

# PHILIPS

## LCD monitor with USB-C

B Line

24 (23.8"/60.5 cm diag.)

1920 x 1080 (Full HD)

243B1



## Simplify your connections

### with USB-C docking monitor

The Philips USB-C monitor replaces cable clutter. View FHD image and recharge a laptop, all at the same time with a single USB-C cable. Features like Daisy chain for multi-display setup, Eye comfort with TUV certified to reduce eye fatigue

#### **Designed for the way you work**

- Built-in stereo speakers for multimedia
- SmartErgoBase enables user-friendly ergonomic adjustments
- DisplayPort connection for maximum visuals
- HDMI ensures universal digital connectivity
- Less eye fatigue with Flicker-Free technology
- LowBlue Mode for easy-on-the-eyes productivity
- TUV Eye Comfort certified to reduce eye fatigue

#### **Single cable USB-C connection**

- Connect your notebook with one USB-C cable
- Power and re-charge compatible notebook from the monitor
- USB 3.2 high-speed data transfer

#### **Designed for sustainability**

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

# Highlights

## USB-C connection



This Philips display features a USB type-C connector with power delivery. With intelligent and flexible power management, you can power charge your compatible device directly. Its slim, reversible USB-C allows for easy, one-cable connection. You can watch high-resolution video and transfer data at super speed, while powering up and recharging your compatible device at the same time.

## Power and re-charge notebook

This monitor features a built-in USB-C connector that meets USB Power Delivery standard. With intelligent and flexible power management, you can now power up and/or re-charge your compatible\* Notebook directly from the Monitor using a single USB-C cable.

## 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



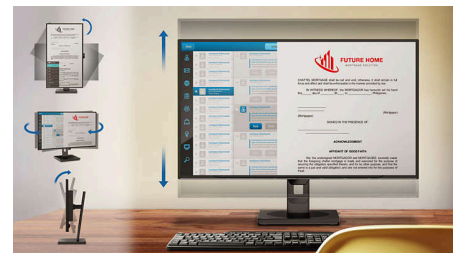
Studies have shown that just as ultra-violet rays can cause eye damage, shortwave-length blue light rays from LED displays can cause eye damage and affect vision over time. Developed for wellbeing, the Philips LowBlue Mode setting uses a smart software technology to reduce harmful shortwave blue light.

## HDMI Ready



An HDMI-ready device has all the required hardware to accept High-Definition Multimedia Interface (HDMI) input. An HDMI cable enables high-quality digital video and audio to be transmitted over a single cable from a PC or any number of AV sources (including set-top boxes, DVD players, A/V receivers and video cameras).

## SmartErgoBase



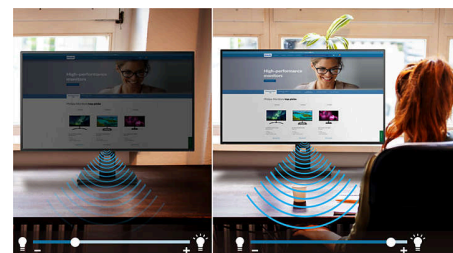
The SmartErgoBase is a monitor base that delivers ergonomic display comfort and provides cable management. The base can swivel, tilt and rotate to various angles to ensure maximum comfort. The height-adjustable stand guarantees the optimal viewing level, reducing the physical strains of a long workday,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

## 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.



USB-C



Flicker-free



LowBlue Mode



HDMI



SmartErgoBase



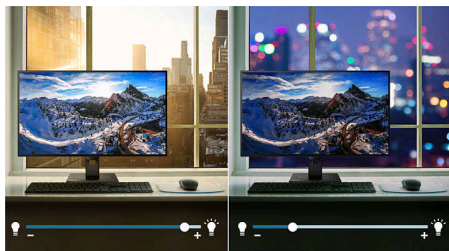
Built-in Speaker



PowerSensor

# Highlights

## 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.

## 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/>

## DisplayPort connection



DisplayPort is a digital link from PC to monitor without any conversion. With higher capabilities than DVI standard, it is fully capable to support

up to 15 metre cables and 10.8 Gbps/sec data transfer. With this high performance and zero latency, you get the fastest imaging and refresh rates — making DisplayPort the best choice for not only general office or home use, but also for the more demanding gaming and films, video editing and more. It also keeps interoperability in mind via the use of various adapters.

## High-speed data transfer

USB 3.2 high-speed data transfer



USB-C



Flicker-free



LowBlue Mode



SmartErgo Base

# 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 colours:** 16.7 M  
**Colour gamut (typical):** NTSC 91%\*, sRGB 107%\*  
**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:** 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**

## Connectivity

**Signal Input:** DisplayPort 1.4 x 1, HDMI 1.4 x 1, USB-C 3.2 Gen 2 x 1 (upstream, power delivery up to 90 W)  
**Sync Input:** Separate Sync  
**Audio (In/Out):** Audio out  
**RJ45:** Ethernet LAN up to 1G\*, Wake-on-LAN  
**Signal Output:** DisplayPort out\* (DP / USB-C)  
**USB::** USB 3.2 Gen 2 x 1 (upstream), USB 3.2 x 4 (downstream with 1 fast charge B.C 1.2)  
**HDCP:** HDCP 1.4 (HDMI/DP/USB-C)  
**HBR3**

## USB

**Power delivery:** USB PD version 3.0  
**Super speed:** Data and Video transfer  
**DP:** Built-in Display Port Alt mode  
**USB-C max. power delivery:** Up to 90 W (5 V/3 A; 7 V/3 A; 9 V/3 A; 10 V/3 A; 12 V/3 A; 15 V/3 A; 20 V/4.5 A)  
**USB-C:** Reversible plug connector

## 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:** 12.6 W (typ.)  
**Power supply:** Built-in, 100–240 VAC, 50–60 Hz  
**Off mode:** Zero watts with Zero switch  
**On mode:** 15.2 W (typ.) (EnergyStar test method)  
**Standby mode:** < 0.5 W (typ.)  
**Power LED indicator:** Operation - White, Standby mode - White (flashing)  
**Energy Label Class:** D

## 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):** 7.66 kg  
**Product with stand (kg):** 4.98 kg  
**Product without stand (kg):** 3.40 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, Energy Star 8.0, EPEAT\*, RoHS, TCO Certified Edge, WEEE  
**Post-consumer recycled plastic:** 85%  
**Recyclable packaging material:** 100 %  
**Specific Substances:** PVC/BFR free housing, Mercury free

## Compliance and standards

**Regulatory Approvals:** CE Mark, FCC Class B, CU-EAC, EAEU RoHS, TUV/GS, TUV Ergo, UKRAINIAN, ICES-003, CB, 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, USB-C to C 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 USB-C, DP or HDMI input.  
 \* Response time value equal to SmartResponse  
 \* NTSC Area based on CIE 1976  
 \* sRGB Area based on CIE1931  
 \* DisplayPort out works only under either DP in or USB-C in.  
 \* Maximum number of external displays that can be supported: 1 by using USB-C, 3 by using DP  
 \* If your Ethernet connection seems slow, please enter the OSD menu and select USB 3.0 or a higher version that can support the LAN speed up to 1G.  
 \* Activities such as screen sharing and online streaming over the Internet can impact your network performance. Your hardware and network bandwidth will determine the overall audio and video quality.  
 \* For USB-C power and charging function, your Notebook/device must support USB-C standard Power Delivery specifications. Please check with your Notebook user manual or manufacturer for more details.  
 \* For Video transmission via USB-C, your Notebook/device must support USB-C DP Alt mode  
 \* 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.