

PHILIPS

LCD monitor with
USB-C

Business Monitor

4000 series

27" (68.5 cm)

2560 x 1440 (Quad HD)

27B2U4601H



Redefining workflow productivity

Work comfortably with SoftBlue technology and a smooth 120 Hz refresh rate. USB-C connectivity and an adjustable Windows Hello compatible webcam enhance productivity with the performance and convenience you expect.

Designed for the way you work

- Built-in stereo speakers for multimedia
- Smart Link Sync: for uniform daisy-chained displays
- Windows Hello Compatible – Seamless, Secure Access
- D-Mode: Optimised for subtle greyscale perception
- Eyesafe-certified blue light protection and colour accuracy
- Adjustable Webcam: for video conferencing in comfort.
- SoftBlue Technology: for comfortable viewing

Single cable USB-C connection

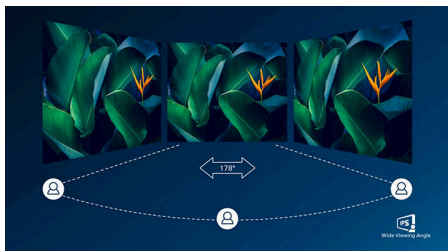
- RJ-45 to USB-C gives easy network connection with security

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

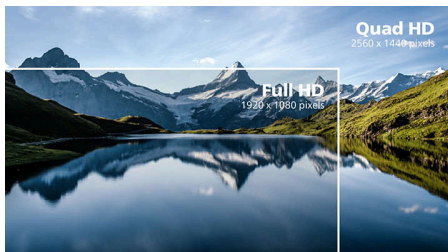
Highlights

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



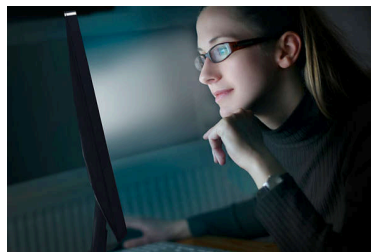
These Philips screens deliver CrystalClear, Quad HD 2560 x 1440 or 2560 x 1080 pixel images. Utilising high performance panels with a high-density pixel count enabled by high bandwidth sources, these new displays will make your images and graphics come alive. Whether you are a demanding professional 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



The smoother the motion, the less strain on your eyes. This Philips monitor is equipped with an improved 120 Hz refresh rate. Whenever you scroll, switch between applications or navigate complex spreadsheets, you experience smoother and more precise movements. That means you can work as long as you need with minimal visual fatigue—all while increasing the speed of your workflow.

SoftBlue Technology with Low Blue Light Panel



SoftBlue technology offers increased visual comfort and protection against adverse health effects caused by prolonged exposure to blue light. With the low blue-light panel, the ratio of display emission light in the range of 415-455 nm to 400-500 nm is reduced to less than 50%. As a result, the SoftBlue technology provides optimal visual comfort, minimises eye strain and supports sustained focus. Not to mention, SoftBlue LED technology is tested and TÜV Rheinland Low Blue Light (Hardware Solution) certified for its effectiveness in reducing blue light emissions.

Built-in stereo speakers



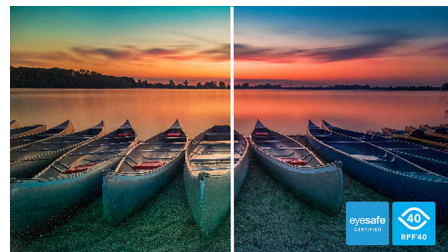
A pair of high-quality stereo speakers built into a display device. They may be visible front firing, or invisible down firing, top firing, rear firing etc. depending on model and design.

Smart Link Sync



Easily create a seamless multi-monitor workspace with Smart Link Sync, designed to automatically align display settings across daisy-chained monitors. Whether you're designing, presenting or multitasking, enjoy consistent brightness and colour without manual tweaks. Choose from OSD Sync or Light Sync modes (Low, Mid or High) on the primary monitor to match your environment. For identical monitors, any mode ensures uniform visuals; for mixed models, Light Sync intelligently adjusts luminance for a balanced, professional look across screens.

eyesafe® CERTIFIED 2.0 (RPF 40)

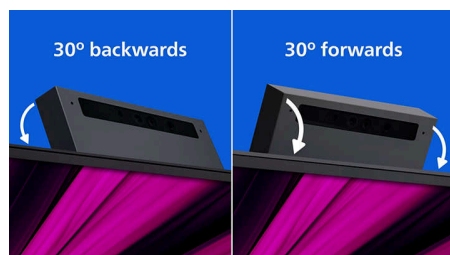


The Philips display meets the eyesafe® CERTIFIED 2.0 standard to truly protect you from long exposure to blue light. The always-on blue light filter not only helps reduce digital eye strain, but also guarantees colour integrity.



Highlights

Adjustable webcam



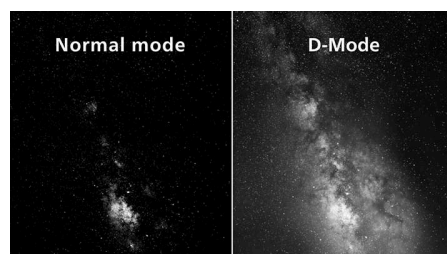
Level up the comfort of video conferencing with this feature. By adjusting the webcam back and forth by 30 degrees, users can now comfortably call and attend meetings from any position that best suits them.

Windows Hello Compatible



Log in faster and more securely with Windows Hello. The webcam on this Philips monitor is compatible with Windows Hello, offering quick facial recognition and effortless access - every time you power on.

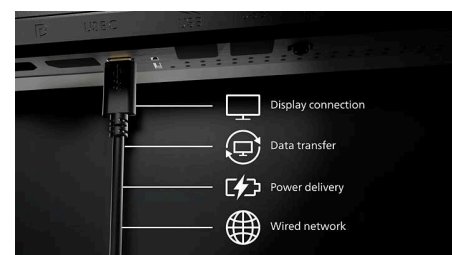
D-Mode



Reveal every hidden detail in the dark-toned areas of your display. D-Mode enhances greyscale detail to make subtle tonal differences easier to see. Based on the greyscale perception model defined by the DICOM Part 14 GSDF

standard, it improves the visibility of details that standard display settings may miss. The result is clearer differentiation between subtle shades and improved detail visibility in greyscale content such as technical illustrations, scans and other high-detail imagery.

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/m²
Display colours: 16.7 M (True 8 bits)
Colour gamut (typical): NTSC 102%*, sRGB 113%*
Contrast ratio (typical): 1500:1
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: 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 (VRR)
EyeSafe
Smart Link Sync: When used as a primary or secondary monitor*
DICOM (D-mode)

Connectivity

Signal Input: HDMI 2.1 TMDS 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 (USB 2.0: 10M/100M; USB 3.0: 1000M), PXE/MAPT/WOL*
Signal Output: DisplayPort out x 1
HDCP: HDCP 1.4 (HDMI/DisplayPort/USB-C), HDCP 2.3 (HDMI/DisplayPort/USB-C)
HBR3: HBR 3 (DisplayPort/USB-C)
USB Hub: USB3.2, Gen1, 5G, 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
Built-in webcam: 5.0 megapixel camera with microphone and LED indicator (for Windows Hello)
Webcam tilt function: Yes, -/+30 degree
Noise cancellation

Stand

Height adjustment: 150 mm
Pivot: -/+90 degree
Swivel: -/+ 180 degree
Tilt: -5/30 degree

Power

ECO mode: 15.2 W (typ.)
Power supply: Built-in, 100–240 VAC, 50–60 Hz
Off mode: Zero watts with AC switch
On mode: 21.12 W (typ.) (Energy Star test method)
Standby mode: 0.3 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 445 x 139 mm
Product without stand (mm): 614 x 371 x 65 mm
Product with stand (max height): 614 x 543 x 235 mm

Specifications

Weight

Product with packaging (kg): 10.01 kg

Product with stand (kg): 7.25 kg

Product without stand (kg): 5.50 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, Morocco Certification, Argentina Type Certification, Kuwait TER, South Africa Energy, NOM, MEXICO ENERGY, ETL, CEC, TUV/GS, TUV Ergo, TCO Certified, TCO Certified Edge, EAC, EAC ROHS, MEPS, PSB, KC, Korea MEPS, CEL, CCC, CECP, KCC, BSMI, VCCI, UKCA, EMF, FCC, ICES-003, PSE, TÜV Rheinland Low Blue Light (Hardware Solution), eyesafe® CERTIFIED 2.0

Warranty: 5 years*

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 5 year warranty is a voluntary manufacturer's limited warranty. It applies only in the countries listed on this page <https://www.philips.co.uk/c-e/so/monitors/tco-certified-edge>. For consumers, it is provided in addition to, and without affecting, their legal rights under applicable national laws. For non-consumer (business/professional) end users, only the manufacturer's limited warranty terms apply.
- * RJ45 supports PXE (Preboot eXecution Environment), MAC Address Pass-Through (MAPT) and Wake-on-LAN (WOL) on compatible systems. Support may vary depending on system configuration.
- * For Smart Link Sync to function properly, all daisy-chained monitors must be compatible with Smart Link.
- * The monitor may look different from feature images.
- * The products and accessories listed on this leaflet may differ by country and region.

