Brilliance 272B4



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EN	User manual	1
	Customer care and warranty	27
	Troubleshooting & FAQs	33



Table of Contents

1.	Imp	portant1
	1.1	Safety precautions and maintenance1
	1.2	I
	1.3	1 1 0
		material3
2.	Set	ting up the monitor4
	2.1	Installation4
	2.2	1 0
		MultiView9
	2.4	Remove the Base Assembly for VESA
		Mounting11
3.	lma	ge Optimization12
	3.1	
	3.2	SmartContrast13
4.	Pov	verSensor™14
5.	Tec	hnical Specifications15
	5.1	Resolution & Preset Modes17
	5.2	Crystalclear17
6.	Pov	ver Management18
7.	Res	gulatory Information19
	- 6	,
8.	Cus	stomer care and warranty27
		Philips' Flat Panel Monitors Pixel
		Defect Policy27
	8.2	Customer Care & Warranty29
9.	Tro	ubleshooting & FAQs33
-		Troubleshooting33
	7.2	General FAQs34

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

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 Customer Care Consumer Information Center)
- Do not subject the monitor to severe vibration or high impact conditions during operation.
- 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 monitor panel. When moving your monitor, grasp the frame to lift; do not lift the monitor by placing your hand or fingers on the monitor panel.
- 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.

1. Important

• 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 service center. (please refer to the chapter of "Consumer Information Center")
- For transportation information, please refer to "Technical Specifications".
- Do not leave your monitor in a car/trunk under direct sun light.

Note

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

1.2 Notational Descriptions

The following subsections describe notational conventions used in this document.

Notes, Cautions and Warnings

Throughout this guide, blocks of text may be accompanied by an icon and printed in bold or italic type. These blocks contain notes, cautions or warnings. They are used as follows:

Note

This icon indicates important information and tips that help you make better use of your computer system.

Caution

This icon indicates information that tells you how to avoid either potential damage to hardware or loss of data.

Warning

This icon indicates the potential for bodily harm and tells you how to avoid the problem.

Some warnings may appear in alternate formats and may not be accompanied by an icon. In such cases, the specific presentation of the warning is mandated by the relevant regulatory authority.

1.3 Disposal of product and packing material

Waste Electrical and Electronic Equipment-WEEE



This marking on the product or on its packaging illustrates that, under European Directive 2012/19/EU governing used electrical and electronic appliances, this product may not be disposed of with normal household waste. You are responsible for disposal of this equipment through a designated waste electrical and electronic equipment collection. To determine the locations for dropping off such waste electrical and electronic, contact your local government office, the waste disposal organization that serves your household or the store at which you purchased the product.

Your new monitor contains materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and to minimize the amount to be disposed of.

All redundant packing material has been omitted. We have done our utmost to make the packaging easily separable into mono materials.

Please find out about the local regulations on how to dispose of your old monitor and packing from your sales representative.

Taking back/Recycling Information for Customers

Philips establishes technically and economically viable objectives to optimize the environmental performance of the organization's product, service and activities.

From the planning, design and production stages, Philips emphasizes the important of making products that can easily be recycled. At Philips, end-of-life management primarily entails participation in national take-back initiatives and recycling programs whenever possible, preferably in cooperation with competitors, which recycle all materials (products and related packaging material) in accordance with all Environmental Laws and taking back program with the contractor company.

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

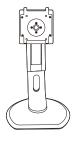
To learn more about our recycling program please visit:

http://www.philips.com/about/ sustainability/ourenvironmentalapproach/ productrecyclingservices/index.page

2.1 Installation

Package contents

















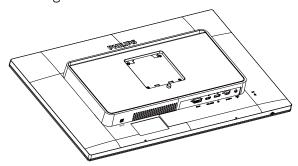
* Different according to region

Note

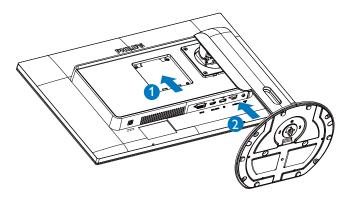
Use only AC/DC adapter model: Philips ADPC20120,TPV120-REBN2.

2 Install base stand

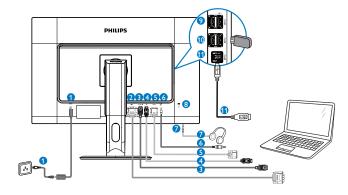
1. Place the monitor face down on a smooth surface. Pay attention not to scratch or damage the screen.



- 2. Hold the stand with both hands.
 - (1) Gently attach the stand to the VESA mount area until the latch locks the stand.
 - (2) Gently attach the base to the stand.



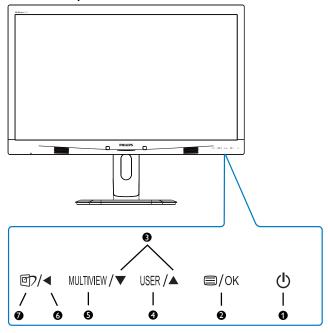
3 Connecting to your computer



- 1 DC power input
- 2 DVI input
- 3 MHL-HDMI input
- 4 Display port input
- 5 VGA input
- 6 Audio input
- 7 Earphone jack
- 8 Kensington anti-theft lock
- 9 USB fast charger
- 10 USB port
- 10 USB upstream

2.2 Operating the monitor

Description of the control buttons

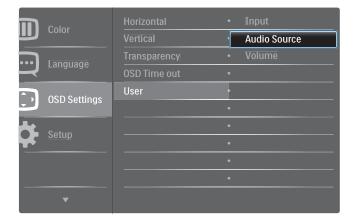


1	மு	Switch monitor's power ON and OFF.
2	■/OK	Access the OSD menu. Confirm the OSD adjustment.
3		Adjust the OSD menu.
4	USER	User preference key. Customize your own preference function from OSD to become the "user key".
5	MULTIVIEW	PIP/PBP/Off/Swap
6	◀	Return to previous OSD layer.
7	团	SmartImage hot key. There are 6 modes to select: Office, Photo, Movie, Game, Economy, Off.

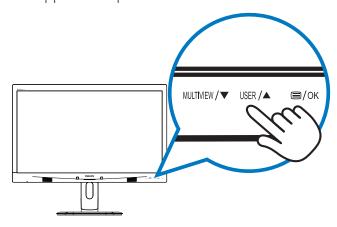
2 Customize your own "USER" key

This hot key allows you to setup your favorite function key.

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



- 2. Press ▲ or ▼ button to select main menu [OSD Settings], then press OK button.
- 3. Press ▲ or ▼ button to select [User], then press OK button.
- Press ▲ or ▼ button to select your preferred function: [Input], [Audio Source], [Volume].
- 5. Press **OK** button to confirm your selection. Now you can press the hotkey **USER** directly on the front bezel. Only your pre-selected function will appear for quick access.



For example, if you selected [Audio Source] as the hotkey, press the USER button on the front bezel, the [Audio Source] menu appears.



Independent audio playback, regardless of video input

Your Philips monitor can play the audio source independently, regardless of which video input. For example, you can play your MP3 player from the audio source connected to the [Audio In] port of this monitor, and still watch your video source connected from [MHL-HDMI], or [DisplayPort].

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



- 2. Press ▲ or ▼ button to select main menu [Audio], then press OK button.
- 3. Press ▲ or ▼ button to select [Audio Source], then press OK button.
- Press ▲ or ▼ button to select your preferred audio source: [DisplayPort], [MHL-HDMI] or [Audio In].
- 5. Press **OK** button to confirm your selection.

Note

- The next time you turn on this monitor, it will by default select the audio source you previously selected.
- In case you want to change it, you will have to go through the selection steps again to select your new preferred audio source as the default.

4 Description of the On Screen Display

What is On-Screen Display (OSD)?

On-Screen Display (OSD) is a feature in all Philips 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:

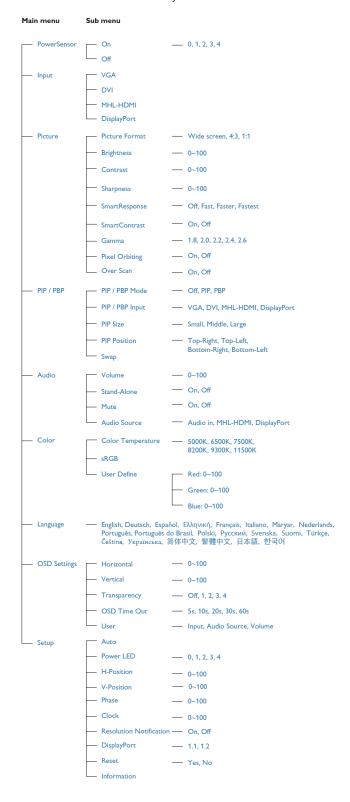


Basic and simple instruction on the control keys

In the OSD shown above, you can press ▲ ▼ buttons on 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.



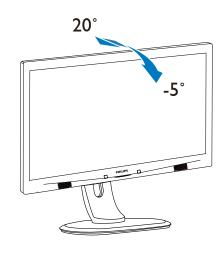
5 Resolution notification

This monitor is designed for optimal performance at its native resolution, $2560 \times 1440 @ 60$ Hz. When the monitor is powered on at a different resolution, an alert is displayed on screen: Use $2560 \times 1440 @ 60$ Hz for best results.

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

6 Physical Function

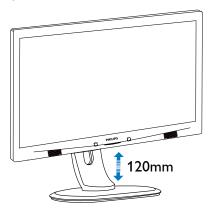
Tilt



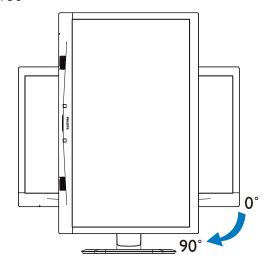
Swivel



Height adjustment



Pivot



2.3 MultiView



1 What is it?

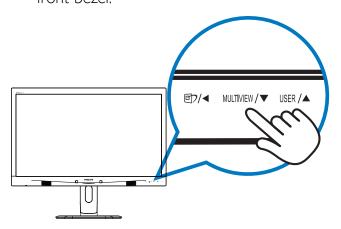
Multiview enables active dual connect and view so that you can work with multiple devices like PC and Notebook side-by-side simultaneously, making complex multi-tasking work a breeze.

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.

3 How to enable MultiView by hotkey?

1. Press the hotkey MULTIVIEW directly on the front bezel.



The MultiView selection menu appears.
 Press ▲ or ▼ button to select.



3. Press **OK** button to confirm your selection and then exit automatically.

4 How to enable MultiView by OSD menu?

Besides pressing the hotkey MULTIVIEW directly on the front bezel, the MultiView function can also be selected in OSD menu.

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



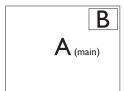
- 2. Press ▲ or ▼ button to select main menu [PIP / PBP], then press OK button.
- 3. Press ▲ or ▼ button to select [PIP / PBP Mode], then press OK button.
- 4. Press ▲ or ▼ button to select [PIP] or [PBP].
- 5. Now you can move backward to set the [PIP / PBP Input], [PIP Size], [PIP Position], or [Swap].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

5 MultiView in OSD menu

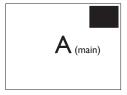
 PIP / PBP Mode: There are two modes for MultiView: [PIP] and [PBP].

[PIP]: Picture in Picture

Open up a sub-window of another signal source.

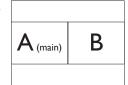


When the sub source is not detected:

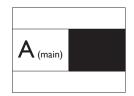


[PBP]: Picture by Picture

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



When the sub source is not detected:



Note

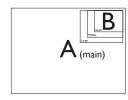
The black strip shows on the top and the bottom of the screen for the correct aspect ratio when in the PBP mode.

 PIP / PBP Input: There are four different video input to choose as the sub display source: [VGA],[DVI], [MHL-HDMI], and [DisplayPort].

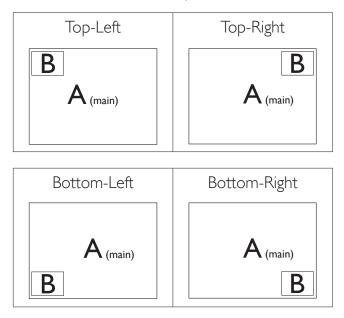
Please refer below table for compatibility of main/sub input source.

		SUB S	OURCE	POSSIBIL	_ITY (xl)
Multi View	Inputs	VGA	DP	DVI	MHL- HDMI
	VGA		•	•	•
MAIN	DP	•		•	•
SOURCE	DVI	•	•		•
(xl)	MHL- HDMI	•	•	•	

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

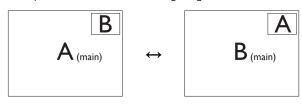


• **PIP Position**: When PIP is activated, there are four sub-window positions to choose.

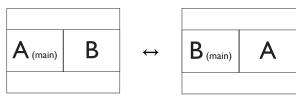


• **Swap:** The main picture source and the sub picture source swapped on the display.

Swap A and B source in [PIP] mode:



Swap A and B source in [PBP] mode:



• Off: Stop MultiView function.



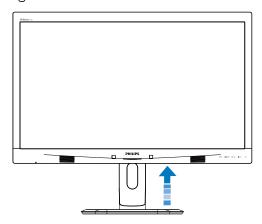
⊜ Note

When you do the SWAP function, the video and its audio source will swap at the same time. (Refer to page 6 "Independent audio playback, regardless of video input" for more detail.)

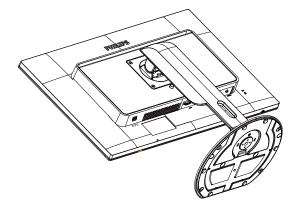
2.4 Remove the Base Assembly for VESA Mounting

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

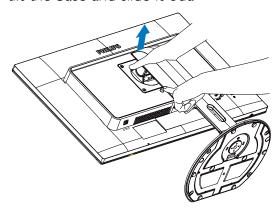
1. Extend the monitor base to its maximum height.



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

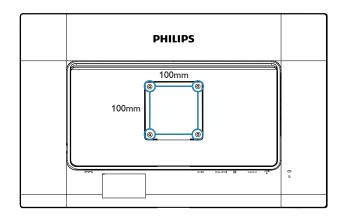


3. While keeping the release button pressed, tilt the base and slide it out.



Note

This monitor accepts a 100mm × 100mm VESA-Compliant mounting interface.



3. Image Optimization

3.1 SmartImage

1 What is it?

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

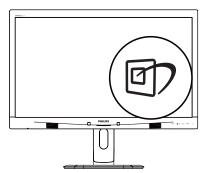
2 Why do I need it?

You want a monitor that delivers optimized display all your favorite types of content, SmartImage software dynamically adjust brightness, contrast, color and sharpness in real time to enhance your monitor viewing experience.

3 How does it work?

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

4 How to enable SmartImage?



- 1. Press (1) to launch the SmartImage on screen display.
- Keep pressing ▲ ▼ to toggle among
 Office, Photo, Movie, Game, Economy and
 Off.

3. The SmartImage on screen display will remain on screen for 5 seconds, or you can also press **OK** button to confirm.

There are six modes to select: Office, Photo, Movie, Game, Economy and Off.



- 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 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

3. Image Optimization

office applications and lower power consumption.

• Off: No optimization by SmartImage.

3.2 SmartContrast

1 What is it?

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

Why do I need it?

You want the very best visual clarity and viewing comfort for every type of content. SmartContrast dynamically controls contrast and adjusts backlighting for clear, crisp, bright gaming and video images or displays clear, readable text for office work. By reducing your monitor's power consumption, you save on energy costs and extend the lifetime of your monitor.

3 How does it work?

When you activate SmartContrast, it will analyse the content you are displaying in real time to adjust colors and control backlight intensity. This function will dynamically enhance contrast for a great entertainment experience when viewing videos or playing games.

4. PowerSensorTM

How does it work?

- PowerSensor works on principle of transmission and reception of harmless "infrared" signals in order to detect userpresence.
- 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 up to 80%.

User present in front



User not present



Power consumption as illustrated above is for reference purpose only.

2 Setting

Default settings

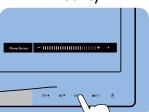
PowerSensor is designed to detect the presence of the user located between 30 and 100 cm (12 and 40 inches) from the display and within five degrees left or right of the monitor.

Custom settings

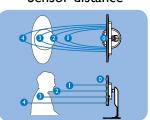
If you prefer to be in a position outside the perimeters listed above, choose a higher strength signal for optimal detection efficiency: The higher the setting, the stronger the detection signal. For maximum PowerSensor efficiency and proper detection, please position yourself directly in front of your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

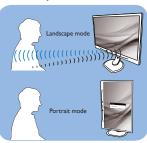
Hot key



Sensor distance



Landscape/Portrait mode (for selective models)



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

How to adjust settings

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

- Customize the **USER** button to serve as PowerSensor hot key. Refer "Customize your own "USER" key section. (If your display is with "Sensor" hot key, go to next step.)
- 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 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.

5. Technical Specifications

Picture/Display						
Monitor Panel Type	AHVA					
Backlight	LED					
Panel Size	27" W (68.5 cm)					
Aspect Ratio	16:9					
Pixel Pitch	0.233 x 0.233 mm					
SmartContrast	20,000,000:1					
Response Time (typ.)	12 ms(GtG)					
SmartResponse	4 ms (GtG)					
Optimum Resolution	2560 × 1440 @ 60 Hz	7				
Viewing Angle	178° (H) / 178° (V)(t)					
Picture Enhancement	SmartImage	1 / -				
Vertical Refresh Rate	56 Hz - 76 Hz					
Horizontal Frequency	30 kHz - 83 kHz					
sRGB	YES					
Connectivity						
Signal Input/Output	DVI(Digtal),VGA(Anal	log), DisplayPort, MHL-H	HDMI			
USB	USB 3.0 x4 including 1	x fast charger				
Input Signal	Separate Sync, Sync or					
Audio In/Out	PC Audio-in, Headpho					
Convenience						
Built-in Speakers	2W x2					
User Convenience	②/✓ MULTIVIEW/▼ USER/▲ ■/OK (1)					
OSD Languages	English, German, Spanish, Greek, French, Italian, Hungarian, Dutch, Portuguese, Brazil Portuguese, Polish, Russian, Swedish, Finnish, Turkish, Czech, Ukranian, Simplified Chinese, Traditional Chinese, Japanese, Korean					
Other Convenience	VESA mount (100 x 100 mm), Kensington Lock					
Plug & Play Compatibility		ows 8.1/8/7, Mac OSX				
Stand						
Tilt	-5° / +20°					
Continued	-65° / +65°					
Swivel	-65 / +65					
Swivel Height Adjustment	120 mm					
Height Adjustment Pivot Adjustment	120 mm					
Height Adjustment Pivot Adjustment Power	120 mm 90°	max.)				
Height Adjustment Pivot Adjustment Power On Mode	120 mm 90° 49.7 W (typ.), 85 W (r	max.)				
Height Adjustment Pivot Adjustment Power On Mode Sleep (Standby)	120 mm 90° 49.7 W (typ.), 85 W (r < 0.5 W	max.)				
Height Adjustment Pivot Adjustment Power On Mode Sleep (Standby) Off	120 mm 90° 49.7 W (typ.), 85 W (r < 0.5 W < 0.3 W	max.)				
Height Adjustment Pivot Adjustment Power On Mode Sleep (Standby) Off On Mode (ECO Mode)	120 mm 90° 49.7 W (typ.), 85 W (r < 0.5 W	max.)				
Height Adjustment Pivot Adjustment Power On Mode Sleep (Standby) Off	120 mm 90° 49.7 W (typ.), 85 W (r < 0.5 W < 0.3 W	AC Input Voltage at 115 V AC, 60 Hz	AC Input Voltage at 230 V AC, 50 Hz			
Height Adjustment Pivot Adjustment Power On Mode Sleep (Standby) Off On Mode (ECO Mode) Power (EnergyStar test method)	120 mm 90° 49.7 W (typ.), 85 W (r < 0.5 W < 0.3 W 25 W (typ.)	AC Input Voltage at				

5. Technical Specifications

Off	< 0.5 W	< 0.5 W	< 0.5 W		
Heat Dissipation*	AC Input Voltage at 100 V AC, 50 Hz	AC Input Voltage at 115 V AC, 60 Hz	AC Input Voltage at 230 V AC, 50 Hz		
Normal Operation	121.2 BTU/hr (typ.)	120.8 BTU/hr (typ.)	121.5 BTU/hr (typ.)		
Sleep (Standby)	< 2.56 BTU/hr	< 2.56 BTU/hr	< 2.78 BTU/hr		
Off	< 1.71 BTU/hr	< 1.71 BTU/hr	< 1.71 BTU/hr		
Power LED Indicator	On mode: White, Standby/Sleep mode: White (blinking)				
Power Supply	External 100 - 240 V AC, 50 - 60 Hz				

Dimension	Dimension				
Product with stand (WxHxD)	639 × 540 × 244 mm				
Product without stand (WxHxD)	639 × 405 × 68 mm				
Weight					
Product with stand	6.72 kg				
Product without stand	4.4 kg				
Product with packaging	10.6kg				
Operating Condition					

Operating Condition				
Temperature range (operation)	0°C to 40 °C			
Relative humidity (operation)	20% to 80%			
Atmospheric pressure (operation)	700 to 1060hPa			
Temperature range (Non-operation)	-20°C to 60°C			
Relative humidity (Non-operation)	10% to 90%			
Atmospheric pressure (Non-operation)	500 to 1060hPa			

Environmental				
ROHS	YES			
EPEAT	Gold (<u>www.epeat.net</u>)			
Packaging	100 % recyclable			
Specific Substances	100 % PVC BFR free housing			
EnergyStar	YES			
Compliance and standards				
Regulatory Approvals	CE Mark, FCC Class B, CU-EAC, SEMKO,TCO Certified Edge,TUV-GS,TUV-Ergo, ETL, CCC			
Cabinet				
Color	Black/Silver/Grey			
Finish	Texture			

Note

- 1. EPEAT Gold or Silver is valid only where Philips registers the product. Please visit <u>www.epeat.net</u> for registration status in your country.
- 2. This data is subject to change without notice. Go to www.philips.com/support to download the latest version of leaflet.
- 3. Smart response time is the optimum value from either GtG or GtG (BW) tests.

5.1 Resolution & Preset Modes

Maximum Resolution 2560 × 1440 @ 60 Hz (digital input)

2 Recommended Resolution 2560 × 1440 @ 60 Hz (digital input)

H. freq. (kHz)	Resolution	V. freq. (Hz)
31.47	720 × 400	70.09
31.47	640 × 480	59.94
35.00	640 × 480	66.67
37.86	640 × 480	72.81
37.5	640 × 480	75.00
37.88	800 × 600	60.32
46.88	800 × 600	75.00
48.36	1024 × 768	60.00
60.02	1024 × 768	75.03
44.77	1280×720	59.86
63.98	1280×1024	60.02
79.98	1280×1024	75.03
55.94	1440 × 900	59.89
70.64	1440 × 900	74.99
75.00	1600 × 1200	60.00
65.29	1680 × 1050	59.95
67.50	1920 × 1080	60.00
74.04	1920 × 1080	59.95
88.79	2560 × 1440	59.95

Note

- Please notice that your display works best at native resolution of 2560 x 1440 @ 60Hz. For best display quality, please follow this resolution recommendation.
- While using DVI, a Dual-link DVI cable is required for maximum resolution 2560 x 1440.
- The highest supporting screen resolution on HDMI is 2560 x 1440, but it always depends on your capability of graphics card and BluRay/video players.

5.2 Crystalclear

This latest Philips display delivers Crystalclear, 2560x1440 images. Utilizing high performance panels with high density pixel count, 178/178 wide viewing angles, enabled by high bandwidth sources like Displayport, HDMI, or Dual link DVI, this new display will make your images and graphics come alive. Whether you are demanding professional requiring extremely detailed information for CAD-CAM solutions, using 3D graphic applications or a financial wizard working on huge spreadsheets, this Philips display will give you Crystalclear images.

6. Power Management

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

Power Management Definition							
VESA Mode	Video	H-sync	V-sync	Power Used	LED Color		
Active	ON	Yes	Yes	49.7 W (typ.), 85 (max.)	White		
Sleep (Standby)	OFF	No	No	< 0.5 W	White (blink)		
Off	OFF	-	-	< 0.3 W	OFF		

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

• Native resolution: 2560 x 1440

• Contrast: 50%

• Brightness: 100%

 Color temperature: 6500k with full white pattern

• Audio and USB Inactive (Off)

Note

This data is subject to change without notice.

Lead-free Product



Lead free display promotes environmentally sound recovery and disposal of waste from electrical and electronic equipment. Toxic

substances like Lead has been eliminated and compliance with European community's stringent RoHs directive mandating restrictions on hazardous substances in electrical and electronic equipment have been adhered to in order to make Philips monitors safe to use throughout its life cycle.

TCO Certified Edge



Congratulations!
This product is TCO Certified –
for Sustainable IT

TCO Certified is an international third party sustainability certification for IT products. TCO Certified ensures that the manufacture, use and recycling of IT products reflect environmental, social and economic responsibility. Every TCO Certified product model is verified by an accredited independent test laboratory.

Along with meeting all requirements in TCO Certified, this product also meets the exclusive TCO Certified Edge certification, recognizing best in class products in a specific sustainability attribute.

Summary of TCO Certified Criteria:

Corporate Social Responsibility

Socially responsible production - working conditions and labor law in manufacturing country.

Energy Efficiency

Energy efficiency of product and power supply. Energy Star compliant, where applicable.

Environmental Management System

Manufacturer must be certified according to either ISO 14001 or EMAS.

Minimization of Hazardous Substances

Limits on cadmium, mercury, lead & hexavalent chromium including requirements for mercury-free products, halogenated substances and hazardous flame retardants.

Design for Recycling

Coding of plastics for easy recycling. Limit on the number of different plastics used.

Product Lifetime, Product Take Back

Minimum one-year product warranty. Minimum three-year availability of spare parts. Product takeback.

Packaging

Limits on hazardous substances in product packaging. Packaging prepared for recycling.

Ergonomic, User-centered design

Visual ergonomics in products with a display. Adjustability for user comfort (displays, headsets) Acoustic performance – protection against sound spikes (headsets) and fan noise (projectors, computers) Ergonomically designed keyboard (notebooks).

Electrical Safety, minimal electro-magnetic Emissions

Third Party Testing

All certified product models have been tested in an independent, accredited laboratory.

A detailed criteria set is available for download at www.tcodevelopment.com, where you can also find a searchable database of all TCO Certified IT products.

TCO Development, the organization behind TCO Certified, has been an international driver in the field of Sustainable IT for 20 years. Criteria in TCO Certified are developed in collaboration with scientists, experts, users and manufacturers. Organizations around the world rely on TCO Certified as a tool to help them reach their sustainable IT goals. We are owned by TCO, a non-profit organization

representing office workers. TCO Development is headquartered in Stockholm, Sweden, with regional presence in North America and Asia.

For more information, please visit: www.tcodevelopment.com

User define mode is used for TCO Certified compliance.

EPEAT

(www.epeat.net)



The EPEAT (Electronic Product Environmental Assessment Tool) program evaluates computer

desktops, laptops, and monitors based on 51 environmental criteria developed through an extensive stakeholder consensus process supported by US EPA.

EPEAT system helps purchasers in the public and private sectors evaluate, compare and select desktop computers, notebooks and monitors based on their environmental attributes. EPEAT also provides a clear and consistent set of performance criteria for the design of products, and provides an opportunity for manufacturers to secure market recognition for efforts to reduce the environmental impact of its products.

Benefits of EPEAT

Reduce use of primary materials Reduce use of toxic materials

Avoid the disposal of hazardous waste EPEAT'S requirement that all registered products meet ENERGY STAR's energy efficiency specifications, means that these products will consume less energy throughout their life.

CE Declaration of Conformity

This product is in conformity with the following standards

 EN60950-1:2006+A11:2009+A1:2010+A 12:2011+A2:2013 (Safety requirement of Information Technology Equipment).

- EN55022:2010 (Radio Disturbance requirement of Information Technology Equipment).
- EN55024:2010 (Immunity requirement of Information Technology Equipment).
- EN61000-3-2:2006 +A1:2009+A2:2009 (Limits for Harmonic Current Emission).
- EN61000-3-3:2008 (Limitation of Voltage Fluctuation and Flicker) following provisions of directives applicable.
- EN50581:2012 (Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances).
- EN50564:2011 (Electrical and electronic household and office equipment — Measurement of low power consumption).
- 2006/95/EC (Low Voltage Directive).
- 2004/108/EC (EMC Directive).
- 2009/125/EC (ErP Directive, EC No. 1275/2008 Implementing Directive for Standby and Off mode power consumption).
- 2011/65/EU (RoHS Directive) and is produced by a manufacturing organization on ISO9000 level.

and is produced by a manufacturing organization on ISO9000 level.

- ISO9241-307:2008 (Ergonomic requirement, Analysis and compliance test methods for electronic visual displays).
- GS EK1-2000:2013 (GS mark requirement).
- prEN50279:1998 (Low Frequency Electric and Magnetic fields for Visual Display).
- MPR-II (MPR:1990:8/1990:10 Low Frequency Electric and Magnetic fields).
- TCO certified (Requirement for Environment Labeling of Ergonomics, Energy, Ecology and Emission, TCO: Swedish Confederation of Professional Employees) for TCO versions.

Energy Star Declaration

(www.energystar.gov)



As an ENERGY STAR® Partner, we have determined that this product meets the ENERGY STAR® guidelines for energy efficiency.



We recommend you switch off the monitor when it is not in use for a long time.

Federal Communications Commission (FCC) Notice (U.S. Only)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Use only RF shielded cable that was supplied with the monitor when connecting this monitor to a computer device.

To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or excessive moisture.

THIS CLASS B DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS.

FCC Declaration of Conformity

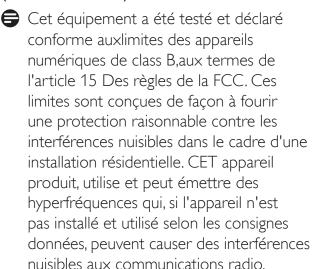
Declaration of Conformity for Products Marked with FCC Logo,

United States Only



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Commission Federale de la Communication (FCC Declaration)



Cependant, rien ne peut garantir l'absence d'interférences dans le cadre d'une installation particulière. Si cet appareil est la cause d'interférences nuisibles pour

la réception des signaux de radio ou de télévision, ce qui peut être décelé en fermant l'équipement, puis en le remettant en fonction, l'utilisateur pourrait essayer de corriger la situation en prenant les mesures suivantes:

- Réorienter ou déplacer l'antenne de réception.
- Augmenter la distance entre l'équipement et le récepteur.
- Brancher l'équipement sur un autre circuit que celui utilisé par le récepteur.
- Demander l'aide du marchand ou d'un technicien chevronné en radio/télévision.
- Toutes modifications n'ayant pas reçu l'approbation des services compétents en matière de conformité est susceptible d'interdire à l'utilisateur l'usage du présent équipement.

N'utiliser que des câbles RF armés pour les connections avec des ordinateurs ou périphériques.

CET APPAREIL NUMERIQUE DE LA CLASSE B RESPECTE TOUTES LES EXIGENCES DU REGLEMENT SUR LE MATERIEL BROUILLEUR DU CANADA.

EN 55022 Compliance (Czech Republic Only)

This device belongs to category B devices as described in EN 55022, unless it is specifically stated that it is a Class A device on the specification label. The following applies to devices in Class A of EN 55022 (radius of protection up to 30 meters). The user of the device is obliged to take all steps necessary to remove sources of interference to telecommunication or other devices.

Pokud není na typovém štítku počítače uvedeno, že spadá do do třidy A podle EN 55022, spadá automaticky do třídy B podle EN 55022. Pro zařízení zařazená do třídy A (chranné pásmo 30m) podle EN 55022 platí následující. Doide-li k rušení telekomunikačních nebo jiných zařízení je užívatel povinnen provést taková opatřgní, aby rušení odstranil.

Polish Center for Testing and Certification Notice

The equipment should draw power from a socket with an attached protection circuit (a three-prong socket). All equipment that works together (computer, monitor, printer, and so on) should have the same power supply source.

The phasing conductor of the room's electrical installation should have a reserve short-circuit protection device in the form of a fuse with a nominal value no larger than 16 amperes (A).

To completely switch off the equipment, the power supply cable must be removed from the power supply socket, which should be located near the equipment and easily accessible.

A protection mark "B" confirms that the equipment is in compliance with the protection usage requirements of standards PN-93/T-42107 and PN-89/E-06251.

Wymagania Polskiego Centrum Badań i Certyfikacji

Urządzenie powinno być zasilane z gniazda z przyłączonym obwodem ochronnym (gniazdo z kolkiem). Współpracujące ze sobą urządzenia (komputer, monitor, drukarka) powinny być zasilane z tego samego źródła.

Instalacja elektryczna pomieszczenia powinna zawierać w przewodzie fazowym rezerwową ochrone przed zwarciami, w postaci bezpiecznika o wartości znamionowej nie większej niż 16A (amperów). W celu całkowitego wyłączenia urządzenia z sieci zasilania, należy wyjąć wtyczkę kabla zasilającego z gniazdka, które powinno znajdować się w pobliżu urządzenia i być łatwo dostępne Znak bezpieczeństwa "B" potwierdza zgodność urządzenia z wymaganiami bezpieczeństwa użytkowania zawartymi w PN-93/T-42107 i PN-89/E-06251.

Pozostałe instrukcje bezpieczeństwa

- Nie należy używać wtyczek adapterowych lub usuwać kołka obwodu ochronnego z wtyczki. Jeżeli konieczne jest użycie przedłużacza to należy użyć przedłużacza 3-żylowego z prawidłowo połączonym przewodem ochronnym.
- System komputerowy należy zabezpieczyć przed nagłymi, chwilowymi wzrostami lub spad-kami napięcia, używając eliminatora przepięć, urządzenia dopasowującego lub bezzakłoceniowego źródła zasilania.
- Należy upewnić się, aby nie nie leżało na kabłach systemu komputerowego, oraz aby kable nie były umieszczone w miejscu, gdzie można byłoby na nie nadeptywać lub potykać się o nie.
- Nie należy rozlewać napojów ani innych płynów na system komputerowy.
- Nie należy wpychać żadnych przedmiotów do otworów systemu komputerowego, gdyż może to spowodować pożar lub porażenie prądem, poprzez zwarcie elementów wewnętrznych. System komputerowy powinien znajdować się z dala od grzejników i źródeł ciepła. Ponadto, nie należy blokować otworów wentylacyjnych. Należy unikać kładzenia lużnych papierów pod komputer oraz umieszczania komputera w ciasnym miejscu bez możliwości cyrkulacji powietrza wokół niego.

North Europe (Nordic Countries) Information

Placering/Ventilation

VARNING:

FÖRSÄKRA DIG OM ATT HUVUDBRYTARE OCH UTTAG ÄR LÄTÅTKOMLIGA, NÄR DU STÄLLER DIN UTRUSTNING PÅPLATS.

Placering/Ventilation

ADVARSEL:

SØRG VED PLACERINGEN FOR, AT NETLEDNINGENS STIK OG STIKKONTAKT ER NEMTTILGÆNGELIGE.

Paikka/Ilmankierto

VAROITUS:

sijoita laite siten, että verkkojohto voidaan tarvittaessa helposti IRROTTAA PISTORASIASTA.

Plassering/Ventilasjon

ADVARSEL:

når dette utstyret plasseres, må du passe på at kontaktene for STØMTILFØRSEL ER LETTE Å NÅ.

Ergonomie Hinweis (nur Deutschland)

Der von uns gelieferte Farbmonitor entspricht den in der "Verordnung über den Schutz vor Schäden durch Röntgenstrahlen" festgelegten Vorschriften.

Auf der Rückwand des Gerätes befindet sich ein Aufkleber, der auf die Unbedenklichkeit der Inbetriebnahme hinweist, da die Vorschriften über die Bauart von Störstrahlern nach Anlage III ¤ 5 Abs. 4 der Röntgenverordnung erfüllt sind.

Damit Ihr Monitor immer den in der Zulassung geforderten Werten entspricht, ist darauf zu achten, daß

- 1. Reparaturen nur durch Fachpersonal durchgeführt werden.
- 2. nur original-Ersatzteile verwendet werden.
- 3. bei Ersatz der Bildröhre nur eine bauartgleiche eingebaut wird.

Aus ergonomischen Gründen wird empfohlen, die Grundfarben Blau und Rot nicht auf dunklem Untergrund zu verwenden (schlechte Lesbarkeit und erhöhte Augenbelastung bei zu geringem Zeichenkontrast wären die Folge). Der arbeitsplatzbezogene Schalldruckpegel nach DIN 45 635 beträgt 70dB (A) oder weniger.

ACHTUNG: BEIM AUFSTELLEN DIESES GERÄTES DARAUF ACHTEN, DAß NETZSTECKER UND NETZKABELANSCHLUß LEICHT ZUGÄNGLICH SIND.

Information for U.K. only

WARNING - THIS APPLIANCE MUST BE EARTHED.

Important:

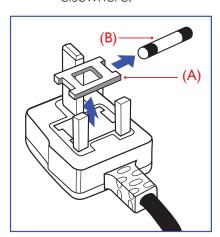
This apparatus is supplied with an approved moulded 13A plug. To change a fuse in this type of plug proceed as follows:

- 1. Remove fuse cover and fuse.
- 2. Fit new fuse which should be a BS 1362 5A,A.S.T.A. or BSI approved type.
- 3. Retit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate 3-pin plug fitted in its place.

If the mains plug contains a fuse, this should have a value of 5A. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5A.

NOTE: The severed plug must be destroyed to avoid a possible shock hazard should it be inserted into a 13A socket elsewhere.



How to connect a plug

The wires in the mains lead are coloured in accordance with the following code:

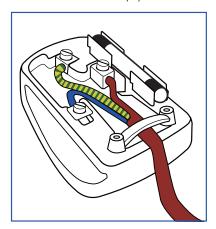
BLUE -"NEUTRAL"("N")

BROWN -"LIVE"("L")

GREEN&YELLOW - "EARTH" ("E")

- 1. The GREEN&YELLOW wire must be connected to the terminal in the plug which is marked with the letter "E" or by the Earth symbol or coloured GREEN or GREEN&YELLOW.
- 2. The BLUE wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.
- 3. The BROWN wire must be connected to the terminal which is marked with the letter "L" or coloured RED.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the three wires.



EU Energy Label



The European Energy Label informs you on the energy efficiency class of this product. The greener the energy efficiency class of this product is the lower the energy it consumes.

On the label, you can find the energy efficiency class, the average power consumption of this product in use and the average energy consumption for 1 year.

⊜ Note

The EU Energy Label will be ONLY applied on the models bundling with HDMI and TV tuners.

Restriction on Hazardous Substances statement (India)

This product complies with the "India E-waste Rule 2011" and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except for the exemptions set in Schedule 2 of the Rule.

E-Waste Declaration for India



This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling in India please visit the below web link.

http://www.india.philips.com/about/sustainability/recycling/index.page.

China RoHS

The People's Republic of China released a regulation called "Management Methods for Controlling Pollution by Electronic Information Products" or commonly referred to as China RoHS. All products produced and sold for China market have to meet China RoHS request.

中国大陆RoHS

根据中国大陆《电子电气产品有害物质限制使用标识要求》(也称为中国大陆RoHS), 以下部分列出了本产品中可能包含的有害物质的名称和含量。

				有害	物质	
部件名称	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
外壳	0	0	0	0	0	0
液晶显示屏	×	0	0	0	0	0
电路板组件*	×	0	0	0	0	0
电源适配器	×	0	0	0	0	0
电源线/连接线	×	0	0	0	0	0

本表格依据SJ/T 11364的规定编制。

- *:电路板组件包括印刷电路板及其构成的零部件,如电阻、电容、集成电路、连接
- 器等。 〇:表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572规定的限量 要求以下。
- ×:表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572规定 的限量要求。

备注:以上"×"的部件中,部分含有有害物质超过是由于目前行业技术水平所限, 暂时无法实现替代或减量化。



电子电气产品有害物质限制使用标识要求说明: 该电子电气产品含有某些有害物质, 在环保使用 期限内可以放心使用,超过环保使用期限之后应 该进入回收循环系统。

中国能源效率标识

根据中国大陆《能源效率标识管理办法》本显示器符合以下要求:

能源效率(cd/W)	> 1.05
能效等级	1级
能效标准	GB 21520-2008

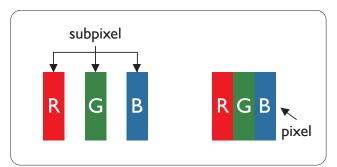
详细有关信息请查阅中国能效标识网: http://www.energylabel.gov.cn/

《废弃电器电子产品回收处理管理条例》提示性 说明

为了更好地关爱及保护地球,当用户不再需要此 产品或产品寿命终止时,请遵守国家废弃电器电 子产品回收处理相关法律法规,将其交给当地具 有国家认可的回收处理资质的厂商进行回收处 理。

8.1 Philips' Flat Panel Monitors Pixel Defect Policy

Philips strives to deliver the highest quality products. We use some of the industry's most advanced manufacturing processes and practice stringent quality control. However, pixel or sub pixel defects on the TFT Monitor panels used in flat panel monitors are sometimes unavoidable. No manufacturer can guarantee that all panels will be free from pixel defects, but Philips guarantees that any monitor with an unacceptable number of defects will be repaired or replaced under warranty. This notice explains the different types of pixel defects and defines acceptable defect levels for each type. In order to qualify for repair or replacement under warranty, the number of pixel defects on a TFT Monitor panel must exceed these acceptable levels. For example, no more than 0.0004% of the sub pixels on a monitor may be defective. Furthermore, Philips sets even higher quality standards for certain types or combinations of pixel defects that are more noticeable than others. This policy is valid worldwide.



Pixels and Sub pixels

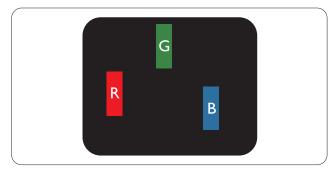
A pixel, or picture element, is composed of three sub pixels in the primary colors of red, green and blue. Many pixels together form an image. When all sub pixels of a pixel are lit, the three colored sub pixels together appear as a single white pixel. When all are dark, the three colored sub pixels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

Types of Pixel Defects

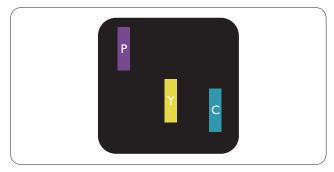
Pixel and sub pixel defects appear on the screen in different ways. There are two categories of pixel defects and several types of sub pixel defects within each category.

Bright Dot Defects

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



One lit red, green or blue sub pixel.



Two adjacent lit sub pixels:

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



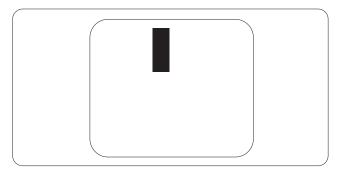
Three adjacent lit sub pixels (one white pixel).



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

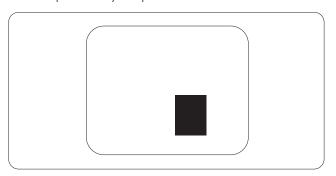
Black Dot Defects

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



Proximity of Pixel Defects

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



Pixel Defect Tolerances

In order to qualify for repair or replacement due to pixel defects during the warranty period, a TFT Monitor panel in a Philips flat panel monitor must have pixel or sub pixel defects exceeding the tolerances listed in the following tables.

BRIGHT DOT DEFECTS	ACCEPTABLE LEVEL
1 lit subpixel	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
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. 1 or 2 adjacent sub pixel defects = 1 dot defect
- 2. This monitor is ISO9241-307 compliant (ISO9241-307: Ergonomic requirement, analysis and compliance test methods for electronic visual displays).
- 3. ISO9241-307 is the successor of formerly known ISO13406 standard, which is withdrawn by the International Organisation for Standardisation (ISO) per: 2008-11-13.

8.2 Customer Care & Warranty

For warranty coverage information and additional support requirement valid for your region, please visit www.philips.com/support website for details. You may also contact your local Philips Customer Care Center number listed below.

Contact Information for WESTERN EUROPE region:

Country	CSP	Hotline Number	Price	Opening hours
Austria	RTS	+43 0810 000206	€ 0.07	Mon to Fri : 9am - 6pm
Belgium	Ecare	+32 078 250851	€ 0.06	Mon to Fri : 9am - 6pm
Cyprus	Alman	800 92 256	Free of charge	Mon to Fri : 9am - 6pm
Denmark	Infocare	+45 3525 8761	Local call tariff	Mon to Fri : 9am - 6pm
Finland	Infocare	+358 09 2290 1908	Local call tariff	Mon to Fri : 9am - 6pm
France	Mainteq	+33 082161 1658	€ 0.09	Mon to Fri : 9am - 6pm
Germany	RTS	+49 01803 386 853	€ 0.09	Mon to Fri : 9am - 6pm
Greece	Alman	+30 00800 3122 1223	Free of charge	Mon to Fri : 9am - 6pm
Ireland	Celestica	+353 01 601 1161	Local call tariff	Mon to Fri : 8am - 5pm
Italy	Anovo Italy	+39 840 320 041 € 0.08	€ 0.08	Mon to Fri : 9am - 6pm
Luxembourg	Ecare	+352 26 84 30 00	Local call tariff	Mon to Fri : 9am - 6pm
Netherlands	Ecare	+31 0900 0400 063	€ 0.10	Mon to Fri : 9am - 6pm
Norway	Infocare	+47 2270 8250	Local call tariff	Mon to Fri : 9am - 6pm
Poland	MSI	+48 0223491505	Local call tariff	Mon to Fri : 9am - 6pm
Portugal	Mainteq	800 780 902	Free of charge	Mon to Fri : 8am - 5pm
Spain	Mainteq	+34 902 888 785	€ 0.10	Mon to Fri : 9am - 6pm
Sweden	Infocare	+46 08 632 0016	Local call tariff	Mon to Fri : 9am - 6pm
Switzerland	ANOVO CH	+41 02 2310 2116	Local call tariff	Mon to Fri : 9am - 6pm
United Kingdom	Celestica	+44 0207 949 0069	Local call tariff	Mon to Fri : 8am - 5pm

Contact Information for CENTRAL AND EASTERN EUROPE region:

Country	Call center	CSP	Consumer care number	
Belarus	N/A	IBA	+375 17 217 3386 +375 17 217 3389	
Bulgaria	N/A	LAN Service	+359 2 960 2360	
Croatia	N/A	MR Service Ltd	+385 (01) 640 1111	
Czech Rep.	N/A	Asupport	420 272 188 300	
Estonia	N/A	FUJITSU	+372 6519900(General) +372 6519972(workshop)	
Georgia	N/A	Esabi	+995 322 91 34 71	
Hungary	N/A	Profi Service	+36 1 814 8080(General) +36 1814 8565(For AOC&Philips only)	
Kazakhstan	N/A	Classic Service I.I.c.	+7 727 3097515	
Latvia	N/A	ServiceNet LV	+371 67460399 +371 27260399	
Lithuania	N/A	UAB Servicenet	+370 37 400160(general) +370 7400088 (for Philips)	
Macedonia	N/A	AMC	+389 2 3125097	
Moldova	N/A	Comel	+37322224035	
Romania	N/A	Skin	+40 21 2101969	
Russia	N/A	CPS	+7 (495) 645 6746	
Serbia&Montenegro	N/A	Kim Tec d.o.o.	+381 11 20 70 684	
Slovakia	N/A	Datalan Service	+421 2 49207155	
Slovenia	N/A	PC H.and	+386 1 530 08 24	
the republic of Belarus	N/A	ServiceBy	+ 375 17 284 0203	
Turkey	N/A	Tecpro	+90 212 444 4 832	
I Ilraino	N/A	Topaz	+38044 525 64 95	
Ukraine	N/A	Comel	+380 5627444225	

Contact Information for LATIN AMERICA region:

Country	Call center	Consumer care number	
Brazil	\/	0800-7254101	
Argentina	Vermont	0800 3330 856	

Contact Information for China:

Country	Call center	Consumer care number
China	PCCW Limited	4008 800 008

Contact Information for NORTH AMERICA:

Country	Call center	Consumer care number	
U.S.A.	EPI - e-center	(877) 835-1838	
Canada	EPI - e-center	(800)479-6696	

Contact Information for APMEA region:

Country	ASP	Consumer care number	Opening hours	
Australia	AGOS NETWORK PTY LTD	1300 360 386	Mon.~Fri. 9:00am-5:30pm	
New Zealand	Visual Group Ltd.	0800 657447	Mon.~Fri. 8:30am-5:30pm	
Hong Kong Macau	Company: Smart Pixels Technology Ltd.	Hong Kong: Tel: +852 2619 9639 Macau: Tel: (853)-0800-987	Mon.~Fri. 9:00am-6:00pm Sat. 9:00am-1:00pm	
India	REDINGTON INDIA LTD	Tel: 1 800 425 6396 SMS: PHILIPS to 56677	Mon.~Fri. 9:00am-5:30pm	
Indonesia	PT. CORMIC SERVISINDO PERKASA	+62-21-4080-9086 (Customer Hotline) +62-8888-01-9086 (Customer Hotline)	Mon.~Thu. 08:30-12:00; 13:00- 17:30 Fri. 08:30-11:30; 13:00-17:30"	
Korea	Alphascan Displays, Inc	1661-5003	Mon.~Fri. 9:00am-5:30pm Sat. 9:00am-1:00pm	
Malaysia	R-Logic Sdn Bhd	+603 5102 3336	Mon.~Fri. 8:15am-5:00pm Sat. 8:30am-12:30am	
Pakistan	TVONICS Pakistan	+92-213-6030100	Sun.~Thu. 10:00am-6:00pm	
Singapore	Philips Singapore Pte Ltd (Philips Consumer Care Center)	(65) 6882 3966	Mon.~Fri. 9:00am-6:00pm Sat. 9:00am-1:00pm	
Taiwan	FETEC.CO	0800-231-099	Mon.~Fri. 09:00 - 18:00	
Thailand	Axis Computer System Co., Ltd.	(662) 934-5498	Mon.~Fri. 08:30am~05:30pm	
South Africa	Computer Repair Technologies	011 262 3586 Mon.~ Fri. 08:00am~0!		
Israel	Eastronics LTD	1-800-567000 Sun.~Thu. 08:00-18:00		

Vietnam	FPT Service Informatic Company Ltd Ho Chi Minh City Branch	+84 8 38248007 Ho Chi Minh City +84 5113.562666 Danang City +84 5113.562666 Can tho Province	Mon.~Fri. 8:00-12:00, 13:30-17:30 Sat. 8:00-12:00
Philippines	EA Global Supply Chain Solutions ,Inc.	(02) 655-7777; 6359456	Mon.~Fri. 8:30am~5:30pm
Armenia Azerbaijan Georgia Kyrgyzstan Tajikistan	Firebird service centre	+97 14 8837911	Sun.~Thu. 09:00 - 18:00
Uzbekistan	Soniko Plus Private Enterprise Ltd	+99871 2784650	Mon.~Fri. 09:00 - 18:00
Turkmenistan	Technostar Service Centre	+(99312) 460733, 460957	Mon.~Fri. 09:00 - 18:00
Japan	フィリップスモニター ・サポートセンター	0120-060-530	Mon.~Fri. 10:00 - 17:00

9. Troubleshooting & FAQs

9.1 Troubleshooting

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

1 Common Problems

No Picture (Power LED not lit)

- Make sure the power cord is plugged into the power outlet and into the back of the monitor.
- First, ensure that the power button on the 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



- 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



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

Image appears blurred, indistinct or too dark

 Adjust the contrast and brightness on On-Screen Display.

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

- Uninterrupted display of still or static images over an extended period may cause "burn in", also known as "after-imaging " or "ghost imaging", on your screen. "Burn-in", "after-imaging", or "ghost imaging" is a well-known phenomenon in monitor panel technology. In most cases, the "burned in" or "after-imaging" or "ghost imaging" will disappear gradually over a period of time after the power has been switched off.
- Always activate a moving screen saver program when you leave your monitor unattended.
- Always activate a periodic screen refresh application if your monitor will display unchanging static content.
- Failure to activate a screen saver, or a periodic screen refresh application may result in severe "burn-in" or "after-image" or "ghost image" symptoms that will not disappear and cannot be repaired. The damage mentioned above is not covered under your warranty.

Image appears distorted. Text is fuzzy or blurred.

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

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

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

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.

3 Audio problem

No sound

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

4 USB problem

USB peripherals are not working

- Check if USB upstream cable is connected to your monitor correctly.
- Turn your monitor OFF and ON once again. You may need to install/reinstall USB drivers in your PC and ensure hub is active.
- Reconnect your USB peripherals.

For further assistance, refer to the Consumer Information Centers list and contact Philips customer service representative.

9.2 General FAQs

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

Ans.: Recommended resolution for this monitor: 2560 × 1440 @ 60 Hz.

- Unplug all cables, then connect your PC to the monitor that you used previously.
- In the Windows Start Menu, select Settings/ Control Panel. In the Control Panel Window, select the Display icon. Inside the Display Control Panel, select the 'Settings' tab. Under the setting tab, in box labelled 'desktop area', move the sidebar to 2560 x 1440 pixels.
- Open 'Advanced Properties' and set the Refresh Rate to 60 Hz, then click OK.
- Restart your computer and repeat step 2 and 3 to verify that your PC is set at 2560 x 1440 @ 60 Hz.

9.Troubleshooting & FAQs

- Shut down your computer, disconnect your old monitor and reconnect your Philips monitor.
- Turn on your monitor and then turn on your PC.

Q2: What is the recommended refresh rate for monitor?

Ans.: Recommended refresh rate in monitors 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 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.

Q4: How do I adjust the resolution?

Ans.: Your video card/graphic driver and monitor together determine the available resolutions. You can select the desired resolution under Windows® Control Panel with the "Display properties".

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

Ans.: Simply press the button, then select [Reset to recall all the original factory settings.

Q6: Is the monitor screen resistant to scratches?

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

panel surface side. This may affect your warranty conditions.

Q7: How should I clean the monitor surface?

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

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

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

- Press button to show the OSD (On Screen Display) menu
- Press ▼ button to select the option [Color] then press OK button to enter color setting, there are three settings as below.
 - 1. Color Temperature: The six settings are 5000K, 6500K, 7500K, 8200K, 9300K and 11500K. With settings in the 5000K range the panel appears "warm, with a red-white color tone", while a 11500K temperature yields "cool, bluewhite toning".
 - 2. sRGB: This is a standard setting for ensuring correct exchange of colors between different device (e.g. digital cameras, monitors, printers, scanners, etc).
 - **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.

9. Troubleshooting & FAQs

Q9: Can I connect my monitor to any PC, workstation or Mac?

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

Q10: Are Philips monitors Plug-and-Play?

Ans.: Yes, the monitors are Plug-and-Play compatible with Windows8.1/8/7, Mac OSX

Q11: What is Image Sticking, or Image Burnin, or After Image, or Ghost Image in monitor panels?

Ans.: Uninterrupted display of still or static images over an extended period may cause "burn in", also known as "after-imaging" or "ghost imaging", on your screen. "Burn-in", "after-imaging", or "ghost imaging" is a well-known phenomenon in monitor panel technology. In most cases, the "burned in" or "atter-imaging" or "ghost imaging" will disappear gradually over a period of time after the power has been switched off.

Always activate a moving screen saver program when you leave your monitor unattended.

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

Warning

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

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

Ans.: Your monitor works best at its native resolution of 2560 x 1440 @ 60 Hz. For best display, please use this resolution.

9.3 Multiview FAQs

Q1: Why I cannot activate PIP or PBP when the sources are DVI and MHL-HDMI?

Ans.: Please refer to below table for the main source and its supporting sub source.

		SUB SOURCE POSSIBILITY (xl)			
Multi View	Inputs	VGA	DP	DVI	MHL- HDMI
	VGA		•	•	•
MAIN	DP	•		•	•
SOURCE	DVI	•	•		•
(xl)	MHL- HDMI	•	•	•	

Q2: Can I enlarge the PIP sub window ?

Ans.: Yes, there are 3 sizes to select: [Small], [Middle], [Large]. You can press to enter OSD menu. Select your preferred [PIP Size] option from the [PIP / PBP] main menu.

Q3: How to listen to Audio, independent of video?

Ans.: Normally the audio source is linked to the main picture source. If you want to change audio-source input (for example: listen to your MP3 player independently regardless of the video source input), you can press to enter OSD menu. Select your preferred [Audio Source] option from the [Audio] main menu.

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

9.Troubleshooting & FAQs





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