

# PHILIPS

LCD monitor with  
USB-C

Business Monitor

4000 series

27" (68.5 cm)

2560 x 1440 (QHD)

27B2U4601



## Redefining workflow productivity

This monitor brings all the essentials to the table and more. With a stunning Quad HD resolution, IPS panel and USB-C connectivity, pictures stay vibrant while the connection provides high-speed data transfer.

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

- Built-in stereo speakers for multimedia
- SmartErgoBase enables user-friendly ergonomic adjustments
- Eyesafe-certified blue light protection and colour accuracy
- Less eye fatigue with Flicker-Free technology
- EasyRead mode for a paper-like reading experience
- SoftBlue Technology: for comfortable viewing

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

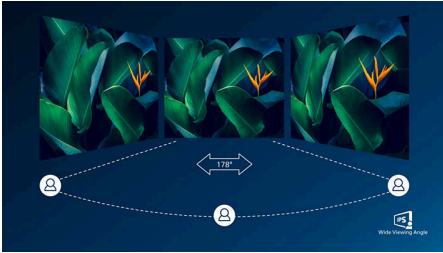
- RJ-45 to USB-C gives easy network connection with security
- USB 3.2 high-speed data transfer

### **Superb Picture Quality**

- 120 Hz refresh rates for ultra-smooth images
- IPS LED wide view technology for image and colour accuracy
- Crystal clear images with Quad HD 2560 x 1440 pixels

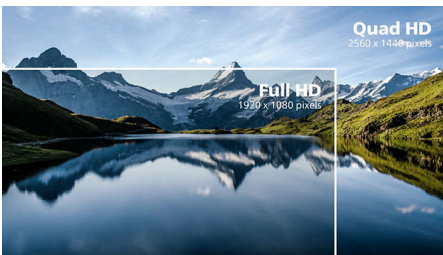
# Highlights

## IPS technology



IPS displays use an advanced technology that gives you extra-wide viewing angles of 178/178 degrees, making it possible to view the display from almost any angle. Unlike standard TN panels, IPS displays give you remarkably crisp images with vivid colours, making them ideal not only for Photos, movies and web browsing, but also for professional applications that demand colour accuracy and consistent brightness at all times.

## CrystalClear images



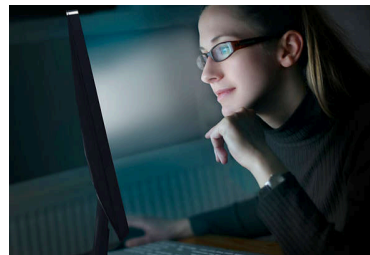
These Philips screens deliver CrystalClear, Quad HD 2560 x 1440 or 2560 x 1080 pixel images. Utilising high performance panels with a high-density pixel count enabled by high bandwidth sources, these new displays will make your images and graphics come alive. Whether you are a demanding professional requiring extremely detailed information for CAD-CAM solutions using 3D graphic applications, or a financial wizard working on huge spreadsheets, Philips displays will give you CrystalClear images.

## 120 Hz fast refresh



For gaming and video performance, you demand display with lag free, ultra-smooth images. This Philips display redraws the screen image up to 120 times per second, much faster than a standard display. A lower frame rate can make enemies appear to jump from spot to spot on the screen, making them difficult targets to hit. With 120 Hz frame rate, you get those critical missing images on the screen which shows enemy movement in ultra-smooth motion so you can easily target them.

## SoftBlue Technology



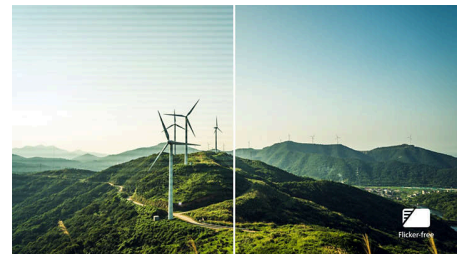
SoftBlue LED technology, combined with the monitor's low blue light panel, is an effective solution for reducing the adverse health effects caused by high exposure to blue light. In this monitor's panel, the ratio of light is reduced by nearly 50 percent, while the SoftBlue LED technology works simultaneously by reducing harmful blue light rays emitted from the screen. Furthermore, the SoftBlue LED technology is tested and certified by TUV Rheinland Eyesafe® for its effectiveness in reducing blue light emissions.

## Built-in stereo speakers



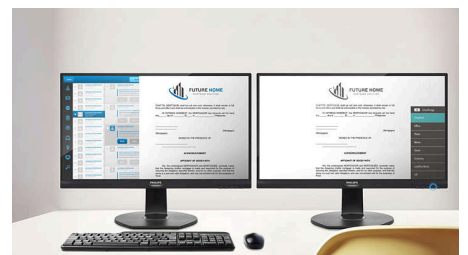
A pair of high-quality stereo speakers built into a display device. They may be visible front firing, or invisible down firing, top firing, rear firing etc. depending on model and design.

## 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.

## EasyRead mode



EasyRead mode for a paper-like reading experience



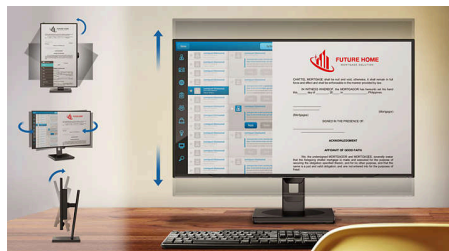
## Highlights

### TUV Rheinland Eyesafe - RPF 40



Philips display meets the TUV Rheinland Eyesafe® standard to truly protect you from long exposure to blue light. The always-on blue light filter not only helps reduce digital eye strain, but also guarantees colour integrity.

### 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.

### High-speed data transfer

USB 3.2 high-speed data transfer

### USB-C Docking with RJ45



Simplify all peripherals from monitor to PC using one-cable docking USB Type-C connector, including networking, high-resolution video output from PC to monitor, and surfing on the Internet without an additional network cable, even without a LAN port on your notebook. RJ45 connection through USB-C offers a fast and secure connection when needed. Getting the fastest data speeds allows you to transfer data from a HDD to your PC faster than ever. 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.



# Specifications

## Picture/Display

Panel Size: 27 inch/68.5 cm  
 Aspect ratio: 16:9  
 LCD panel type: IPS technology  
 Backlight type: W-LED system  
 Pixel pitch: 0.2331 x 0.2331 mm  
 Brightness: 350 cd/m<sup>2</sup>  
 Display colours: 16.7 M (True 8 bits)  
 Colour gamut (typical): NTSC 114%\*, sRGB 125%\*  
 Contrast ratio (typical): 1500:1  
 SmartContrast: 50,000,000:1  
 Viewing angle: 178° (H)/178° (V), @ C/R > 10  
 Picture enhancement: SmartImage  
 Maximum resolution: 2560 x 1440 @ 120 Hz (HDMI/DP/USBC)\*  
 Effective viewing area: 596.74 (H) x 335.66 (V) mm  
 Scanning Frequency: 30-230 KHz (H)/48-120 Hz (V)  
 sRGB  
 SoftBlue  
 Flicker-free  
 Pixel Density: 109 PPI  
 Display Screen Coating: Anti-Glare, 3H, Haze 25%  
 EasyRead  
 Adaptive sync  
 EyeSafe  
 SmartResponse: 4 ms (Grey to Grey)\*

## Connectivity

Signal Input: HDMI 2.0 x 1, DisplayPort 1.4 x 1, USB-C x 1 (upstream, DP Alt mode, Data, PD)  
 Sync Input: Separate Sync, Sync on Green  
 Audio (In/Out): Audio out  
 RJ45: Ethernet LAN up to 1G\*  
 Signal Output: DisplayPort out x 1  
 HDCP: HDCP 1.4 (HDMI/DisplayPort/USB-C), HDCP 2.2 (HDMI/DisplayPort/USB-C)  
 HBR3: HBR 3 (DisplayPort/USB-C)  
 USB Hub: USB 3.2, Gen 2, 10G, upstream: 1 x USB-C1 (Full), downstream: USB-A x 3 (with x 1 fast charge B.C 1.2), USB-C2 x 1 (data, 15 W)

## Power Delivery

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/3.25 A, 20 V/4.8 A)\*  
 Version: USB PD version 3.0

## Convenience

Built-in Speakers: 2 W x 2  
 Plug and Play Compatibility: DDC/CI, Mac OS, sRGB, Windows 11/10  
 User convenience: SmartImage, Input, Brightness, 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: -5/30 degree

## Power

ECO mode: 13.8 W (typ.)  
 Power supply: Built-in, 100-240 VAC, 50-60 Hz  
 Off mode: 0.3 W (typ.)  
 On mode: 19.17 W (typ.) (Energy Star test method)  
 Standby mode: 0.3 W (typ.)  
 Power LED indicator: Operation - White, Standby mode - White (flashing)  
 Energy Label Class: C

## Dimensions

Packaging in mm (W x H x D): 730 x 445 x 139 mm  
 Product without stand (mm): 614 x 371 x 66 mm  
 Product with stand (max height): 614 x 543 x 235 mm

## Weight

Product with packaging (kg): 9.80 kg  
 Product with stand (kg): 7.11 kg  
 Product without stand (kg): 5.37 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, EPEAT\*, RoHS  
 Post-consumer recycled plastic: 85%+OBP 5%  
 Recyclable packaging material: 100 %  
 Specific Substances: Mercury free, PVC/BFR free housing

## Compliance and standards

Regulatory Approvals: CB, CE Mark, ETL, CEC, TUV/GS, TUV Ergo, TCO Certified, TCO Certified Edge, EAC, EAEU RoHS, MEPS, UKCA, EMF, FCC, ICES-003, TÜV Rheinland Low Blue Light (Hardware Solution), eyesafe® CERTIFIED 2.0

## Cabinet

Finish: Texture  
 Foot: Silver  
 Front bezel: Charcoal  
 Rear cover: Charcoal

## What's in the box?

Cables: HDMI cable, DisplayPort cable, USB-C to C/C cable, Power cable  
 Monitor with stand  
 User Documentation

- \* "IPS" word mark / trademark and related patents on technologies belong to their respective owners.
- \* Response time value equal to SmartResponse
- \* sRGB Area based on CIE1931, NTSC Area based on CIE1976.
- \* The power delivery of this display is up to 100 W (typically 96 W). The maximum power delivery will depend on your device.
- \* 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.
- \* 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.
- \* When USB-C is set to High Resolution mode, the maximum supported resolution is 2560 x 1440 @ 120 Hz.
- \* When calculating energy costs saving from PowerSensor, both USB and Power delivery are excluded.
- \* 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.
- \* The products and accessories listed on this leaflet may differ by country and region.

