

# 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 colours and wide viewing angles
- SmartImage pre-sets for easy optimised image settings
- Crystal clear 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 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
- 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

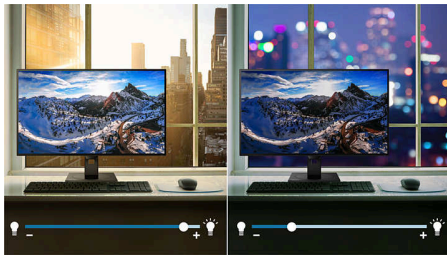
## Highlights

### PowerSensor



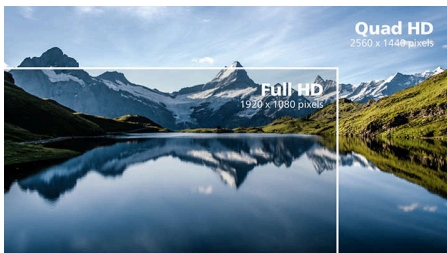
PowerSensor is a built-in 'people sensor' that transmits and receives harmless infrared signals to determine if the user is present and automatically reduces monitor brightness when the user steps away from the desk, cutting energy costs by up to 70 percent and prolonging monitor life.

### 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.

### CrystalClear images



These Philips screens deliver Crystal Clear, Quad HD 2560 x 1440 or 2560 x 1080 pixel images. Utilising high-performance panels with a high-density pixel count, enabled by high bandwidth sources like USB-C, Displayport and HDMI, these new displays will make your images and graphics come alive. Whether you are a demanding professional who requires extremely detailed information for CAD-CAM solutions and uses 3D

graphic applications, or a financial wizard working on huge spreadsheets, Philips displays will give you Crystal Clear images.

### 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!

### Adaptive-Sync technology



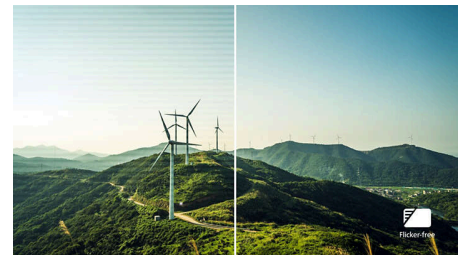
Gaming shouldn't be a choice between choppy gameplay or broken frames. Get fluid, artefact-free performance at virtually any frame rate with Adaptive-Sync technology, smooth quick refresh and ultra-fast response time.

### TUV Rheinland Eye Comfort



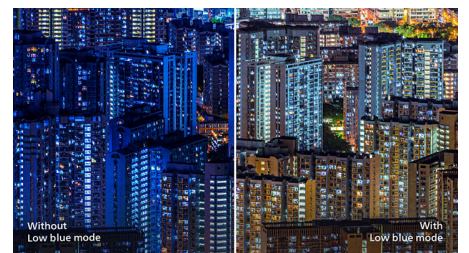
Philips displays meet TUV Rheinland Eye Comfort standard to prevent eye strain caused by prolonged computer use. With TUV Eye Comfort certification, Philips displays ensure flicker-free, low-blue mode, no disturbing reflections, a wide viewing angle, less reduction of image quality from different angles and ergonomic stand designs for an 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

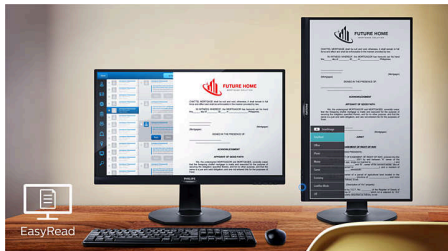


Studies have shown that just as ultra-violet rays can cause eye damage, shortwave-length blue light rays from LED displays can cause eye damage and affect vision over time. Developed for wellbeing, the Philips LowBlue Mode setting uses a smart software technology to reduce harmful shortwave blue light.



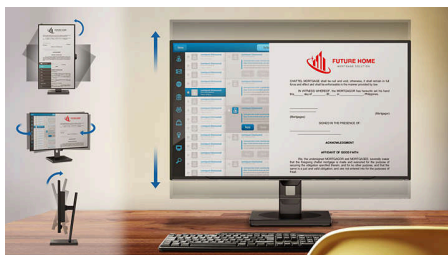
## Highlights

### EasyRead mode



EasyRead mode for a paper-like reading experience

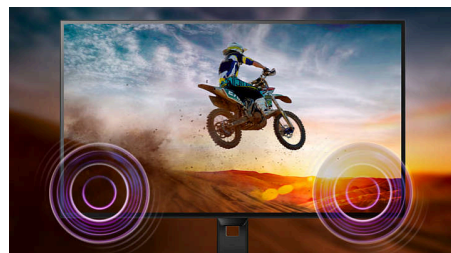
### SmartErgoBase



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



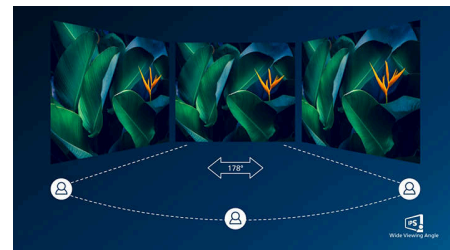
A pair of high-quality stereo speakers built into a display device. They may be visible front firing, or invisible down firing, top firing, rear firing etc. depending on model and design.

### 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 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.

# 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 colours: 16.7 M  
 Colour gamut (typical): NTSC 99%\*, sRGB 116%\*  
 Contrast ratio (typical): 1000:1  
 SmartContrast: 50,000,000:1  
 Response time (typical): 4 ms (Grey to Grey)\*  
 Viewing angle: 178° (H)/178° (V), @ C/R > 10  
 Picture enhancement: SmartImage  
 Maximum resolution: 2560 x 1440 @ 75 Hz\*  
 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: 2W 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 W (typ.)  
 Power supply: Built-in, 100–240 VAC, 50–60 Hz  
 Off mode: Zero watts with Zero switch  
 On mode: 16.3 W (typ.) (Energy Star 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): 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: +12,000 ft (3658 m), Non-operation: +40,000 ft (12,192 m)  
 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, EPA, FCC Class B, ICES-003, CE Mark, TUV Ergo, TUV/GS, SEMKO, CU-EAC, UKRAINIAN, CCC, CECP, CEL, TUV Eye  
 Comfort certified

## Cabinet

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

## What's in the box?

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

