

Philips  
LCD monitor

### B Line

23 (22.5"/57.2 cm diag.)  
1920 x 1200 (WUXGA)

230B8QJEB



## Clear image, efficient performance

for maximum productivity

Get your best work done with the Philips 23" monitor. The 16:10 ratio display gives you extra vertical height for increased productivity. Features like height adjustment, Flicker-free and LowBlue mode make work easy on the eyes.

#### Great performance

- IPS technology for full colours and wide viewing angles
- 16:10 aspect ratio for more vertical screen height
- SmartImage pre-sets for easy optimised image settings

#### Designed for comfortable productivity

- LowBlue Mode for easy-on-the-eyes productivity
- Less eye fatigue with Flicker-Free technology
- SmartErgoBase enables user-friendly ergonomic adjustments
- EasyRead mode for a paper-like reading experience

#### Features for the way you work

- Narrow-border display for a seamless appearance
- HDMI ensures universal digital connectivity
- Built-in stereo speakers for multimedia

#### Sustainable Eco-design

- 100% recyclable packaging

# PHILIPS

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# Highlights

## IPS technology



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.

## SmartImage



SmartImage is an exclusive leading edge Philips technology that analyses the content displayed on your screen and optimises your display performance. This user-friendly interface allows you to select various modes, like Office, Photo, Movie, Game, Economy etc., to fit the application in use. Based on the selection, SmartImage dynamically optimises the contrast, colour saturation and sharpness of images and videos for ultimate display performance. The Economy mode option offers you major power savings. All in real time at the touch of a single button!

## LowBlue Mode



Studies have shown that just as ultra-violet rays can cause eye damage, shortwave-length blue light rays from LED displays can cause eye damage and affect vision over time. Developed for wellbeing, the Philips LowBlue Mode setting uses a smart software technology to reduce harmful shortwave blue light.

## Flicker-Free technology



Due to the way brightness is controlled on LED-backlit screens, some users experience flicker on their screen which causes eye fatigue. Philips Flicker-Free technology applies a new solution to regulate brightness and reduce flicker for more comfortable viewing.

## 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.

## EasyRead mode



EasyRead mode for a paper-like reading experience

## Ultra-narrow Border



The new Philips displays feature ultra-narrow borders which allow for minimal distractions and maximum viewing size. Especially suited for multi-display or tiling setups like gaming, graphic design and professional applications, the ultra-narrow border display gives you the feeling of using one large display.

## HDMI Ready



An HDMI-ready device has all the required hardware to accept High-Definition Multimedia Interface (HDMI) input. An HDMI cable enables high-quality digital video and audio to be transmitted over a single cable from a PC or any number of AV sources (including set-top boxes, DVD players, A/V receivers and video cameras).



# Specifications

## Picture/Display

- LCD panel type: IPS technology
- Adaptive sync
- Backlight type: W-LED system
- Panel Size: 22.5 inch/57.2 cm
- Display Screen Coating: Anti-Glare, 3H, Haze 25%
- Effective viewing area: 488.16 (H) x 297.18 (V)
- Aspect ratio: 16:10
- Optimum resolution: 1920 x 1200 @ 60 Hz
- Pixel Density: 101 PPI
- Response time (typical): 5 ms (Grey to Grey)\*
- Brightness: 250 cd/m<sup>2</sup>
- Contrast ratio (typical): 1000:1
- SmartContrast: 50,000,000:1
- Pixel pitch: 0.25425 x 0.24765 mm
- Viewing angle: 178° (H)/178° (V), @ C/R > 10
- Flicker-free
- Picture enhancement: SmartImage
- Colour gamut (typical): NTSC 85%\*, sRGB 101.8%\*
- Display colours: 16.7 M
- Scanning Frequency: 30-96 kHz (H)/48-76 Hz (V)
- sRGB
- EasyRead
- LowBlue Mode

## Connectivity

- Signal Input: VGA (Analogue), DVI-D (digital, HDCP), HDMI 1.4, DisplayPort 1.2
- Sync Input: Separate Sync, Sync on Green
- Audio (In/Out): PC audio-in, Headphone out

## Convenience

- Built-in Speakers: 2 W x 2
- User convenience: SmartImage, Input, Brightness, Menu, Power On/Off
- Control software: SmartControl
- OSD Languages: Brazil Portuguese, Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, Turkish, Ukrainian
- Other convenience: Kensington lock, VESA mount (100 x 100 mm)
- Plug and Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 10 / 8.1 / 8 / 7

## Stand

- Height adjustment: 130 mm
- Pivot: +/- 90 degree
- Swivel: -175~175 degree
- Tilt: -5~30 degree

## Power

- ECO mode: 8.5 W (typ.)
- Energy Label Class: E
- On mode: 13.6 W (typ.) (EnergyStar 8.0 test method)
- Standby mode: < 0.3 W (typ.)
- Off mode: Zero watts with Zero switch
- Power LED indicator: Operation - White, Standby mode - White (flashing)
- Power supply: Built-in, 100–240 VAC, 50–60 Hz

## Dimensions

- Product with stand (max height): 499 x 512 x 216 mm
- Product without stand (mm): 499 x 323 x 56 mm
- Packaging in mm (W x H x D): 565 x 519 x 161 mm

## Weight

- Product with stand (kg): 4.30 kg
- Product without stand (kg): 2.70 kg
- Product with packaging (kg): 6.25 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: 70,000 hrs (excluded backlight) hour(s)

## Sustainability

- Environmental and energy: EnergyStar 8.0, EPEAT\*, TCO Certified Edge, WEEE, RoHS
- Recyclable packaging material: 100 %
- Recycled material: 85%
- Specific Substances: PVC/BFR free housing, Mercury free

## Compliance and standards

- Regulatory Approvals: CE Mark, FCC Class B, EPA, UKRAINIAN, ICES-003, TUV Ergo, TUV/GS, CU-EAC

## Cabinet

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

## What's in the box?

- Monitor with stand
- Cables: D-Sub cable, DVI-D cable, HDMI cable, DP cable, Power cable
- User Documentation



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or their respective owners.

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\* "IPS" word mark / trademark and related patents on technologies belong to their respective owners.

\* Response time value equal to SmartResponse

\* NTSC Area based on CIE 1976

\* sRGB Area based on CIE1931

\* EPEAT rating is valid only where Philips registers the product. Please visit <https://www.epeat.net/> for registration status in your country.

\* The monitor may look different from feature images.