

Philips Brilliance IPS LCD monitor, LED backlight with Webcam

P-line

23" / 58.4cm Full HD display

Brilliance

231P4QPYKEB



# Sustainable eco design display

with Webcam saves time and money

The Philips IPS LED display with Webcam helps you collaborate and communicate, saving you time and money.

## Sustainable Eco-design

- PowerSensor saves up to 80% energy costs
- Zero power consumption with 0 watt hard switch
- $\bullet$  65% post consumer recycled plastics with TCO Edge
- PVC-BFR free housing

## **Brilliant performance**

- IPS LED wide view technology for image and color accuracy
- Webcam to connect and collaborate
- Built-in microphone for audio conferencing
- · DisplayPort offers audio and video over a single, long cable
- Built-in stereo speakers for multimedia
- USB Hub with 3 ports for easy connections

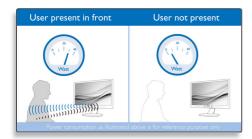
## **Designed for people**

- SmartErgoBase enables people-friendly ergonomic adjustments
- Low bezel-to-table height for maximum reading comfort



## Highlights

#### **PowerSensor**



PowerSensor is a built-in 'people sensor' that transmits and receives harmless infrared signals to determine if user is present and automatically reduces monitor brightness when user steps away from the desk, cutting energy costs by up to 80 percent and prolonging monitor life

## **IPS** technology



IPS displays uses an advanced technology which gives you extra wide viewing angles of 178/178 degree, making it possible to view the display from almost any angle - even in 90 degree Pivot mode! Unlike standard TN panels, IPS displays gives you remarkably crisp images with vivid colors, making it ideal not only for Photos, movies and web browsing, but also for professional applications which demand color accuracy and consistent brightness at all times.

## Webcam

Embedded webcam and microphone enables you to view and communicate with your colleagues and clients. This simple solution allows you to collaborate and share, saving precious time and travel related costs.

### **DisplayPort**

DisplayPort is a digital link from PC to Monitor without any conversion. With higher capabilities than DVI standard, it is fully capable to support up to 15meter cables and 10.8 Gbps/sec data transfer. With this high performance and zero latency, you get the fastest imaging and refresh rates - making DisplayPort the best choice for not only general office or home use, but also for the demanding gaming and movies, video editing and more. It also keeps interoperability in mind via use of various adapters.

## **SmartErgoBase**

The SmartErgoBase is a monitor base that delivers ergonomic display comfort and provides cable management. The base's people-friendly height, swivel, tilt and rotation angle adjustments position the monitor for maximum comfort that can ease the physical strains of a long workday; cable management reduces cable clutter and keeps the workspace neat and professional.

#### 3 Ports USB 2.0 HUB

USB Hub allows user to conveniently connect their plug and play multimedia devices such as USB memory devices, camera, portable HDD, Web camera, PDA, Printer and many other devices which has USB connection available. The conveniently located USB 2.0 Hub on the monitor allows USB 2.0 signals to pass thru to the computer. Note that many devices like cameras and HDD may need to be powered On independently, as they have higher power requirements than the monitor USB Hub can provide.

## **Built-in stereo speakers**

A pair of high quality stereo speakers built into a display device. It can be visible front firing, or invisible down firing, top firing, rear firing, etc depending on model and design.

## Low bezel-to-table height



The Philips monitor, thanks to its advanced SmartErgoBase, can be lowered down almost to desk level for a comfortable viewing angle. Low bezel-to-table height is the perfect solution if you use bifocals, trifocals or progressive lens glasses for your computing work. Additionally, it allows for users with greatly different heights to use the monitor in their preferred angle and height settings, helping them reduce fatigue and strain.

## **TCO Edge**

TCO Edge certification is given to products which go beyond existing eco-labeling programs. Over and above standard TCO requirements, it further mandates that the product uses minimum 65% of post consumer recycled plastics, is energy efficient, uses minimal hazardous materials, has 100% recyclable packaging, and is designed for easy recycling amongst other requirements. You can rest assured that this Philips monitor is a cutting edge technology product which is best in class ICT, benefitting you and the planet while helping you make a responsible green IT purchase!

### **PVC-BFR** free housing

This Philips monitor housing is free from brominated flame retardant and polyvinyl chloride (PVC-BFR free)

## Zero power consumption

At the flick of the 0 watt hard switch which is conveniently located at the back, you can completely cut-off your monitor from AC power. This results in zero power consumption reducing your carbon footprint even further



















## **Specifications**

#### Picture/Display

- LCD panel type: IPS LCD
- · Backlight type: W-LED system
- Panel Size: 23 inch / 58.4 cm
- Effective viewing area: 509.18 (H) x 286.41 (V)
- Aspect ratio: 16:9
- Optimum resolution: 1920 x 1080 @ 60Hz
- SmartResponse (typical): 7 ms (Gray to Gray)
- Brightness: 250 cd/m<sup>2</sup>
- Contrast ratio (typical): 1000:1
- SmartContrast: 20,000,000 :1
- Pixel pitch: 0.265 x 0.265 mm
- Viewing angle: 178° (H) / 178° (V), @ C/R > 10
- · Picture enhancement: SmartImage
- Display colors: 16.7 M
- Scanning Frequency: 30 83 kHz (H) / 56 75 Hz
- sRGB

### **Connectivity**

- Signal Input: DisplayPort, DVI-D (digital, HDCP), VGA (Analog)
- USB: USB 2.0 x 3
- Sync Input: Separate Sync, Sync on Green
- Audio In/Out: PC audio-in, Microphone, Headphone out

## Convenience

- Built-in Speaker: 1.5Wx2
- Built-in webcam: 2.0 megapixel camera with microphone and LED monitor
- User convenience: SmartImage, Volume, PowerSensor, Menu, Power On/Off
- Control software: SmartControl Premium
- OSD Languages: English, French, German, Italian, Portuguese, Russian, Simplified Chinese, Spanish
- Other convenience: Kensington lock, VESA mount (100x100mm)
- Plug & Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 7/Vista/XP

### Stand

- · Height adjustment: 130 mm
- Pivot: 90 degree
- Swivel: -65/65 degree
- Tilt: -5/20 degree

#### **Power**

- ECO mode: 18 W (typ.)
- On mode: 29.1 W (EnergyStar 5.0 test method)
- Standby mode: 0.3 W
- Off mode: Zero watts with Zero switch
- Power LED indicator: Operation White, Standby mode- White (blinking)
- Power supply: 100-240VAC, 50-60Hz, Built-in

#### **Dimensions**

- Product with stand (mm):  $547 \times 515 \times 220 \text{ mm}$
- Product without stand (mm):  $547 \times 343 \times 60 \text{ mm}$
- Packaging in mm (WxHxD): 600 x 400 x 263 mm

#### Weight

- Product with stand (kg): 5.23 kg
- Product without stand (kg): 3.09 kg
- Product with packaging (kg): 7.70 kg

#### **Operating conditions**

- Temperature range (operation): 0°C to 40°C °C
- Temperature Range (storage): -20°C to 60°C °C
- Relative humidity: 20%-80 %
- MTBF: 30,000 hour(s)

### **Sustainability**

- Environmental and energy: PowerSensor, EnergyStar 5.0, EPEAT Gold\*, TCO edge, RoHS
- Recyclable packaging material: 100 %
- Post consumer recycled plastic: 65%
- Specific Substances: PVC / BFR free housing, Mercury free, Lead free

#### Compliance and standards

• Regulatory Approvals: BSMI, CE Mark, FCC Class B, GOST, SASO, SEMKO, TUV Ergo, TUV/GS, TCO 5.2, UL/cUL, WEEE

## **Cabinet**

- Front bezel: Black
- · Rear cover: Black
- Foot: Black
- Finish: Texture



Issue date 2013-04-02

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Version: 5.0.1

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