Philips Brilliance
IPS LCD monitor, LED backlight

P Line
23" (58.4 cm)
Full HD display

231P4QRYEB

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

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

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

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

Sustainable Eco-design
- Zero power consumption with 0 watt hard switch

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

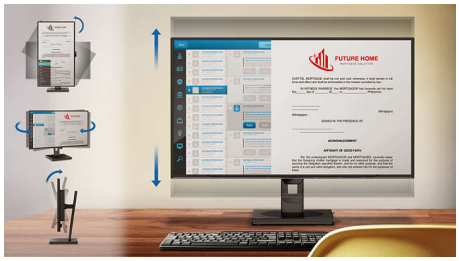
IPS TN

IPS displays use 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, films and web browsing, but also for professional applications that 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.

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

Viewing distance advice

Optimal viewing distance measurement and advice

Time-break reminder

Time-break reminder

Posture detection and corrective advice

The innovative Philips ErgoSensor monitor with intelligent posture detection sensor interactively advises you to sit in an ergonomically correct position at your computer screen.

ErgoSensor IPS SmartErgo Base Zero Power Switch SmartImage Zero Power Switch SmartErgo Base Built-in Speaker Wide Viewing Angle

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231P4QRYEB/00

Specifications

Connectivity
- Signal Input: DisplayPort x 1, 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

Picture/Display
- Panel Size: 23 inch/58.4 cm
- Aspect ratio: 16:9
- LCD panel type: IPS LCD
- Backlight type: W-LED system
- Pixel pitch: 0.265 x 0.265 mm
- Optimum resolution: 1920 x 1080 @ 60 Hz
- Brightness: 250 cd/m²
- Display colours: 16.7 M
- Contrast ratio (typical): 1000:1
- SmartContrast: 20,000,000:1
- Response time (typical): 14 ms
- Viewing angle: 178° (H)/178° (V), @ C/R > 10
- Picture enhancement: SmartImage
- Effective viewing area: 509.18 (H) x 286.41 (V)
- Scanning Frequency: 30–83 kHz (H)/56–75 Hz (V)
- sRGB
- SmartResponse (typical): 7 ms (Grey to Grey)

Convenience
- Built-in Speakers: 1.5 W x 2
- Plug and Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 7/Vista/XP
- User convenience: SmartImage, Volume, Ergo, Menu, Power On/Off
- OSD Languages: English, French, German, Italian, Portuguese, Russian, Simplified Chinese, Spanish
- Other convenience: Kensington lock, VESA mount (100 x 100 mm)
- Control software: SmartControl Premium

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

Dimensions
- Product with stand (mm): 547 x 515 x 220 mm
- Packaging in mm (W x H x D): 600 x 400 x 263 mm
- Product without stand (mm): 547 x 343 x 60 mm

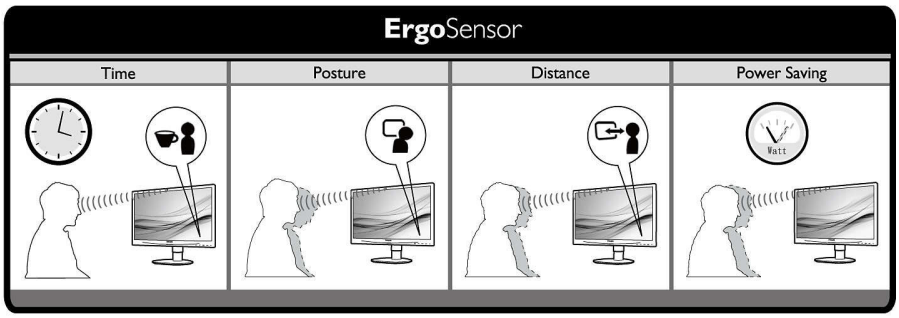
Weight
- Product with packaging (kg): 7.70 kg
- Product with stand (kg): 5.23 kg
- Product without stand (kg): 3.09 kg

Operating conditions
- Altitude: Operation: +12,000 ft (3658 m), Non-operation: +40,000 ft (12,192 m)
- Temperature range (operation): 0°C to 40°C °C
- MTBF: 30,000 hour(s)
- Relative humidity: 20%–80% %
- Temperature range (storage): -20°C to 60°C °C

Sustainability
- Environmental and energy: ErgoSensor, EnergyStar 5.0, TCO Certified Edge, RoHS
- Post-consumer recycled plastic: 65%
- Recyclable packaging material: 100 %
- Specific Substances: PVC/BFR free housing, Mercury free

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

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



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