239CL2



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1. Important

This electronic user's guide is intended for anyone who uses the Philips monitor. Take time to read this user manual before you use your monitor. It contains important information and notes regarding operating your monitor.

The Philips guarantee applies provided the product is handled properly for its intended use, in accordance with its operating instructions and upon presentation of the original invoice or cash receipt, indicating the date of purchase, dealer's name and model and production number of the product.

1.1 Safety precautions and maintenance

Warnings

Use of controls, adjustments or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards and/or mechanical hazards.

Read and follow these instructions when connecting and using your computer monitor.

Operation

- · Risk of electric shock or fire!
- Keep the monitor out of direct sunlight and away from stoves or any other heat source.
- Remove any object that could fall into ventilation holes or prevent proper cooling of the monitor's electronics.
- Do not block the ventilation holes on the cabinet.
- When positioning the monitor, make sure the power plug and outlet are easily accessible.
- If turning off the monitor by detaching the power cable or DC power cord, wait for 6 seconds before attaching the power cable or DC power cord for normal operation.

- Please use approved power cord provided by Philips all the time. If your power cord is missing, please contact with your local service center. (Please refer to 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.
 Temperature: 0-40°C 32-95°F Humidity: 20-80% RH
- IMPORTANT: 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 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.

Warning

Severe" burn-in" or "after-image" or "ghost image" symptoms 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 2002/96/EC 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.

Recycling Information for Customers

There is currently a system of recycling up and running in the European countries, such as The Netherlands, Belgium, Norway, Sweden and Denmark.

In Asia Pacific, Taiwan, the products can be taken back by Environment Protection Administration (EPA) to follow the IT product recycling management process, detail can be found in web site www.epa.gov.tw

The monitor contains parts that could cause damage to the nature environment. Therefore, it is vital that the monitor is recycled at the end of its life cycle.

For help and service, please contact Consumers Information Center or F1rst Choice Contact Information Center in each country.

2. Setting up the monitor

2.1 Installation

Package contents





Monitor

Quick start guide





EDFU CD

VGA signal cable (optional)



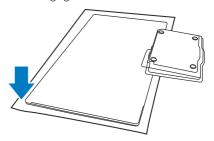


AC/DC Adapter

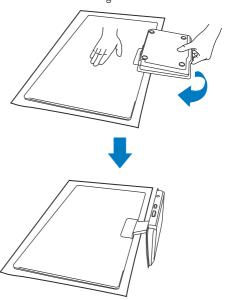
DVI-D cable (optional)

2 Installation

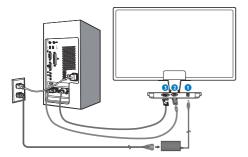
1. Place the monitor face down on a smooth surface. Pay attention to avoid scratching or damaging the screen..



2. Hold the monitor and base with both hands. Gently bend the base vertically down to a fixed angle.



Connecting to your PC

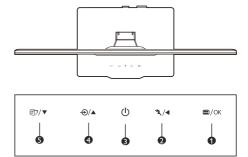


- 1 DC power input
- 2 VGA input
- 3 DVI-D input (Available for selected models)

Connect to PC

- 1. Turn off your computer and unplug its power cord.
- 2. Connect the VGA or DVI signal cable for video connection.
- 3. Connect the DC power input to your monitor.
- 4. Plug the power cord of the AC/DC adapter into a nearby AC power outlet.
- Turn on your computer and monitor. If the monitor displays images, the installation is done.

2.2 Operating the monitor



1 Front view product description

0	⊜/ок	To access OSD menu /OK.
2	* /∢	To use the Turbo function /Return to previous OSD level.
3	Ф	To switch monitor's power on and off.
4	⊕/▲	To change the signal input source /To adjust the OSD menu.
6	@/▼	SmartImage.There are 6 modes to be selected: Office, Photo, Movie, Game, Economy, Off /To adjust the OSD menu.

2 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:

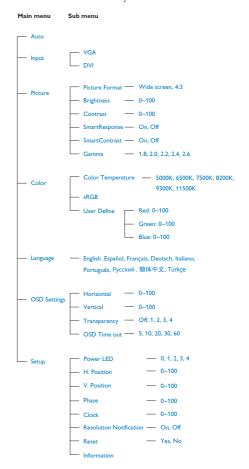


Basic and simple instruction on the control keys

In the OSD shown above, users can press \bigvee buttons at the front bezel of the monitor to move the cursor, or press **OK** to confirm the choice or adjustment.

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.



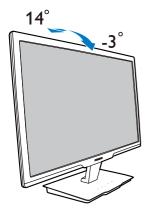
Resolution notification

This monitor is designed for optimal performance at its native resolution, 1920 \times 1080 at 60 Hz. When the monitor is powered on at a different resolution, an alert is displayed on screen: Use 1920 \times 1080 at 60 Hz for best results.

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

4 Physical Function

Tilt



3. Product information

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.

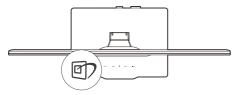
2 Why do I need it?

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?



- Press T to launch the SmartImage on screen display.
- 2. Keep pressing to toggle between 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" to make confirmation.

4. When SmartImage is enabled, the sRGB scheme is disabled automatically. To use sRGB, you need to disable SmartImage with the D button at the front bezel of your monitor.

Except using ♠ key to scroll down, you can also press ▼ ▲ buttons to choose and press "OK" to confirm selection and close the SmartImage OSD.

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 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.

3.3 Philips SmartControl Premium

The new SmartControl Premium software by Phillips allows you to control your monitor via an easy to use on-screen graphic interface. Complicated adjustments are a thing of the past as this user friendly software guides you through fine-tuning resolution, Color calibration, Clock/Phase adjustments, RGB White point adjustment, etc.

Equipped with latest technology in core algorithm for fast processing and response, this Windows 7 compliant eye catching animated lcon based software is ready to enhance your experience with Philips monitors!

Installation

- Follow the instruction and complete the installation.
- You can launch after installation is completed.
- If you want to launch later, you can either click the shortcut on desktop or toolbar.



First launch -Wizard

- The first time after installation of Smart-Control Premium, it will automatically go to Wizard for first time launch.
- The wizard will guide you through adjustment your monitor performance step by step.
- You can go to Plug-in menu to launch wizard later on as well.

• You can adjust more options without wizard by Standard pane.



2 Start with Standard pane:

Adjust menu:

- Adjust Menu allow you to adjust Brightness, Contrast, Focus, Position and Resolution.
- You can follow the instruction and do the adjustment.
- Cancel prompts user if you want to cancel installation.







Color menu:

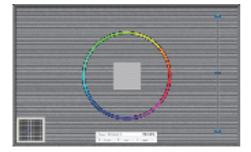
- Color Menu allow you to adjust RGB, Black Level, White Point, Color Calibration, and SmartImage (Please refer to SmartImage section).
- You can follow the instruction and do the adjustment.
- Refer to below table for sub-menu item base on your input.
- Example for Color Calibration





- 1. "Show Me" starts color calibration tutorial.
- 2. Start starts the 6-step color calibration sequence.
- 3. Quick View loads the before/after images.
- 4. To return to Color home pane, click the Cancel button.
- Enable color calibration by default is on.
 If unchecked, does not allow for color
 calibration to happen, dimes out start and
 quick view buttons.
- 6. Must have patent info in calibration screen.

First color Calibration Screen:



- Previous button is disabled until the second color screen.
- Next goes to the succeeding target (6-targets).
- Final next goes File>Presets pane.
- Cancel closes the UI and returns to the plug in page.

SmartImage

Allows user to change setting for better display setting based on content.

When Entertainment is set, SmartContrast and SmartResponse are enabled.



ECO



Theft Deterrence Pane will only be active when selecting Theft Deterrence Mode from the drop-down Plug Ins menu.



To enable Theft Deterrence, clicking Enable Theft Deterrence Mode button brings up the following screen:

- User can enter PIN between 4 and 9 digits numbers only.
- After entering PIN, Accept button takes user to the pop-up dialog box on the following page.
- Minimum minutes set to 5. Slider set to 5 by default.
- Does not require the display be attached to a different host to go into Theft Deterrence mode.



After creating PIN, the Theft Deterrence pane will indicate Theft Deterrence Enabled and provide PIN Options button:

- Theft Deterrence Enabled is displayed.
- Disable Theft Deterrence Mode opens pane screen on next page.
- PIN Options button only available after user creates PIN, button opens secure PIN web site.

Options>Preferences - Will only be active when selecting Preferences from the drop-down Options menu. On a non-supported display capable of DDC/Cl, only the Help and Options tabs are available.



- Displays current preference settings.
- A checked box enables the feature. The check box is a toggle.
- Enable Context Menu on desktop is checked (On) by default. Enable Context menu displays SmartControl Premium selections for Select Preset and Tune Display in the desktop right-click context menu.

 Disabled removes SmartControl Premium from the right click context menu.
- Enable Task Tray icon is checked (On)
 by default. Enable context menu shows
 the task tray menu for SmartControl
 Premium. A right click on the task tray
 icon displays the menu options for Help,
 Technical Support. Check for Upgrade,
 About, and Exit. When Enable task tray
 menu is disabled, the task tray icon will
 only display EXIT.
- Run at Startup is checked (On) by default.
 When disabled, SmartControl Premium
 will not launch at start or be in the task
 tray. The only way to launch SmartControl
 Premium is either from the desktop short
 cut or from the program file. Any preset
 set to run at startup will not load when
 this box is unchecked (Disabled).
- Enable transparency mode (Windows 7, Vista, XP). Default is 0% Opaque.

Options>Input - Will only be active when selecting Input from the drop-down Options menu. On a non-supported display capable of DDC/CI, only the Help and Options tabs are available. All other SmartControl Premium tabs are not available.



- Display the Source instruction pane and current input source setting.
- On single input displays, this pane will not be visible.

Options>Audio - Will only be active when selecting Volume from the drop-down Options menu.

On a non-supported display capable of DDC/Cl, only the Help and Options tabs are available.



Option>Auto Pivot



Help>User Manual - Will only be active when selecting User Manual from the drop-down Help menu. On a non-supported display capable of DDC/Cl, only the Help and Options tabs are available.



Help>Version - Will only be active when selecting Version from the drop- down Help menu. On a non-supported display capable of DDC/Cl, only the Help and Options tabs are available.



Context Sensitive menu

The Context Sensitive menu is Enabled by default. If Enable Context Menu has been checked in the Options>Preferences pane, then the menu will be visible.

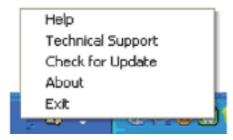


The Context Menu has four entries:

- SmartControl Premium When selected the About Screen is displayed.
- Select Preset Provides a hierarchical menu of saved presets for immediate use. A check mark shows the currently selected preset. Facoty Preset can also be called from the drop down menu.
- Tune Display Opens the SmartControl Premium control panel.
- SmartImage Check current settings, Office, Photo, Movie, Game, Economy, Off.

Task Tray Menu Enabled

The task tray menu can be displayed by rightclicking on the SmartControl Premium icon from the task tray. Left Click will launch the application.



The task tray has five entries:

 Help - Access to User Manual file: Open User Manual file using the default browser window

- Technical Support displays the tech support page.
- Check for Update takes the user to PDI Landing and checks the user's version against the most current available.
- About Displays detailed reference information: product version, release information, and product name.
- Exit Close SmartControl Premium
 To run SmartControl Premium again
 either select SmartControl Premium from
 Program menu, double-click the desktop
 PC icon or restart the system.



Task Tray Menu Disabled

When the Task Tray is disabled in the preference folder, only the EXIT selection is available. To completely remove SmartControl Premium from the task tray, disable Run at Startup in Options>Preferences.

3.4 SmartDesktop Guide

SmartDesktop

SmartDesktop is in SmartControl Premium. Install SmartControl Premium and select SmartDesktop from Options.



- Align to partition check box will enable automatic alignment for the window when dragged into the defined partition.
- Select the desired partition by clicking on the icon. The partition will be applied to the desktop and the icon will be highlighted.
- Identify provides a quick way to view the grid.



2 Drag and Drop Windows

Once the partitions are configured and Align to partition is selected a window can be dragged into the region and it will automatically align. When the window and mouse cursor are within the region, the region will become highlighted.

Note

If the outline of the region is not visible when dragging the window, "Show windows contents while dragging" is disabled. To enable:

- 1. In Control Panel, click System.
- Click Advanced system settings (For Vista & Win7 OS, this is located on the left sidebar)
- 3. In Performance section, click Settings.
- 4. In the box, check Show window contents while dragging, and click OK.

Other alternative path:

Vista:

Control Panel > Personalization > Window Color and Appearance > Click "Open Classic appearance properties for more color options" > Click "Effects" button > check Show window contents while dragging

XP:

Display Properties>Appearance>Effects...> check Show window contents while dragging

Win 7:

No other alternative path available.

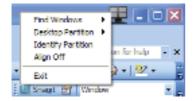
3 Title Bar Options

Desktop partition can be accessed from the title bar of the active window. This provides a quick and easy way to manage the desktop as well as sending any window to any partition without having to drag and drop. Move the cursor into the active window's title bar to access the drop down menu.



Right Click Menu

Right click on the Desktop Partition icon to view the drop down menu.



- Find Windows In some cases, the user may have sent multiple windows to the same partition. Find Window will show all open windows and move the selected window to the forefront.
- Desktop Partition Desktop Partition shows the current selected partition and allows the user to quickly change to any of the partitions shown in the drop down.



⊜ Note

If more than one display is attached, the user can select the targeted display to change the partition. The highlighted icon represents the current active partition.

- Identify Partition Displays the outline grid on the desktop for the current partition.
- **4.** Align On/Align Off Enables/disables the drag and drop auto align feature.
- Exit Closes Desktop Partition and Display Tune. To re-initialize, launch Display Tune from the start menu or short cut on the desktop.

5 Left Click Menu

Left click on the Desktop Partition icon to quickly send the active window to any partition without having to drag and drop. Releasing the mouse will send the window to the highlighted partition.



6 Task Tray Right Click

The task tray also contains most of the features supported in the title bar (with the exception of automatically sending a window to any partition).



- Find Windows In some cases, the user may have sent multiple windows to the same partition. Find Window will show all open windows and move the selected window to the forefront.
- Desktop Partition Desktop Partition shows the current selected partition and allows the user to quickly change to any of the partitions shown in the drop down.
- Identify Partition Displays the outline grid on the desktop for the current partition.
- Align On/Align Off Enables/disables the drag and drop auto align feature.

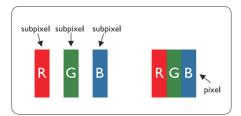
7 SmartDesktop Partition Definitions

Name	Description	Image
Full Desktop	Applies all settings to the entire desktop.	
Vertical	Assesses the screen resolution and divides the display into two evenly sized vertical regions. For 90/270 maintain vertical configuration.	,
Horizontal	Assesses the screen resolution and divides the display into two evenly sized horizontal regions. For 90/270 maintain horizontal configuration.	1 2
Vertical Triple	Assesses the screen resolution and divides the display into three evenly sized vertical regions. For 90 Partition 1 horizontal top Partition 2 horizontal center Partition 3 horizontal bottom. For 270 Partition 3 horizontal top Partition 2 horizontal center Partition 1 horizontal bottom.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Vertical Split Left	Assesses the screen resolution and divides the display into two vertical regions, the left hand side is a single region, the right hand side is split into two evenly sized regions For 90 Partition 1 on top Partition 2&3 on bottomFor 270 Partition 1 on bottom Partition 2&3 on top.	1 8
Vertical Split Right	Assesses the screen resolution and divides the display into two vertical regions, the right hand side is a single region, the left hand side is split into two evenly sized regions For 90 Partition 1&2 on top Partition 3 on bottom. For 270 Partition 3 on top Partition 1&2 on bottom.	2 3

Name	Description	Image
Horizontal Split Top	Assesses the screen resolution and divides the display into two evenly sized horizontal regions, the top region is single, the bottom region is spilt into two evenly sized regions For 90 Partition 1 on right side Vertical Partition 2&3 on left side Vertical. For 270 Partition 1 on left side Vertical Partition 2&3 on right side Vertical.	2 8
Horizontal Split Bottom	Assesses the screen resolution and divides the display into two evenly sized horizontal regions, the bottom region is single, the top region is spilt into two evenly sized regions For 90 Partition 1&2 on right side Vertical Partition 3 on left side Vertical. For 270 Partition 1&2 on left side Vertical Partition 3 on right side Vertical.	1 7 8
Even Split	Assesses the screen resolution and divides the display into four evenly sized regions.	1 3 2 4

3.5 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 23" XGA 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

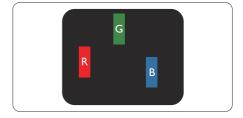
A pixel, or picture element, is composed of three sub pixels in the primary colors of red, green and blue. Many pixels together form an image. When all sub pixels of a pixel are lit, the three colored sub pixels together appear as a single white pixel. When all are dark, the three colored sub pixels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



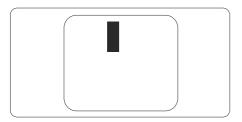
Three adjacent lit sub pixels (one white pixel)



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

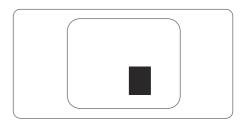
Black dot defects appear as pixels or sub pixels that are always dark or 'off'. That is, a dark dot is a sub-pixel that stands out on the screen when the monitor displays a light pattern. These are the types of black dot defects:



BRIGHT 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.

ACCEPTABLE LEVEL

MODEL	239CL2
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
MODEL	239CL2
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
MODEL	239CL2
Total bright or black dot defects of all types	5 or fewer



1 or 2 adjacent sub pixel defects = 1 dot defect This monitor is ISO9241-307 compliant.

4. Technical Specifications

Picture/Display		
Monitor panel type	TFT-LCD	
Backlight	LED	
Panel size	23"W (58.42 cm)	
Aspect ratio	16:9	
Pixel Pitch	0.0883 x 0.265 mm	
Brightness	250 cd/m ²	
SmartContrast	20,000,000:1	
Contrast ratio (typ.)	1000:1	
Response time (typical)	2 ms	
Optimum Resolution	1920x1080 @ 60Hz	
Viewing angle	176° (H) / 170° (V) @ C/R > 5	
Picture Enhancement	SmartImage	
Display colors	16.7 M	
Vertical refresh rate	56Hz -76Hz	
Horizontal Frequency	30kHz - 80kHz	
sRGB	YES	
Connectivity		
Signal input	DVI (digital),VGA (signal)	
Input Signal	Separate Sync, Sync on Green	
Convenience		
User Convenience		
OSD Languages	English, French, German, Italian, Russian, Spanish, Simplified Chinese, Portuguese, Turkish	
Plug & Play Compatibility	DDC/Cl, sRGB, Windows 7/Vista/XP, Mac OSX, Linux	
Stand		
Tilt	-3 / +14	

Power			
On mode	< 30W (typ.)		
Energy Consumption	AC Input Voltage at		
(EnergyStar 5.0 test method)	100VAC +/-5VAC,	115VAC +/-5VAC,	230VAC +/-5VAC,
	50Hz +/-3Hz	60Hz +/-3Hz	50Hz +/-3Hz
Normal Operation (typcial)	23.88W	23.78W	23.79W
Sleep	0.28W	0.28W	0.30W
Off	0.21W	0.21W	0.23W
Heat Dissipation*	AC Input Voltage at	AC Input Voltage at	AC Input Voltage at
	100VAC +/-5VAC,	115VAC +/-5VAC,	230VAC +/-5VAC,
	50Hz +/-3Hz	60Hz +/-3Hz	50Hz +/-3Hz
Normal Operation	81.50 BTU/hr	81.16 BTU/hr	81.19 BTU/hr
Sleep	0.956 BTU/hr	0.956 BTU/hr	1.024 BTU/hr
Off	0.717 BTU/hr	0.717 BTU/hr	0.785 BTU/hr

Power LED indicator	On mode: Blue, Standby/Sleep mode: Blue (blinking)	
Power Supply	AC/DC Adapter, 12V==3.0A	

Dimension		
Product with stand (WxHxD)	547 × 408 × 175 mm	
Product without stand	547 x 326 x 129 mm	
(WxHxD)		
Box dimension (WxHxD)	599 x 553 x 125 mm	
Weight		
Product with stand	2.56 kg	
Product with packaging	4.78 kg	
Operating Condition		
Temperature range (operation)	0°C to 40 °C	
Temperature range (Non-	-20°C to 60°C	
operation)		
Relative humidity	20% to 80%	
Altitude	Operation: + 12,000 ft (3,658 m)	
	Non-operation: + 40,000 ft (12,192 m)	
MTBF	30,000hrs	

Environmental	
ROHS	YES
EPEAT	Silver (www.epeat.net)
Packaging	100% recyclable
Compliance and standards	
Regulatory Approvals	CE Mark, FCC Class B, SEMKO, UL/cUL, Energy Star 5.0,
Cabinet	
Color	Black/Black
Finish	Glossy/Glossy



This data is subject to change without notice.

Go to www.philips.com/support to download the latest version of leaflet.

4.1 Resolution & Preset Modes

Maximum Resolution

 1920×1080 at 60 Hz (analog input) 1920×1080 at 60 Hz (digital input)

2 Recommended Resolution

1920 x 1080 at 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
37.50	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
63.89	1280×1024	60.02
79.98	1280×1024	75.03
55.94	1440×900	59.89
70.64	1440×900	74.98
65.29	1680×1050	59.95
67.50	1920×1080	60.00

4.2 Automatic PowerSaving

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	< 30 W (typ.)	Blue
Sleep	OFF	No	No	< 0.3 W (typ.)	Blue (blinking)
Switch Off	OFF	-	-	< 0.3 W (typ.)	OFF

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

- Native resolution: 1920 x 1080
- Contrast: 50%
- Brightness: 250 nits
- Color temperature: 6500k with full white pattern
- Audio (Off)

⊜ Note

This data is subject to change without notice.

5. Regulatory Information

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.

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 (Safety requirement of Information Technology Equipment)
- EN55022:2006 (Radio Disturbance requirement of Information Technology Equipment)
- EN55024:1998+A1:2001+A2:2003 (Immunity requirement of Information Technology Equipment)
- EN61000-3-2:2006 (Limits for Harmonic Current Emission)
- EN61000-3-3:1995+A1:2001+A2:2005
 (Limitation of Voltage Fluctuation and Flicker) following provisions of directives applicable
- 2006/95/EC (Low Voltage Directive)
- 2004/108/EC (EMC Directive)
- 2005/32/EC (EuP Directive, EC No. 1275/2008 mplementing Directive for Standby and Off mode power consumption) and is produced by a manufacturing organization on ISO9000 level.
 - The product also comply with the following standards
- ISO9241-307:2008 (Ergonomic requirement, Analysis and compliance test methods for electronic visual displays)
- GS EK1-2000:2009 (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 Displays 5.0 (Requirement for Environment Labeling of Ergonomics, Energy, Ecology and Emission, TCO: Swedish Confederation of Professional Employees) for TCO versions

This monitor is equipped with a function for saving energy which supports the VESA Display Power Management (DPM) standard. This

means that the monitor must be connected to a computer which supports VESA DPM. Time settings are adjusted from the system unit by software.

Normal operation	ON (Active)	Blue	< 30 W (typ.)
Power Saving Alternative 2 One step	Sleep Switch Off	Blue (blinking) OFF	< 0.3 W (typ.) < 0.3 W (typ.)

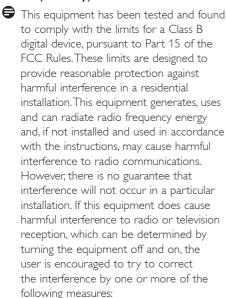


As an ENERGY STAR® Partner, we have determined that this product meets the ENERGY STAR® guidelines for energy efficiency.



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)



- · 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)



Cet équipement a été testé et déclaré conforme auxlimites des appareils numériques de class B.aux termes de l'article 15 Des règles de la FCC. Ces limites sont concues de facon à fourir une protection raisonnable contre les interférences nuisibles dans le cadre d'une installation résidentielle.

CET appareil produit, utilise et peut émettre des hyperfréquences qui, si l'appareil n'est pas installé et utilisé selon les consignes données, peuvent causer des interférences nuisibles aux communications radio.

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 take only is deviced as described in \$1.19023 among it is specifiedly stated that it is Class in duties on the generalization table. The fallowing applies to device in Class of all \$1.00020 is stored in production up to 300 molecule. The last of the device is copyed to face at depth specialization by the over according to the fallowing to the device to the fallowing the device the copyed to face at depth specialization to restrict an individual to the device to the device the copyed to face at depth specialization to restrict the device the copyed to face at depth specialization of the device to the device the copyed to the device the device the copyed to the device the de communication or other devices

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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/F-06251.

Wymagonia Polskiego Centram Kodoń i Cartyfikacji.

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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 NEMT TILGÆNGELIGE

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.

BSMI Notice (Taiwan Only)

符合乙類資訊產品之標準

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.

1 ACHTUNG: BEIM AUFSTELLEN DIESES GERÄTES DARAUE ACHTEN, DAß NETZSTECKER UND NETZKABELANSCHLUB LEICHT ZUGÄNGLICH SIND.

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 including CRT and Monitor which are produced and sold for China market have to meet China RoHS request.

中国文献与中的

根据中国大阪《电子位息产品网络控制管理办法》(也称为中国大阪产业化) 以下部分内部了本产品中间给包含的有需有事物质或定量的系统和含量

本表研究之产品

無容器(被音法CRT)

有毒有害者质技术集

银件名称	有毒有物物质或元素					
	, 90 (70)	(Hg)	(m)	/HME (D6+)	580# (He)	58188 (PIDE)
元 克	-0	0	0	-0	0	ū
CHRIS	10	0	D			
商品股份用/公開	×	×	- 0			- 0
0.0607	×	0	0			0
电放射效用	10	0	D.	Ö	0	0
888/888	×	0	Ö			Ö

1 环保使用期限

此标识指期限(十年),电子信息产品中含有的有毒有害物质或元素在正常使用的条件下不会发生外泄或突变,电子信息产品用户使用该电子信息产品不会对环境造成严重污染或对其人身、财产造成严重损害的期限:

中国能源的率标识

根据中国大陆《建筑家事件积管理办法》不显示器符合以下逻辑。

度無效率(sakV/)	> 1.06
基效等值	1.65
	GS 21520-2008

详撰有关信息项面例中国影响标识网:http://www.energ/abeligov.cn.

Customer care and warranty

PLEASE SELECTYOUR COUNTRY/AREA TO REVIEW DETAILS OF YOUR WARRANTY COVERAGE

WESTERN EUROPE

Austria / Belgium / Denmark / France / Germany / Greece / Finland / Ireland / Italy / Luxembourg / the Netherlands / Norway / Portugal / Sweden / Switzerland / Spain / United Kingdom / Poland

EASTERN EUROPE

Czech Republic / Hungary / Russia / Slovakia / Slovenia / Turkey

LATIN AMERICA

Argentina / Brasil

NORTH AMERICA

Canada / USA

PACIFIC

Australia / New Zealand

ASIA

China / Hong Kong / India / Indonesia / Korea / Malaysia / Pakistan / Philippines / Singapore / Taiwan / Thailand / Vietnam

AFRICA

South Africa

MIDDLE EAST

United Arab Emirates

Your Philips F1rst Choice Warranty

Thank you for purchasing this Philips monitor.



All Philips monitors are designed and manufactured to high standards and deliver high-quality performance, ease of use and ease of installation. Should you

encounter any difficulties while installing or using this product, please contact the Philips helpdesk directly to benefit from your Philips F1rst Choice Warranty. This two-year service warranty entitles you to a swap model on-site if your monitor turns out to be faulty or defective. Philips aims at a swap within 48 hours of your call being received.

What is covered?

The Philips F1rst Choice Warranty applies within Andorra, Austria, Belgium, Cyprus, Denmark, France, Germany, Greece, Finland, Ireland, Italy, Liechtenstein, Luxembourg, Monaco, the Netherlands, Norway, Poland, Portugal, Sweden, Switzerland, Spain and the United Kingdom and only for monitors originally designed, manufactured, approved and/or authorized for usage within these countries.

Warranty coverage begins as from the day you buy your monitor. For two years thereafter, your monitor will be swapped by at least an equivalent monitor in case of defects provided for under the warranty coverage.

The swap monitor remains yours and Philips keeps the defective/original monitor. For the swap monitor the warranty period remains equal to that of your original monitor, being 24 months as from the purchase date of your original monitor.

What is excluded?

The Philips F1rst Choice Warranty 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.

The Philips F1rst Choice Warranty may not apply if:

- The documents have been altered in any way or made illegible;
- The model or production number on the product has been altered, deleted, removed or made illegible;
- Repairs or product modifications and alterations have been executed by unauthorized service organizations or persons;
- Damage is caused by accidents including but not limited to lightning, water or fire, misuse or neglect;
- Reception problems caused by signal conditions or cable or antenna systems outside the unit;
- Defects caused by abuse or misuse of the monitor;
- Product requires modification or adaptation to enable it to comply with local or national technical standards, which apply in countries for which the product was not originally designed, manufactured, approved and/or authorized. Therefore always check whether a product can be used in a specific country.
- Note that products that are not originally designed, manufactured, approved and/ or authorized for usage within the Phillips F1rst Choice countries, do not apply to the Phillips F1rst Choice Warranty. In these cases the Phillips global warranty terms are valid.

Just a click away

In case of any problems, we advise you to read the operating instructions carefully or go to the www.philips.com/support website for additional support.

Just a phone call away

In order to avoid unnecessary inconvenience, we advise you to read the operating instructions carefully or go to the www.philips.com/support website for additional support before contacting the Philips helpdesk.

To solve your problem quickly, please prepare the following details before contacting the Philips helpdesk:

- · Philips type number
- · Philips serial number
- Purchase date (copy of purchase may be required)
- PC environment Processor:
 - CPU and Graphic card name and driver version
 - Operating system
 - Application being used
- Other cards installed

Having the following information available will also help speed up the process:

- Your proof of purchase indicating date of purchase, dealer name, model and product serial number.
- The full address to which the faulty monitor has to be collected and the swap model should be delivered.

Philips' customer help desks are located worldwide. Click here to access the F1rst Choice Contact Information.

Or you can reach us via:

Website: http://www.philips.com/support

F1rst Choice Contact Information

Country	Code	Telephone number	Tariff
Austria	+43	0810 000206	€0.07
Belgium	+32	078 250851	€0.06
Denmark	+45	3525 8761	Local call tariff
Finland	+358	840 320 041	€0.08
Luxembourg	+352	26 84 30 00	Local call tariff
The Netherlands	+31	0900 0400 063	€0.10
Norway	+47	2270 8250	Local call tariff
Poland	+48	0223491505	Local call tariff
Portugal	+351	2 1359 1440	Local call tariff
Spain	+34	902 888 785	€0.10
Sweden	+46	08 632 0016	Local call tariff
Switzerland	+41	02 2310 2116	Local call tariff
United Kingdom	+44	0207 949 0069	Local call tariff

Your Guarantee in Central and Eastern Europe

Dear Customer.

Thank you for purchasing this Philips product, which has been designed and manufactured to the highest quality standards. If, unfortunately, something should go wrong with this product Philips guarantees free of charge labor and replacement parts during a period of 24 months from date of purchase.

What is covered?

This Philips Guarantee in Central and Eastern Europe applies within Czech Republic, Hungary, Slovakia, Slovenia, Russia and Turkey and only for monitors originally designed, manufactured, approved and/or authorized for usage within these countries.

Warranty coverage begins as from the day you buy your monitor. For two years thereafter, your monitor will be serviced in case of defects provided for under the warranty coverage.

What is excluded?

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.

The Philips guarantee may not apply if:

- the documents have been altered in any way or made illegible;
- the model or production number on the product has been altered, deleted, removed or made illegible;
- repairs or product modifications and Iterations have been executed by unauthorized service organizations or persons;
- damage is caused by accidents including but not limited to lightning, water or fire, misuse or neglect.

- Reception problems caused by signal conditions or cable or antenna systems outside the unit:
- Defects caused by abuse or misuse of the monitor:
- Product requires modification or adaptation to enable it to comply with local or national technical standards, which apply in countries for which the product was not originally designed, manufactured, approved and/or authorized. Therefore always check whether a product can be used in a specific country.

Please note that the product is not defective under this guarantee in the case where modifications become necessary in order for the product to comply with local or national technical standards which apply in countries for which the product was not originally designed and/or manufactured. Therefore always check whether a product can be used in a specific country.

Just a click away

In case of any problems, we advise you to read the operating instructions carefully or go to the www.philips.com/support website for additional support.

Just a phone call away

In order to avoid unnecessary inconvenience, we advise you to read the operating instructions carefully before contacting our dealers or Information Centers

In case your Philips product is not working correctly or is defective, please contact your Philips dealer or directly the Philips Service and Consumer Information Centers

Website: http://www.philips.com/support

Consumer Information Centers

Argentina / Australia / Brasil / Canada / New Zealand / Belarus / Bulgaria / Croatia / Czech Republic / Estonia / United Arab Emirates / Hong Kong / Hungary / India / Indonesia / Israel / Latvia / Lithuania / Malaysia / Middle East + North Africa / New Zealand / Pakistan / Romania / Russia / Serbia & Montenegro / Singapore / Slovakia / Slovenia / South Africa / South Korea / Taiwan / Philippines / Thailand / Turkey / Ukraine / Vietnam

Eastern Europe

BELARUS Technic al Center of JV IBA M. Bogdanovich str. 155 BY - 220040 Minsk Tel: +375 17 217 33 86

BELARUS

Service.BY Petrus Brovky st. 19 – 101-B 220072, Minsk Belarus

BULGARIA

LAN Service 140, Mimi Balkanska Str. Office center Translog 1540 Sofia, Bulgaria Tel: +359 2 960 2360 www.lan-service.bg

CZECH REPUBLIC

General Consumer Information Center 800 142100

Xpectrum

Lu.ná 591/4 CZ - 160 00 Praha 6 Tel: 800 100 697 or 220 121 435 Email:info@xpectrum.cz www.xpectrum.cz

CROATIA

Renoprom d.o.o. Ljubljanska 4, Sv. Nedjelja,10431 Croatia Tel: +385 1 333 0974

ESTONIA

FUJITSU SERVICES OU Akadeemia tee 21G EE-12618 Tallinn Tel: +372 6519900 www.ee.invia.fujitsu.com

HUNGARY

Serware Szerviz Vizimolnár u. 2-4 HU - 1031 Budapest Tel: +36 1 2426331 Email: inbox@serware.hu

HUNGARY

Profi Service Center Ltd.
123 Kulso-Vaci Street,
H-1044 Budapest (Europe Center)
Hungary
Tel: +36 1 814 8080
m.andras@psc.hu

LATVIA

ServiceNet LV Jelgavas iela 36 LV - 1055 Riga, Tel: +371 7460399 Email: serviss@servicenet.lv

LITHUANIA

ServiceNet LT
Gaiziunu G. 3
LT - 3009 KAUNAS
Tel: +370 7400088
Email: servisas@servicenet.lt
www.servicenet.lt

ROMANIA

Blue Ridge Int'l Computers SRL 115, Mihai Eminescu St., Sector 2 RO - 020074 Bucharest Tel: +40 21 2101969

SERBIA & MONTENEGRO

Kim Tec d.o.o. Viline vode bb, Slobodna zona Beograd L12/3 11000 Belgrade Serbia Tel. +381 11 20 70 684

SLOVAKIA

General Consumer Information Center 0800004551 Datalan Servisne Stredisko Puchovska 8

SK - 831 06 Bratislava Tel: +421 2 49207155 Email: servis@datalan.sk

SLOVENIA

PC HAND Brezovce 10 SI - 1236 Trzin Tel: +386 1 530 08 24 Email: servis@pchand.si

RUSSIA

CPS 18, Shelepihinskaya nab. 123290 Moscow Russia Tel. +7(495)797 3434

Profservice:

14A -3, 2Karacharovskaya str, 109202, Moscow , Russia

Tel. +7(095)170-5401

TURKEY

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Comel

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Ylishina str. 3

Kiev

Ukraine-03151 Tel: +38 044 245 73 31

Latin America ARGENTINA

Azopardo 1480. (C1107ADZ) Cdad. de Buenos Aires Tel: 0800 3330 856 Email: CIC.monitores@Philips.com

BRASIL

Alameda Raja Gabaglia, 188 - 10°Andar - V. Olímpia - S. Paulo/SP - CEP 04551-090 -Brasil

Tel: 0800-7254101

Email: CIC.monitores@Philips.com

Pacific

AUSTRALIA

Company: AGOS NETWORK PTY LTD Address: 4/5 Dursley Road, Yenorra, NSW 2161, Australia

Tel: 1300 360 386 Fax: +61-2-80808147 Email: philips@agos.com.au

Service hours: Mon.~Fri. 8:00am-7:30pm

NEW ZEALAND

Company: Visual Group Ltd.

Address: 28 Walls Rd Penrose Auckland

Phone: 0800 657447 Fax: 09 5809607

E-mail: vai.ravindran@visualgroup.co.nz Service Hours: Mon.~Fri. 8:30am~5:30pm

Asia

HONG KONG/Macau

Company Name: PHK Service Limited Address: Flat A, 10/F., Pak Sun Building, 103 - 107 Wo Yi Hop Road, Kwai Chung, New Territories,

Hong Kong

Tel.: (852) 2610-6908 / (852) 2610-6929 for Hong Kong and (853) 2856-2277 for Macau Fax: (852) 2485 3574 for Hong Kong and (853) 2856 1498 for Macau

E-mail: enquiry@phkservice.com.hk Service Hours: Mon.~Sat. 09:00am~06:00pm

India

Company: REDINGTON INDIA LTD

Address: SPL Guindy House, 95 Mount Road, Chennai 600032. India

Tel: +9144-42243352/353

E-mail: aftersales@in.aocmonitor.com

Service hours: Mon.~Fri. 9:00AM~5:30PM; Sat.

9:00AM~1:00PM

Indonesia

Company Name: PT. Gadingsari elektronika Prima

Address: Kompleks Pinang 8, Jl. Ciputat raya No.

8F, Pondok Pinang. Jakarta

Tel: 021-750909053, 021-750909056

Fax: 021-7510982

E-mail: gepta@cbn.net.id

Service hours: Mon.~Fri. 8:30am~4:30pm;

Sat. 8:30am~2:00pm

Additional service points:

 Philips Building Jl. Buncit Raya Kav 99. Jakarta Selatan. Phone: 021-7940040, ext 1722/1724, 98249295. 70980942 2. Jl. Tanah Abang 1 no 12S. Jakarta Pusat. Phone: 021-3455150, 34835453

Rukan City Home no H31, Gading Square.

3. Jl. Bulevar Barat. Kelapa Gading. Jakarta Utara.

Phone: 021-45870601, 98131424

South Korea

Company: PCS One Korea Ltd.

Address: 112-2, Banpo-dong, Seocho-ku, Seoul,

137-040, Korea

Call Center Tel: 080-600-6600

Tel: 82 2 591 1528 Fax: 82 2 595 9688

E-mail: cic_korea@philips.com

Service hours: Mon.~Fri. 9:00AM~ 6:00PM; Sat.

9:00AM~1:00PM

Malaysia

Company: After Market Solutions (CE) Sdn Bhd Address: Lot 6. Jalan 225/51A, 46100 Petaling

Jaya, Selangor DE, Malaysia. Phone: 603 7953 3370

Philips Info Line: 1-800-880-180

Fax: 603 7953 3338

E-mail: pceinfo.my@philips.com

Service Hours: Mon.~Fri. 8:15am~5:15pm; Sat.

9:00am~1:00pm

Pakistan

Philips Consumer Service

Address: Mubarak manzil, 39, Garden Road,

Saddar, Karachi-74400

Tel: (9221) 2737411-16

Fax: (9221) 2721167

E-mail: care@philips.com Website: www.philips.com.p

Singapore

Company: Philips Electronics Singapore Pte Ltd

(Philips Consumer Care Center)

Address: 620A Lorong 1 Toa Payoh, TP4 Building

Level 1, Singapore 319762

Tel: (65) 6882 3999

Fax: (65) 62508037

E-mail: consumer.care.sg@philips.com

Service hours: Mon.~Fri. 9:00am~6:00pm; Sat.

9:00am~1:00pm

Taiwan

Company: FETEC.CO

Address: 3F, No.6, Lane 205, Sec. 1, Chang Hsing Rd, Lu Chu Hs, Taoyuan, Taiwan R.O.C 33800

Consumer Care: 0800-231-099

Tel: (03)2120336 Fax: (03)3129184

E-mail: knlin08@xuite.net

Service hours: Mon.~Fri. 8:30am~7:00pm

Thailand

Company: Axis Computer System Co., Ltd. Address: 1421 Soi Lardprao 94, Srivara Town In Town Soi 3 Road, Wangthonglang, Bangkok 10310 Thailand

Tel: (662) 934-5498 Fax: (662) 934-5499

E-mail: axis5@axiscomputer.co.th

Service Hours: Mon.~Fri. 08:30am~05:30pm

Glee Electronics Inc

Contact nos. (632) 636-3636 / 7064028 to 29 Fax no. (632) 7064026

Receiving Centers

NEO CARE - Megamall 4th Level Cyberzone, Building B, SM Megamall, Mandaluyong City

NEO CARE - SM North EDSA

4th Level Cyberzone, Annex Bldg. SM City North EDSA, Quezon City 441-1610

MDR Microware Sales Inc.

Cebu Branch

N. Escario corner Clavano St., Cebu City Phils. # 255-4415/ 255-3242/253-9361/4124864 to 67

Sun # 0922-8210045 to 46

Davao Office:

C. Arellano St., Davao City 8000 082- 225-3021/225-3022 Sun# 0922-8210015

CDO Office:

1445 Corrales Ext.,CDO City 088-856-8540/856-8541 Sun # 0922-8210080

Iloilo Office:

C. Lim Comp., Gomez St., Iloilo City # 033 338-4159/ 033 508-3741 Sun # 0922-8808850

Africa

SOUTH AFRICA

Company name: Sylvara Technologies Pty Ltd Address: Ho Address Palm Springs Centre Christoffel Road Van Riebeeck Park Kempton Park, South Africa

Tel: +27878084456 Fax: +2711 391 1060

E-mail: customercare@philipssupport.co.za Service hours: Mon.~ Fri. 08:00am~05:00pm

Middle East

Middle East + North Africa

Company: AL SHAHD COMPUTER L.L.C Address: P.O.BOX: 29024, DUBAI, UNITED ARAB EMIRATES

TEL: 00971 4 2276525 FAX: 00971 4 2276242

E-mail: shahd52@eim.ae

Service hours: Sat.~Thur. 9:00am~1:00pm & 4:00pm- 8:00pm

Israel

Company: Eastronics LTD

Address: 13 Rozanis St. P.O.B. 39300, Tel Aviv 61392 Israel

Tel: 1-800-567000 call free in Israel; (972-50-8353722 after service hours until 20:00)

Fax: 972-3-6458759

 $\hbox{E-mail: eastronics@eastronics.co.il}\\$

Service hours: Sun.~Thurs. 08:00 - 18:00

Your Philips F1rst Choice Warranty(USA)

Thank you for purchasing this Philips monitor.



All Philips monitors are designed and manufactured to high standards and deliver high-quality performance, ease of use and ease of installation. Should you

encounter any difficulties while installing or using this product, please contact Philips directly to benefit from your Philips F1rst Choice Warranty. This two-year service warranty entitles you to a swap model on-site within 48 hours of your call being received within the first year of purchase. If you have any problems with your monitor within the second or third year of purchase, we will repair it after it has been sent to the service provider at your expense and returned to you within five working days, free of charge.

LIMITED WARRANTY (Computer Monitor)

Click here to access the Warranty Registration Card.

Two Years Free Labor / Two Years Free Service on Parts / One Year Exchange*

*Product will be exchanged with a new or renewed to original specifications unit within two business days for the first year. This product must be shipped in at your expense for service during years two.

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase. Attach it to this owner's manual and keep both nearby.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. For two years thereafter, all parts will be repaired or replaced, and labor is free. After two years from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the original product expires, the warranty on all replaced and repaired products and parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.

product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics.

reception problems caused by signal conditions or cable or antenna systems outside the unit.

a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.

incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)

the model or production number on the product has been altered, deleted, removed or made illegible.

Where IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics. In countries where Philips Consumer Electronics does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

Where CAN I GET MORE INFORMATION?

For more information, contact the Philips Customer Care Center by calling (877) 835-1838 (U.S.A. customers only) or (919) 573-7855.

Before Requesting Service...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S.VIRGIN ISLANDS...

Contact the Philips Customer Care Center phone number listed below for product assistance and procedures for servicing:

Philips Customer Care Center

(877) 835-1838 or (919) 573-7855

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...

Please contact Philips at: (800) 479-6696

Two years free parts and two years free labor will be provided at Philips Canada depot or any one of its authorized service centers.

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER... Please record the model and serial numbers found on the product below.

MODEL#	
SERIAL #	

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Before contacting Philips, please prepare the following details so we can solve your problem quickly.

- Philips type number
- Philips serial number
- Purchase date (copy of purchase may be required)
- PC environment Processor:
 - CPU and Graphic card name and driver version
 - · Operating system
 - · Application being used
- Other cards installed
 Having the following information available
 will also help speed up the process:
- Your proof of purchase indicating date of purchase, dealer name, model and product serial number.
- The full address to which the swap model should be delivered.

Just a phone call away

Philips' customer help desks are located worldwide. Within the U.S. you can contact Philips customer care Monday-Friday from 8:00 AM-9:00 PM Eastern Time (ET) and on Saturdays from 10:00 AM-5:00 PM ET hrs by using one of the contact phone numbers.

For more information on this and more great Philips products visit our website at:

Website: http://www.philips.com

Your International Guarantee

Dear Customer.

Thank you for purchasing this Philips product which has been designed and manufactured to the highest quality standards.

If, unfortunately, something should go wrong with this product Philips guarantees free of charge labor and replacement parts irrespective of the country where it is repaired during a period of 12 months from date of purchase. This international Philips guarantee complements the existing national guarantee obligations to you of dealers and Philips in the country of purchase and does not affect your statutory rights as a customer.

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.

The Philips guarantee may not apply if:

- the documents have been altered in any way or made illegible;
- the model or production number on the product has been altered, deleted, removed or made illegible;
- repairs or product modifications and alterations have been executed by unauthorized service organizations or persons;
- damage is caused by accidents including but not limited to lightning, water or fire, misuse or neglect.

Please note that the product is not defective under this guarantee in the case where modifications become necessary in order for the product to comply with local or national technical standards which apply in countries for which the product was not originally designed and/or manufactured. Therefore always check whether a product can be used in a specific country.

In case your Philips product is not working correctly or is defective, please contact your Philips dealer. In the event you require service whilst in another country a dealer address can be given to you by the Philips Consumer Help Desk in that country, the telephone and fax number of which can be found in the relevant part of this booklet.

In order to avoid unnecessary inconvenience, we advise you to read the operating instructions carefully before contacting your dealer. If you have questions which your dealer cannot answer or any related question please contact the Philips Consumer Information Centers or via:

Website: http://www.philips.com

7. Troubleshooting & FAQs

7.1 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.

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 Blue)

- 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 Set-Up 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.

Imaging Problems

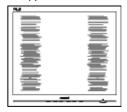
Image is not centered

- 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.
- Severe "burn-in" or "after-image" or "ghost image" symptoms will not disappear and cannot be repaired. The damage mentioned above is not covered under your warranty.

Image appears distorted. Text is fuzzy or blurred.

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

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

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

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

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

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

7.2 SmartControl Premium FAQs

Q1. I change the monitor on a PC to a different one and the SmartControl Premium becomes un-usable, what do I do?

Ans.: Restart your PC and see if SmartControl Premium can work.
Otherwise, you will need to remove and re-install SmartControl Premium to ensure proper driver is installed.

Q2. The SmartControl Premium functions worked well before, but it does not work anymore, what can I do?

Ans.: If the following actions were executed, the monitor driver may need to be reinstalled.

- Changed video graphic adapter to another one
- · Updated video driver
- Activities on OS, such as service pack or patch
- Run Windows Update and updated monitor and/or video driver
- Windows was booted with the monitor power off or disconnected.
- To find out, please right click My Computer and click on Properties->Hardware-> Device Manager.
- If you see "Plug and Play Monitor" shows under Monitor, then you need to re-install. Simply remove SmartControl Premium and re-install it.
- Q3. After installing SmartControl Premium, when clicking on SmartControl Premium tab, nothing shows up after a while or a failure message shows, what happened?

Ans.: It might be your graphic adaptor is not compatible with the SmartControl Premium. If your graphic adaptor is one of the above mentioned brands, try to download the most updated graphic

adaptor driver from corresponding companies' web site. Install the driver. Remove SmartControl Premium, and re-install it once more.

If it is still not working, we are sorry that the graphic adaptor is not supported. Please visit Philips website and check if an updated SmartControl Premium driver is available.

Q4. When I click on Product Information, only partial information is shown, what happened?

Ans.: It might be your graphic card adaptor driver is not the most updated version which fully supporting DDC/Cl interface. Please try to download the most updated graphic adaptor driver from corresponding companies' web site. Install the driver. Remove SmartControl Premium and re-install it once more.



Q5. I forgot my PIN for Theft Deterrence Function. How can I do?

Ans.: Philips Service center has a right to ask for legitimate identification and authorization, in order to establish ownership of the monitor:

7.3 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 Philips 23'': $1920 \times 1080 @60$ 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 labeled 'desktop area', move the sidebar to 1920 x 1080 pixels (23").
- Open 'Advanced Properties' and set the Refresh Rate to 60Hz, then click OK.
- Restart your computer and repeat step 2 and 3 to verify that your PC is set at 1920 × 1080 @60Hz (23").
- 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 does the recommended refresh rate for Monitor?

Ans.: Recommended refresh rate in Monitors is 60Hz, In case of any disturbance on screen, you can set it up to 75Hz 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 OK button, then select 'Reset' to recall all of the original factory settings.

Q6: Is the LCD screen resistant to scratches?

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

Q7: How should I clean the LCD surface?

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

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

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

- 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, blue-white toning."
- sRGB; this is a standard setting for ensuring correct exchange of colors between different device (e.g. digital cameras, monitors, printers, scanners, etc)
- 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.

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 Windows 7/Vista/XP/NT, Mac OSX, Linux

Q11: What kind of wide-angle technology is available?

Ans.: Currently, the IPS type panels offer the best Contrast Ratio, compared to MVA, or PVA technologies. TN panels have improved over the years, but IPS panel still gives superior results overTN panel.

Q12: 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

Severe"burn-in" or "after-image" or "ghost image" symptoms will not disappear and cannot be repaired. The damage mentioned above is not covered under your warranty.

Q13: Why is my Display not showing sharp text, and is displaying jagged characters?

Ans.: Your Monitor works best at its native resolution of 1920 × 1080 @60Hz. For best display please use this resolution.



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Version: M2239CLE1T