

# PHILIPS

LCD monitor with  
PowerSensor

Monitor

B Line

27" (68.6 cm)

3840 x 2160 (4K UHD)

278B1



## Ultra-clear vision to get more done

Get your best work done with this Philips monitor. UltraClear 4K UHD 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
- UltraClear 4K UHD (3840 x 2160) resolution for precision

### Designed for the way you work

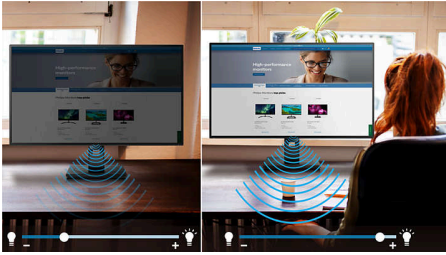
- Built-in stereo speakers for multimedia
- SmartErgoBase enables user-friendly ergonomic adjustments
- Less eye fatigue with Flicker-Free technology
- LowBlue Mode for easy-on-the-eyes productivity
- EasyRead mode for a paper-like reading experience
- TUV Eye Comfort certified to reduce eye fatigue

### Designed for sustainability

- LightSensor for the perfect brightness with minimal power
- PowerSensor saves up to 65% energy costs
- Designed to meet environmental standards

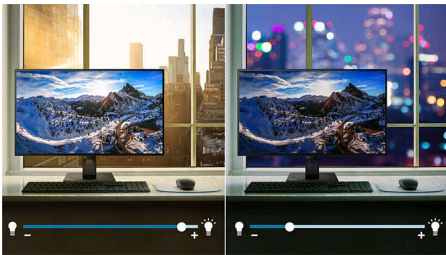
# Highlights

## PowerSensor



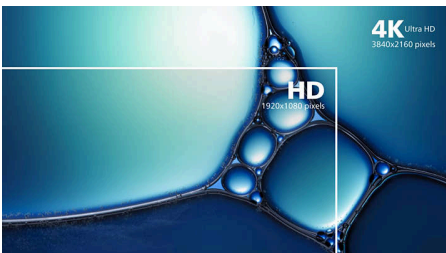
PowerSensor is a built-in 'people sensor' that transmits and receives harmless infrared signals to determine if a user is present and automatically reduces monitor brightness when the user steps away from the desk, cutting energy costs by up to 65 percent and prolonging monitor life

## LightSensor



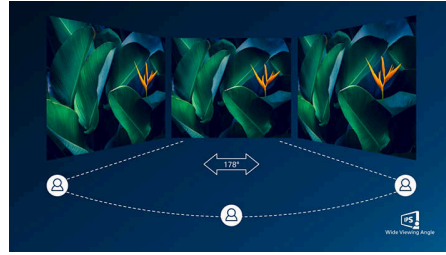
LightSensor uses a smart sensor to adjust the picture brightness depending on the light conditions in the room for the perfect picture with minimal power usage.

## UltraClear 4K UHD Resolution



These Philips displays utilise high-performance panels to deliver UltraClear, 4K UHD (3840 x 2160) resolution images. Whether you are a demanding professional requiring extremely detailed images for CAD solutions, a user of 3D graphics applications or a financial wizard working on huge spreadsheets, Philips displays will make your images and graphics come alive.

## 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!

## TUV Rheinland Eye Comfort



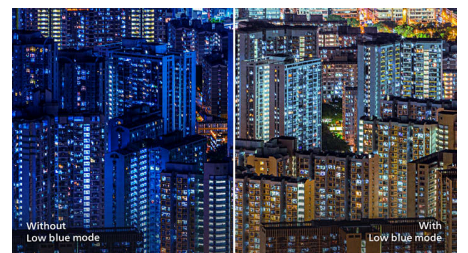
Philips displays meet TUV Rheinland Eye Comfort standard to prevent eye strain caused by prolonged computer use. With TUV Eye Comfort certification, Philips displays ensure flicker-free, low-blue mode, no disturbing reflections, a wide viewing angle, less reduction of image quality from different angles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

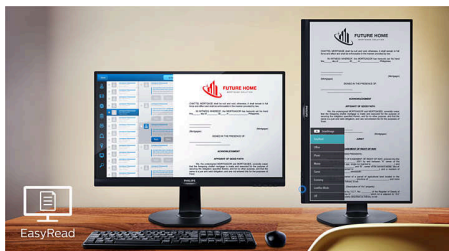


Studies have shown that just as ultra-violet rays can cause eye damage, shortwave-length blue light rays from LED displays can cause eye damage and affect vision over time. Developed for wellbeing, the Philips LowBlue Mode setting uses a smart software technology to reduce harmful shortwave blue light.



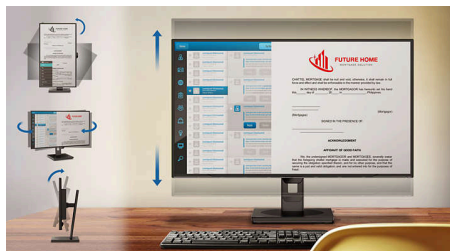
## Highlights

### 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/>



# Specifications

## Picture/Display

**Panel Size:** 27 inch/68.6 cm

**Aspect ratio:** 16:9

**LCD panel type:** IPS technology

**Backlight type:** W-LED system

**Pixel pitch:** 0.1554 x 0.1554 mm

**Optimum resolution:** 3840 x 2160 @ 60 Hz

**Brightness:** 350 cd/m<sup>2</sup>

**Display colours:** Colour support 1.07 billion colours

**Colour gamut (typical):** NTSC 93%\*, sRGB 112%\*

**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

**Effective viewing area:** 596.736 (H) x 335.664 (V)

**Scanning Frequency:** 30–140 kHz (H) / 23–75 Hz (V)

sRGB

**Delta E:** < 2 (sRGB)

**Flicker-free**

**Pixel Density:** 163 PPI

**LowBlue Mode**

**Display Screen Coating:** Anti-Glare, 3H, Haze 25%

**SmartUniformity:** 97 ~ 102%

**EasyRead**

## Connectivity

**Signal Input:** DisplayPort 1.2, HDMI 2.0 x 2

**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 2.2 (DP/HDMI/USB)

## 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, French, Finnish, German, Greek, Hungarian, Italian, Japanese, Korean, Portuguese, Polish, 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:** 22.5 W (typ.)

**Power supply:** Built-in, 100–240 VAC, 50–60 Hz

**Off mode:** Zero watts with Zero switch

**On mode:** 24.1 W (typ.) (EnergyStar test method)

**Standby mode:** < 0.3 W (typ.)

**Power LED indicator:** Operation - White, Standby mode - White (flashing)

**Energy Label Class:** F

## Dimensions

**Packaging in mm (W x H x D):** 700 x 456 x 216 mm

**Product without stand (mm):** 613 x 366 x 51 mm

**Product with stand (max height):** 613 x 537 x 205 mm

## Weight

**Product with packaging (kg):** 8.75 kg

**Product with stand (kg):** 6.64 kg

**Product without stand (kg):** 5.03 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:** Mercury free, PVC/BFR free housing

## Compliance and standards

**Regulatory Approvals:** CB, FCC Class B, ICES-003, CE Mark, TUV/GS, TUV Ergo, CU-EAC, EAEU RoHS, UKRAINIAN, 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, Power cable

**Monitor with stand**

**User Documentation**

