# PHILIPS

**LCD monitor with USB docking**

**Business Monitor**

B Line

24 (23.8"/60.5 cm diag.)

1920 x 1080 (Full HD)

243B1JH

# Simplify your connections

## with hybrid USB docking

This Philips monitor offers 100 W power delivery and a simple laptop docking solution. One USB dual mesh cable with Type C and A connectors delivers video, Ethernet, power charge and DisplayLink functions. Windows Hello webcam offers greater security.

### Excellent performance

- IPS technology for full colours and wide viewing angles
- DisplayPort-out for connecting additional displays
- LowBlue Mode for easy-on-the-eyes productivity
- Secure sign-in with pop-up webcam

### Single cable for USB docking

- Built-in RJ-45 Ethernet gives data security
- Built-in USB docking simplifies your connections
- One USB dual-mesh cable further reduces cable clutter
- USB-A with DisplayLink enables compatibility with existing laptops
- USB-C enables laptop power charging directly from a monitor

### Designed for sustainability

- LightSensor for the perfect brightness with minimal power
- PowerSensor saves up to 80% energy costs
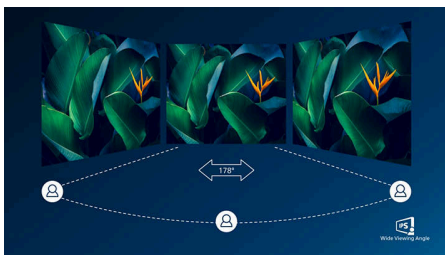- Designed to meet environmental standards

# Highlights

## USB Docking

Philips USB-docking monitors deliver universal port replication for simple, clutter-free notebook connection. Securely connect to networks and transmit data, video and audio from a laptop using just a single USB cable. What's more, you can dock with a USB Type-C port for additional power charging. With docking monitors with built-in DisplayLink Technology, users can benefit from forwards and backwards USB compatibility with virtually any recent notebook. USB docking can boost business productivity and reduce costs.

## USB Type-C connection



This Philips display features a built-in USB type-C docking station with power delivery. With intelligent and flexible power management, you can power charge your compatible* laptop directly. Its slim, reversible USB-C connector allows for easy, one-cable docking. Simplify by connecting all your peripherals like keyboard, mouse and your RJ-45 Ethernet cable to the monitor's docking station. You can watch high-resolution video and transfer data at super-speed, while powering up and re-charging your notebook at the same time.

## 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
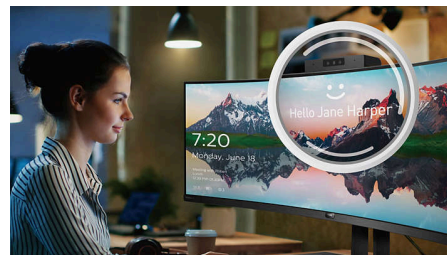
from almost any angle — even in 90-degree Pivot mode! Unlike standard TN panels, IPS displays gives you remarkably crisp images with vivid colours, making it ideal not only for Photos, films and web browsing, but also for professional applications that demand colour accuracy and consistent brightness at all times.

## 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.
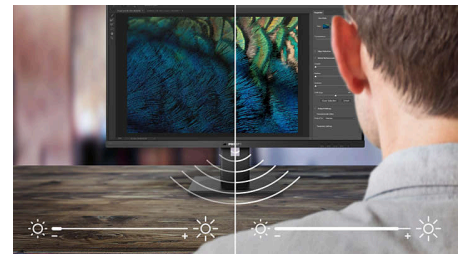
## Pop-up webcam



Philips' innovative and secure webcam pops up when you need it and securely tucks back into the monitor when you are not using it. The webcam is also equipped with advanced sensors for Windows Hello facial recognition, which conveniently logs you into your Windows devices in less than 2 seconds, 3 times faster than a password.
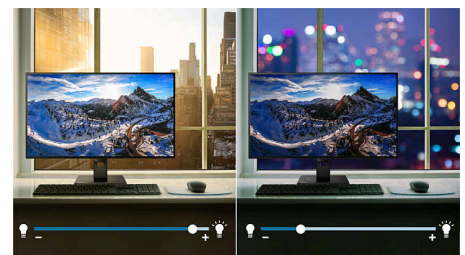
## DisplayPort-out



With DisplayPort-out you can connect multiple high-resolution displays with just one cable from your first display to the PC. The ability to daisy chain multiple displays enables you to maintain a clean desktop without the hassle of too many wires.

## PowerSensor



PowerSensor is a built-in 'people sensor' that transmits and receives harmless infrared signals to determine if the user is present and then automatically reduces monitor brightness when then user steps away from the desk, cutting energy costs by up to 80 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.

USB Docking | Wide Viewing Angle | LowBlue Mode | PowerSensor | LightSensor | Flicker-free | Wide Viewing Angle | Quad HD

# 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/m²

Display colours: 16.7 M

Colour gamut (typical): NTSC 88%*, sRGB 105%*

Contrast ratio (typical): 1000:1

SmartContrast: 50,000,000:1

Response time (typical): 4 ms (Grey to Grey)*

Viewing angle: 178º (H)/178º (V), @ C/R > 10

Picture enhancement: SmartImage

Maximum resolution: 1920 x 1080 @ 75 Hz*

Effective viewing area: 578.04 (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 x 1 (DP Alt mode, DisplayLink)*

Sync Input: Separate Sync

Audio (In/Out): Audio out

RJ45: Ethernet LAN up to 1 G*, Wake on LAN

Signal Output: DisplayPort out*

USB:: Upstream: USB-C 3.2 Gen 1 x 1; Downstream: USB-C x 1 (PD 15 W), USB-A 3.2 x 4 (with 1 fast charge B.C 1.2)

HDCP: HDCP 1.4 (HDMI/DP/USB-C video/DisplayLink)

DC power out: x 1 (support 19 V @ 4.73 A, max. 90 W)*

HBR3: for USB-C

## 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 100 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: 3 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

Built-in webcam: Pop-up 2.0 megapixel FHD camera with microphone and LED indictor (for Windows 10 Hello)

## Stand

Height adjustment: 150 mm

Pivot: -/+ 90 degree

Swivel: -/+ 180 degree

Tilt: -5~30 degree

## Power

ECO mode: 13.5 W (typ.)

Power supply: External, 100–240 VAC, 50–60 Hz

Off mode: 0.3 W (typ.)

On mode: 14.2 W (typ.) (EnergyStar test method)

Standby mode: 0.5 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): 7.56 kg

Product with stand (kg): 4.88 kg

Product without stand (kg): 3.27 kg

# Specifications

## 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

**Post-consumer recycled plastic:** 85%

**Recyclable packaging material:** 100 %

**Specific Substances:** PVC/BFR free housing, Mercury free

## Compliance and standards

**Regulatory Approvals:** UKRAINIAN, CB, TUV/GS, TUV Ergo, CU-EAC, EAEU RoHS, CE Mark, FCC Class B, ICES-003, 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/A Y cable, DC out 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.
* Mac OS does not support DP-Out MST extension function.
* USB-C DP Alt mode means USB-C to C cable, USB-C DisplayLink means USB-C to A cable.
* DC power out function only supports Intel NUC with 19 V@4.73 A, max 90 W. Only one PC or notebook should be connected to either USB-C or DC out port for power passthrough function)
* 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.
* For Video transmission via USB-C, your Notebook/device must support USB-C DP Alt mode
* 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.
* USB-C max. power delivery is up to 100 W because of Smart Power function. User can adjust monitor brightness setting to get different levels of power delivery. 1st USB-C port can support up to 90 W max and 2nd USB-C port can support up to 15 W max. For more information, please refer to user manual.
* 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.

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