



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 colors and wide viewing angles

#### Designed for people

- SmartErgoBase enables people-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

# PHILIPS

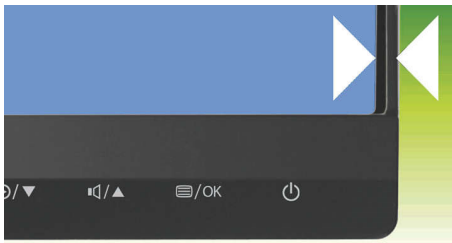
# Highlights

## 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, can even enable you to power and charge your notebook from the monitor, eliminating the need for extra power cables.

## UltraNarrow 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 setup 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

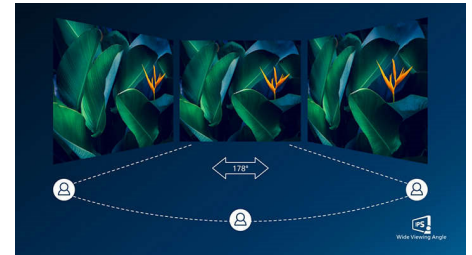
for wellbeing, Philips LowBlue Mode setting uses a smart software technology to reduce harmful shortwave blue light.

## EasyRead mode



EasyRead mode for a paper-like reading experience

## IPS technology



IPS displays use 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.

## 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.



Ultra Narrow Bezel



SmartErgo Base



Flicker-free



LowBlue Mode



EasyRead



Wide Viewing Angle



Built-in Speaker



PowerSensor



Ethernet

# Specifications

## Connectivity

- Signal Input: VGA (Analog), 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

## 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 colors: 16.7 M
- Color gamut (typical): NTSC 85%\*, sRGB 102%\*
- Contrast ratio (typical): 1,000:1
- SmartContrast: 20,000,000:1
- Response time (typical): 5 ms (Gray to Gray)\*
- Viewing angle: 178° (H) / 178° (V), @ C/R &gt; 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

## 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: Upto 65 watts (5V/3A; 7V/3A; 9V/3A; 12V/3A; 15V/3A; 20V/3A)
- USB-C: Reversible plug connector

## Convenience

- Built-in Speakers: 2 W x 2
- Plug & 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 (100x100mm)
- 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, 100-240VAC, 50-60Hz
- 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 (blinking)

## Dimensions

- Packaging in mm (WxHxD): 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: +12,000ft (3,658m), Non-operation: +40,000ft (12,192m)
- 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

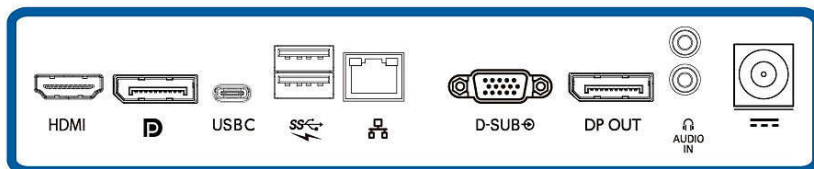
- Environmental and energy: EnergyStar 8.0, EPEAT\*, PowerSensor, TCO Certified Edge, RoHS
- Post consumer recycled plastic: 85%
- Recyclable packaging material: 100 %
- Specific Substances: PVC / BFR free housing, Mercury free

## 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



I/O back panel connector diagram



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\* "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, on-line streaming video and audio over the Internet can impact your network performance. Your hardware, network bandwidth and its performance will determine 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 CIE1976  
\* sRGB Area based on CIE1931  
\* If your Ethernet connection seems slow, please enter OSD menu and select USB 3.0 or higher version which can support the LAN speed 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, mouse as shown are for illustration purpose only, not included in the product.  
\* The monitor may look different from feature images.