

# PHILIPS

## LCD monitor

### Business Monitor

3000 series

24 (23.8" / 60.47 cm diag.)

1920 x 1080 (Full HD)

24B2N3200JH



## Redefining workflow productivity

Speed through daily tasks in comfort with this monitor's SoftBlue technology and 120 Hz refresh rate. Productivity-enhancing features like USB-C and the adjustable webcam with Windows Hello deliver the performance and convenience you expect.

### Designed for the way you work

- Built-in stereo speakers for multimedia
- Smart Link Sync: Matches primary display on second screen
- Windows Hello Compatible – Seamless, Secure Access
- D-Mode: Optimised for subtle greyscale perception
- Eyesafe-certified blue light protection and colour accuracy
- Adjustable Webcam: for video conferencing in comfort.
- SoftBlue Technology: for comfortable viewing

### Easy to experience

- VESA mount for convenience
- HDMI ensures universal digital connectivity

### Superb Picture Quality

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

# 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.

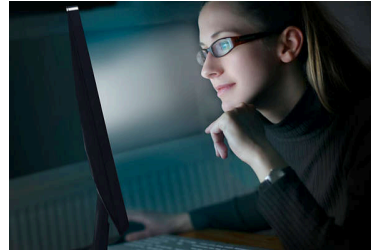
## 120 Hz fast refresh



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

## SoftBlue Technology with Low Blue Light Panel



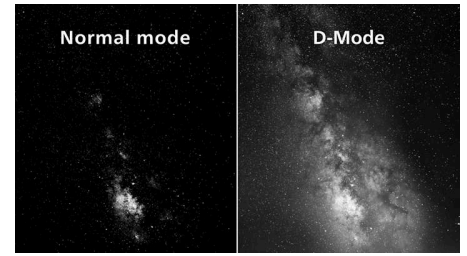
SoftBlue technology offers increased visual comfort and protection against adverse health effects caused by prolonged exposure to blue light. With the low blue-light panel, the ratio of display emission light in the range of 415-455 nm to 400-500 nm is reduced to less than 50%. As a result, the SoftBlue 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.

## 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.

## D-Mode



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

## eyesafe® CERTIFIED 2.0 (RPF 50)



The Philips display meets the eyesafe® CERTIFIED 2.0 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.



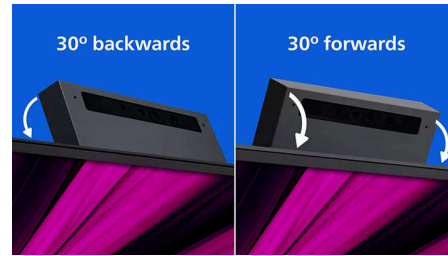
## Highlights

### Smart Link Sync Second Screen Harmony



When connected as a secondary monitor in a daisy-chain setup with a Smart Link Sync enabled primary display, brightness and colour settings are automatically synchronised. There is no manual adjustments needed. Whether you're designing, presenting or multitasking, enjoy seamless visual consistency across screens. Choose from OSD Sync or Light Sync modes (Low, Mid or High) in the primary monitor to match your environment.

### Adjustable webcam



Level up the comfort of video conferencing with this feature. By adjusting the webcam back and forth by 30 degrees, users can now comfortably call and attend meetings from any position that best suits them.

### Windows Hello Compatible



Log in faster and more securely with Windows Hello. The webcam on this Philips monitor is compatible with Windows Hello, offering quick facial recognition and effortless access - every time you power on.

### 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).

# 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:** 350 cd/m<sup>2</sup>  
**Display colours:** 16.7 M (8 bits)  
**Colour gamut (typical):** sRGB 110%, NTSC 96%.\*  
**Contrast ratio (typical):** 1500:1  
**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  
**Maximum resolution:** 1920 x 1080 @ 75 Hz (VGA), 1920 x 1080 @ 120 Hz (HDMI/DP)  
**Effective viewing area:** 527.04 (H) x 296.46 (V) mm  
**Scanning Frequency:** VGA: 30–85 kHz (H)/48–75 Hz; HDMI/DP: 30–140 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 (VRR)**  
**EyeSafe**  
**Smart Link Sync:** When used as a secondary monitor only\*  
**DICOM (D-mode)**

## Connectivity

**Signal Input:** VGA x 1, HDMI 1.4 x 1, DisplayPort 1.2 x 1  
**Sync Input:** Separate Sync, Sync on Green  
**Audio (In/Out):** Audio out  
**Audio (In/Out):** Audio-in  
**HDCP:** HDCP 1.4 (HDMI/DisplayPort)  
**USB Hub:** USB3.2, Gen1, 5G, upstream: 1 x USB-B; downstream: USB-A x 3 (with x 1 fast charge B.C 1.2), USB-C x 1 (data, 15 W)

## 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\*  
**Built-in webcam:** 5.0 megapixel camera with microphone and LED indicator (for Windows Hello)  
**Webcam tilt function:** Yes, +/-30 degree

## Stand

**Height adjustment:** 150 mm  
**Pivot:** +/-90 degree  
**Swivel:** +/- 180 degree  
**Tilt:** -5/30 degree

## Power

**ECO mode:** 7.6 W (typ.)  
**Power supply:** Built-in, 100–240 VAC, 50–60 Hz  
**Off mode:** 0.3 W (typ.)  
**On mode:** 13.09 (typ.) (EnergyStar test method)  
**Standby mode:** 0.3 W (typ.)  
**Power LED indicator:** Operation - White, Standby mode - White (flashing)  
**Energy Label Class:** C

## Dimensions

**Packaging in mm (W x H x D):**  
 615 x 420 x 139 mm  
**Product without stand (mm):** 542 x 320 x 48 mm  
**Product with stand (max height):**  
 542 x 449 x 228 mm

## Weight

**Product with packaging (kg):** 7.73 kg  
**Product with stand (kg):** 5.59 kg  
**Product without stand (kg):** 3.93 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:** RoHS, Energy Star, EPEAT\*  
**Post-consumer recycled plastic:** 85%  
**Recyclable packaging material:** 100 %  
**Specific Substances:** PVC/BFR free housing, Mercury free

## Compliance and standards

**Regulatory Approvals:** CB, CE Mark, TUV/GS, TUV Ergo, TCO Certified, EAC, EAC ROHS, MEPS, 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

## What's in the box?

**Cables:** HDMI cable, DP cable and Power cable  
**Monitor with stand**  
**User Documentation**



\* Response time value equal to SmartResponse  
 \* sRGB Area based on CIE1931, NTSC Area based on CIE1976.  
 \* The SmartControl software is compatible with Windows operating systems only.  
 \* This monitor supports Smart Link Sync only when used as a secondary monitor in a daisy-chain configuration, connected to a primary monitor that also supports Smart Link Sync.  
 \* 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.