

PHILIPS

LCD monitor

Business Monitor

2000 series

24 (23.8" / 60.47 cm diag.)

1920 x 1080 (Full HD)

24B2N2100A



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 100hz 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 color accuracy
- D-Mode: Optimized for subtle grayscale perception
- SoftBlue Technology: for comfortable viewing
- Less eye fatigue with Flicker-free technology
- EasyRead mode for a paper-like reading experience

Easy to experience

- VESA mount for convenience
- HDMI ensures universal digital connectivity

Superb Picture Quality

- 120Hz refresh rates for ultra-smooth images

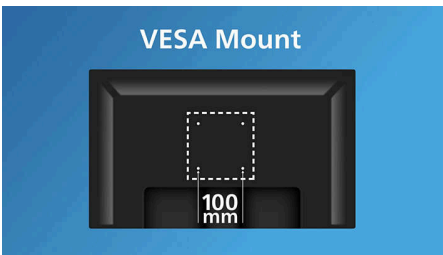
Highlights

Built-in stereo speakers



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

VESA mount for convenience



Industry-standard VESA mounting holes ensure compatibility with most small form factor PCs and thin clients.

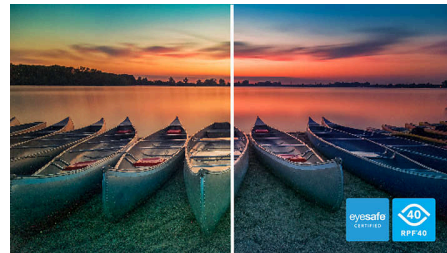
120Hz Fast refresh



The smoother the motion, the less strain on your eyes. This Philips monitor is equipped with an improved 120Hz refresh rate. Whenever you

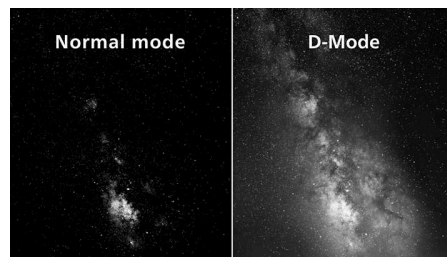
scroll, switch between applications, or navigate complex spreadsheets, you experience smoother and more precise movements. That means you can work as long as you need with minimal visual fatigue—all while increasing the speed of your workflow.

eyesafe® CERTIFIED 2.0 (RPF 40)



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

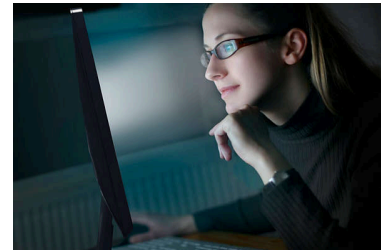
D-Mode



Reveal every hidden detail in the dark-toned areas of your display. D-Mode enhances grayscale detail to make subtle tonal differences easier to see. Based on the grayscale 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 grayscale content such as technical illustrations, scans, and other high-detail imagery.

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 400-500nm is reduced to less than 50%. As a result, the SoftBlue technology provides optimal visual comfort, minimizes 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.



Highlights

HDMI Ready



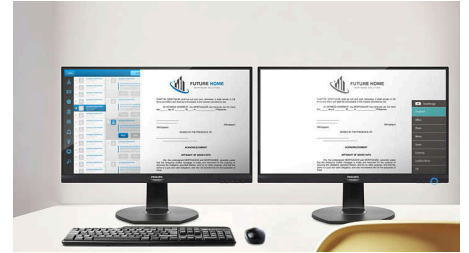
An HDMI-ready device has all the required hardware to accept High-Definition Multimedia Interface (HDMI) input. A HDMI cable enables high-quality digital video and audio all transmitted over a single cable from a PC or any number of AV sources (including set-top boxes, DVD players, A/V receivers and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

EasyRead mode



Experience improved comfort and readability when reading long, text-heavy documents. EasyRead Mode creates a paper-like viewing experience that's gentler on your eyes by adjusting your display's colors and zoom levels which simulate the feeling of reading on real paper—right on your digital display.

Specifications

Picture/Display

Panel Size: 23.8 inch/ 60.47 cm
Aspect ratio: 16:9
LCD panel type: IPS
Backlight type: W-LED system
Pixel pitch: 0.2745(H)mm x 0.2745(V)mm
Brightness: 350 cd/m²
Display colors: 16.7 M (8 bit)
Color gamut (typical): NTSC 96%*, sRGB 110%*
Contrast ratio (typical): 1500:1
SmartContrast: 50,000,000:1
Response time (typical): 4 ms (Gray to Gray)*
Viewing angle: 178° (H) / 178° (V), @ C/R > 10
Picture enhancement: SmartImage
Maximum resolution: VGA: 1920x1080@75Hz;
HDMI: 1920x1080@100Hz
Effective viewing area: 527.04(H)x296.46(V) mm
Scanning Frequency: HDMI: 30 - 140 kHz (H) / 48 - 120 Hz (V); VGA: 30 - 85 kHz (H) / 48 - 75 Hz (V)
sRGB
SoftBlue
Flicker-free
Pixel Density: 93 PPI
Display Screen Coating: Anti-Glare, 3H, Haze 25%
EasyRead
Adaptive sync (VRR)
EyeSafe

Connectivity

Signal Input: HDMI 1.4 x 1, VGA x 1
Sync Input: Separate Sync, Sync on Green
Audio (In/Out): Headphone out
HDCP: HDCP 1.4 (HDMI)

Convenience

Built-in Speakers: 2W x 2
Plug & 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 (100x100mm)
Control software: SmartControl

Power

ECO mode: 8.33 W (typ.)
Power supply: Built-in, 100-240VAC, 50-60Hz
Off mode: 0.3 W
On mode: 16.5 W (typ.)
Standby mode: 0.3 W
Power LED indicator: Operation - White, Standby mode- White (blinking)

Dimensions

Packaging in mm (WxHxD): 650 x 420 x 124 mm
Product without stand (mm): 544 x 331 x 48 mm
Product with stand(max height): 544 x 426 x 181 mm

Weight

Product with packaging (kg): 4.979 kg
Product with stand (kg): 2.86 kg
Product without stand (kg): 2.59 kg

Operating conditions

Altitude: Operation: +12,000ft (3,658m), Non-operation: +40,000ft (12,192m)
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: EnergyStar 8.0, 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, WEEE, South Africa Energy, PSE, PSB, VCCI, UKCA, FCC, ICES-003, eyesafe® CERTIFIED 2.0, TÜV Rheinland Low Blue Light (Hardware Solution)

Cabinet

Finish: Texture
Front bezel: Black
Rear cover: Black

What's in the box?

Monitor with stand
User Documentation



* Response time value equal to SmartResponse
* sRGB Coverage 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.
* The cable(s) supplied with the product may vary in type, quantity, and specifications in line with country- or region-specific requirements.