

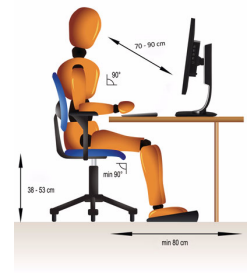


Philips Brilliance  
IPS LCD monitor, LED  
backlight with ErgoSensor

**P-line**  
23"/58.4 cm  
Full HD display

**Brilliance**

**231P4QRYES**



## World's first ErgoSensor display

for a healthy, productive workplace

The innovative Philips ErgoSensor monitor is the world's first intelligent display that can advise you how to sit in an ergonomically correct position at your computer screen

### ErgoSensor for ultimate ergonomics

- ErgoSensor for a healthier way of working
- Neck posture detection and corrective advice
- Optimal viewing distance measurement and advice
- Time-break reminder

### Brilliant performance

- IPS LED wide view technology for image and colour accuracy
- DisplayPort offers audio and video over a single, long cable

### Sustainable Eco-design

- Zero power consumption with 0 watt hard switch
- 65% post consumer recycled plastics with TCO Edge

### Designed for people

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

**PHILIPS**

# Highlights

## ErgoSensor

It is Philips firm belief that work should be suited to people, and not the other way around. To promote a healthier and productive workplace, Philips has developed the world's first innovative technology called "ErgoSensor", which is embedded in the monitor to sense and measure the user's behaviour. ErgoSensor advises users on how to sit in an ergonomic position at their computer with a corrective feedback on optimal viewing distance, ergonomic neck angle and a time break advice. It also saves up to 80% energy consumption if user is not present on the seat by powering off the monitor.

## IPS technology



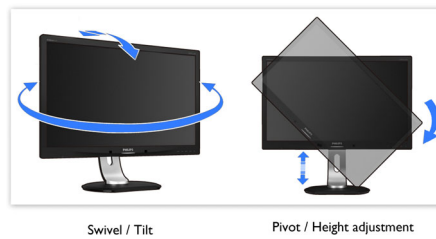
IPS displays use an advanced technology that gives you extra wide viewing angles of 178/178 degrees, making it possible to view the display from almost any angle—even in 90 degree Pivot mode! Unlike standard TN panels, IPS displays gives you remarkably crisp images with vivid colours, making it ideal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

## 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 15 metre 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 more demanding gaming and films, video editing and more. It also keeps interoperability in mind via the use of various adapters.

## SmartErgoBase



The SmartErgoBase is a monitor base that delivers ergonomic display comfort and provides cable management. The user-friendly height, swivel, tilt and rotation angle adjustments of the base allow the monitor to be positioned for maximum comfort to help ease the physical strains of a long workday. In addition, cable management reduces cable clutter and keeps the workspace neat and professional.

## Low bezel-to-table height



Thanks to its advanced SmartErgoBase, the Philips monitor 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 users of different heights to use the monitor at their preferred angle and height settings, helping them to reduce fatigue and strain.

## TCO Edge

TCO Edge certification is given to products that go beyond existing eco-labelling programmes. Over and above standard TCO requirements, it further mandates that the product uses a minimum of 65% post-consumer recycled plastics, is energy efficient, uses minimal hazardous materials, has 100% recyclable packaging and, amongst other requirements, is designed for easy recycling. 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!

## Zero power consumption

At the flick of the 0 watt hard switch, which is conveniently located at the back of the monitor, 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 @ 60 Hz
- Response time (typical): 14 ms
- SmartResponse (typical): 7 ms (Grey to Grey)
- 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 colours: 16.7 M
- Scanning Frequency: 30–83 kHz (H)/56–75 Hz (V)
- sRGB

## Connectivity

- Signal Input: DisplayPort, DVI-D (digital, HDCP), VGA (Analogue)
- USB: USB 2.0 x 4
- Sync Input: Separate Sync, Sync on Green
- Audio (In/Out): PC audio-in, Headphone out

## Convenience

- Built-in Speakers: 1.5 W x 2
- User convenience: SmartImage, Volume, Ergo, 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 (100 x 100 mm)
- Plug and Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 7/Vista/XP

## Stand

- Height adjustment: 130 mm
- Pivot: 90 degree, clockwise, auto pivot
- 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 (flashing)
- Power supply: 100-240 VAC, 50-60 Hz, Built-in

## Dimensions

- Product with stand (mm): 547 x 515 x 220 mm
- Product without stand (mm): 547 x 343 x 60 mm
- Packaging in mm (W x H x D): 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% %
- Altitude: Operation: +12,000 ft (3658 m), Non-operation: +40,000 ft (12,192 m)
- MTBF: 30,000 hour(s)

## Sustainability

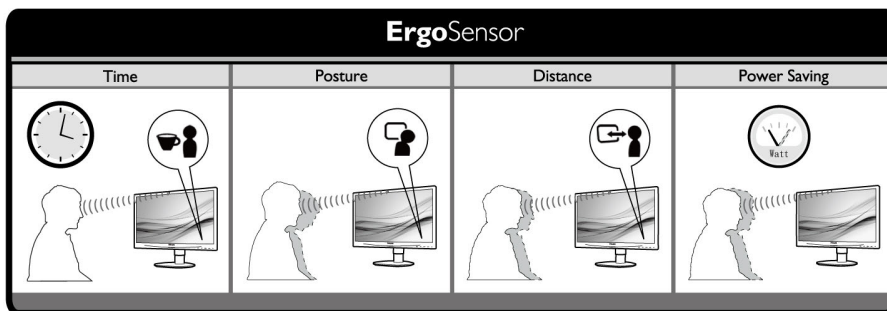
- Environmental and energy: ErgoSensor, EnergyStar 5.0, EPEAT Gold\*, TCO edge, RoHS
- Recyclable packaging material: 100 %
- Post-consumer recycled plastic: 65%
- Specific Substances: PVC/BFR free housing, Mercury free, Lead free

## Compliance and standards

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

## Cabinet

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



Issue date 2014-05-07

Version: 3.0.2

12 NC: 8670 000 89136  
EAN: 87 12581 64133 7

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