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.

Features for the way you work
- Built-in stereo speakers for multimedia
- HDMI ensures universal digital connectivity
- Narrow-border display for a seamless appearance

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

Sustainable Eco-design
- 100% recyclable packaging

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

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!
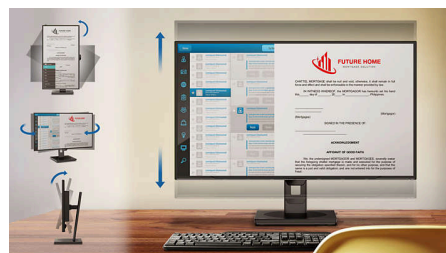
LowBlue Mode

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

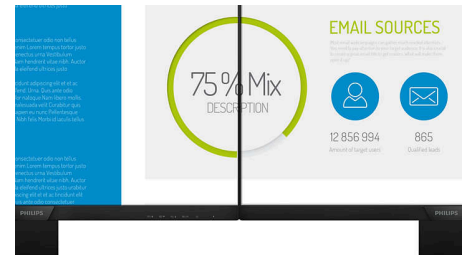The SmartErgoBase is a monitor base that delivers ergonomic display comfort and provides cable management. The base can swivel, tilt and rotate to various angles to ensure maximum comfort. The height-adjustable stand guarantees the optimal viewing level, reducing the physical strains of a long workday, while 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.

Highlights

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).

Built-in stereo speakers

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

Sustainability

Philips is committed to using sustainable, eco-friendly materials across its monitor range. All body plastic parts, metal chassis parts and packing materials use 100% recyclable materials. In selected models, we utilise >= 65% Post-Consumer Recycled plastics, ensuring reduction in waste. Strict adherence to RoHS standards ensures substantial reduction or elimination of toxic substances like Lead and Mercury. Our display housing is made up of PVC/BFR-free material. For more information, please visit Philips @ http://www.asimpleswitch.com/global/ to learn more.

IPS
Wide Viewing Angle

SmartImage™

LowBlue Mode

Flicker-free

SmartErgo Base

EasyRead

Specifications

Picture/Display

Panel Size: 22.5 inch/57.2 cm
Aspect ratio: 16:10
LCD panel type: IPS technology
Backlight type: W-LED system
Pixel pitch: 0.25425 x 0.24765 mm
Optimum resolution: 1920 x 1200 @ 60 Hz
Brightness: 250 cd/m²
Display colours: 16.7 M
Colour gamut (typical): NTSC 85%*, sRGB 101.8%*
Contrast ratio (typical): 1000:1
SmartContrast: 50,000,000:1
Response time (typical): 5 ms (Grey to Grey)*
Viewing angle: 178º (H)/178º (V), @ C/R > 10
Picture enhancement: SmartImage
Effective viewing area: 488.16 (H) x 297.18 (V)
Scanning Frequency: 30-96 kHz (H)/48-76 Hz (V)
sRGB
Flicker-free
Pixel Density: 101 PPI
LowBlue Mode
Display Screen Coating: Anti-Glare, 3H, Haze 25%
EasyRead
Adaptive sync

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
Plug and Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 10 / 8.1 / 8 / 7
User convenience: SmartImage, Input, Brightness, Menu, Power On/Off
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)
Control software: SmartControl

Stand

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

Power

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

Dimensions

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

Weight

Product with packaging (kg): 6.25 kg
Product with stand (kg): 4.30 kg
Product without stand (kg): 2.70 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: 70,000 hrs (excluded backlight) hour(s)
Relative humidity: 20%-80 %
Temperature range (storage): -20°C to 60°C °C

Sustainability

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

Compliance and standards

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

Cabinet

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

What's in the box?

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

PHILIPS

* "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.