

# PHILIPS

LCD monitor with  
Privacy mode

B Line

24 (23.8"/60.5 cm diag.)

1920 x 1080 (Full HD)

242B1V



## Secure viewing with Privacy Mode

This Philips monitor with an easy switchable privacy mode offers an integrated solution for privacy without the clumsy screen protector. Secure your confidential or sensitive data from visual hacking. Greatly boost your work productivity.

### Excellent performance

- IPS technology for full colours and wide viewing angles
- SmartImage pre-sets for easy optimised image settings
- Effortlessly smooth action with Adaptive-Sync technology

### Designed for the way you work

- Built-in stereo speakers for multimedia
- SmartErgoBase enables user-friendly ergonomic adjustments
- Less eye fatigue with Flicker-Free technology
- LowBlue Mode for easy-on-the-eyes productivity
- EasyRead mode for a paper-like reading experience
- Secure viewing with Privacy Mode

### Designed for sustainability

- LightSensor for the perfect brightness with minimal power
- PowerSensor saves up to 70% energy costs

# Highlights

## Privacy mode

Organisations invest heavily to prevent information leakage. Visual hacking is low-tech, but hard to prevent in open spaces. Philips Privacy Mode offers an integrated solution for privacy without the hassle of the clumsy screen protector. Simply press a button to enter Privacy Mode, your screen appears dark and barely seen from both sides, but keeps clear visuals at the centre. You can secure confidential, sensitive or private data from visual hacking. A convenient switch allows you to quickly toggle between Privacy Mode and wide-viewing mode. Greatly boost your work productivity.

## Flicker-Free technology



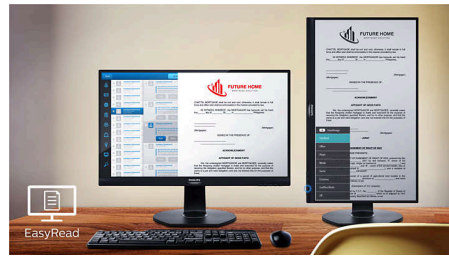
Due to the way brightness is controlled on LED-backlit screens, some users experience flicker on their screen which causes eye fatigue. Philips Flicker-Free technology applies a new solution to regulate brightness and reduce flicker for more comfortable viewing.

## LowBlue Mode



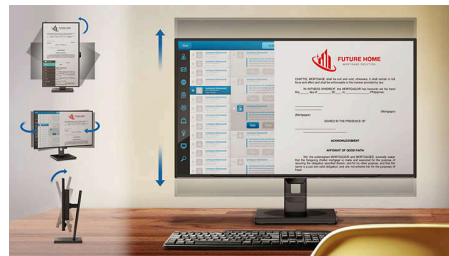
Studies have shown that just as ultra-violet rays can cause eye damage, shortwave-length blue light rays from LED displays can cause eye damage and affect vision over time. Developed for wellbeing, the Philips LowBlue Mode setting uses a smart software technology to reduce harmful shortwave blue light.

## EasyRead mode



EasyRead mode for a paper-like reading experience

## SmartErgoBase



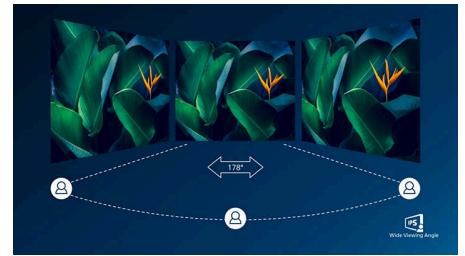
The SmartErgoBase is a monitor base that delivers ergonomic display comfort and provides cable management. The base can swivel, tilt and rotate to various angles to ensure maximum comfort. The height-adjustable stand guarantees the optimal viewing level, reducing the physical strains of a long workday,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

## 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.

## 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!



Privacy Mode



Flicker-free



LowBlue Mode



EasyRead



SmartErgo Base



Built-in Speaker



Wide Viewing Angle



SmartImage™

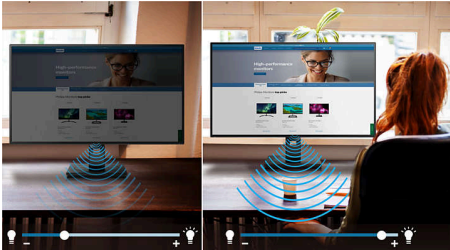
# Highlights

## Adaptive-Sync technology



Gaming shouldn't be a choice between choppy gameplay or broken frames. Get fluid, artefact-free performance at virtually any frame rate with Adaptive-Sync technology, smooth quick refresh and ultra-fast response time.

## PowerSensor



PowerSensor is a built-in 'people sensor' that transmits and receives harmless infrared signals to determine if the user is present and automatically reduces monitor brightness when the user steps away from the desk, cutting energy costs by up to 70 percent and prolonging monitor life.

## LightSensor



LightSensor uses a smart sensor to adjust the picture brightness depending on the light conditions in the room for the perfect picture with minimal power usage.

# Specifications

## Picture/Display

**Panel Size:** 23.8 inch/60.5 cm  
**Aspect ratio:** 16:9  
**LCD panel type:** IPS technology  
**Backlight type:** W-LED system  
**Pixel pitch:** 0.2745 x 0.2745 mm  
**Brightness:** Sharing mode: 350 cd/m<sup>2</sup>; Privacy mode\*: 180 cd/m<sup>2</sup>  
**Display colours:** 16.7 M  
**Colour gamut (typical):** NTSC 87%\*, sRGB 106%\*  
**Contrast ratio (typical):** 1000:1  
**SmartContrast:** 50,000,000:1  
**Response time (typical):** 4 ms (Grey to Grey)\*  
**Viewing angle:** Sharing mode: 178° (H) / 178° (V) C/R > 10 (typ.); privacy mode: 90° (H) / 178° (V) (<1.4% of central maximum luminance)  
**Picture enhancement:** SmartImage  
**Maximum resolution:** 1920 x 1080 @ 75 Hz\*  
**Effective viewing area:** 527.04 (H) x 296.46 (V)  
**Scanning Frequency:** 30–85 kHz (H) / 48–75 Hz (V)  
**sRGB**  
**Flicker-free**  
**Pixel Density:** 93 PPI  
**LowBlue Mode**  
**Display Screen Coating:** Anti-Glare, 3H, Haze 25%  
**EasyRead**  
**Adaptive sync**

## Connectivity

**Signal Input:** VGA (Analogue), DVI-D (digital), HDCP, DisplayPort 1.2, HDMI 1.4 x 1  
**Sync Input:** Separate Sync, Sync on Green  
**Audio (In/Out):** PC audio-in, Headphone out  
**USB::** USB-B x 1 (upstream), USB 3.2 x 4 (downstream with 1 fast charge B.C 1.2)  
**HDCP:** HDCP 1.4 (DVI/DP/HDMI)

## 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, PowerSensor, 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:** 150 mm  
**Pivot:** -/+ 90 degree  
**Swivel:** -/+ 180 degree  
**Tilt:** -5 ~ 35 degree

## Power

**ECO mode:** 13.9 W (typ.)  
**Power supply:** Built-in, 100–240 VAC, 50–60 Hz  
**Off mode:** Zero watts with Zero switch  
**On mode:** 14.5 W (typ.) (EnergyStar test method)  
**Standby mode:** <0.3 W (typ.)  
**Power LED indicator:** Operation - White, Standby mode - White (flashing)  
**Energy Label Class:** D

## Dimensions

**Packaging in mm (W x H x D):** 600 x 465 x 198 mm  
**Product without stand (mm):** 540 x 323 x 51 mm  
**Product with stand (max height):** 540 x 501 x 205 mm

## Weight

**Product with packaging (kg):** 7.95 kg  
**Product with stand (kg):** 5.78 kg  
**Product without stand (kg):** 4.18 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  
**Relative humidity:** 20%-80 %  
**Temperature range (storage):** -20°C to 60°C °C  
**MTBF (demonstrated):** 70,000 hrs (excluded backlight)

## Sustainability

**Environmental and energy:** PowerSensor, LightSensor, EnergyStar 8.0, EPEAT\*, RoHS  
**Post-consumer recycled plastic:** 85%  
**Recyclable packaging material:** 100 %  
**Specific Substances:** PVC/BFR free housing, Mercury free

## Compliance and standards

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

## Cabinet

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

## What's in the box?

**Cables:** VGA cable, HDMI cable, DP cable, Audio cable, Power cable  
**Monitor with stand**  
**User Documentation**



\* "IPS" word mark / trademark and related patents on technologies belong to their respective owners.  
 \* The maximum resolution works for either HDMI input or DP input.  
 \* Response time value equal to SmartResponse  
 \* While switching on privacy mode, the maximum brightness is 180 cd/m<sup>2</sup>  
 \* NTSC Area based on CIE 1976  
 \* sRGB Area based on CIE1931  
 \* Fast charging complies with USB BC 1.2 standard  
 \* 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.