



Philips Brilliance  
LCD monitor with  
SmartImage

**S Line**  
23" (58.4 cm) Full HD

**231S2CB**

## Big ergonomic display enhances productivity

With a large Full HD display and features like Ergo base, 0.1 watt Soft off mode, SmartImage and SmartControl, the energy efficient Philips 231S2 display enhances your productivity

### **Sustainable Eco-friendly solution**

- EPEAT Silver ensures lower impact on environment
- Energy Star for energy efficiency and low power consumption
- 0.1 watt Soft-Off mode
- SmartPower: Up to 50% power saving

### **Outstanding display performance**

- SmartImage: Optimized user-friendly display experience
- SmartContrast: For incredible rich black details

### **Ergonomic design**

- 70mm height adjustment for ideal sitting position
- Tilt and swivel adjustment for an ideal viewing angle

### **Great convenience**

- Dual input accepts both analog VGA and digital DVI signals
- Easy display performance tuning with SmartControl Premium
- Modern Touch controls

# PHILIPS

# Highlights

## SmartImage



SmartImage is an exclusive leading edge Philips technology that analyzes the content displayed on your screen and gives you optimized display performance. This user friendly interface allows you to select various modes like Office, Image, Entertainment, Economy etc., to fit the application in use. Based on the selection, SmartImage dynamically optimizes the contrast, color saturation and sharpness of images and videos for ultimate display performance. The Economy mode option offers you major power savings. All in real time with the press of a single button!

## SmartPower

SmartPower is an artificial intelligent technology which dynamically analyzes the content of the screen image to achieve power saving. The backlight intensity can be controlled automatically and pre-set by the system to reduce the power consumption by up to 50%, which saves substantially on energy costs

## Dual input



Dual input provides connectors to accommodate input of both analog VGA and digital DVI signals.

## EPEAT Silver

Philips EPEAT Silver certified monitors ensure protection for human health and environment,

and are highly energy efficient ensuring low emissions of climate changing green house gases. EPEAT program helps purchasers evaluate, compare and select Monitors based on 51 environmental criteria supported by US EPA. EPEAT Silver is valid only where Philips registers the product. Please visit [www.epeat.net](http://www.epeat.net) for registration status in your country.

## Energy Star 5.0

Energy Star is a US EPA sponsored energy efficiency program also adopted by many other countries. Energy Star certification ensures that you are buying a product which meets the latest power efficiency standards which operates with maximum power efficiency at all operational levels. New Philips monitors are certified for Energy Star 5.0 specifications and meet or exceed the standard. For example, in sleep mode Energy Star 5.0 requires less than 1watt power consumption, whereas Philips monitors consume less than 0.5watts. Further details can be obtained from [www.energystar.gov](http://www.energystar.gov)

## Screen tilt and swivel

Screen tilt and swivel is a mechanism built into the base permits the monitor to swivel and tilt backward or forward.

## 70mm height adjustment

The Compact Ergo Base is a 'people friendly' Philips monitor base that tilts, swivels and is height adjustable so each user can position the monitor for maximum viewing comfort and efficiency.

## Touch controls



Touch controls are intelligent, touch sensitive icons that replace protruding buttons that lets the user adjust the monitor to their

requirement. Responding to your lightest touch, Touch control gives the monitor a modern feel.

## SmartContrast



SmartContrast is a Philips technology that analyzes the contents you are displaying, automatically adjusting colors and controlling backlight intensity to dynamically enhance contrast for the best digital images and videos or when playing games where dark hues are displayed. When Economy mode is selected, contrast is adjusted and backlighting fine-tuned for just-right display of everyday office applications and lower power consumption.

## SmartControl Premium

SmartControl Lite is the next generation 3D icon based GUI monitor control software. This allows user to fine-tune a wide amount of parameters of the monitor like PowerSensor, Expanded ECO mode, Laptop support with dual monitor plug in, Multi-media, DisplayPort support, Color, Brightness, screen calibration, audio, etc with the mouse. it even gives out detailed ID description of the monitor for inventory management.

## 0.1 Watt Standby mode

0.1 watt Soft-Off mode



# Specifications

## Connectivity

- Signal Input: VGA (Analog), DVI-D (digital, HDCP)
- Sync Input: Separate Sync, Sync on Green

## Picture/Display

- Panel Size: 23 inch / 58.4 cm
- Aspect ratio: 16:9
- LCD panel type: TFT-LCD
- Pixel pitch: 0.265 x 0.265 mm
- Optimum resolution: 1920 x 1080 @ 60Hz
- Brightness: 300 cd/m<sup>2</sup>
- Display colors: 16.7 M
- Contrast ratio (typical): 1000:1
- SmartContrast: 500000:1
- Response time (typical): 5 ms
- Viewing angle: 176° (H) / 170° (V), @ C/R &gt; 5
- Picture enhancement: SmartImage
- Scanning Frequency: 30 -83 kHz (H) / 56 -75 Hz (V)
- sRGB

## Convenience

- Plug & Play Compatibility: DDC/CI, Mac OS X, Windows 7/Vista/XP, sRGB
- User convenience: SmartImage, Brightness, Power On/Off, SmartPower, Menu
- OSD Languages: English, French, German, Italian, Portuguese, Russian, Simplified Chinese, Spanish
- Other convenience: VESA mount (100x100mm), Kensington lock

## Stand

- Height adjustment: Up to 70 mm
- Swivel: -65 / 65 degree
- Tilt: -5 / 20 degree

## Power

- Power supply: Built-in, 100-240VAC, 50/60Hz

- Off mode: 0.1 W
- On mode: 28.62 W (EnergyStar 5.0 test method)
- Standby mode: 0.1 W
- Power LED indicator: Operation - White, Standby mode- White (blinking)

## Dimensions

- Product with stand (mm): 566 x 499 x 249 mm
- Packaging in mm (WxHxD): 615 x 478 x 171 mm
- Product without stand (mm): 566 x 360 x 50 mm

## Weight

- Product with packaging (kg): 6.40 kg
- Product with stand (kg): 4.57 kg
- Product without stand (kg): 4.19 kg

## Operating conditions

- Temperature range (operation): 0 to 40 °C
- MTBF: 50,000 hour(s)
- Relative humidity: 20%-80 %
- Temperature range (storage): -20 to 60 °C

## Sustainability

- Environmental and energy: RoHS, EPEAT Silver, EnergyStar 5.0
- Recyclable packaging material: 100 %

## Compliance and standards

- Regulatory Approvals: BSMI, GOST, CE Mark, FCC, Class B, SEMKO, TCO 5.0, TUV/GS, TUV Ergo, UL/cUL

## Cabinet

- Color: Black/Black
- Finish: Texture



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