

**PHILIPS**

Momentum

345M1



[www.philips.com/welcome](http://www.philips.com/welcome)

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# 1. Important

This electronic user's guide is intended for anyone who uses the Philips monitor. Take time to read this user'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 at all times. If your power cord is missing, please contact your local service center. (Please refer to Service contact information listed in Regulation & Service Information Manual.)
- Operate under the specified power supply. Be sure to operate the monitor only with the specified power supply. Use of an incorrect voltage will cause malfunction and may cause fire or electric shock.
- Protect the cable. Do not pull or bend the power cable and signal cable. Do not place the monitor or any other heavy objects on the cables, if damaged, the cables may cause fire or electric shock.
- Do not subject the monitor to severe vibration or high impact conditions during operation.
- To avoid potential damage, for example the panel peeling from the bezel, ensure that the monitor does not tilt downward by more than -5

## i. Important

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.

## 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 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

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service center. (Please refer to Service contact information listed in Regulation & Service Information Manual.)

- For transportation information, please refer to “Technical Specifications”.
- Do not leave your monitor in a car/trunk under direct sun light.

### Note

Consult a service technician if the monitor does not operate normally, or you are not sure what procedure to take when the operating instructions given in this manual have been followed.

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## 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 monitor is manufactured with high quality materials and components which can be recycled and reused.

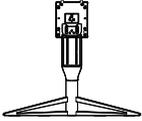
To learn more about our recycling program please visit

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

## 2. Setting up the monitor

### 2.1 Installation

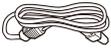
#### 1 Package contents



Stand/Base



I/O Cover



Power



\* HDMI



\* USB A-B

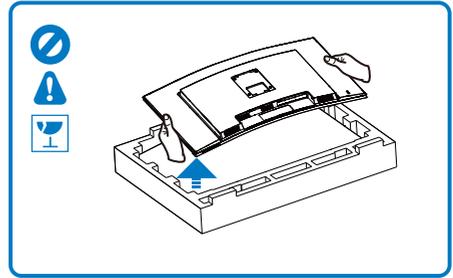
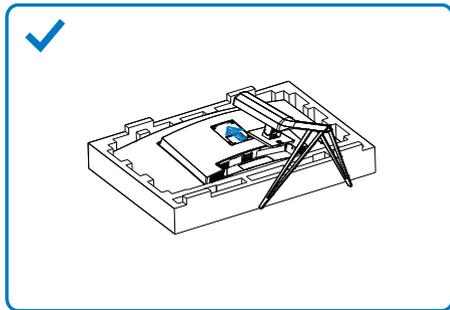


\* DP

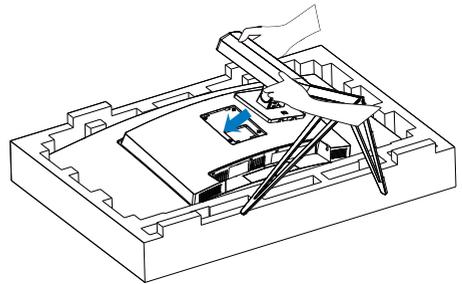
\*Different according to region.

#### 2 Install the base

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



2. Hold the stand with both hands. Gently attach the stand to the VESA mount area until the latch locks the stand.

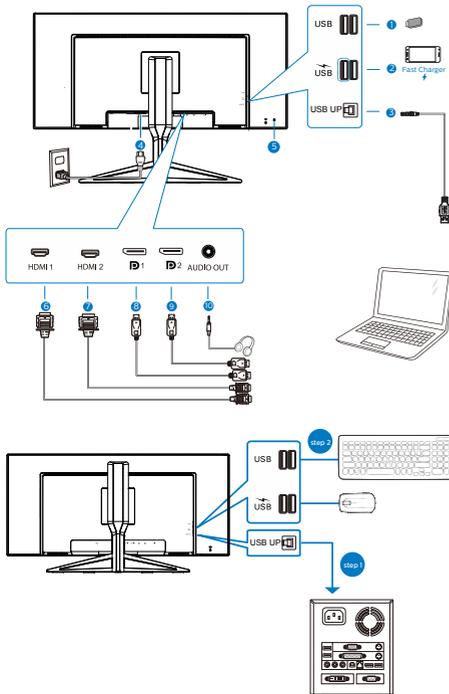


#### Warning

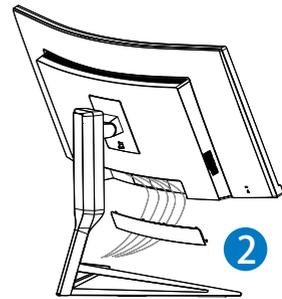
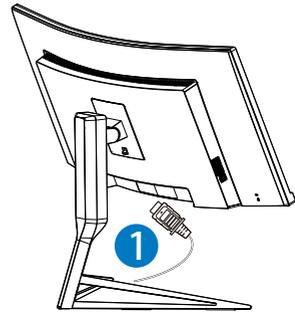
This product is curve design, when attach / detach the base, place the protective material under the monitor and do not press down the monitor to avoid the damage.

## 2. Setting up the monitor

### 3 Connecting to your PC



- ❶ USB downstream
- ❷ USB downstream/USB fast charger
- ❸ USB upstream
- ❹ AC power input
- ❺ Kensington anti-theft lock
- ❻ HDMI1 input
- ❼ HDMI2 input
- ❽ DisplayPort1 input
- ❾ DisplayPort2 input
- ❿ Earphone jack



#### 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. After connecting cables, slide the I/O cover into the slots on the rear monitor and snap the I/O cover into the place.
6. Turn on your computer and monitor. If the monitor displays an image, installation is complete.

## 2. Setting up the monitor

### 4 USB hub

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

Connected USB devices will not work in this state.

### 5 USB charging

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

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

### Warning

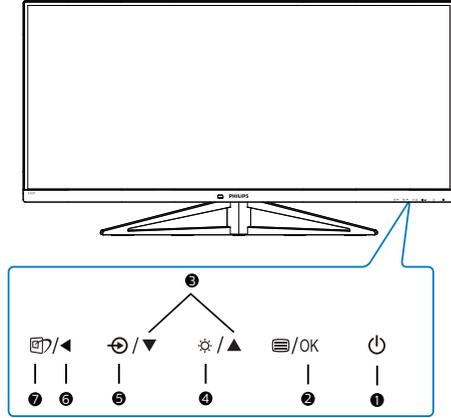
USB 2.4Ghz wireless devices, such as, wireless mouse, keyboard, and headphones, maybe have interference by USB3.2 or higher version, the high-speed signal devices, which may result in a decreased efficiency of the radio transmission. Should this happen, please try the following methods to help reduce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

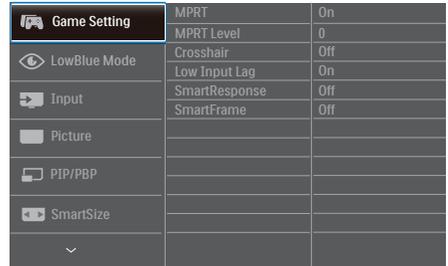


1		Switch display's power ON or OFF.
2		Access the OSD menu. Confirm the OSD adjustment.
3		Adjust the OSD menu.
4	USER	Adjust the brightness level.
5		Change the signal input source.
6		Return to previous OSD level.
7		SmartImage hot key. There are multiple modes to select: FPS, Racing, RTS, Game1, Game2, LowBlue Mode, SmartUniformity, 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.

### 2 Description of the On Screen Display

#### What is On-Screen Display (OSD)?

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



Basic and simple instruction on the control keys

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

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

## 2. Setting up the monitor

### 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	MPRT	On, Off
	MPRT Level	0-10
	Crosshair	On, Off
	Low Input Lag	On, Off
	SmartResponse	Off, Fast, Faster, Fastest
	SmartFrame	On, Off
		Size (0,1,2,3,4,5,6,7)
		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	
	DisplayPort1	
	DisplayPort2	
Picture	SmartImage Game	FPS,Racing,RTS,Gamer1,Gamer2,LowBlue Mode,SmartUniformity,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	Off, PIP, PBP
	PIP / PBP Input	HDMI1, HDMI2, DisplayPort1, DisplayPort2
SmartSize	Panel Size	17" (5:4) 19" (5:4) 19"W (6:10) 22"W (6:10) 18.5"W (6:9) 19.5"W (6:9) 20"W (6:9) 21.5"W (6:9) 23"W (6:9) 24"W (6:9) 27"W (6:9) 34"W (6:9)
	1:1	
	Aspect	
Audio	Volume	0-100
	Mute	On, Off
	Audio Source	HDMI1, HDMI2, DisplayPort1, DisplayPort2
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, <b>EMagyar</b> , Français, Italiano, Magyar, Nederlands, Português, Português do Brasil, Polski, <b>Pyccozh</b> , Svenska, Suomi, Türkçe, Čeština, <b>Yapahoeva</b> , 简体中文, 繁體中文, 日本語,  한국어
OSD Settings	Horizontal	0-100
	Vertical	0-100
	Transparency	Off, 1, 2, 3, 4
	OSD Time Out	5, 10, 20, 30, 60
Setup	Power LED	0, 1, 2, 3, 4
	Resolution Notification	On, Off
	Reset	Yes, No
	Information	

### 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 and SmartImage while MPRT is turned on.
- MPRT is gaming-optimized mode. It is recommended to turn off when you are not using the gaming function.

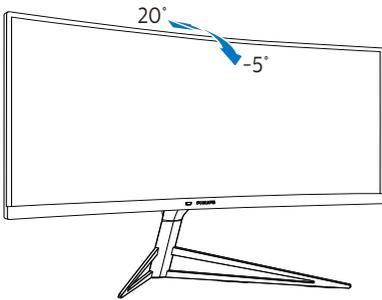
### 3 Resolution notification

This display is designed for optimal performance at its native resolution, 3440x1440. When the display is powered on at a different resolution, an alert is displayed on screen: Use 3440x1440 for best results. Display of the native resolution alert can be switched off from Setup in the OSD (On Screen Display) menu.

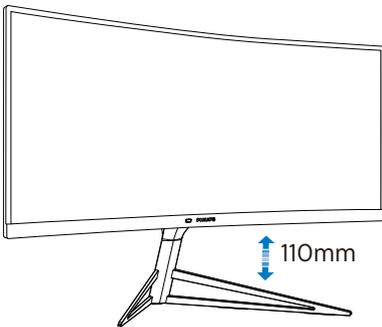
Display of the native resolution alert can be switched off from Setup in the OSD (On Screen Display) menu.

## 5 Physical Function

### Tilt



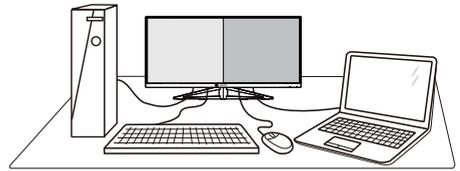
### Height adjustment



### ⚠ Warning

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

## 2.3 MultiView



### 1 What is it?

Multiview enables active dual 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.

## 2. Setting up the monitor

### 3 How to enable MultiView by OSD menu?

1. Press  button on the front bezel to enter OSD Menu Screen.

 Game Setting	PIP / PBP Mode	Off
	PIP / PBP Input	1HDMI 2.0
 LowBlue Mode	PIP Size	Small
	PIP Position	Top-Right
 Input	Swap	
 Picture		
 PIP/PBP		
 SmartSize		

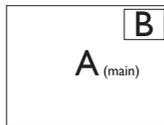
2. Press  or  button to select main menu [PIP / PBP], then press **OK** button.
3. Press  or  button to select [PIP / PBP Mode], then press **OK** button.
4. Press  or  button to select [PIP] or [PBP].
5. Now you can move backward to set the [PIP / PBP Mode], [PIP / PBP Input], [PIP Size], [PIP Position], or [Swap].
6. Press **OK** button to confirm your selection.

### 4 MultiView in OSD menu

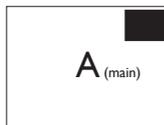
- **PIP / PBP Mode:** There are two modes for MultiView: **[PIP]** and **[PBP]**.

#### [PIP]: Picture in Picture

Open up a sub-window of another signal source.

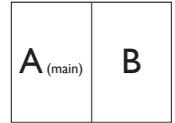


When the sub source is not detected:



#### [PBP]: Picture by Picture

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



When the sub source is not detected:



#### 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 is not support this full screen in PBP mode.

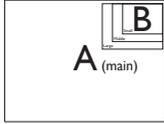
- **PIP / PBP Input :** There are four different video input to choose as the sub display source: **[1 HDMI 2.0]**, **[2 HDMI 2.0]**, **[DisplayPort1]** and **[DisplayPort2]**.

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

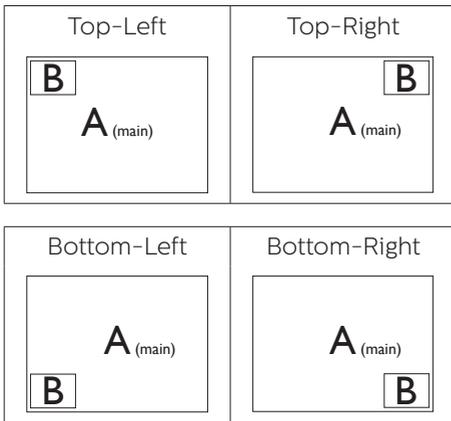
		SUB SOURCE POSSIBILITY (x)			
MultiView	Inputs	1 HDMI 2.0	2 HDMI 2.0	DisplayPort1	DisplayPort2
MAIN SOURCE (x)	1 HDMI 2.0	•	•	•	•
	2 HDMI 2.0	•	•	•	•
	DisplayPort1	•	•	•	•
	DisplayPort2	•	•	•	•

## 2. Setting up the monitor

- **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.

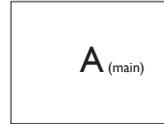
Swap A and B source in [PIP] mode:



Swap A and B source in [PBP] mode:



- **Off:** Stop MultiView function.



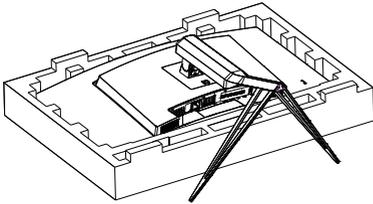
### Note

When you do the SWAP function, the video and its audio source will swap at the same time.

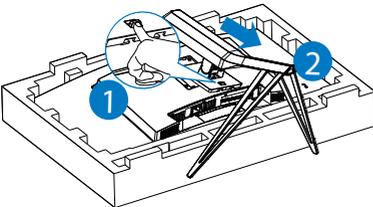
## 2.4 Remove the Base Assembly for VESA Mounting

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

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

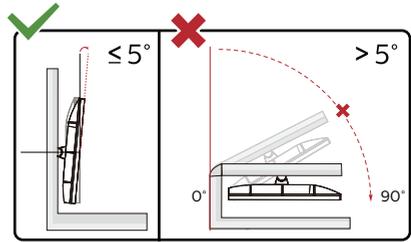
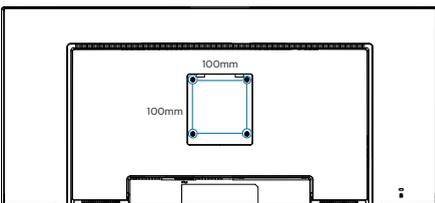


2. While keeping the release button pressed, tilt the base and slide it out.



### Note

This display 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.

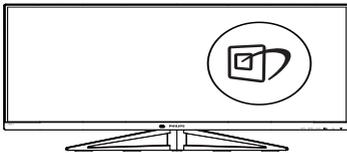
#### 2 Why do I need it?

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?

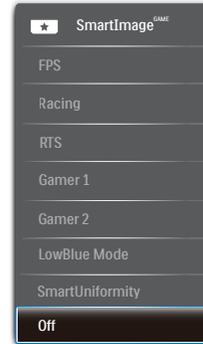


1. Press  to launch the SmartImage on screen display.
1. Keep pressing   to toggle among

FPS, Racing, RTS, Game1, Game2, LowBlue Mode, SmartUniformity, Off.

2. 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: FPS, Racing, RTS, Gamer1, Gamer2, LowBlue Mode, SmartUniformity 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

### 3. Image Optimization

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.

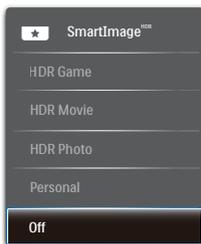
- **SmartUniformity:** Fluctuations in brightness and color on different parts of a screen are a common phenomenon among LCD displays. Typical uniformity is measured around 75-80%. By enabling Philips SmartUniformity feature, display uniformity is increased to above 95%. This produces more consistent and true images.
- **Off:** No optimization by SmartImage.

#### ☰ Note

Philips LowBlue mode, you can have this mode by simply press the hotkey , then press **▲** to select LowBlue Mode, see above SmartImage selection steps.

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.

## 3.3 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.

- 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
- 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

## 4. HDR

HDR Settings in Windows10 system.

Steps

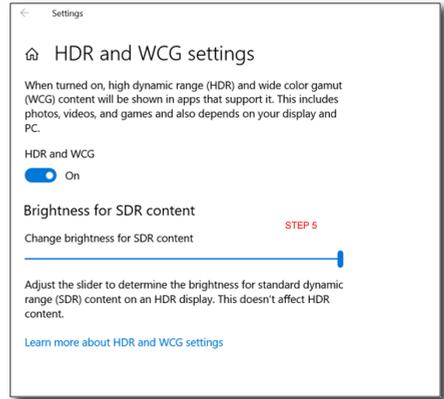
1. Right click on the desktop, enter to Display settings.
2. Select the display/monitor.
3. Adjust resolution to 3440x1440
4. Turn the “HDR and WCG” to on mode.
5. Adjust Brightness for SDR content.

### Note

Windows10 edition is required; always upgrade to the most updated version.

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

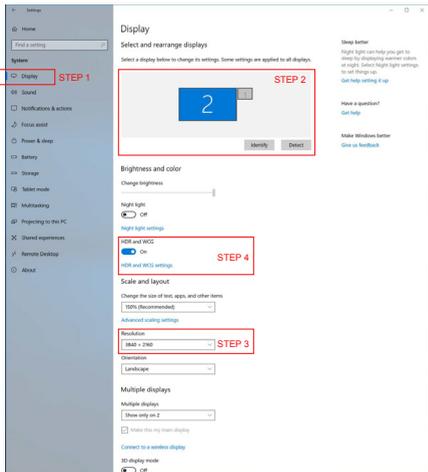
<https://support.microsoft.com/en-au/help/4040263/windows-10-hdr-advanced-color-settings>



### Note

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.



## 5. Technical Specifications

Picture/Display	
Display Panel Type	VA
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(typical)	3000:1
Optimum Resolution	3440x1440@60Hz
Viewing Angle	178° (H) / 178° (V) @ C/R > 10 (Typ.)
Picture Enhancement	SmartImage Game / SmartImage HDR
Display Colors	16.7M (8bit)
Vertical Refresh Rate	48-100 Hz (HDMI) 48-144 Hz (DP)
Horizontal Frequency	30-170 KHz (HDMI) 30-220 KHz (DP)
sRGB	YES
Color Gamut	YES
HDR	Support HDR 10 format
SmartUniformity	YES
Delta E	YES
LowBlue Mode	YES
AMD FreeSync Premium	YES
Flicker Free	YES
Connectivity	
Signal Input	DisplayPort 1.4 x 2, HDMI 2.0 x 2
USB	USB3.2 x 1 (upstream) USB3.2x4 (Downstream with 1 fast charge B.C 1.2)
Input Signal	Separate Sync
Audio In/Out	Audio out
Convenience	
USER convenience	
MultiView	PIP/PBP mode, 2×devices
OSD Languages	English, German, Spanish, Greek, French, Italian, Hungarian, Dutch, Portuguese, Brasil Portuguese, Polish, Russian, Swedish, Finnish, Turkish, Czech, Ukranian, Simplified Chinese, Traditional Chinese, Japanese, Korean
Other Convenience	VESA mount(100×100mm), Kensington Lock
Plug & Play Compatibility	DDC/CI, Mac OS X, sRGB, Windows 10/8.1/8/7
Stand	
Tilt	-5 / +20 degree
Height adjustment	110mm

## 5. Technical Specifications

Power			
Consumption	AC Input Voltage at 100VAC , 50Hz	AC Input Voltage at 115VAC , 60Hz	AC Input Voltage at 230VAC, 50Hz
Normal Operation	76.7 W (typ.)	75.7 W (typ.)	74.8 W (typ.)
Sleep (Standby mode)	<0.5 W(typ.)	<0.5 W(typ.)	<0.5 W(typ.)
Off mode	<0.3 W(typ.)	<0.3 W(typ.)	<0.3 W(typ.)
Heat Dissipation*	AC Input Voltage at 100VAC , 50Hz	AC Input Voltage at 115VAC , 60Hz	AC Input Voltage at 230VAC , 50Hz
Normal Operation	261.8 BTU/hr (typ.)	258.4 BTU/hr (typ.)	255.3 BTU/hr (typ.)
Sleep (Standby mode)	<1.71 BTU/hr(typ.)	<1.71 BTU/hr(typ.)	<1.71 BTU/hr(typ.)
Off mode	<1.02 BTU/hr(typ.)	<1.02 BTU/hr(typ.)	<1.02 BTU/hr(typ.)
Power LED indicator	On mode: White, Standby/Sleep mode: White (blinking)		
Power Supply	Built-in, 100-240V AC, 50/60Hz		

Dimensions	
Product with stand (WxHxD)	807 x 538 x 307 mm
Product without stand (WxHxD)	807 x 367 x 110 mm
Product with packaging (WxHxD)	930 x 525 x 394 mm

Weight	
Product with stand	9.38 kg
Product without stand	7.47 kg
Product with packaging	13.62 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

## 5. Technical Specifications

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](http://www.philips.com/support) to download the latest version of leaflet.
2. SmartUniformity and Delta E information sheets are included in the box.

## 5.1 Resolution & Preset Modes

### 1 Maximum Resolution

3440x1440 @ 100 Hz (HDMI)

3440x1440 @ 144 Hz (DisplayPort)

### 2 Recommended Resolution

3440x1440 @ 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
67.17	2560x1080	59.98
88.82	3440x1440	59.97
150.97	3440x1440	99.98
214.56	3440x1440	144

### Note

Please notice that your display works best at native resolution of 3440x1440. For best display quality, please follow this resolution recommendation.

## 6. 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 feature:

Power Management Definition					
VESA Mode	Video	H-sync	V-sync	Power Used	LED Color
Active	ON	Yes	Yes	75.7 W (typ.) 242 W (max.)	White
Sleep (Standby mode)	OFF	No	No	<0.5 W (typ.)	White (blink)
Off mode	OFF	-	-	<0.3W (typ.)	OFF

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

- Native resolution: 3440x1440
- Contrast: 50%
- Brightness: 70%
- Color temperature: 6500k with full white pattern

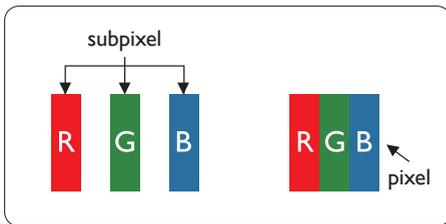
### Note

This data is subject to change without notice.

## 7. Customer care and warranty

### 7.1 Philips' Flat Panel Displays Pixel Defect Policy

Philips strives to deliver the highest quality products. We use some of the industry's most advanced manufacturing processes and practice stringent quality control. However, pixel or sub pixel defects on the TFT 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 qualify 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 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

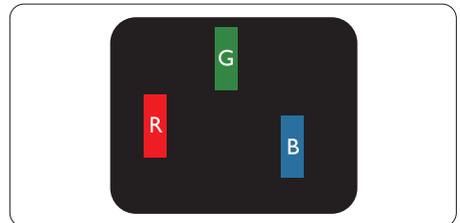
together form an image. When all sub pixels of a pixel are lit, the three colored sub pixels together appear as a single white pixel. When all are dark, the three colored sub pixels together appear as a single black pixel. Other combinations of lit and dark sub pixels appear as single pixels of other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

#### Types of Pixel Defects

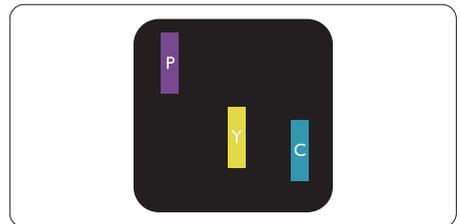
Pixel and sub pixel defects appear on the screen in different ways. There are two categories of pixel defects and several types of sub pixel defects within each category.

#### 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 display displays a dark pattern. There are the types of bright dot defects.

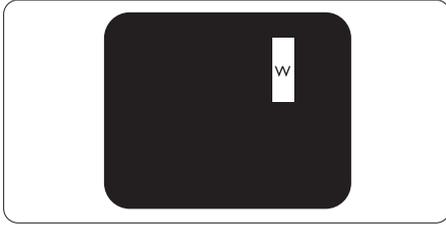


One lit red, green or blue sub pixel.



Two adjacent lit sub pixels:

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



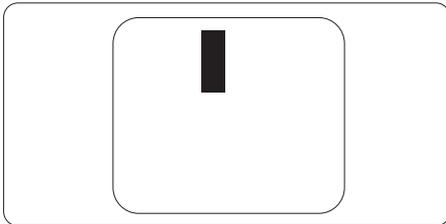
Three adjacent lit sub pixels (one white pixel).

**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.

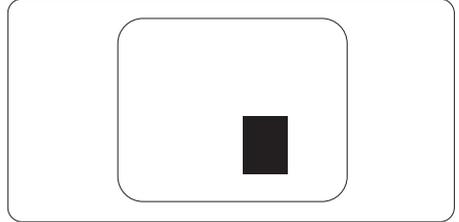
**Black Dot Defects**

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 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.

## 7. Customer care and warranty

<b>BRIGHT DOT DEFECTS</b>	<b>ACCEPTABLE LEVEL</b>
1 lit subpixel	3
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
<b>BLACK DOT DEFECTS</b>	<b>ACCEPTABLE LEVEL</b>
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
<b>TOTAL DOT DEFECTS</b>	<b>ACCEPTABLE LEVEL</b>
Total bright or black dot defects of all types	5 or fewer

### Note

1 or 2 adjacent sub pixel defects = 1 dot defect

## 7.2 Customer Care & Warranty

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

For Warranty Period please refer to Warranty Statement in Regulation & Service 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 Regulation & Service Information Manual for regional service hotline, which is available on the Philips website support page.

## 8. Troubleshooting & FAQs

### 8.1 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 display.
- First, ensure that the power button on the front of the display is in the OFF position, then press it to the ON position.

##### No Picture (Power LED is White)

- Make sure the computer is turned on.
- Make sure the signal cable is properly connected to your computer.
- Make sure the display 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 display cable is properly connected to your computer. (Also refer to the Quick Start Guide).

- Check to see if the display cable has bent pins.
- Make sure the computer is turned on.

##### Visible signs of smoke or sparks

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

#### 2 Imaging Problems

##### Image appears blurred, indistinct or too dark

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

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

- Uninterrupted display of still or static images over an extended period may cause "burn in", also known as "after-imaging" or "ghost imaging", on your screen. "Burn-in", "after-imaging", or "ghost imaging" is a well-known phenomenon in LCD panel technology. In most cases, the "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 display unattended.
- Always activate a periodic screen refresh application if your LCD display will display unchanging static content.
- Failure to activate a screen saver, or a periodic screen refresh application may result in severe "burn-in" 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 display’s recommended screen native resolution.

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

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

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

- You can adjust “power on” light using the power LED Setup in OSD main Controls.

For further assistance, refer to the Service contact information listed in Regulation & Service Information Manual and contact Philips customer service representative.

**\* [Functionality different according to display.](#)**

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## 8.2 General FAQs

**Q1:** When I install my display what should I do if the screen shows 'Cannot display this video mode'?

**Ans.:** Recommended resolution for this display: 3440x1440 @ 60 Hz.

- Unplug all cables, then connect your PC to the display that you used previously.

- In the Windows Start Menu, select Settings/Control Panel. In the Control Panel Window, select the Display icon. Inside the Display Control Panel, select the 'Settings' tab. Under the setting tab, in box labelled 'desktop area', move the sidebar to 3440x1440 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 3440x1440 @ 60 Hz.
- Shut down your computer, disconnect your old display and reconnect your Philips LCD display.
- Turn on your display and then turn on your PC.

**Q2:** What is the recommended refresh rate for LCD display?

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

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

**Ans.:** These are the driver files for your monitor. Your computer may ask you for monitor drivers (.inf and .icm files) when you first install your monitor. Follow the instructions in your user manual, monitor drivers (.inf and .icm files) will be installed automatically.

**Q4:** How do I adjust the resolution?

**Ans.:** Your video card/graphic driver and display together determine the available resolutions. You can select the desired resolution

under Windows® Control Panel with the "Display properties".

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

**Ans.:** Simply press  button, then select 'Setup' > 'Reset' to recall all the original factory settings.

**Q6:** Is the LCD screen resistant to scratches?

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

**Q7:** How should I clean the LCD surface?

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

**Q8:** Can I change the color setting of my display?

**Ans.:** Yes, you can change your color setting through OSD control as 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: 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, displays, 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.

**Q9:** Can I connect my LCD display to any PC, workstation or Mac?

**Ans.:** Yes. All Philips LCD displays are fully compatible with standard PCs, Macs and workstations. You may need a cable adapter to connect the display to your Mac system. Please contact your Philips sales representative for more information.

**Q10:** Are Philips LCD displays Plug-and-Play?

**Ans.:** Yes, the displays are Plug-and-Play compatible with Windows 10/8.1/8/7

**Q11:** 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 "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 display unattended.

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

 **Warning**

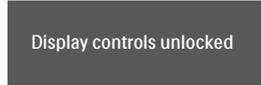
Failure to activate a screen saver, or a periodic screen refresh application may result in severe "burn-in" or "after-image" or "ghost image" symptoms that will not disappear and cannot be repaired. The damage mentioned above is not covered under your warranty.

**Q12:** Why is my Display not showing sharp text, and is displaying jagged characters?

**Ans.:** Your LCD display works best at its native resolution of 3440x1440. For best display, please use this resolution.

**Q13:** 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.



**Q14:** Where can I find Regulation & Service Information Manual mentioned in EDFU?

**Ans.:** Regulation & Service Information Manual can be download on the Philips website support page.

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### 8.3 Multiview FAQs

**Q1:** Why the sub-windows flickers when I enable 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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