Philips 27B2N4500 (27B2N4500/00)

Philips 27B2N4500 - 4000 Series - LED monitor - 27" - 2560 x 1440 QHD @ 120 Hz - IPS - 350 cd/m² - 1500:1 - 4 ms - 2xHDMI, DisplayPort - speakers - silver, charcoal



The Philips 27B2N4500 is a 27-inch desktop monitor designed to enhance your viewing experience. With a native resolution of 2560 x 1440 and a pixel density of 109 PPI, this display delivers sharp and vibrant images. Featuring a V-Sync rate of 120 Hz and a quick response time of 4 ms, it ensures smooth performance for work or entertainment. The anti-glare screen coating and wide viewing angles of 178 degrees make it easier to view from different positions without compromising clarity.

Key Selling Points

QHD resolution for detailed visuals
Versatile ergonomic adjustments including height, tilt, and swivel
Integrated USB 3.2 Gen 1 hub for easy connectivity
Flicker-Free and Low Blue Light technology for reduced eye strain
EPEAT compliant and ENERGY STAR certified for sustainability

Product Features

Vibrant display quality
With a maximum brightness of 350 cd/m2 and a contrast ratio of 1500:1, images are rendered with great color accuracy and depth, enhancing the overall viewing experience.

Advanced technology support
This monitor supports VESA Adaptive-Sync technology, which ensures smooth and tear-free gaming or video playback, making it suitable for both casual and professional use.

Sustainable design
Constructed with 85% post-consumer recycled plastic and 5% ocean-bound plastic, this monitor promotes functionality while emphasizing a commitment to environmental responsibility.

Comprehensive connectivity options
Equipped with multiple input options including HDMI and DisplayPort, along with a built-in USB 3.2 Gen 1 hub, the monitor facilitates easy connection to various devices.

Ergonomic adjustability
The Smart Ergo base allows for convenient adjustments in height, tilt, and swivel, ensuring comfort during long hours of use and catering to user preferences.

Main specifications

Product Description	*Philips 27B2N4500 - 4000 Series - LED monitor - QHD - 27"*
Device Type	*LED-backlit LCD monitor - 27"*
Energy Label QR Code URL	*Https://eprel.ec.europa.eu/qr/2309622*
Energy Class	*Class C*
Adaptive-Sync Technology	*VESA Adaptive-Sync*
Features	*USB 3.2 Gen 1/USB-C hub*
Panel Type	*IPS*
Aspect Ratio	*16:9*
Native Resolution	*QHD 2560 x 1440 at 120 Hz*
Pixel Pitch	*0.2331 mm*
Brightness	*350 cd/m²*
Contrast Ratio	*1500:1 / 50000000:1 (dynamic)*
Response Time	*4 ms (grey-to-grey)*
Colour Support	*16.7 million colours (8-bit)*
Colour Gamut	*114% NTSC, 125% sRGB*
Input Connectors	*2xHDMI, DisplayPort*
Display Position Adjustments	*Height, pivot (rotation), swivel, tilt*

Screen Coating	*Anti-glare, 3H Hard Coating, Haze 25%*
Voltage	*AC 100-240 V (50/60 Hz)*
Colour	*Silver, charcoal*
Dimensions (WxDxH) - with stand (highest position)	*61.4 cm x 23.1 cm x 43.6 cm*
Weight	*6.79 kg*
Environmental Standards	*TCO Certified Edge Displays, TCO Certified, generation 10, for displays, ENERGY STAR Qualified EPEAT Gold*
Compliant Standards	*Plug and Play, TUV GS, ICES-003, CB, TUV Ergo, PSB, FCC, DDC/CI, RoHS, ETL, MEPS, CEC, EMF, EAC, TUV Rheinland Low Blue Light Certification, BFR-free, PVC-free, EAEU RoHS, UKCA, Eyesafe Certified 2.0*
Manufacturer Warranty	*5-year warranty*

Extended specification

General

Display Type	*LED-backlit LCD monitor / TFT active matrix*
Energy Label QR Code URL	*Https://eprel.ec.europa.eu/qr/2309622*
Energy Class	*Class C*
Diagonal Size	*27"*
Adaptive-Sync Technology	*VESA Adaptive-Sync*
Built-in Devices	*USB 3.2 Gen 1/USB-C hub*
Panel Type	*IPS*
Aspect Ratio	*16:9*
Native Resolution	*QHD 2560 x 1440 at 120 Hz*
Pixel Pitch	*0.2331 mm*
Pixel Per Inch	*109*
Brightness	*350 cd/m²*
Contrast Ratio	*1500:1 / 50000000:1 (dynamic)*
Colour Support	*16.7 million colours (8-bit)*
Colour Gamut	*114% NTSC, 125% sRGB*
Response Time	*4 ms (grey-to-grey)*
Vertical Refresh Rate	*48 - 120 Hz*
Horizontal Refresh Rate	*30 - 190 kHz*
Horizontal Viewing Angle	*178*
Vertical Viewing Angle	*178*
Screen Coating	*Anti-glare, 3H Hard Coating, Haze 25%*
Backlight Technology	*WLED*
OSD Languages	*Hungarian, Czech, Chinese (traditional), Chinese (simplified), Ukrainian, Brazilian Portuguese, English, German, French, Italian, Portuguese, Polish, Finnish, Swedish, Russian, Spanish, Dutch, Greek, Turkish, Japanese, Korean*
Features	*Sync on Green, PowerSensor, SmartImage, Smart Ergo base, integrated cable management, Flicker Free technology, SoftBlue Technology, Adaptive-Sync technology, Wide Viewing Angle, LightSensor, EasyRead, sRGB Mode, Eyesafe 2.0*
Colour	*Silver, charcoal*
Dimensions (WxDxH)	*61.4 cm x 23.1 cm x 43.6 cm - with stand (highest position)*
Weight	*6.79 kg*

Manufacturer Warranty

Service & Support	*Limited warranty - 5 years*

Miscellaneous

Features	*Security lock slot (cable lock sold separately), 100% recyclable packaging, textured finish, 5% ocean bound plastic, 85% post-consumer recycled plastic*
Cables Included	*1 x HDMI cable ¦ 1 x DisplayPort cable*
MTBF	*70,000 hour(s)*
Compliant Standards	*Plug and Play, TUV GS, ICES-003, CB, TUV Ergo, PSB, FCC, DDC/CI, RoHS, ETL, MEPS, CEC, EMF, EAC, TUV Rheinland Low Blue Light Certification, BFR-free, PVC-free, EAEU RoHS, UKCA, Eyesafe Certified 2.0*
Security Slot Type	*Kensington security slot*

Power

Input Voltage	*AC 100-240 V (50/60 Hz)*
Power Consumption SDR (On mode)	*13 kWh/1000h*
Power Consumption (Typical)	*14.94 watt*
Power Consumption Stand by	*0.3 watt*
Power Consumption (Off Mode)	*0.3 watt*

Software / System Requirements

Included Software	*Philips SmartControl*
OS Required	*Apple MacOS, Microsoft Windows 10 / 11*

Environmental Parameters

Min Operating Temperature	*0 °C*
Max Operating Temperature	*40 °C*
Humidity Range Operating	*20 - 80% RH*

Audio

Type	*Speakers - stereo*
Output Power / Channel	*2 watt*

Connectivity

Interfaces	*DisplayPort 1.2 (HDCP 1.4, HDCP 2.2) ¦ 2 x HDMI (HDCP 1.4, HDCP 2.2) ¦ USB 3.2 Gen 1 upstream (Type B) ¦ 2 x USB 3.2 Gen 1 downstream (Type A) ¦ USB 3.2 Gen 1 downstream with Battery Charging 1.2 (Type A) ¦ USB-C 3.2 Gen 1 downstream (data, power up to 15W) ¦ Audio line-out (mini-jack)*

Dimensions & Weight

Dimensions & Weight Details	*With stand (highest position) - width: 61.4 cm - depth: 23.1 cm - height: 43.6 cm - weight: 6.79 kg ¦ Without stand - width: 61.4 cm - depth: 5.9 cm - height: 37.1 cm - weight: 5.05 kg*

Dimensions & Weight (Shipping)

Shipping Width	*73 cm*
Shipping Depth	*13.9 cm*
Shipping Height	*44.5 cm*
Shipping Weight	*9.45 kg*

Mechanical

Display Position Adjustments	*Height, pivot (rotation), swivel, tilt*
Tilt Angle	*-5/+30*
Swivel Angle	*360*
Rotation Angle	*180*
Height Adjustment	*150 mm*
VESA Mounting Interface	*100 x 100 mm*

Sustainability Information

TCO Certified	TCO Certified Edge Displays, TCO Certified, generation 10, for displays
EPEAT Compliant	EPEAT Gold
ENERGY STAR Certified	Yes

What's in the box

Philips 27B2N4500
HDMI cable
DisplayPort cable
Software

Product data is provided by CNET, we do not warrant the accuracy and completeness of the material contained in this data sheet