Philips Business monitor
4K UHD 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
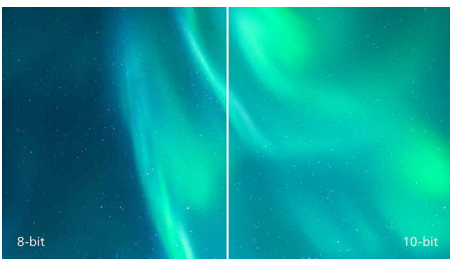- TUV Eye Comfort certified to reduce eye fatigue

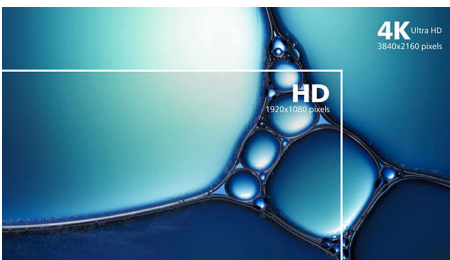**PHILIPS**

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.
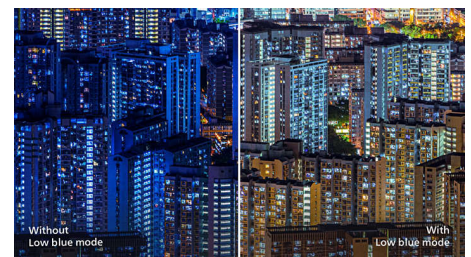
HDMI Ready

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.

IPS Wide Viewing Angle | 4K Ultra HD | SmartImage | DisplayPort | HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE | Flicker-free | LowBlue Mode | EasyRead | Built-in Speaker

Specifications

Connectivity
- Signal Input: DisplayPort 1.4 x 1, HDMI 2.0 x 2
- 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)

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/m²
- Display colours: 1.07B (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
- SmartResponse: 4 ms (Grey to Grey)*

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 8.0, RoHS, EPEAT*, PowerSensor
- 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 10.0, TCO Certified Edge, 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
* The monitor may look different from feature images.
* EPEAT rating is valid only where Philips registers the product. Please visit https://www.epeat.net/ for registration status in your country.