

# PHILIPS

LCD monitor with  
PowerSensor

Business Monitor

B Line

24 (23.8" / 60.5 cm diag.)

2560 x 1440 (QHD)

245B1



## Crystal-clear vision to get more done

Get your best work done with this Philips monitor. Crystal-clear QHD gives the space and clarity for your work. Loaded with features to improve productivity and sustainability. Eye comfort features with TUV certified to reduce eye fatigue.

### Excellent performance

- IPS technology for full colors and wide viewing angles
- SmartImage presets for easy optimized image settings
- Crystalclear images with Quad HD 2560 x 1440 pixels
- Effortlessly smooth action with Adaptive-Sync technology

### Designed for the way you work

- Built-in stereo speakers for multimedia
- SmartErgoBase enables people-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
- TUV Eye Comfort certified to reduce eye fatigue

### Designed for sustainability

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

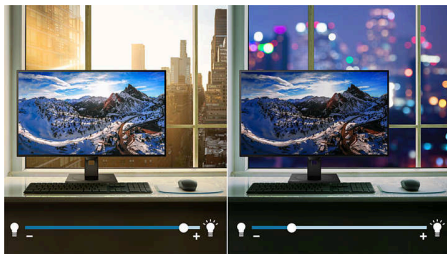
## Highlights

### PowerSensor



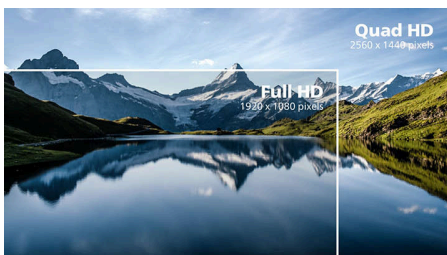
PowerSensor is a built-in 'people sensor' that transmits and receives harmless infrared signals to determine if user is present and automatically reduces monitor brightness when user steps away from the desk, cutting energy costs by up to 70 percent and prolonging monitor life.

### LightSensor



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

### Crystalclear images



These Philips screens deliver Crystalclear, Quad HD 2560x1440 or 2560x1080 pixel images. Utilizing high performance panels with high density pixel count, enabled by high bandwidth sources, these new displays will make your images and graphics come alive. Whether you are demanding professional requiring extremely detailed information for CAD-CAM solutions, using 3D graphic applications or a financial wizard working on huge spreadsheets, Philips displays will give you Crystalclear images.

### 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, Photo, Movie, Game, 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!

### Adaptive-Sync technology



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

### TUV Rheinland Eye Comfort



Philips display meet TUV Rheinland Eye Comfort standard to prevent eye strain caused by prolonged computer use. With TUV Eye Comfort certification, Philips displays ensure flicker-free, low blue mode, no disturbing reflections, wide

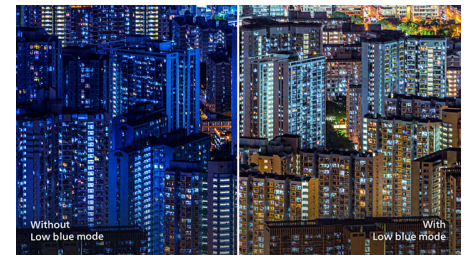
viewing angle and less reduction of image quality from different angles and ergonomic stand designs for ideal viewing experience. Keep your eyes healthy and boost work productivity.

### Flicker-free technology



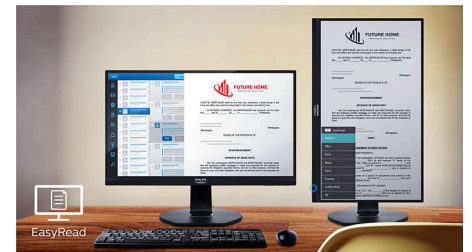
Due to the way brightness is controlled on LED-backlit screens, some users experience flicker on their screen which causes eye fatigue. Philips Flicker-free Technology applies a new solution to regulate brightness and reduce flicker for more comfortable viewing.

### 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, Philips LowBlue Mode setting uses a smart software technology to reduce harmful shortwave blue light.

### EasyRead mode

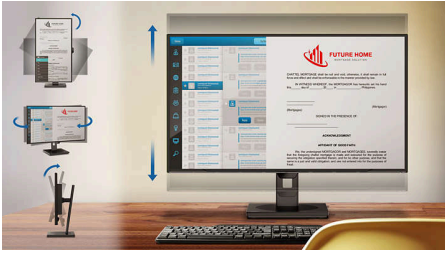


EasyRead mode for a paper-like reading experience



## Highlights

### 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

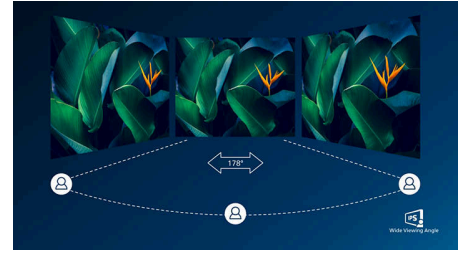


A pair of high quality stereo speakers built into a display device. It can be visible front firing, or invisible down firing, top firing, rear firing, etc depending on model and design.

### Designed for sustainability

Designed for sustainability, and reduced operating costs, this monitor meets environmental standards. Such as: ENERGY STAR, EPEAT, TCO Certified. For more information on certification, please visit: ENERGY STAR: <https://www.energystar.gov/> EPEAT: <https://www.epeat.net/> TCO Certified: <https://tcocertified.com/>

### IPS technology



IPS displays use an advanced technology which gives you extra wide viewing angles of 178/178 degree, 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 colors, making it ideal not only for Photos, movies and web browsing, but also for professional applications which demand color accuracy and consistent brightness at all times.

# 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:** 0.2058 x 0.2058 mm  
**Brightness:** 250 cd/m<sup>2</sup>  
**Display colors:** 16.7M  
**Color gamut (typical):** NTSC 99%\*, sRGB 116%\*  
**Contrast ratio (typical):** 1000:1  
**SmartContrast:** 50,000,000:1  
**Response time (typical):** 4 ms (Gray to Gray)\*  
**Viewing angle:** 178° (H) / 178° (V), @ C/R &gt; 10  
**Picture enhancement:** SmartImage  
**Maximum resolution:** 2560 x 1440 @ 75Hz\*  
**Effective viewing area:** 526.848 (H) x 296.352 (V)  
**Scanning Frequency:** 30 - 114 kHz (H) / 48 - 75 Hz (V)  
**sRGB**  
**Flicker-free**  
**Pixel Density:** 123 PPI  
**LowBlue Mode**  
**Display Screen Coating:** Anti-Glare, 3H, Haze 25%  
**EasyRead**  
**Adaptive sync**

## Connectivity

**Signal Input:** DVI-D (digital, HDCP), DisplayPort 1.2, HDMI 1.4 x 1  
**Sync Input:** Separate Sync  
**Audio (In/Out):** 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 & 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 (100x100mm)  
**Control software:** SmartControl

## Stand

**Height adjustment:** 150 mm  
**Pivot:** -/+ 90 degree  
**Swivel:** -/+ 180 degree  
**Tilt:** -5 ~ 35 degree

## Power

**ECO mode:** 13 W (typ.)  
**Power supply:** Built-in, 100-240VAC, 50-60Hz  
**Off mode:** Zero watts with Zero switch  
**On mode:** 16.3 W (typ.) (EnergyStar test method)  
**Standby mode:** 0.3 W (typ.)  
**Power LED indicator:** Operation - White, Standby mode- White (blinking)

## Dimensions

**Packaging in mm (WxHxD):** 730 x 450 x 139 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):** 7.46 kg  
**Product with stand (kg):** 4.78 kg  
**Product without stand (kg):** 3.20 kg

## Operating conditions

**Altitude:** Operation: +12,000ft (3,658m), Non-operation: +40,000ft (12,192m)  
**Temperature range (operation):** 0°C to 40 °C  
**Relative humidity:** 20%-80 %  
**Temperature range (storage):** -20°C to 60 °C  
**MTBF (demonstrated):** 70,000 hrs (excluded backlight)

## Sustainability

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

## Compliance and standards

**Regulatory Approvals:** CB, FCC Class B, ICES-003, CE Mark, TUV Ergo, TUV/GS, SEMKO, CU-EAC, UKRAINIAN, TUV Eye Comfort certified, MEPS, RCM

