PHILIPS

LCD monitor

Business Monitor

2000 series

24 (23.8"/60.47 cm diag.)

1920 x 1080 (Full HD)

24B2N2200

Empower daily efficiency

This monitor delivers business efficiency. Not only is it equipped with essential features, but it also has ones that stand out like its 120 Hz refresh rate, SoftBlue, Flicker-Free, VESA mount and more.

Designed for the way you work

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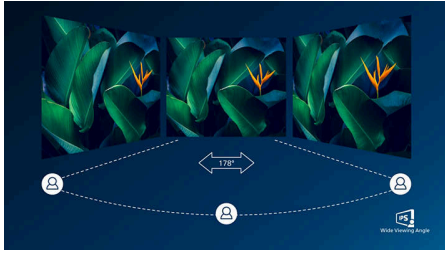
Great performance

- 120 Hz refresh rates for ultra-smooth images
- IPS LED wide view technology for image and colour accuracy
- 16:9 Full HD display for crisp, detailed images

Easy to experience

- VESA mount for convenience
- HDMI ensures universal digital connectivity

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.
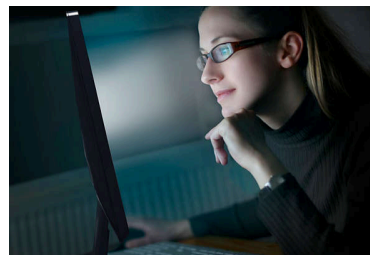
16:9 Full HD display

Picture quality matters. Regular displays deliver quality, but you expect more. This display features enhanced Full HD 1920 x 1080 resolution. With Full HD for crisp detail paired with high brightness, incredible contrast and realistic colours, expect a true-to-life picture.

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 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.
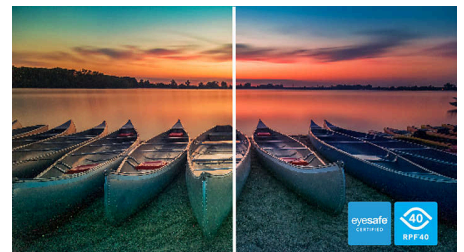
Flicker-Free technology

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

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.

IPS
Wide Viewing Angle

Full HD 1080p

SoftBlue Technology

Flicker-free

EasyRead

eyesafe CERTIFIED RPF'40

Built-in Speaker

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

Highlights

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.
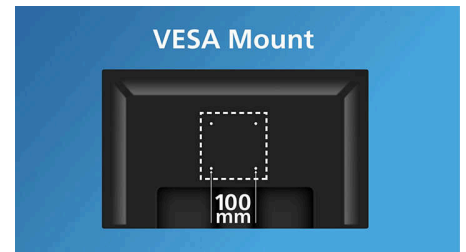
HDMI Ready

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).

VESA mount for convenience

VESA mount for convenience

Specifications

Picture/Display

Panel Size: 23.8 inch/60.47 cm

Aspect ratio: 16:9

LCD panel type: IPS technology

Backlight type: W-LED system

Pixel pitch: 0.2745 (H) mm x 0.2745 (V) mm

Brightness: 300 cd/m²

Display colours: 16.7 M (8 bits)

Colour gamut (typical): NTSC 96%*, sRGB 110%*

Contrast ratio (typical): 1500:1

SmartContrast: 50,000,000:1

Response time (typical): 4 ms (Grey to Grey)*

Viewing angle: 178º (H)/178º (V), @ C/R > 10

Picture enhancement: SmartImage

Maximum resolution: VGA: 1920 x 1080 @ 75 Hz; HDMI/DP: 1920 x 1080 @ 120 Hz.

Effective viewing area: 527.04 (H) x 296.46 (V) mm

Scanning Frequency: VGA: 30 kHz - 85 kHz (H)/48 Hz - 75 Hz (V); HDMI/DP: 30 kHz - 140 kHz (H)/48 - 120 Hz (V)

sRGB

SoftBlue

Flicker-free

Pixel Density: 93 PPI

Display Screen Coating: Anti-Glare, 3H, Haze 25%

EasyRead

Adaptive sync

EyeSafe

Connectivity

Signal Input: VGA X 1, HDMI1.4 X1, DP 1.2 x 1

Sync Input: Separate Sync, Sync on Green

Audio (In/Out): Audio out, Audio-in

HDCP: HDCP 1.4 (HDMI/DP)

Convenience

Built-in Speakers: 2 W x 2

Plug and Play Compatibility: DDC/CI, Mac OS X, 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

Tilt: -5/25 degree

Power

ECO mode: 8.2 W (typ.)

Power supply: Built-in, 100–240 VAC, 50–60 Hz

Off mode: 0.3 W (typ.)

On mode: 11.42 W (typ.) (Energy Star test method)

Standby mode: 0.3 W (typ.)

Power LED indicator: Operation - White, Standby mode - White (flashing)

Energy Label Class: B

Dimensions

Packaging in mm (W x H x D): 600 x 420 x 123 mm

Product without stand (mm): 542 x 320 x 46 mm

Product with stand (max height): 542 x 425 x 181 mm

Weight

Product with packaging (kg): 4.90 kg

Product with stand (kg): 2.91 kg

Product without stand (kg): 2.63 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, EPEAT*, RoHS

Post-consumer recycled plastic: 85%

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, TCO Certified Edge, EAC, EAC ROHS, MEPS, PSB, UKCA, EMF, FCC, ICES-003, TÜV Rheinland Low Blue Light (Hardware Solution), eyesafe® CERTIFIED 2.0

Cabinet

Finish: Texture

Foot: Black

Front bezel: Black

Rear cover: Black

PHILIPS

* Response time value equal to SmartResponse.

* sRGB Area based on CIE1931, NTSC Area based on CIE1976.

* 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.