

# PHILIPS

4K UHD monitor

Business monitor

3000 series

27" (68.6 cm)

3840 x 2160 (4K UHD)

27B1N3800



## Daily routine simplified

This 27 inch monitor showcases beautiful imagery in 4K resolution and a 1.074 billion colour gamut. In addition, its DisplayPort connectivity and IPS panel make for a great all-around option for your workspace.

### Excellent performance

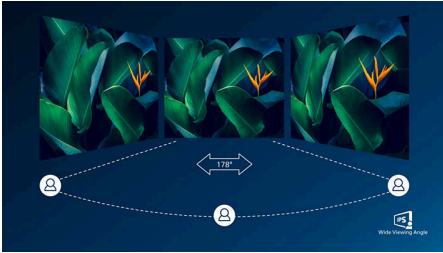
- IPS technology for full colours and wide viewing angles
- SmartImage pre-sets for easy optimised image settings
- UltraClear 4K UHD (3840 x 2160) resolution for precision
- 1.074 billion colours for smooth colour gradations and detail

### Designed for the way you work

- Built-in stereo speakers for multimedia
- SmartErgoBase enables user-friendly ergonomic adjustments
- DisplayPort connection for maximum visuals
- HDMI ensures universal digital connectivity
- Less eye fatigue with Flicker-Free technology
- LowBlue Mode for easy-on-the-eyes productivity
- EasyRead mode for a paper-like reading experience
- TUV Eye Comfort certified to reduce eye fatigue

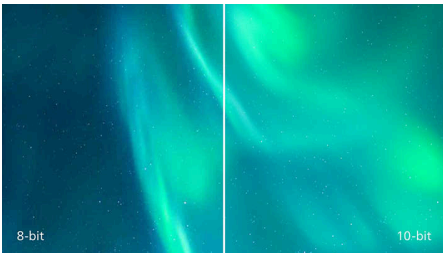
# Highlights

## IPS technology



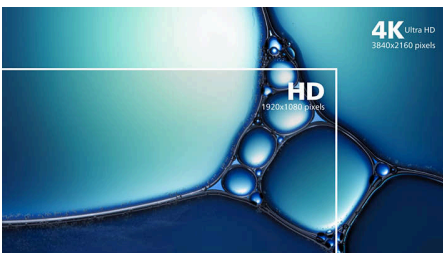
IPS displays use advanced technology that gives you extra-wide viewing angles of 178/178 degrees, making it possible to view the display from almost any angle — even in 90-degree Pivot mode! Unlike standard TN panels, IPS displays gives you remarkably crisp images with vivid colours, making it ideal not only for Photos, films and web browsing, but also for professional applications that demand colour accuracy and consistent brightness at all times.

## 10-bit colours



The 10-bit display delivers rich colour depth with 1.074 billion colours and 12-bit internal processing for recreating smooth, natural colours without gradations and colour banding.

## UltraClear 4K UHD Resolution



These Philips displays utilise high-performance panels to deliver UltraClear, 4K UHD (3840 x 2160) resolution images. Whether you are a demanding professional requiring extremely detailed images for CAD solutions, a user of 3D

graphics applications or a financial wizard working on huge spreadsheets, Philips displays will make your images and graphics come alive.

## SmartImage



SmartImage is an exclusive leading edge Philips technology that analyses the content displayed on your screen and optimises your display performance. This user-friendly interface allows you to select various modes, like Office, Photo, Movie, Game, Economy etc., to fit the application in use. Based on the selection, SmartImage dynamically optimises the contrast, colour saturation and sharpness of images and videos for ultimate display performance. The Economy mode option offers you major power savings. All in real time at the touch of a single button!

## DisplayPort connection



DisplayPort is a digital link from PC to monitor without any conversion. With higher capabilities than DVI standard, it is fully capable to support up to 15 metre cables and 10.8 Gbps/sec data transfer. With this high performance and zero latency, you get the fastest imaging and refresh rates — making DisplayPort the best choice for not only general office or home use, but also for the more demanding gaming and films, video editing and more. It also keeps interoperability in mind via the use of various adapters.

## HDMI Ready



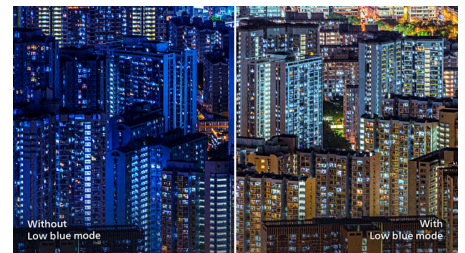
An HDMI-ready device has all the required hardware to accept High-Definition Multimedia Interface (HDMI) input. An HDMI cable enables high-quality digital video and audio to be transmitted over a single cable from a PC or any number of AV sources (including set-top boxes, DVD players, A/V receivers and video cameras).

## 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

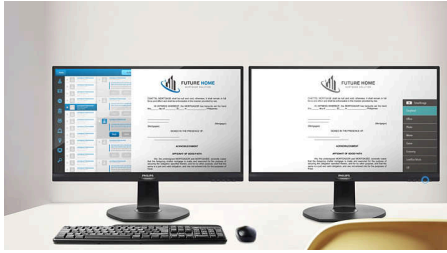


Studies have shown that just as ultra-violet rays can cause eye damage, shortwave-length blue light rays from LED displays can cause eye damage and affect vision over time. Developed for wellbeing, the Philips LowBlue Mode setting uses a smart software technology to reduce harmful shortwave blue light.



# Highlights

## EasyRead mode



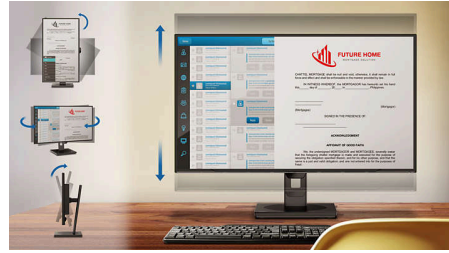
EasyRead mode for a paper-like reading experience

## 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.

## 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.

## TUV Rheinland Eye Comfort



Philips displays meet TUV Rheinland Eye Comfort standard to prevent eye strain caused by prolonged computer use. With TUV Eye Comfort certification, Philips displays ensure flicker-free, low-blue mode, no disturbing reflections, a wide viewing angle, less reduction of image quality from different angles and ergonomic stand designs for an ideal viewing experience. Keep your eyes healthy and boost work productivity.

# Specifications

## Picture/Display

Panel Size: 27 inch/68.6 cm  
 Aspect ratio: 16:9  
 LCD panel type: IPS technology  
 Backlight type: W-LED system  
 Pixel pitch: 0.1554 x 0.1554 mm  
 Optimum resolution: 3840 x 2160@60 Hz  
 Brightness: 350 cd/m<sup>2</sup>  
 Display colours: 1.07 B (10 bits)\*  
 Colour gamut (typical): sRGB 99.9%, NTSC 116%  
 Contrast ratio (typical): 1000:1  
 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  
 Effective viewing area: 596.736 (H) x 335.664 (V) mm  
 Scanning Frequency: 30–140 kHz (H)/23–75 Hz (V)  
 sRGB  
 Flicker-free  
 Pixel Density: 163 PPI  
 LowBlue Mode  
 Display Screen Coating: Anti-Glare, 3H, Haze 25%  
 EasyRead

## Connectivity

Signal Input: HDMI 2.0 x 2, DisplayPort 1.4 x 1  
 Sync Input: Separate Sync, Sync on Green  
 Audio (In/Out): Audio out  
 HDCP: HDCP 1.4/2.2 (DP/HDMI)  
 USB Hub: USB3.2, Gen1, 5G Upstream: USB-B x 1  
 Downstream: USB-A x 4 (with x 1 fast charge B.C 1.2)

## 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: 130 mm  
 Pivot: -/+ 90 degree  
 Swivel: -/+ 180 degree  
 Tilt: -5~25 degree

## Power

ECO mode: 20.6 W (typ.)  
 Power supply: Built-in, 100–240 VAC, 50–60 Hz  
 Off mode: 0.3 W (typ.)  
 On mode: 32.2 W (typ.)  
 Standby mode: 0.3 W (typ.)  
 Power LED indicator: Operation - White, Standby mode - White (flashing)  
 Energy Label Class: E

## Dimensions

Packaging in mm (W x H x D): 700 x 456 x 215 mm  
 Product without stand (mm): 613 x 366 x 51 mm  
 Product with stand (max height): 613 x 524 x 205 mm

## Weight

Product with packaging (kg): 9.28 kg  
 Product with stand (kg): 6.05 kg  
 Product without stand (kg): 4.15 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: Energy Star, RoHS, EPEAT\*  
 Recyclable packaging material: 100 %  
 Specific Substances: Mercury free, PVC/BFR free housing

## Compliance and standards

Regulatory Approvals: CB, CE Mark, TUV/GS, TUV Ergo, TCO Certified, EAC, EAEU RoHS, MEPS, PSB, UKCA, EMF, FCC, ICES-003, TUV Eye Comfort certified

## Cabinet

Finish: Texture  
 Foot: Black/Black  
 Front bezel: Black/Black  
 Rear cover: Black/Black

## What's in the box?

Cables: HDMI cable, DP 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  
 \* At a maximum resolution of 3840 x 2160, 10 bit colour depth can only be reached at 60 Hz with a DisplayPort connection. For more information, please check the 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.  
 \* The products and accessories listed on this leaflet may differ by country and region.