

B Line

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ΕN	User manual	1
	Customer care and warranty	/ 24
	Troubleshooting & FAQs	28

Table of Contents

1.	Important11.1Safety precautions and maintenance11.2Notational Descriptions31.3Disposal of product and packing material4
2.	Setting up the monitor
3.	Image Optimization123.1 SmartImage123.2 SmartContrast14
4.	PowerSensor™15
5.	Adaptive Sync17
6.	Designs to prevent computer vision syndrome (CVS)18
7.	Technical Specifications197.1Resolution & Preset Modes22
8.	Power Management23
9.	 Customer care and warranty . 24 9.1 Philips' Flat Panel Displays Pixel Defect Policy
10.	Troubleshooting & FAQs2810.1 Troubleshooting2810.2 General FAQs29

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.

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.
- 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 at all times. If your power cord is missing, please contact your local service center. (Please refer to Service contact information listed in Important information manual.)
- Do not subject the monitor to severe vibration or high impact conditions during operation.
- To avoid potential damage, for example the panel peeling from the bezel, ensure that the monitor does not tilt downward by more than -5 degrees. If the -5 degree downward tilt angle maximum is exceeded, the monitor damage will not be covered under warranty.
- Do not knock or drop the monitor during operation or transportation.
- The USB Type-C port could only be connected to specify equipment with fire enclosure in compliance with IEC 62368-1 or IEC 60950-1.

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.
- Unplug the monitor if you are not going to use it for an extensive period of time.

. Important

- Unplug the monitor if you need to clean it with a slightly damp cloth.
 The screen may be wiped with a dry cloth when the power is off.
 However, never use organic solvent, such as, alcohol, or ammonia-based liquids to clean your monitor.
- To avoid the risk of shock or permanent damage to the set, do not expose the monitor to dust, rain, water, or excessive moisture environment.
- If your monitor gets wet, wipe it with dry cloth as soon as possible.
- If foreign substance or water gets in your monitor, please turn the power off immediately and disconnect the power cord. Then, remove the foreign substance or water, and send it to the maintenance center.
- Do not store or use the monitor in locations exposed to heat, direct sunlight or extreme cold.
- In order to maintain the best performance of your monitor and use it for a longer lifetime, please use the monitor in a location that falls within the following temperature and humidity ranges.
 - Temperature: 0-40°C 32-104°F
 - Humidity: 20-80% RH

Important information for Burn-in/ Ghost image

 Always activate a moving screen saver program when you leave your monitor unattended. Always activate a periodic screen refresh application if your monitor will display unchanging static content. Uninterrupted display of still or static images over an extended period may cause "burn in", also known as "after-imaging" or "ghost imaging", on your screen.

"Burn-in", "after-imaging", or "ghost imaging" is a well-known phenomenon in LCD panel technology. In most cases, the "Burn-in" or "after-imaging" or "ghost imaging" will disappear gradually over a period of time after the power has been switched off.

Warning

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

Service

- The casing cover should be opened only by qualified service personnel.
- If there is any need for any document for repair or integration, please contact with your local service center. (Please refer to Service contact information listed in 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 takeback initiatives and recycling programs whenever possible, preferably in cooperation with competitors, which recycle all materials (products and related packaging material) in accordance with all Environmental Laws and taking back program with the contractor company.

Your monitor 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

Package contents









Stand/Base





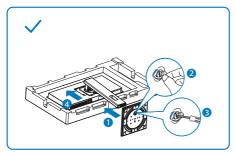


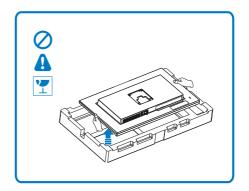


*Different according to region.

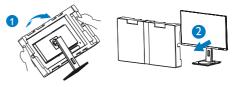
2 Install the base

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

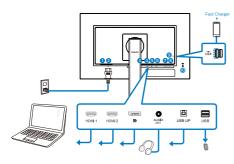




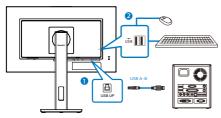
- 2. Hold the stand with both hands.
 - (1) Gently attach the stand to the VESA mount area until the latch locks the stand.Gently attach the base to the stand.
 - (2) Use your fingers to tighten the screw located at the bottom of the base.
 - (3) Use screwdriver to tighten the screw located at the bottom of the base, and secure the base to the column tightly.
- 3. After attaching the base, erect the monitor with both hands on holding the monitor together with styrofoam firmly. Now you can pull out the styrofoam. When you pull out the styrofoam, do not squeeze the panel to avoid broken panel.



3 Connecting to your PC



USB hub



- 1 Power Switch
- **2** AC power input
- 3 HDMI 1 input
- 4 HDMI 2 input
- 5 DisplayPort input
- 6 Audio output
- USB upstream
- 8 USB downstream
- 9 USB downstream/USB fast charger
- Wensington anti-theft lock

Connect to PC

- 1. Connect the power cord to the back of the display firmly.
- 2. Turn off your computer and unplug its power cable.
- 3. Connect the monitor signal cable to the video connector on the back of

your computer.

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

4 USB charging

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

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

🛋 Audio	USB Standby Mode	On 🖌
		Off
🚱 Color		
tanguage		
🗳 OSD Setting		
USB Setting		
🔅 Setup		
^		

Note

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

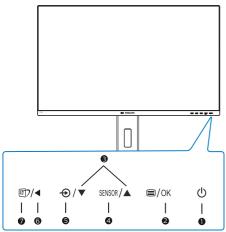
Warning

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

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

2.2 Operating the monitor

1 Description of the control buttons



0	ወ	Switch monitor's power ON or OFF.
2	⊜/OK	Access the OSD menu. Confirm the OSD adjustment.
B		Adjust the OSD menu.
4	SENSOR	PowerSensor
6	Ð	Change the signal input source.
6		Return to previous OSD level.
Ð	œ۲	SmartImage hot key. There are multiple modes to select: EasyRead, Office, Photo, Movie, Game, Economy, LowBlue Mode, SmartUniformity, Off.

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:

• PowerSensor	On Off ✓	
LightSensor		
LowBlue Mode		
▶ Input		
Picture		
Audio		
~		

Basic and simple instruction on the control keys

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

The OSD Menu

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

Main menu	Sub menu
PowerSensor	On - 0,1,2,3,4
- LightSensor	□ On Off
LowBlue Mode	On — 1,2,3,4
Input	L 1 HDMI 2.0 2 HDMI 2.0 DisplayPort
	SmartImage EasyRead/Office/Photo/Movie/Game/Economy/ LowBlue Mode/SmartUniformity/Off
	- Adaptive Sync - On, Off
	Picture Format Wide screen, 4:3, 1:1
Picture	- Brightness - 0~100
	Contrast — 0~100
	- Sharpness - 0~100
	- SmartResponse - Off, Fast, Faster, Fastest
	- SmartContrast - On, Off
	- Gamma - 1.8, 2.0, 2.2, 2.4, 2.6
	Pixel Orbiting On, Off
	- Over Scan - On, Off
Audio	Volume — 0~100
Addio	Mute On, Off
Color	Color Temperature - Native,5000K,6500K,7500K,8200K,9300K,11500K
	User Define Red: 0~100
	Green: 0~100 Blue: 0~100
	Blue: 0~100
- Language	— English, Deutsch, Español, Е᠕ηνική, Français, Italiano, Maryar, Nederlands, Português, Português do Brazil, Polski, Pycozwii, Svenska, Suomi, Türkçe, Cestina, 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
- USB Setting	USB Standby Mode On, Off
Setup	- Power LED - 0,1,2,3,4
	Resolution Notification - On, Off
	Reset Yes, No
	Information

3 Resolution notification

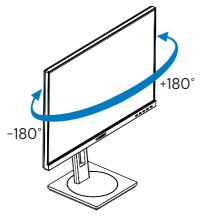
This monitor is designed for optimal performance at its native resolution, 3840 x 2160 When the monitor is powered on at a different resolution, an alert is displayed on screen: Use 3840 x 2160 for best results. Display of the native resolution alert can be switched off from Setup in the OSD (On Screen Display) menu.

4 Physical Function

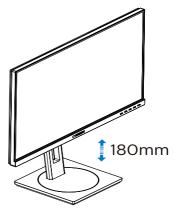
Tilt



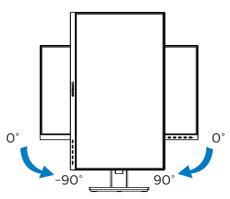




Height adjustment







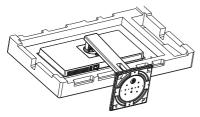
Warning

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

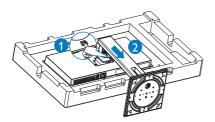
2.3 Remove the Base Assembly for VESA Mounting

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

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

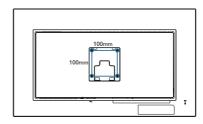


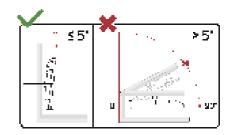
2. While keeping the release button pressed, tilt the base and slide it out.



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.

Warning

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

3. Image Optimization

3.1 SmartImage

1 What is it?

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

2 Why do I need it?

You want a display 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 display 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?

04	Break 00000-

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

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

SmartImage
EasyRead
Office
Photo
Movie
Game
Economy
LowBlue Mode
SmartUniformity
Off

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

3. Image Optimizatior

files, scanned articles or other general office applications.

- Photo: This profile combines color saturation, dynamic contrast and sharpness enhancement to display photos and other images with outstanding clarity in vibrant colors - all without artifacts and faded colors.
- Movie: Ramped up luminance, deepened color saturation, dynamic contrast and razor sharpness displays every details in darker areas of your videos without color washout in brighter areas maintaining a dynamic natural values for the ultimate video display.
- Game: Turn on over drive circuit for best response time, reduce jaggy edges for fast moving objects on screen, enhance contrast ratio for bright and dark scheme, this profile delivers the best gaming experience for gamers.
- Economy: Under this profile, brightness, contrast are adjusted and backlighting finetuned for just right display of everyday office applications and lower power consumption.
- 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 displays can cause eye damage and affect vision over time. Developed for wellbeing, Philips LowBlue Mode setting uses a smart software technology to reduce harmful shortwave blue light.
- SmartUniformity: Fluctuations in brightness and color on different parts of a screen are a common phenomenon among LCD monitors.

Typical uniformity is measured around 75-80%. By enabling Philips SmartUniformity feature, display uniformity is increased to above 95%. This produces more consistent and true images.

• Off: No optimization by SmartImage.

Note

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

3.2 SmartContrast

1 What is it?

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. PowerSensor™

1 How does it work?

- PowerSensor works on principle of transmission and reception of harmless "infrared" signals in order to detect user-presence.
- When the user is in front of the monitor, the monitor operates normally, at the predetermined settings that the user has set- i.e. brightness, contrast, color, etc
- Assuming that the monitor was set to 100% of brightness for example, when the user leaves his seat and is no longer in front of the monitor, the monitor automatically reduces the power consumption upto 80%.

User present in front User not present



Power consumption as illustrated above is for reference purpose only

2 Setting

Default settings

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

Custom settings

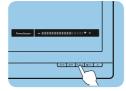
If you prefer to be in a position outside the perimeters listed above, choose a higher strength signal for optimal detection efficiency: The higher the setting, the stronger the detection signal. For maximum PowerSensor efficiency and proper detection, please position yourself directly in front of your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

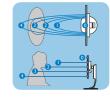
 If you choose to position yourself more than 100 cm or 40 inches from the monitor use the maximum detection signal for distances up to 120 cm or 47 inches. (Setting 4)

• Since some dark colored clothing tends to absorb infrared signals even when the user is within 100 cm or 40 inches of the display, step up signal strength when wearing black or other dark clothes.

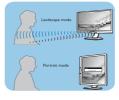
Hot key

Sensor distance





Landscape/Portrait mode



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

3 How to adjust settings

If PowerSensor is not operating correctly inside or outside the default range, here's how to fine-tune detection:

- Press the PowerSensor hot key.
- You will find the adjustment bar.
- Adjust the PowerSensor detection adjustment to Setting 4 and press OK.
- Test the new setup to see if PowerSensor properly detects you in your current position.
- PowerSensor function is designed to work in Landscape mode (horizontal position) only. After PowerSensor turn on it, it will automatically turn Off if the monitor is used in Portrait mode (90 degree/vertical position); it will automatically turn ON if

4. PowerSensor

monitor is returned to its default Landscape position.

Note

A manually selected PowerSensor mode will remain operational unless and until it is readjusted or the default mode is recalled. If you find that the PowerSensor is excessively sensitive to nearby motion for some reason, please adjust to a lower signal strength. Keep sensor lens clean, if the sensor lens is dirty, wipe it with alcohol to avoid reducing of distance detection .

5. Adaptive Sync



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

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

Followed by the graphic card that are compatible.

- Operating system
 - Windows 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
 - AMD Radeon R9 290X

- AMD Radeon R9 290
- AMD Radeon R9 285
- AMD Radeon R7 260X
- AMD Radeon R7 260
- Processor A-Series Desktop and Mobility APUs
 - AMD A10-7890K
 - AMD A10-7870K
 - AMD A10-7850K
 - AMD A10-7800
 - AMD A10-7700K
 - AMD A8-7670K
 - AMD A8-7650K
 - AMD A8-7600
 - AMD A6-7400K

6. Designs to prevent computer vision syndrome (CVS)

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

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

- 1. Appropriate environment lighting:
 - Adjusting the environment lighting similar to that of your screen brightness, avoid the fluorescent lighting, and surfaces that don't reflect too much light.
 - Adjusting the brightness and contrast to appropriate level.
- 2. Good working habits:
 - Excessive usage of monitor can cause eye discomfort, it's better to take shorter breaks more often at your workstation than longer breaks and less often; for example a 5-10 minute break after 50-60-minute continuous screen use is likely to be better than a 15-minute break every two hours.
 - Looking at something varying distances after a long period focusing on the screen.
 - Gently closing and rolling your eyes to relax.
 - Conscious blinking often while working.
 - Gently stretch your neck, and slowly tilt your head forward, backward, side for pain relief.

- 3. Ideal working posture
 - Reposition your screen to appropriate height and angle according to your height.
- 4. Choose Philips monitor for easy-oneyes.
 - Anti-glare screen: Anti-glare screen efficiently reduces annoying and distracting reflections that caused eye fatigue.
 - Flicker-free technology designs to regulate brightness and reduce flicker for more comfortable viewing.
 - LowBlue mode: Blue light may cause eye strains. Philips LowBlue mode allows you to set different blue light filter levels for variety working situation.
 - EasyRead mode for a paperlike reading experience, giving a more comfortable viewing experience while dealing with long documents on the screen.

7. Technical Specifications

Display Panel TypeVABacklightW-LEDPanel Size $31.5" W (80 cm)$ Aspect Ratio16:9Pixel Pitch $0.18159(W) \times 0.18159(H)$ Contrast ratio(typical) $3000:1$ Optimum Resolution $3840 \times 2160@60Hz$ Viewing Angle178" (H) / 178" (V) @ C/R > 10 (Typ.)Display Colors16.7M (8 bits)Flicker FreeYESPicture EnhancementSmartImageVertical Refresh Rate40-60HzHorizontal Frequency30kHz-140kHzsRGBYESColor GamutYESLowBlue ModeYESSmartUniformityYESDelta EYESEasyReadYESConnectivityUSB upstream x 1 (upstream)USBUSB upstream x 1 (upstream)USBUSB upstream x 1 (upstream)JugalSeparate SyncAudio In/OutAudio outConvenience $91^4 = 0^7 \mod 0^6$ Built-in speaker $3W \times 2$ SDD Languages $Binglish, German, Spanish, Greek, French, Italian, Hungarian, Dutch, Portuguese, Basil Portuguese, Polish, Russian, Swedish, Finnish, Turkish, Czech, Ukranian, Simplified Chinese, Traditional Chinese, Japanese, KoreanOther ConvenienceVESA mount(100-100mm), Kensington LockPlug & Play CompatibilityDDC/CI, Mac OS X, sRGB, Windows 10/8.1/8/7Stand-180 / +180 degreeFlight adjustment180mmPluot-90 / +90 degree$	Picture/Display		
Panel Size31.5" W (80 cm)Aspect Ratio16:9Pixel Pitch0.18159(W) × 0.18159(H)Contrast ratio(typical)3000:1Optimum Resolution3840 × 2160@60HzViewing Angle178" (H) / 178" (V) @ C/R > 10 (Typ.)Display Colors16.7M (8 bits)Flicker FreeYESPicture EnhancementSmartImageVertical Refresh Rate40-60HzHorizontal Frequency30kHz-140kHzsRGBYESColor GamutYESLowBlue ModeYESSmartUniformityYESDelta EYESConnectivitySignal InputHDMI 2.0 x 2, DisplayPort 1.2 x 1USBUSB upstream x 1 (upstream) USB3.2 x 4 (downstream with x 1 fast charge B.C 1.2)Input SignalSeparate SyncAudio In/OutAudio outConvenience $\mathbb{P}^{V} = \mathbb{P}^{V} = 0$ Built-in speaker3 W x 2Signal InputHDMI 2.0 x 2, DisplayPort 1.2 x 1USBSeparate SyncAudio In/OutAudio outConvenience $\mathbb{P}^{V} = \mathbb{P}^{V} = 0$ Built-in speaker3 W x 2Conspanses, KoreanSimplified Chinese, Traditional Chinese, Japanese, KoreanOther ConvenienceVESA mount(100×100mm), Kensington LockPlug & Play CompatibilityDDC/CI, Mac OS X, SRGB, Windows 10/8.1/8/7StandTillt $-5/+30$ degreeWivel-180 / +180 degreeHeight adjustment180mm	Display Panel Type	VA	
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Pixel Pitch $0.18159(W) \times 0.18159(H)$ Contrast ratio(typical) $3000:1$ Optimum Resolution $3840 \times 2160@60Hz$ Viewing Angle 178° (H) / 178° (V) @ C/R > 10 (Typ.)Display Colors $16.7M$ (8 bits)Flicker FreeYESPicture EnhancementSmartImageVertical Refresh Rate $40-60Hz$ Horizontal Frequency $30kHz-140kHz$ SRGBYESColor GamutYESLowBlue ModeYESDelta EYESEasyReadYESConnectivitySignal InputHDMI 2.0 x 2, DisplayPort 1.2 x 1USBUSB upstream x1 (upstream)USBUSB upstream x1 (upstream)USBSeparate SyncAudio In/OutAudio outConvenience $19/4 @ 1/7 @ 000 @ 0$ Built-in speaker $3 W \times 2$ CSD LanguagesEnglish, German, Spanish, Greek, French, Italian, Hungarian, Dutch, Portuguese, Brasil Portuguese, Polish, Russian, Swedish, Finnish, Turkish, Czech, Ukranian, Simplified Chinese, Traditional Chinese, Japanese, KoreanOther ConvenienceVESA mount(100-100mm), Kensington LockPlug & Play CompatibilityDDC/CI, Mac OS X, sRGB, Windows 10/8.1/8/7StandTitt $-5 / +30$ degreeSwivel $-180 / +180$ degreeHeight adjustment180mm	Panel Size	31.5" W (80 cm)	
Contrast ratio(typical) $3000:1$ Optimum Resolution $3840 \times 2160@60Hz$ Viewing Angle 178° (H) / 178° (V) @ C/R > 10 (Typ.)Display Colors16.7M (8 bits)Flicker FreeYESPicture EnhancementSmartImageVertical Refresh Rate $40-60Hz$ Horizontal Frequency $30KHz-140KHz$ sRGBYESColor GamutYESLowBlue ModeYESSmartUniformityYESDelta EYESConnectivitySignal InputHDMI 2.0 x 2, DisplayPort 1.2 x 1USBUSB upstream x 1 (upstream)USBUSB upstream x 1 (upstream)USBUSB x 2 (downstream with x 1 fast charge B.C 1.2)Input SignalSeparate SyncAudio In/OutAudio outConvenience $19/4 @17 $ 100% 0 USSD Languages $18/4 @17 $ 100% 0 OSD LanguagesVESA mount(100×100mm), Kensington LockPlug & Play CompatibilityDDC/C1, Mac OS X, sRGB, Windows 10/8.1/8/7StandTit $-5 / +30$ degreeSwivel $-180 / +180$ degree	Aspect Ratio	16:9	
Optimum Resolution $3840 \times 2160@60Hz$ Viewing Angle $178" (H) / 178" (V) @ C/R > 10 (Typ.)$ Display Colors $16.7M (B bits)$ Flicker FreeYESPicture EnhancementSmartImageVertical Refresh Rate $40-60Hz$ Horizontal Frequency $30kHz-140kHz$ sRGBYESColor GamutYESLowBlue ModeYESDelta EYESEasyReadYESConnectivityYESSignal InputHDMI 2.0 x 2, DisplayPort 1.2 x 1USBUSB upstream x 1 (upstream)USBUSB 2.2 x 4 (downstream with x 1 fast charge B.C 1.2)Input SignalSeparate SyncAudio In/OutAudio outConvenience $19/4 @10" @10% @10% @10% @10%USD LanguagesEnglish, German, Spanish, Greek, French, Italian, Hungarian, Dutch, Portuguese, Palsil, Nerainan, Simplified Chinese, Traditional Chinese, Japanese, KoreanOther ConvenienceVESA mount(100×100mm), Kensington LockPlug & Play CompatibilityDCC1, Mac OS X, SRGB, Windows 10/8.1/8/7StandTitt-5/+30 degreeSwivel-180/+180 degree$	Pixel Pitch	0.18159(W) x 0.18159(H)	
Viewing Angle 178° (H) / 178° (V) @ C/R > 10 (Typ.)Display Colors16.7M (8 bits)Flicker FreeYESPicture EnhancementSmartImageVertical Refresh Rate40-60HzHorizontal Frequency30kHz-140kHzsRGBYESColor GamutYESLowBlue ModeYESBeatureYESColor GamutYESLowBlue ModeYESSmartUniformityYESDelta EYESEasyReadYESConnectivitySignal InputHDMI 2.0 x 2, DisplayPort 1.2 x 1USBUSB upstream x 1 (upstream) USB3.2 x 4 (downstream with x 1 fast charge B.C 1.2)Input SignalSeparate SyncAudio In/OutAudio outConvenience $19/4 \circ 100000000000000000000000000000000000$	Contrast ratio(typical)	3000:1	
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Flicker FreeYESPicture EnhancementSmartImageVertical Refresh Rate40-60HzHorizontal Frequency30kHz-140kHzsRGBYESColor GamutYESLowBlue ModeYESSmartUniformityYESDelta EYESEasyReadYESConnectivitySignal InputHDMI 2.0 x 2, DisplayPort 1.2 x 1USBUSB upstream x 1 (upstream)USBUSB upstream x 1 (upstream)USBSeparate SyncAudio In/OutAudio outConvenience10/4 @I/4 @I/4 @I/4 @I/4 @I/4 @I/4 @I/4 @I	Viewing Angle	178° (H) / 178° (V) @ C/R > 10 (Typ.)	
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Horizontal Frequency30kHz-140kHzsRGBYESColor GamutYESLowBlue ModeYESSmartUniformityYESDelta EYESEasyReadYESConnectivitySignal InputHDMI 2.0 x 2, DisplayPort 1.2 x 1USBUSB upstream x 1 (upstream)USBUSB aparte SyncAudio In/OutAudio outConvenienceUSF convenienceImput Imput I	Picture Enhancement	SmartImage	
sRGB YES Color Gamut YES LowBlue Mode YES SmartUniformity YES Delta E YES EasyRead YES Connectivity YES Signal Input HDMI 2.0 × 2, DisplayPort 1.2 × 1 USB USB upstream × 1 (upstream) USB USB3.2 × 4 (downstream with × 1 fast charge B.C 1.2) Input Signal Separate Sync Audio In/Out Audio out Convenience Image: Signal, Greek, French, Italian, Hungarian, Dutch, Portuguese, Brasil Portuguese, Polish, Russian, Swedish, Finnish, Turkish, Czech, Ukranian, Simplified Chinese, Traditional Chinese, Japanese, Korean Other Convenience VESA mount(100×100mm), Kensington Lock Plug & Play Compatibility DDC/CI, Mac OS X, sRGB, Windows 10/8.1/8/7 Stand -5 / +30 degree Swivel -180 / +180 degree Height adjustment 180mm	Vertical Refresh Rate	40-60Hz	
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Input SignalSeparate SyncAudio In/OutAudio outConvenienceUSER convenienceImput Imput Impu	LISB		
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ConvenienceUSER convenienceImprove Improve	Input Signal	Separate Sync	
USER convenienceImplies the matrixImplies the matrixBuilt-in speaker3 W x 2Built-in speakerEnglish, German, Spanish, Greek, French, Italian, Hungarian, Dutch, Portuguese, Brasil Portuguese, Polish, Russian, Swedish, Finnish, Turkish, Czech, Ukranian, Simplified Chinese, Traditional Chinese, Japanese, KoreanOther ConvenienceVESA mount(100×100mm), Kensington LockPlug & Play CompatibilityDDC/CI, Mac OS X, sRGB, Windows 10/8.1/8/7Stand-5 / +30 degreeSwivel-180 / +180 degreeHeight adjustment180mm	Audio In/Out	Audio out	
Built-in speaker3 W x 2Built-in speaker3 W x 2COSD LanguagesEnglish, German, Spanish, Greek, French, Italian, Hungarian, Dutch, Portuguese, Brasil Portuguese, Polish, Russian, Swedish, Finnish, Turkish, Czech, Ukranian, Simplified Chinese, Traditional Chinese, Japanese, KoreanOther ConvenienceVESA mount(100×100mm), Kensington LockPlug & Play CompatibilityDDC/CI, Mac OS X, sRGB, Windows 10/8.1/8/7Stand-5 / +30 degreeSwivel-180 / +180 degreeHeight adjustment180mm	Convenience		
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Plug & Play CompatibilityDDC/CI, Mac OS X, sRGB, Windows 10/8.1/8/7Stand-5 / +30 degreeTilt-5 / +30 degreeSwivel-180 / +180 degreeHeight adjustment180mm	OSD Languages	Hungarian, Dutch, Portuguese, Brasil Portuguese, Polish, Russian, Swedish, Finnish, Turkish, Czech, Ukranian, Simplified Chinese, Traditional Chinese, Japanese,	
StandTilt-5 / +30 degreeSwivel-180 / +180 degreeHeight adjustment180mm	Other Convenience	VESA mount(100×100mm), Kensington Lock	
Tilt-5 / +30 degreeSwivel-180 / +180 degreeHeight adjustment180mm	Plug & Play Compatibility DDC/CI, Mac OS X, sRGB, Windows 10/8.1/8/7		
Swivel-180 / +180 degreeHeight adjustment180mm	Stand		
Height adjustment 180mm	Tilt	-5 / +30 degree	
	Swivel	-180 / +180 degree	
	Height adjustment	180mm	
	Pivot	-90 / +90 degree	

7. Technical Specifications

Power			
	AC Input	AC Input	AC Input
Consumption	Voltage at	Voltage at	Voltage at
	100VAC, 60Hz	115VAC, 60Hz	230VAC, 50Hz
Normal Operation	60.8 W (typ.)	60.3 W (typ.)	60.2 W (typ.)
Sleep (Standby mode) Off mode	0.3 W(typ.)	0.3 W(typ.)	0.3 W(typ.)
Off mode(AC switch)	0.3 W(typ.)	0.3 W(typ.)	0.3 W(typ.) OW(typ.)
Off mode(AC Switch)	OW(typ.) AC Input	OW(typ.) AC Input	AC Input
Heat Dissipation*	Voltage at	Voltage at	Voltage at
ricat Dissipation	100VAC, 60Hz	115VAC, 60Hz	230VAC, 50Hz
	207.5 BTU/hr	205.8 BTU/hr	205.5 BTU/hr
Normal Operation	(typ.)	(typ.)	(typ.)
Sloop (Standby mode)	1.02 BTU/	1.02 BTU/	1.02 BTU/
Sleep (Standby mode)	hr(typ.)	hr(typ.)	hr(typ.)
Off mode	1.02 BTU/	1.02 BTU/	1.02 BTU/
	hr(typ.)	hr(typ.)	hr(typ.)
Off mode(AC switch)	0 BTU/hr(typ.)	0 BTU/hr(typ.)	0 BTU/hr(typ.)
On Mode(ECO mode)	37.1 W (typ.)		
PowerSensor	12.2 W (typ.)		
Power LED indicator	On mode: White, Standby/Sleep mode: White (blinking)		
Power Supply	Built-in, 100-240	V AC, 50/60Hz	
Dimensions			
Product with stand (WxHxD)	714 x 649 x 280 m	าทา	
Product without stand (WxHxD)	714 x 422 x 62 mn	n	
Product with packaging (WxHxD)	930 x 563 x 186 n	าm	
Weight			
Product with stand	11.55 kg		
Product without stand	7.54 kg		
Product with packaging	14.76 kg		
Operating Condition			
Temperature range	0°C to 40 °C		
(operation)			
Relative humidity	20% to 80%		
(operation)	(operation)		
Atmospheric pressure (operation)	700 to 1060hPa		
Temperature range (Non-operation) -20°C to 60°C			

7. Technical Specifications

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. SmartUniformity and Delta E information sheets are included in the box.
- 3. Power delivery function will base on laptop's capability.

7.1 Resolution & Preset Modes

1 Maximum Resolution

3840 x 2160 @ 60 Hz

2 Recommended Resolution

3840 x 2160 @ 60 Hz

H. freq (kHz)	Resolution	V. freq (Hz)
31.47	720 x 400	70.09
31.47	640 x 480	59.94
35.00	640 x 480	66.67
37.86	640 x 480	72.81
37.50	640 x 480	75.00
35.16	800 x 600	56.25
37.88	800 x 600	60.32
46.88	800 x 600	75.00
48.08	800 x 600	72.19
47.73	832 x 624	74.55
48.36	1024 x 768	60.00
56.48	1024 x 768	70.07
60.02	1024 x 768	75.03
44.77	1280 x 720	59.86
60	1280 x 960	60
63.89	1280 x 1024	60.02
79.98	1280 x 1024	75.03
55.94	1440 x 900	59.89
65.29	1680 x 1050	59.95
67.50	1920 x 1080	60.00
133.293	1920 X2160	59.99
88.79	2560 x 1440	59.95
67.50	3840 x 2160	30.00
135.50	3840 x 2160	60.00

Note

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

For best display quality, please follow this resolution recommendation.

8. Power Management

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

Power Management Definition								
VESA Mode	Video	H-sync	V-sync	Power Used	LED Color			
Active	ON	Yes	Yes	60.3 W (typ.) 121.2 W (max.)	White			
Sleep (Standby mode)	OFF	No	No	0.3 W (typ.)	White (blink)			
Off mode(AC switch)	node(AC OFF -		-	OW (AC switch)	OFF			

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

- Native resolution: 3840 x 2160
- Contrast: 50%
- Brightness: 70%
- Color temperature: 6500k with full
 white pattern
- Audio and USB Inactive (Off)

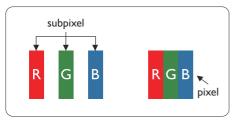
Note

This data is subject to change without notice.

9. Customer care and warranty

9.1 Philips' Flat Panel Displays Pixel Defect Policy

Philips strives to deliver the highest guality 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 Display panels used in flat panel displays are sometimes unavoidable. No manufacturer can guarantee that all panels will be free from pixel defects, but Philips guarantees that any display 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 gualify for repair or replacement under warranty, the number of pixel defects on a TFT Display panel must exceed these acceptable levels. For example, no more than 0.0004% of the sub pixels on a display may be defective. Furthermore, Philips sets even higher guality standards for certain types or combinations of pixel defects that are more noticeable than others. This policy is valid worldwide



Pixels and Sub pixels

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

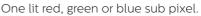
Types of Pixel Defects

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

Bright Dot Defects

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







Two adjacent lit sub pixels:

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



Three adjacent lit sub pixels (one white pixel).

Note

Ā 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.

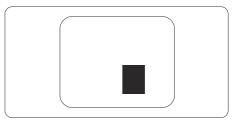
Black Dot Defects

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 display 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 Display panel in a Philips flat panel display must have pixel or sub pixel defects exceeding the tolerances listed in the following tables. 9. 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*	>15mm
Total bright dot defects of all types	3
BLACK DOT DEFECTS	ACCEPTABLE LEVEL
1 dark subpixel	5 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	5 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

9.2 Customer Care & Warranty

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

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

For Warranty Period please refer to Warranty Statement in 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.

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

Philips Customer Care Center number listed below.

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

Note

- 1. Please refer to important information manual for regional service hotline, which is available on the Philips website support page.
- 2. Spare parts are available for use in the repair of the product for minimum threeyear from your original purchase date or 1 year after the end of production, whichever is longer.

10. Troubleshooting & FAQs

10.1 Troubleshooting

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

1 Common Problems

No Picture (Power LED not lit)

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

No Picture (Power LED is White)

- Make sure the computer is turned on.
- Make sure the signal cable is properly connected to your computer.
- Make sure the 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.

AUTO button doesn't function

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

Note

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

Visible signs of smoke or sparks

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

2 Imaging Problems

Image is not centered

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

Image vibrates on the screen

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

Vertical flicker appears



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

Horizontal flicker appears

10. Troubleshooting & FAQs



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

Image appears blurred, indistinct or too dark

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

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

- Uninterrupted display of still or static images over an extended period may cause "burn-in", also known as "after-imaging" or "ghost imaging", on your screen. "Burn-in", "afterimaging", 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.
- Failure to activate a screen saver, or a periodic screen refresh application may result in severe "burn-in" or "after-imaging" or "ghost imaging" symptoms that will not disappear and cannot be repaired. The damage

mentioned above is not covered under your warranty.

Image appears distorted. Text is fuzzy or blurred.

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

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

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

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

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

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

* Functionality different according to display.

10.2 General FAQs

- Q1: When I install my monitor what should I do if the screen shows 'Cannot display this video mode'?
- Ans.: Recommended resolution for this monitor: 3840 x 2160.
- Unplug all cables, then connect your PC to the monitor that you used previously.
- In the Windows Start Menu, select Settings/Control Panel. In the Control Panel Window, select the Display icon. Inside the Display Control Panel, select the 'Settings' tab. Under the

10. Troubleshooting & FAQs

setting tab, in box labelled 'desktop area', move the sidebar to 3840 x 2160 pixels.

- Open 'Advanced Properties' and set the Refresh Rate to 60 Hz, then click OK.
- Restart your computer and repeat step 2 and 3 to verify that your PC is set at 3840 x 2160.
- Shut down your computer, disconnect your old monitor and reconnect your Philips LCD monitor.
- Turn on your monitor and then turn on your PC.
- Q2: What are the .inf and .icm files on the CD-ROM? How do I install the drivers (.inf and .icm)?
- Ans.: These are the driver files for your monitor. Follow the instructions in your user manual to install the drivers. Your computer may ask you for monitor drivers (.inf and .icm files) or a driver disk when you first install your monitor. Follow the instructions to insert the (companion CD-ROM) included in this package. 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 ⊜/OK button, then select 'Setup' >'Reset' to recall all of the original factory settings.

- Q5: 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.
- Q6: 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.
- 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 "OK" to show the OSD (On Screen Display) menu
- Press "Down Arrow" to select the option "Color" then press "OK" to enter color setting, there are three settings as below.
 - 1. Color Temperature: The settings are Native, 5000K, 6500K, 7500K, 8200K, 9300K and 11500K. With settings in the 5000K range the panel appears "warm, with a red-white color tone", while a 11500K temperature yields "cool, bluewhite toning".
 - 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 Kevin temperatures such as 2004K are red; higher temperatures such as 9300K are blue. Neutral temperature is white, at 6504K.

- Q8: Can I connect my LCD monitor to any PC, workstation or Mac?
- Ans.: Yes. All Philips LCD monitors are fully compatible with standard PCs, Macs and workstations. You may need a cable adapter to connect the monitor to your Mac system. Please contact your Philips sales representative for more information.
- Q9: Are Philips LCD monitors Plugand- Play?
- Ans.: Yes, the monitors are Plug-and-Play compatible with Windows 10/8.1/8/7, Mac OSX.
- Q10: What is Image Sticking, or Image Burn-in, or After Image, or Ghost Image in LCD panels?
- Ans.: Uninterrupted display of still or static images over an extended period may cause "burn-in", also known as "after-imaging" or "ghost imaging", on your screen. "Burn-in", "after-imaging", or "ghost imaging" is a well-known phenomenon in LCD panel technology. In most cases, the "burn-in" or "after-imaging" or "ghost imaging" will disappear

gradually over a period of time after the power has been switched off.

Always activate a moving screen saver program when you leave your monitor unattended. Always activate a periodic screen refresh application if your LCD monitor will display unchanging static content.

Warning

Failure to activate a screen saver, or a periodic screen refresh application may result in severe "burn-in" or "afterimage" 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 LCD monitor works best at its native resolution of 3840 x 2160. For best display, please use this resolution.
- Q12: How to unlock/lock my hot key?
- Ans.: To lock the OSD, press and hold the ⊜/OK button while the monitor is off and then press () button to turn the monitor on. To un-lock the OSD, press and hold the ⊜/OK button while the monitor is off and then press () button to turn the monitor on.

Display controls unlocked

Display 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.



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