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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**
- 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 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 LCD panel. When moving your monitor, grasp the frame to lift; do not lift the monitor by placing your hand or fingers on the LCD panel.
- Unplug the monitor if you are not going to use it for an extensive period of time.
- 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 32-95°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.

سا نت

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:

 الإسلام

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/sites/philipsglobal/about/sustainability/ourenvironment/productrecyclingservices.page
2. Setting up the monitor

2.1 Installation

1. Package contents

- Power
- *HDMI
- Audio
- Dual-link DVI
- *DP
- *VGA

*Depends on the country

2. Install the base

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

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

### Connecting to your PC

1. Connect the power cord to the back of the monitor firmly.
2. Turn off your computer and unplug its power cable.
3. Connect the monitor signal cable to the video connector on the back of your computer.
4. Plug the power cord of your computer and your monitor into a nearby outlet.
5. Turn on your computer and monitor. If the monitor displays an image, installation is complete.

**Connect to PC**

1. Kensington anti-theft lock
2. Audio input
3. Earphone jack
4. VGA input
5. Display port input
6. MHL-HDMI input
7. DVI input
8. RS232
9. AC power input
10. Power Switch
11. USB upstream
12. USB downstream
13. USB fast charger
2. Setting up the monitor

2.2 Operating the monitor

1. Description of the control buttons

<table>
<thead>
<tr>
<th>1</th>
<th></th>
<th>Switch monitor’s power ON or OFF.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td></td>
<td>Access the OSD menu. Confirm the OSD adjustment.</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>Adjust the OSD menu.</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>User preference key. Customize your own preference function from OSD to become the “user key”.</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>PIP/PbP/Off/Swap</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>Return to previous OSD level.</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>SmartImage hot key. There are 7 modes to select: Office, Photo, Movie, Game, Economy, SmartUniformity, Off.</td>
</tr>
</tbody>
</table>

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.

4. Press ▲ or ▼ button to select your preferred function: [Audio Source], [Volume], or [Input].

5. Press OK button to confirm your selection.

Now you can press the hotkey 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.
2. Setting up the monitor

3. 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 [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.

4. Press ▲ or ▼ button to select your preferred audio source: [DisplayPort], [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 LCD monitors. It allows an end user to adjust screen performance or select functions of the monitors directly through an on-screen instruction window. A user friendly on screen display interface is shown as below:

Basic and simple instruction on the control keys

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

The OSD Menu

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

Main menu | Sub menu
---|---
Input | VGA, DVI, DisplayPort
Picture | Picture Format, Brightness, Contrast, Black level, Hue, Saturation, 6 Color, 6 Saturation
Setup | Horizontal, Vertical, Transparency, OSD Time Out, User
Language | English, Deutsch, Español, Ελληνικά, Français, Italiano, 日本語, 한국어, Polski, Русский, Türkçe, Українська
OSD Settings | Horizontal, Vertical, Transparency, Resolution Notification, DisplayPort, RS232
Poster | Auto, H. Position, V. Position, Phase, Clock
Reset | Yes, No
Information | Information

Resolution notification

This monitor is designed for optimal performance at its native resolution, 3440 x 1440 @ 60 Hz. When the monitor is powered on at a different resolution, an alert is displayed on screen: Use 3440 x 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.

Physical Function

Tilt

Swivel

Height adjustment
2. Setting up the monitor

2.3 MultiView

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

2. Why do I need it?
With the ultra high resolution Philips MultiView display, you can experience a world of connectivity in a comfortable way in the office or at home. With this display, you can conveniently enjoy multiple content sources at one screen. For example: You may want to keep an eye on the live news video feed with audio in the small window, while working on your latest blog, or you may want to edit an Excel file from your Ultrabook, while logged into secured company intranet to access files from a desktop.
2. Setting up the monitor

3. How to enable MultiView by hotkey?

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

2. 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.

- Press ▲ or ▼ button to select main menu [PiP / PbP], then press OK button.
- Press ▲ or ▼ button to select [PiP / PbP Mode], then press OK button.
- Press ▲ or ▼ button to select [PiP] or [PbP].
- Now you can move backward to set the [PiP / PbP Input], [PiP Size], [PiP Position], or [Swap].

2. 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 side-by-side of another signal source.

  When the sub source is not detected:

Note
The black strip shows on the top and the bottom of the screen for the correct aspect ratio when in the PbP mode.
2. Setting up the monitor

- **PiP / PbP Input**: There are four different video input to choose as the sub display source: [DVI], [HDMI], and [DisplayPort]. Please refer below table for compatibility of main/sub input source.

<table>
<thead>
<tr>
<th>MultiView</th>
<th>SUB SOURCE POSSIBILITY (xl)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inputs</td>
<td>VGA</td>
</tr>
<tr>
<td>MAIN SOURCE (xl)</td>
<td></td>
</tr>
<tr>
<td>VGA</td>
<td>●</td>
</tr>
<tr>
<td>DP</td>
<td>●</td>
</tr>
<tr>
<td>DVI</td>
<td>●</td>
</tr>
<tr>
<td>HDMI</td>
<td>●</td>
</tr>
</tbody>
</table>

- **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 two 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 7 “Independent audio playback, regardless of video input” for more detail.)
  - DisplayPort supports resolution to only 3440 x 1440 @ 30 Hz when in PBP mode or when it is the sub source in PIP mode; it supports resolution to 3440 x 1440 @ 60 Hz when it is the main source in PIP mode.
2. Setting up the monitor

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

2. Loosen the assembly screws, then detach the neck from the monitor.

Note
This monitor accepts a 100mm x 100mm VESA-Compliant mounting interface.
2.5 MHL (Mobile High-Definition Link) introduction

What is it?
Mobile High Definition Link (MHL) is a mobile audio/video interface for directly connecting mobile phones and other portable devices to high-definition displays.

An optional MHL cable allows you to simply connect your MHL capable mobile device to this large Philips MHL display, and watch your HD videos come to life with full digital sound. Now not only you can enjoy your mobile games, photos, movies, or other apps on its big screen, you can simultaneously charge your mobile device so you never run out of power halfway.

How do I use the MHL function?
To use the MHL function, you need an MHL-Certified mobile device. To find a list of MHL-certified devices, visit the official MHL website (http://www.mhlconsortium.org)

You also need a optional MHL certified special cable in order to use this function.

How does it work? (how do I connect?)
Connect the Optional MHL cable to the mini USB port on the mobile device side, and the [MHL-HDMI] marked port on the monitor side. You are now ready to view the images on your big screen display and operate all function on you the mobile device such as internet surfing, game playing, photo browsing…etc. if your monitor has speaker function, then you will be able to hear accompanying sound too. When the MHL cable is disconnected or the mobile device is turned off, the MHL function will be automatically disabled.

Note
• The port marked [MHL-HDMI] is the only port on the monitor that supports the MHL function when the MHL cable is used. Note that the MHL certified cable is different than a standard HDMI cable.
• A mobile device with MHL certification must be purchased separately
• You may have to manually switch the monitor to MHL-HDMI mode in order to activate the monitor, if you have other devices already working and connected to available inputs
• Standby/Off energy saving of ErP is not applicable for the MHL charging functionality
• This Philips display is MHL certified. However, in case your MHL device does not connect or work correctly, check with your MHL device FAQ or vendor directly for direction. The policy of your device manufacturer may require you to purchase their brand specific MHL cable or adapter in order to work with other brand MHL devices. Note that this is not a fault of this Philips display.
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 $\text{F1}$ to launch the SmartImage on screen display.
2. Keep pressing $\text{▼} \uparrow$ to toggle among Office, Photo, Movie, Game, Economy, SmartUniformity 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.

3. The SmartImage on screen display will remain on screen for 5 seconds, or you can also press "OK" to make confirmation.
There are seven modes to select: Office, Photo, Movie, Game, Economy, SmartUniformity and Off.


3. Image Optimization

- **Economy**: Under this profile, brightness, contrast are adjusted and backlighting finetuned for just right display of everyday office applications and lower power consumption.

- **SmartUniformity**: Fluctuations in brightness and color on different parts of a screen are a common phenomenon among LCD monitors. Typical uniformity is measured around 75-80%. By enabling Philips SmartUniformity feature, display uniformity is increased to above 95%. This produces more consistent and true images.

- **Off**: No optimization by SmartImage.

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.

2. **Why do I need it?**
You want the very best visual clarity and viewing comfort for every type of content. SmartContrast dynamically controls contrast and adjusts backlighting for clear, crisp, bright gaming and video images or displays clear, readable text for office work. By reducing your 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 Philips 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 compliant eye catching animated Icon based software is ready to enhance your experience with Philips monitors!

1. **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.

![SmartControl Premium software interface](image)

**First launch - Wizard**
- The first time after installation of SmartControl 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.
3. Image Optimization

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

### Start with Standard pane

#### Adjust menu

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

#### Color menu

- Color Menu allows you to adjust RGB, Black Level, White Point, Display Gamma, Calibration, SmartImage, and SmartKolor.
- 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.
5. 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.
3. Image Optimization

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

Allow users to change setting for better display setting based on content.

When Entertainment is set, SmartContrast and SmartResponse are enabled.

Eco Power menu

Options menu

Options>Preferences - Will only be active when selecting Preferences from the drop-down Options menu. On a non-supported display capable of DDC/CI, 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.
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 Update, 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 shortcut 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, Windows 8, Vista, XP). Default is 0% Opaque.

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

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>Theft Deterrence - Theft Deterrence Pane will only be active when selecting Theft Deterrence Mode from the drop-down Plug-in menu.
To enable Theft Deterrence, click on **On** button to bring 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.

**Help menu**

**Help>Version** - Will only be active when selecting Version from the drop-down Help menu. On a non-supported display capable of DDC/CI, 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. Factory Preset can also be called from the drop-down menu.
- **Tune Display** - Opens the SmartControl Premium control panel.
- **SmartImage** - Check current settings: Off, Office, Photo, Movie, Game, Economy.

**Task Tray Menu Enabled**

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

- **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.

**Note**

All the illustrations in this section are for reference only. SmartControl software version might be changed without notification. Please always check official Portrait website www.portrait.com/dtune/phl/enu/index to download the latest version of SmartControl software.
3.4 SmartDesktop Guide

1 SmartDesktop

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

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.
2. Click Advanced system settings (For Vista & Win7, Win8 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.

Win 8:

Windows 8 is to right click on the lower left hand corner then select System > Advanced System Settings (Left side bar) > Performance section - Settings > Show Windows contents while dragging.

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.

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

1. 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.

2. 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.

3. Identify Partition – Displays the outline grid on the desktop for the current partition.


5. 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.

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.
3. Image Optimization

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.
### Image Optimization

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Desktop</td>
<td>Applies all settings to the entire desktop.</td>
<td><img src="image1.png" alt="Full Desktop" /></td>
</tr>
<tr>
<td>Vertical</td>
<td>Assesses the screen resolution and divides the display into two evenly sized vertical regions. For 90/270 maintain vertical configuration.</td>
<td><img src="image2.png" alt="Vertical" /></td>
</tr>
<tr>
<td>Horizontal</td>
<td>Assesses the screen resolution and divides the display into two evenly sized horizontal regions. For 90/270 maintain horizontal configuration.</td>
<td><img src="image3.png" alt="Horizontal" /></td>
</tr>
<tr>
<td>Vertical Triple</td>
<td>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.</td>
<td><img src="image4.png" alt="Vertical Triple" /></td>
</tr>
<tr>
<td>Vertical Split Left</td>
<td>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&amp;3 on bottom For 270 Partition 1 on bottom Partition 2&amp;3 on top.</td>
<td><img src="image5.png" alt="Vertical Split Left" /></td>
</tr>
<tr>
<td>Vertical Split Right</td>
<td>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&amp;2 on top Partition 3 on bottom For 270 Partition 3 on top Partition 1&amp;2 on bottom.</td>
<td><img src="image6.png" alt="Vertical Split Right" /></td>
</tr>
</tbody>
</table>
### 3. Image Optimization

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal Split Top</td>
<td>Assesses the screen resolution and divides the display into two evenly sized horizontal regions, the top region is single, the bottom region is split into two evenly sized regions. For 90 Partition 1 on right side Vertical, Partition 2 &amp; 3 on left side Vertical. For 270 Partition 1 on left side Vertical, Partition 2 &amp; 3 on right side Vertical.</td>
<td><img src="image1" alt="Image" /></td>
</tr>
<tr>
<td>Horizontal Split Bottom</td>
<td>Assesses the screen resolution and divides the display into two evenly sized horizontal regions, the bottom region is single, the top region is split into two evenly sized regions. For 90 Partition 1 &amp; 2 on right side Vertical, Partition 3 on left side Vertical. For 270 Partition 1 &amp; 2 on left side Vertical, Partition 3 on right side Vertical.</td>
<td><img src="image2" alt="Image" /></td>
</tr>
<tr>
<td>Even Split</td>
<td>Assesses the screen resolution and divides the display into four evenly sized regions.</td>
<td><img src="image3" alt="Image" /></td>
</tr>
</tbody>
</table>
## 4. Technical Specifications

### Picture/Display

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monitor Panel Type</td>
<td>AH-IPS</td>
</tr>
<tr>
<td>Backlight</td>
<td>LED</td>
</tr>
<tr>
<td>Panel Size</td>
<td>34”W (86.7 cm)</td>
</tr>
<tr>
<td>Aspect Ratio</td>
<td>21:9</td>
</tr>
<tr>
<td>Pixel Pitch</td>
<td>0.232 x 0.232 mm</td>
</tr>
<tr>
<td>Brightness</td>
<td>320 cd/m²</td>
</tr>
<tr>
<td>SmartContrast</td>
<td>40,000,000:1</td>
</tr>
<tr>
<td>Contrast Ratio (typ.)</td>
<td>1000:1</td>
</tr>
<tr>
<td>Response Time</td>
<td>14ms (GtG)</td>
</tr>
<tr>
<td>SmartResponse</td>
<td>5ms (GtG)</td>
</tr>
<tr>
<td>Optimum Resolution</td>
<td>VGA: 2560x1080 @ 60Hz</td>
</tr>
<tr>
<td></td>
<td>DVI/HDMI: 3440x1440 @ 30Hz,</td>
</tr>
<tr>
<td></td>
<td>2560x1080 @ 60Hz</td>
</tr>
<tr>
<td></td>
<td>DisplayPort: 3440x1440 @ 30Hz,</td>
</tr>
<tr>
<td></td>
<td>3440x1440 @ 60Hz</td>
</tr>
<tr>
<td>Viewing Angle</td>
<td>178° (H) / 178° (V) @ C/R &gt; 10</td>
</tr>
<tr>
<td>Picture Enhancement</td>
<td>SmartImage</td>
</tr>
<tr>
<td>Display Colors</td>
<td>1.07G (10 bits)</td>
</tr>
<tr>
<td>Vertical Refresh Rate</td>
<td>56-80Hz (VGA)</td>
</tr>
<tr>
<td></td>
<td>23-80Hz (DVI/HDMI/DisplayPort)</td>
</tr>
<tr>
<td>Horizontal Frequency</td>
<td>30-99KHz (VGA/DVI/HDMI)</td>
</tr>
<tr>
<td></td>
<td>30-160KHz (DisplayPort)</td>
</tr>
<tr>
<td>sRGB</td>
<td>YES</td>
</tr>
<tr>
<td>Brightness uniformity</td>
<td>&gt;95%</td>
</tr>
<tr>
<td>Delta E</td>
<td>&lt;3</td>
</tr>
</tbody>
</table>

### Connectivity

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal Input</td>
<td>DVI-Dual Link(Digital), VGA (Analog), DisplayPort, MHL-HDMI</td>
</tr>
<tr>
<td>USB</td>
<td>USB 3.0 x 2 / USB 2.0 x 2 / USB fast charger</td>
</tr>
<tr>
<td>Input Signal</td>
<td>Separate Sync, Sync on Green</td>
</tr>
<tr>
<td>Audio In/Out</td>
<td>PC audio-in, headphone out</td>
</tr>
</tbody>
</table>

### Convenience

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Built-in speaker</td>
<td>3 W x 2</td>
</tr>
<tr>
<td>Multi View</td>
<td>PiP/PbP mode, 2 x devices</td>
</tr>
<tr>
<td>User Convenience</td>
<td>47/4 / MULT VIEW / 7 / USER / 1 / C/OK / O / 0 / 1</td>
</tr>
<tr>
<td>OSD Languages</td>
<td>English, German, Spanish, Greek, French, Italian, Hungarian, Dutch, Portuguese, Brazil Portuguese, Polish, Russian, Swedish, Finnish, Turkish, Czech, Ukrainian, Simplified Chinese, Traditional Chinese, Japanese, Korean</td>
</tr>
<tr>
<td>Other Convenience</td>
<td>VESA mount(100x100mm), Kensington Lock</td>
</tr>
<tr>
<td>Plug &amp; Play Compatibility</td>
<td>DDC/CI, sRGB, Windows 7/Vista/XP, Mac OSX, Linux, Windows 8.1</td>
</tr>
</tbody>
</table>

### Stand

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tilt</td>
<td>-5 / +20 degree</td>
</tr>
</tbody>
</table>
### Picture/Display

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swivel</td>
<td>-170 / +170 degree</td>
</tr>
<tr>
<td>Height adjustment</td>
<td>180mm</td>
</tr>
<tr>
<td>Pivot</td>
<td>90 degree</td>
</tr>
</tbody>
</table>

### Power

<table>
<thead>
<tr>
<th>Mode</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>On Mode</td>
<td>65.6W (typ.), 102W (max.)</td>
</tr>
<tr>
<td>Sleep (Standby)</td>
<td>&lt;0.4W</td>
</tr>
<tr>
<td>Off</td>
<td>&lt;0.3W</td>
</tr>
<tr>
<td>Off (AC switch)</td>
<td>0W</td>
</tr>
<tr>
<td>On Mode (ECO mode)</td>
<td>40.8W (typ.)</td>
</tr>
</tbody>
</table>

### Power (EnergyStar test method)

<table>
<thead>
<tr>
<th>Energy Consumption</th>
<th>AC Input Voltage at 100VAC, 50Hz</th>
<th>AC Input Voltage at 115VAC, 60Hz</th>
<th>AC Input Voltage at 230VAC, 50Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal Operation</td>
<td>46.97W (typ.)</td>
<td>46.76W (typ.)</td>
<td>46.88W (typ.)</td>
</tr>
<tr>
<td>Sleep (Standby)</td>
<td>&lt;0.29W</td>
<td>&lt;0.29W</td>
<td>&lt;0.38W</td>
</tr>
<tr>
<td>Off</td>
<td>&lt;0.19W</td>
<td>&lt;0.21W</td>
<td>&lt;0.30W</td>
</tr>
<tr>
<td>Off (AC switch)</td>
<td>0W</td>
<td>0W</td>
<td>0W</td>
</tr>
<tr>
<td>Heat Dissipation*</td>
<td>AC Input Voltage at 100VAC, 50Hz</td>
<td>AC Input Voltage at 115VAC, 60Hz</td>
<td>AC Input Voltage at 230VAC, 50Hz</td>
</tr>
<tr>
<td>Normal Operation</td>
<td>160.31 BTU/hr (typ.)</td>
<td>159.59 BTU/hr (typ.)</td>
<td>160.00 BTU/hr (typ.)</td>
</tr>
<tr>
<td>Sleep (Standby)</td>
<td>&lt;0.99 BTU/hr</td>
<td>&lt;0.99 BTU/hr</td>
<td>&lt;1.30 BTU/hr</td>
</tr>
<tr>
<td>Off</td>
<td>&lt;0.65 BTU/hr</td>
<td>&lt;0.72 BTU/hr</td>
<td>&lt;1.02 BTU/hr</td>
</tr>
<tr>
<td>Off (AC switch)</td>
<td>0 BTU/hr</td>
<td>0 BTU/hr</td>
<td>0 BTU/hr</td>
</tr>
<tr>
<td>Power LED indicator</td>
<td>On mode: White, Standby/Sleep mode: White (blinking)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Supply</td>
<td>Built-in, 100-240V AC, 50-60Hz</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Dimensions

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product with stand (WxHxD)</td>
<td>828 x 627 x 270 mm</td>
</tr>
<tr>
<td>Product without stand (WxHxD)</td>
<td>828 x 378 x 62 mm</td>
</tr>
</tbody>
</table>

### Weight

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product with stand</td>
<td>9.46 kg</td>
</tr>
<tr>
<td>Product without stand</td>
<td>6.52 kg</td>
</tr>
<tr>
<td>Product with packaging</td>
<td>13.33 kg</td>
</tr>
</tbody>
</table>

### Operating Condition

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature range (operation)</td>
<td>0°C to 40 °C</td>
</tr>
<tr>
<td>Temperature range (Non-operation)</td>
<td>-20°C to 60°C</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>20% to 80%</td>
</tr>
<tr>
<td>MTBF</td>
<td>30,000hrs</td>
</tr>
</tbody>
</table>
## Environmental and energy

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROHS</td>
<td>YES</td>
</tr>
<tr>
<td>EPEAT</td>
<td>Gold (<a href="http://www.epeat.net">www.epeat.net</a>)</td>
</tr>
<tr>
<td>Packaging</td>
<td>100% recyclable</td>
</tr>
<tr>
<td>Specific Substances</td>
<td>100% PVC BFR free housing</td>
</tr>
<tr>
<td>EnergyStar</td>
<td>YES</td>
</tr>
</tbody>
</table>

## Compliance and standards

<table>
<thead>
<tr>
<th>Regulatory Approvals</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE Mark, FCC Class B, SEMKO, cETLus, CU-EAC, TCO Edge,</td>
</tr>
<tr>
<td>EPA, PSB, WEEE, CCC, CECP, PSE, KC, BSMI, VCCI</td>
</tr>
</tbody>
</table>

## Cabinet

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Finish</td>
<td>Texture</td>
</tr>
</tbody>
</table>

### Note

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

4.1 Resolution & Preset Modes

1 Maximum Resolution
   2560 x 1080 @ 60 Hz (analog input)
   3440 x 1440 @ 60 Hz (digital input)

2 Recommended Resolution
   3440 x 1440 @ 60 Hz (digital input)

<table>
<thead>
<tr>
<th>H. freq (kHz)</th>
<th>Resolution</th>
<th>V. freq (Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>31.47</td>
<td>720 x 400</td>
<td>70.09</td>
</tr>
<tr>
<td>31.47</td>
<td>640 x 480</td>
<td>59.94</td>
</tr>
<tr>
<td>35.00</td>
<td>640 x 480</td>
<td>66.67</td>
</tr>
<tr>
<td>37.86</td>
<td>640 x 480</td>
<td>72.81</td>
</tr>
<tr>
<td>37.50</td>
<td>640 x 480</td>
<td>75.00</td>
</tr>
<tr>
<td>37.88</td>
<td>800 x 600</td>
<td>60.32</td>
</tr>
<tr>
<td>46.88</td>
<td>800 x 600</td>
<td>75.00</td>
</tr>
<tr>
<td>48.36</td>
<td>1024 x 768</td>
<td>60.00</td>
</tr>
<tr>
<td>60.02</td>
<td>1024 x 768</td>
<td>75.03</td>
</tr>
<tr>
<td>44.77</td>
<td>1280 x 720</td>
<td>59.86</td>
</tr>
<tr>
<td>63.89</td>
<td>1280 x 1024</td>
<td>60.02</td>
</tr>
<tr>
<td>79.98</td>
<td>1280 x 1024</td>
<td>75.03</td>
</tr>
<tr>
<td>55.94</td>
<td>1440 x 900</td>
<td>59.89</td>
</tr>
<tr>
<td>70.64</td>
<td>1440 x 900</td>
<td>74.98</td>
</tr>
<tr>
<td>65.29</td>
<td>1680 x 1050</td>
<td>59.95</td>
</tr>
<tr>
<td>67.50</td>
<td>1920 x 1080</td>
<td>60.00</td>
</tr>
<tr>
<td>66.64</td>
<td>2560 x 1080</td>
<td>59.98</td>
</tr>
<tr>
<td>44.74</td>
<td>3440 x 1440</td>
<td>29.97</td>
</tr>
<tr>
<td>89.48</td>
<td>3440 x 1440</td>
<td>59.94</td>
</tr>
</tbody>
</table>

Note
Please notice that your display works best at native resolution of 3440 x 1440 @ 60Hz. For best display quality, please follow this resolution recommendation.
Recommended resolution
VGA: 2560x1080 @ 60Hz
DVI/HDMI: 3440x1440 @ 30Hz, 2560x1080 @ 60Hz
DisplayPort: 3440x1440 @ 30Hz, 3440x1440 @ 60Hz

The factory default setting DisplayPort v1.1 supports the resolution 3440x1440 @ 30 Hz. For optimized resolution 3440x1440 @ 60Hz, please enter to OSD menu and change the setting to DisplayPort v1.2, also please make sure your graphic card supports DisplayPort v1.2.
Setting path: [OSD] / [Setup] / [DisplayPort] / [1.1, 1.2]
5. 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:

<table>
<thead>
<tr>
<th>VESA Mode</th>
<th>Video</th>
<th>H-sync</th>
<th>V-sync</th>
<th>Power Used</th>
<th>LED Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active</td>
<td>ON</td>
<td>Yes</td>
<td>Yes</td>
<td>65.6W (typ.)</td>
<td>White</td>
</tr>
<tr>
<td>Sleep (Standby)</td>
<td>OFF</td>
<td>No</td>
<td>No</td>
<td>&lt;0.4W</td>
<td>White (blink)</td>
</tr>
<tr>
<td>Switch Off</td>
<td>OFF</td>
<td>-</td>
<td>-</td>
<td>&lt;0.3W</td>
<td>OFF</td>
</tr>
</tbody>
</table>

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

- Native resolution: 3440 x 1440
- Contrast: 50%
- Brightness: 320 nits
- Color temperature: 6500k with full white pattern

>Note
This data is subject to change without notice.
6. Regulatory Information

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.
6. 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

- EN61000-3-3:2008 (Limitation of Voltage Fluctuation and Flicker) following provisions of directives applicable.
- 2006/95/EC (Low Voltage Directive).

And is produced by a manufacturing organization on ISO9000 level.

6. Regulatory Information

Energy Star Declaration
(www.energystargov)

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

⚠️ Note
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)

⚠️ Cet équipement a été testé et déclaré conforme aux limites des appareils numériques de class B,aux termes de l'article 15 Des règles de la FCC. Ces limites sont conçues de façon à fournir 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.
6. Regulatory Information

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'intéresser 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 if devices as described in EN 55022. Unless it is specifically stated that it is of Class A devices on the specification label. The following applies to devices in Class A of EN 55022 ( emission limits up to 30 MHz). This user of this device is obliged to take all steps necessary to remove sources of interference to telecommunication or other devices.

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 zainstalowane zgodnie z przepisami obowiązującymi w edycji zaktualizowanej. W przypadku niezgodności przepisów z aktami prawo, urządzenie musi być zaktualizowane.

Instalacja zakończenia powinna być zewnętrzna w przewodzie głównym uzdatnionym elektrodą ochronną, w przyjściu bezpiecznikiu w oznaczeniu zanieczyszczeń na większą niż 16 amper (A).

W celu zakończenia elektrod ochronnych, należy zainstalować bezpiecznik w oznaczeniu zanieczyszczeń na większą niż 16 amper (A).

Znak bezpieczeństwa "B" powinien być umieszczony na urządzeniu z wymaganiami bezpieczeństwa zgodnymi z PN-93/T-42107 i PN-89/E-06251.

Pozostałe instrukcje bezpieczeństwa

- Niż napięcie zasilające urządzenia, które są podłączone do sieci zasilającej z osiągnięciem ochrony, z urządzeń komputerowych;
- System komputerowy należy zabezpieczyć przed zagrożeniami, uwzględniając w przekonie i podłączeniu do sieci zasilającej urządzenia ochrony;
- Należy z卧zyć uwagę, aby nie uszkodzić kabli systemu komputerowego, oznaczonego z użyciem kabli suewających lub podłączenie kabli niezabezpieczonych do sieci zasilającej;
- Nie należy stosować napinaczy ani innych płytek na system komputerowy;
- Nie należy wprowadzać złących podłączania do obwodów systemu komputerowego, w tym w-systemie komputerowem, jeżeli nie jest odpowiedzią na system komputerowy;
- System komputerowy powinien zawierać się na dalszych instalacjach ze wtyczkami sieci komputerowych;
- Należy z卧zyć uwagę, aby nie uszkodzić kabli systemu komputerowego, podłączonych do kabli zasilających w oznaczeniu zanieczyszczeń;
- System komputerowy powinien zawierać się na dalszych instalacjach zasilających systemu komputerowego;
- System komputerowy powinien zawierać się na dalszych instalacjach zasilających systemu komputerowego.
North Europe (Nordic Countries) Information

**Placering/Ventilation**
**WARNING:**
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 VOIDAA TARVITTAESSA HELPOSTI IRROTTAA PISTORASIISTA.

**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

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**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 AUFLERSETZEN DIESES GERÄTES DARAU ACHTEN, DAß NETZSTECKER UND NETZKABELANSCHLUß LEICH T ZUGÄNGLICH SIND.**
6. Regulatory Information

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.

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.

中国电子信息产品污染控制标识要求（中国RoHS法规标示要求）产品中有毒有害物质或元素的名称及含量

<table>
<thead>
<tr>
<th>部件名称</th>
<th>有害有害物质或元素 (Pb)</th>
<th>(Hg)</th>
<th>(Cd)</th>
<th>(Cr6+)</th>
<th>(PBB)</th>
<th>(PBDE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>外壳</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>液晶显示屏/灯管</td>
<td>X</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>电路板组件*</td>
<td>X</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>电源适配线</td>
<td>X</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>电源线/连接线</td>
<td>X</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

*：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。
Ο：表示该有害物质在该部件所有均质材料中的含量均在《电子信息产品中有害物质的限量要求标准》规定的限量要求以下。
X：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《电子信息产品中有害物质的限量要求标准》规定的限量要求;但是上表中打“x”的部件，符合欧盟RoHS法规要求（属于豁免的部分）。

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

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：

<table>
<thead>
<tr>
<th>能效等级</th>
<th>GB 21520-2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 1.05</td>
<td></td>
</tr>
<tr>
<td>1级</td>
<td></td>
</tr>
</tbody>
</table>

《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。

此装置是、クラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

<table>
<thead>
<tr>
<th>粗分類</th>
<th>化学物質表</th>
</tr>
</thead>
<tbody>
<tr>
<td>前面ベゼル</td>
<td>Pb 0 Hg 0 Cd 0 Cr6+ 0 PBBs 0 PBDEs 0</td>
</tr>
<tr>
<td>芯面カバー</td>
<td>Pb 0 Hg 0 Cd 0 Cr6+ 0 PBBs 0 PBDEs 0</td>
</tr>
<tr>
<td>スタンド</td>
<td>Pb 0 Hg 0 Cd 0 Cr6+ 0 PBBs 0 PBDEs 0</td>
</tr>
<tr>
<td>LCDパネル</td>
<td>WLED 適用除外の Pb 0 Hg 0 Cd 0 Cr6+ 0 PBBs 0 PBDEs 0</td>
</tr>
<tr>
<td>CCFL</td>
<td>適用除外の Pb 0 Hg 0 Cd 0 Cr6+ 0 PBBs 0 PBDEs 0</td>
</tr>
<tr>
<td>PCBA</td>
<td>適用除外の Pb 0 Hg 0 Cd 0 Cr6+ 0 PBBs 0 PBDEs 0</td>
</tr>
<tr>
<td>ケーブル&amp;ワイヤ</td>
<td>適用除外の Pb 0 Hg 0 Cd 0 Cr6+ 0 PBBs 0 PBDEs 0</td>
</tr>
<tr>
<td>リモコン</td>
<td>適用除外の Pb 0 Hg 0 Cd 0 Cr6+ 0 PBBs 0 PBDEs 0</td>
</tr>
</tbody>
</table>

*: PCBAはベア印刷回路基板、で構成され、はんだ付けおよび抵抗器、コンデンサ、アレー、コネクタ、チップなど、その表面実装エレメントで構成されます。

注1: 「O」は、計算される物質の含有率が参照含有率を超えていないことを示します。
注2: 「適用除外」項目は、特定の化学物質がJIS C 0950の規格により適用除外とされた項目に対応することを意味します。
7. Customer care and warranty

7.1 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).
Note
A red or blue bright dot must be more than 50 percent brighter than neighboring dots while a green bright dot is 30 percent brighter than neighboring dots.

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

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

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

<table>
<thead>
<tr>
<th>BRIGHT DOT DEFECTS</th>
<th>ACCEPTABLE LEVEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 lit subpixel</td>
<td>3</td>
</tr>
<tr>
<td>2 adjacent lit subpixels</td>
<td>1</td>
</tr>
<tr>
<td>3 adjacent lit subpixels (one white pixel)</td>
<td>0</td>
</tr>
<tr>
<td>Distance between two bright dot defects*</td>
<td>&gt;15mm</td>
</tr>
<tr>
<td>Total bright dot defects of all types</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BLACK DOT DEFECTS</th>
<th>ACCEPTABLE LEVEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 dark subpixel</td>
<td>5 or fewer</td>
</tr>
<tr>
<td>2 adjacent dark subpixels</td>
<td>2 or fewer</td>
</tr>
<tr>
<td>3 adjacent dark subpixels</td>
<td>0</td>
</tr>
<tr>
<td>Distance between two black dot defects*</td>
<td>&gt;15mm</td>
</tr>
<tr>
<td>Total black dot defects of all types</td>
<td>5 or fewer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TOTAL DOT DEFECTS</th>
<th>ACCEPTABLE LEVEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total bright or black dot defects of all types</td>
<td>5 or fewer</td>
</tr>
</tbody>
</table>

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.
7. Customer care and warranty

7.2 Customer Care & Warranty

For warranty coverage information and additional support requirement valid for your region, please visit [www.philips.com/support](http://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:

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

<table>
<thead>
<tr>
<th>Country</th>
<th>Call center</th>
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<tbody>
<tr>
<td>China</td>
<td>PCCW Limited</td>
<td>4008 800 008</td>
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Contact Information for NORTH AMERICA:

<table>
<thead>
<tr>
<th>Country</th>
<th>Call center</th>
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<tbody>
<tr>
<td>U.S.A.</td>
<td>EPI-e-center</td>
<td>(877) 835-1838</td>
</tr>
<tr>
<td>Canada</td>
<td>EPI-e-center</td>
<td>(800)479-6696</td>
</tr>
</tbody>
</table>
### 7. Customer care and warranty

#### Contact Information for CENTRAL AND EASTERN EUROPE region:

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

<table>
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<tr>
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<th>Call center</th>
<th>Consumer care number</th>
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<tbody>
<tr>
<td>Brazil</td>
<td>Vermont</td>
<td>0800-7254101</td>
</tr>
<tr>
<td>Argentina</td>
<td></td>
<td>0800 3330 856</td>
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</table>
## Contact Information for APMEA region:

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<tr>
<th>Country</th>
<th>ASP</th>
<th>Consumer care number</th>
<th>Opening hours</th>
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<tbody>
<tr>
<td>Australia</td>
<td>AGOS NETWORK PTY LTD</td>
<td>1300 360 386</td>
<td>Mon.~Fri. 9:00am-5:30pm</td>
</tr>
<tr>
<td>New Zealand</td>
<td>Visual Group Ltd.</td>
<td>0800 657447</td>
<td>Mon.~Fri. 8:30am-5:30pm</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>Company: Smart Pixels Technology Ltd.</td>
<td>Hong Kong: Tel: +852 2619 9639</td>
<td>Mon.~Fri. 9:00am-6:00pm Sat. 9:00am-1:00pm</td>
</tr>
<tr>
<td>Macau</td>
<td></td>
<td>Macau: Tel: (853)-0800-987</td>
<td></td>
</tr>
<tr>
<td>India</td>
<td>REDINGTON INDIA LTD</td>
<td>Tel: 1 800 425 6396 SMS: PHILIPS to 56677</td>
<td>Mon.~Fri. 9:00am-5:30pm</td>
</tr>
<tr>
<td>Indonesia</td>
<td>PT. CORMIC SERVISINDO PERKASA</td>
<td>+62-21-4080-9086 (Customer Hotline)</td>
<td>Mon.~Thu. 08:30-12:00; 13:00-17:30 Fri. 08:30-11:30; 13:00-17:30</td>
</tr>
<tr>
<td></td>
<td></td>
<td>+62-8888-01-9086 (Customer Hotline)</td>
<td></td>
</tr>
<tr>
<td>Korea</td>
<td>Alphascan Displays, Inc</td>
<td>1661-5003</td>
<td>Mon.~Fri. 9:00am-5:30pm Sat. 9:00am-1:00pm</td>
</tr>
<tr>
<td>Malaysia</td>
<td>R-Logic Sdn Bhd</td>
<td>+603 5102 3336</td>
<td>Mon.~Fri. 8:15am-5:00pm Sat. 8:30am-12:30am</td>
</tr>
<tr>
<td>Pakistan</td>
<td>TVONICS Pakistan</td>
<td>+92-213-6030100</td>
<td>Sun.~Thu. 10:00am-6:00pm</td>
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<tr>
<td>Singapore</td>
<td>Philips Electronics Singapore Pte Ltd (Philips Consumer Care Center)</td>
<td>(65) 6882 3966</td>
<td>Mon.~Fri. 9:00am-6:00pm Sat. 9:00am-1:00pm</td>
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<tr>
<td>Taiwan</td>
<td>FETEC.CO</td>
<td>0800-231-099</td>
<td>Mon.~Fri. 09:00 - 18:00</td>
</tr>
<tr>
<td>Thailand</td>
<td>Axis Computer System Co., Ltd.</td>
<td>(662) 934-5498</td>
<td>Mon.<del>Fri. 8:30am</del>05:30pm</td>
</tr>
<tr>
<td>South Africa</td>
<td>Computer Repair Technologies</td>
<td>011 262 3586</td>
<td>Mon.<del>Fri. 8:00am</del>05:00pm</td>
</tr>
<tr>
<td>Israel</td>
<td>Eastronics LTD</td>
<td>1-800-567000</td>
<td>Sun.~Thu. 08:00-18:00</td>
</tr>
<tr>
<td>Vietnam</td>
<td>FPT Service Informatic Company Ltd. - Ho Chi Minh City Branch</td>
<td>+84 8 38248007 Ho Chi Minh City  +84 5113.562666 Danang City +84 5113.562666 Can tho Province</td>
<td>Mon.~Fri. 8:00-12:00, 13:30-17:30, Sat. 8:00-12:00</td>
</tr>
<tr>
<td>Philippines</td>
<td>EA Global Supply Chain Solutions, Inc.</td>
<td>(02) 655-7777; 6359456</td>
<td>Mon.<del>Fri. 8:30am</del>5:30pm</td>
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<tr>
<td>Armenia</td>
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<tr>
<td>Uzbekistan</td>
<td>Soniko Plus Private Enterprise Ltd</td>
<td>+99871 2784650</td>
<td>Mon.~Fri. 09:00 - 18:00</td>
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<tr>
<td>Turkmenistan</td>
<td>Technostar Service Centre</td>
<td>+(99312) 460733, 460957</td>
<td>Mon.~Fri. 09:00 - 18:00</td>
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<td>Japan</td>
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<td>0120-060-530</td>
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<td></td>
<td>0120-060-530</td>
<td>Mon.~Fri. 10:00 - 17:00</td>
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Note: Opening hours are in local time.
8. Troubleshooting & FAQs

8.1 Troubleshooting

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

1 Common Problems

No Picture (Power LED not lit)
- Make sure the power cord is plugged into the power outlet and into the back of the 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

![Attention Check cable connection](image)

- 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

![Vertical Flicker](image)

- 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

![Horizontal Flicker](image)

- Adjust the image using the “Auto” function in OSD Main Controls.
8. Troubleshooting & FAQs

- 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 LCD panel technology. In most cases, the "burned in" or "after-imaging" or "ghost imaging" will disappear gradually over a period of time after the power has been switched off.
- Always activate a moving screen saver program when you leave your monitor unattended.
- Always activate a periodic screen refresh application if your LCD monitor will display unchanging static content.
- Failure to activate a screen saver, or a periodic screen refresh application may result in severe "burn-in" or "after-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.

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

### 8.2 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 re-installed.
- 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.
8. Troubleshooting & FAQs

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/CI 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.

Attention

Thief Deterrence is Enabled

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.

8.3 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 this monitor: 3440 x 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 3440 x 1440 pixels.
- Open ‘Advanced Properties’ and set the Refresh Rate to 60 Hz, then click OK.
- Restart your computer and repeat step 2 and 3 to verify that your PC is set at 3440 x 1440 @ 60 Hz.
- Shut down your computer, disconnect your old monitor and reconnect your Philips LCD monitor.
- Turn on your monitor and then turn on your PC.

Q2: What is the recommended refresh rate for LCD monitor?

Ans.: Recommended refresh rate in LCD 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 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.
  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, blue-white 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.

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

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

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

**Ans.:** Yes, the monitors are Plug-and-Play compatible with Windows 8.1/7/Vista/XP/NT, Mac OSX, Linux.

**Q11:** What is Image Sticking, or Image Burn-in, or After Image, or Ghost Image in LCD panels?

**Ans.:** Uninterrupted display of still or static images over an extended period may cause "burn in", also known as "after-imaging" or "ghost imaging", on
your screen. "Burn-in", "after-imaging", or "ghost imaging" is a well-known phenomenon in LCD panel technology. In most cases, the "burned in" or "after-imaging" or "ghost imaging" will disappear gradually over a period of time after the power has been switched off.
Always activate a moving screen saver program when you leave your monitor unattended.
Always activate a periodic screen refresh application if your LCD monitor will display unchanging static content.

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

Q12: Why is my Display not showing sharp text, and is displaying jagged characters?
Ans.: Your LCD monitor works best at its native resolution of 3440 x 1440 @ 60 Hz. For best display, please use this resolution.

Q13: How to unlock/lock my hot key?
Ans.: Please press  for 10 seconds to unlock/lock the hot key, by doing so, your monitor pops out “Attention” to show the unlock/lock status as shown below illustrators.

8.4 Multiview FAQs

Q1: Why I cannot activate PiP or PbP when the sources are DVI and HDMI?
Ans.: Please refer to below table for the main source and its supporting sub source.

<table>
<thead>
<tr>
<th>MultiView</th>
<th>SUB SOURCE POSSIBILITY (xl)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inputs</td>
<td>VGA</td>
</tr>
<tr>
<td>MAIN SOURCE (xl)</td>
<td>(\bullet)</td>
</tr>
</tbody>
</table>

Q2: Can I enlarge the PiP sub window?
Ans.: Yes, there are 3 sizes to select: [Small], [Middle], [Large]. You can press \(\equiv\) 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 \(\equiv\) 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.