

# PHILIPS



FHD LCD monitor  
with USB-C dock

B Line

24 (23.8" / 60.5 cm diag.)

1920 x 1080 (Full HD)



241B7QUPBEB

## Simplify your connections with revolutionary USB-C

Simple USB-C connection and crystal-clear IPS images. The Philips B-line monitor with USB-C connector allows simple notebook docking via one cable for fast data and video to full HD IPS display, and even notebook charging.

### Sustainable Eco-friendly solution

- PowerSensor saves up to 70% energy costs

### Excellent performance

- IPS technology for full colours and wide viewing angles

### Designed for people

- SmartErgoBase enables user-friendly ergonomic adjustments
- Less eye fatigue with Flicker-Free technology
- Narrow border display for seamless appearance
- EasyRead mode for a paper-like reading experience
- LowBlue Mode for easy-on-the-eyes productivity
- All your connections through one USB-C cable

### Easy to experience

- Built-in stereo speakers for multimedia

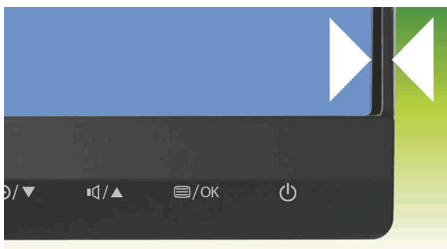
# Highlights

## USB-C Docking



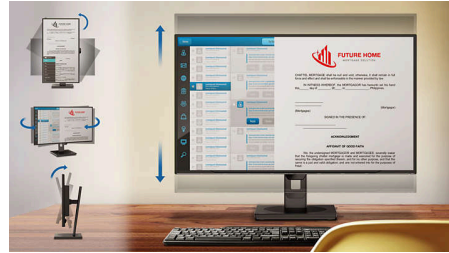
The new USB 3.1 Type-C cable with features a slim and reversible connector and offers easy one-cable docking. With USB 3.1 you get the fastest data speeds, 20 times as fast as USB 2.0, allowing you to transfer data from a HDD to your PC faster than ever. Simplify by connecting all your peripherals to your monitor as a dock with one cable to the notebook, including high resolution video output from your PC to monitor. Additionally, USB-C with power delivery even allows you to power and charge your notebook from the monitor, eliminating the need for extra power cables.

## Ultra-narrow Border



The new Philips displays feature ultra-narrow borders which allow for minimal distractions and maximum viewing size. Especially suited for multi-display or tiling setups like gaming, graphic design and professional applications, the ultra-narrow border display gives you the feeling of using one large display.

## SmartErgoBase



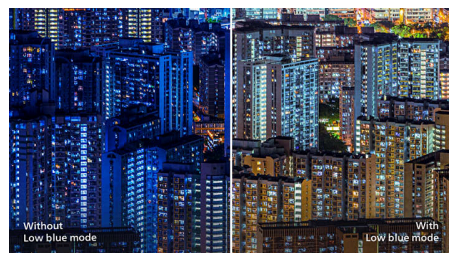
The SmartErgoBase is a monitor base that delivers ergonomic display comfort and provides cable management. The base can swivel, tilt and rotate to various angles to ensure maximum comfort. The height-adjustable stand guarantees the optimal viewing level, reducing the physical strains of a long workday,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

## 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.

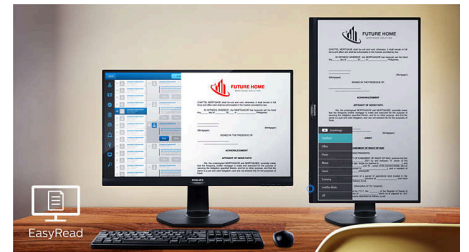
## LowBlue Mode



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

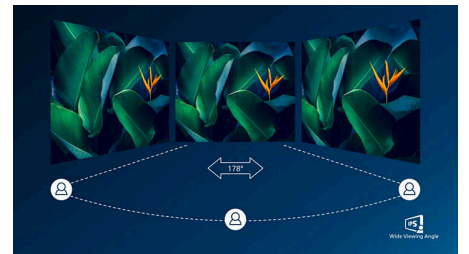
for wellbeing, the Philips LowBlue Mode setting uses a smart software technology to reduce harmful shortwave blue light.

## EasyRead mode



EasyRead mode for a paper-like reading experience

## 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.

## 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.



Ultra Narrow Bezel



SmartErgo Base



Flicker-free



LowBlue Mode



EasyRead



Wide Viewing Angle



Built-in Speaker



PowerSensor

# 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: 0.275 x 0.275 mm  
Brightness: 250 cd/m<sup>2</sup>  
Display colours: 16.7 M  
Colour gamut (typical): NTSC 85%\*, sRGB 102%\*  
Contrast ratio (typical): 1,000:1  
SmartContrast: 20,000,000:1  
Response time (typical): 5 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 x 296.5 mm  
Scanning Frequency: 30 - 83 kHz (H) / 56 - 76 Hz (V)  
sRGB  
Flicker-free  
Pixel Density: 93 PPI  
LowBlue Mode  
Display Screen Coating: Anti-Glare, 3H, Haze 25%  
EasyRead

## Connectivity

Signal Input: VGA (Analogue), DisplayPort 1.2 x 1, HDMI 1.4 x 1, USB-C 3.1 Gen 2 x 1 (upstream, power delivery up to 65 W), USB 3.0 x 2 (downstream, w/ fast charging)  
Sync Input: Separate Sync, Sync on Green  
Audio (In/Out): PC audio-in, Headphone out  
RJ45: Ethernet LAN up to 1G\*  
Signal Output: DisplayPort out

## USB

Power delivery: USB PD version 2.0  
Super speed: Data and Video transfer  
DP: Built-in DisplayPort Alt mode  
USB-C max. power delivery: Up to 65 watts (5 V/3 A; 7 V/3 A; 9 V/3 A; 12 V/3 A; 15 V/3 A; 20 V/3 A)  
USB-C: Reversible plug connector

## Convenience

Built-in Speakers: 2 W x 2  
Plug and Play Compatibility: DDC/CI (VGA only), Mac OS X, sRGB, Windows 10 / 8.1 / 8 / 7  
User convenience: SmartImage, Input, PowerSensor, Menu, Power On/Off

OSD Languages: English, French, German, Italian, Portuguese, Russian, Simplified Chinese, Spanish, Korean, Brazil Portuguese, Czech, Dutch, Finnish, Greek, Hungarian, Japanese, Polish, 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: -175/175 degree  
Tilt: -5/30 degree

## Power

ECO mode: 11.8 W (typ.)  
Power supply: External, 100–240 VAC, 50–60 Hz  
Off mode: <0.3 W (typ.)  
On mode: 13.14 W (typ.) (EnergyStar test method)  
Standby mode: <0.7 W (typ.)  
Power LED indicator: Operation - White, Standby mode - White (flashing)  
Energy Label Class: E

# Specifications

## Dimensions

Packaging in mm (W x H x D): 603 x 492 x 224 mm

Product without stand (mm): 541 x 332 x 57 mm

Product with stand (max height): 541 x 527 x 257 mm

## Weight

Product with packaging (kg): 8.94 kg

Product with stand (kg): 5.72 kg

Product without stand (kg): 3.29 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 °C

Relative humidity: 20%-80 %

Temperature range (storage): -20°C to 60°C °C

MTBF (demonstrated): 70,000 hrs (excluded backlight)

## Sustainability

Environmental and energy: EnergyStar 8.0, EPEAT\*, PowerSensor, 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: CE Mark, FCC Class B, SEMKO, cETLus, CU-EAC, TUV Ergo, TUV/GS, EPA, WEEE, UKRAINIAN, ICES-003, RCM, VCCI

## Cabinet

Finish: Texture

Foot: Black

Front bezel: Black

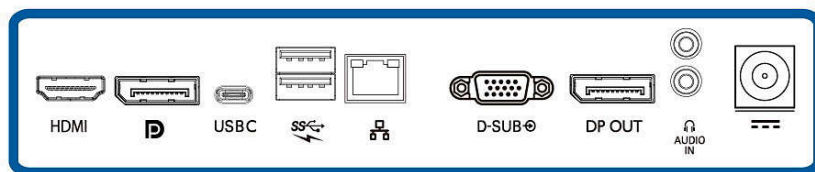
Rear cover: Black

## What's in the box?

Cables: D-Sub cable, HDMI cable, DP cable, USB-C to C cable, USB-C to A cable, Audio cable, Power cable

Monitor with stand

User Documentation



I/O back panel connector diagram



- \* "IPS" word mark / trademark and related patents on technologies belong to their respective owners.
- \* For Video transmission via USB-C, your Notebook/device must support USB-C DP Alt mode
- \* 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.
- \* 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.
- \* 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
- \* 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.
- \* EPEAT rating is valid only where Philips registers the product. Please visit <https://www.epeat.net/> for registration status in your country.
- \* The notebook, keyboard and mouse shown are for illustration purpose only and not included with the product.
- \* The monitor may look different from feature images.