

# PHILIPS

LCD monitor with  
PowerSensor

Business Monitor

B Line

24 (23.8" / 60.5 cm diag.)

1920 x 1080 (Full HD)

242B1



## Clear vision to get more done

Get your best work done with this Philips monitor. IPS screen with crisp FHD gives the clarity to see 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
- 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
- Designed to meet environmental standards

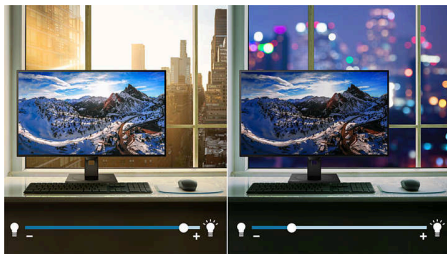
## Highlights

### PowerSensor



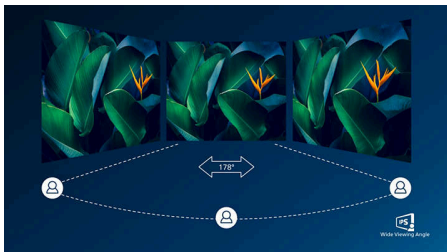
PowerSensor is a built-in 'people sensor' that transmits and receives harmless infrared signals to determine if user is present and automatically reduces monitor brightness when user steps away from the desk, cutting energy costs by up to 70 percent and prolonging monitor life.

### 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.

### IPS technology



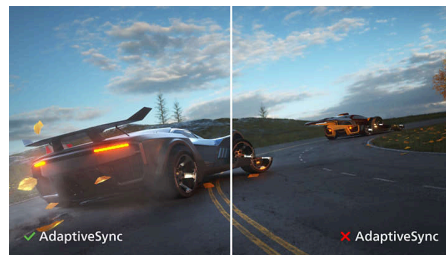
IPS displays use an advanced technology which gives you extra wide viewing angles of 178/178 degree, making it possible to view the display from almost any angle - even in 90 degree Pivot mode! Unlike standard TN panels, IPS displays gives you remarkably crisp images with vivid colors, making it ideal not only for Photos, movies and web browsing, but also for professional applications which demand color accuracy and consistent brightness at all times.

### 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.

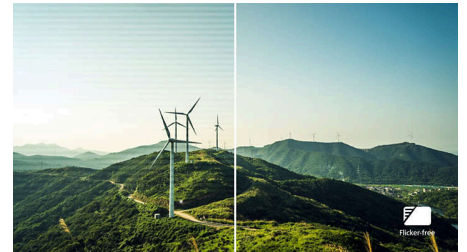
### TUV Rheinland Eye Comfort



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

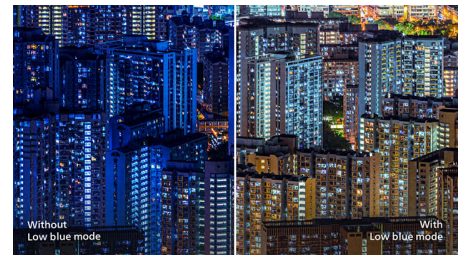
viewing angle and less reduction of image quality from different angles and ergonomic stand designs for ideal viewing experience. Keep your eyes healthy and boost work productivity.

### Flicker-free technology



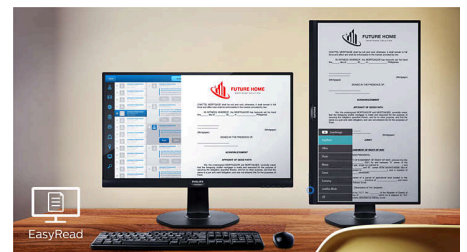
Due to the way brightness is controlled on LED-backlit screens, some users experience flicker on their screen which causes eye fatigue. Philips Flicker-free Technology applies a new solution to regulate brightness and reduce flicker for more comfortable viewing.

### 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

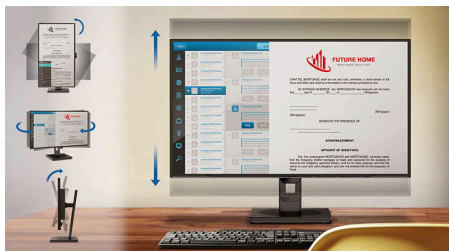


EasyRead mode for a paper-like reading experience



## 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/>



# 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:** 300 cd/m<sup>2</sup>  
**Display colors:** 16.7M  
**Color gamut (typical):** NTSC 91%\*, sRGB 107%\*  
**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 > 10  
**Picture enhancement:** SmartImage  
**Maximum resolution:** 1920 x 1080 @ 75Hz\*  
**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 (Analog), 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 & Play Compatibility:** DDC/CI, Mac OS X, sRGB, Windows 11 / 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:** 10.4 W (typ.)  
**Power supply:** Built-in, 100-240VAC, 50-60Hz  
**Off mode:** Zero watts with Zero switch  
**On mode:** 14.5 W (typ.) (EnergyStar test method)  
**Standby mode:** 0.35 W  
**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):** 7.36 kg  
**Product with stand (kg):** 4.57 kg  
**Product without stand (kg):** 2.99 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\*, RoHS, TCO Certified Edge  
**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, CU-EAC, UKRAINIAN, TUV Eye Comfort certified, PSB

