desktop area', move the sidebar to 3440 x 1440 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 3440 x 1440 .
- Shut down your computer, disconnect your old monitor and reconnect your Philips monitor.
- Turn on your monitor and then turn on your PC.

Q2: 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.

Q3: 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".

Q4: 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.

Q5: Is the monitor 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.

Q6: How should I clean the monitor 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.

Q7: 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 seven settings are Native, 5000K, 6500K, 7500K, 8200K, 9300K and 11500K.

With settings in the 5000K range the panel appears "warm, with a red-white color tone", while a 11500K temperature yields "cool, bluishwhite toning".

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

Note

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

Q8: Can I connect my monitor to any PC, workstation or Mac?

Ans.: Yes. All Philips 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.

Q9: Are Philips monitors Plug-and-Play?

Ans.: Yes, the monitors are Plug-and-Play compatible with Windows 11/10/8.1/8/7, Mac OSX

Q10: What is Image Sticking, or Image Burn-in, or After Image, or Ghost Image in monitor 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 monitor panel technology. In most cases, the "burned 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 monitor will display unchanging static content.


 **Warning**

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

Q11: Why is my Display not showing sharp text, and is displaying jagged characters?

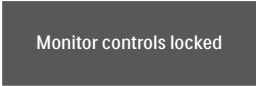
Ans.: Your monitor works best at its native resolution of 3440 x 1440. For best display, please use this resolution.

Q12: How to unlock/lock my hot key?

Ans.: Please press  for 8 seconds to unlock/lock the hot key, by doing so, your monitor pops out "Attention" to show the unlock/lock status as shown below illustrators.



Monitor controls unlocked



Monitor controls locked

Q13: Where can I find Important Information manual mentioned in EDFU?

Ans.: Important Information manual can be download 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 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 audio-source input, you can press ➡ to enter OSD menu. Select your preferred [Audio Source] option from the [Audio] main menu.

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

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

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



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