

Philips Business Monitor  
LCD monitor with  
Windows Hello Webcam

## B Line

24 (23.8"/60.5 cm diag.)  
1920 x 1080 (Full HD)

242B1H



# Clear vision to get more done

This Philips monitor with a secure pop-up webcam with Windows Hello offers personalised and greater security. Loaded with features to improve productivity and sustainability. Eye comfort features with TUV certified to reduce eye fatigue.

### Excellent performance

- IPS technology for full colours and wide viewing angles
- SmartImage pre-sets for easy optimised image settings
- Securely sign in with pop-up webcam with Windows Hello™
- Effortlessly smooth action with Adaptive-Sync technology

### Designed for the way you work

- Built-in stereo speakers for multimedia
- SmartErgoBase enables user-friendly ergonomic adjustments
- 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

### Designed for sustainability

- LightSensor for the perfect brightness with minimal power
- PowerSensor saves up to 70% energy costs

# PHILIPS

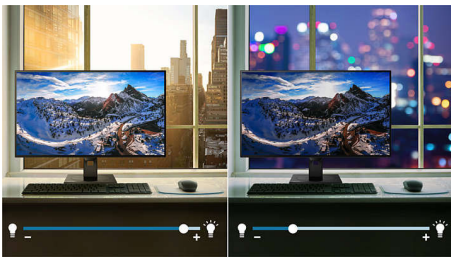
# Highlights

## PowerSensor



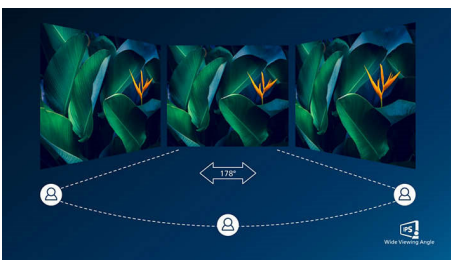
PowerSensor is a built-in 'people sensor' that transmits and receives harmless infrared signals to determine if the user is present and automatically reduces monitor brightness when the user steps away from the desk, cutting energy costs by up to 70 percent and prolonging monitor life.

## LightSensor



LightSensor uses a smart sensor to adjust the picture brightness depending on the light conditions in the room for the perfect picture with minimal power usage.

## 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

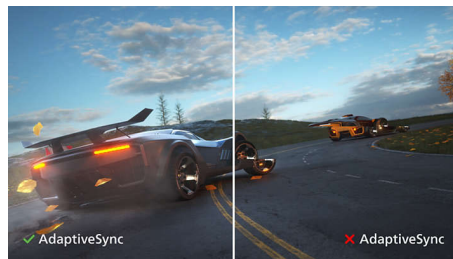
from almost any angle — even in 90-degree Pivot mode! Unlike standard TN panels, IPS displays gives you remarkably crisp images with vivid colours, making it ideal not only for Photos, films and web browsing, but also for professional applications that demand colour accuracy and consistent brightness at all times.

## 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!

## Adaptive-Sync technology



Gaming shouldn't be a choice between choppy gameplay or broken frames. Get fluid, artefact-free performance at virtually any frame rate

with Adaptive-Sync technology, smooth quick refresh and ultra-fast response time.

## Windows Hello™ pop-up webcam



Philips' innovative and secure webcam pops up when you need it and securely tucks back into the monitor when you are not using it. The webcam is also equipped with advanced sensors for Windows Hello™ facial recognition, which conveniently logs you into your Windows devices in less than 2 seconds, 3 times faster than a password.

## TUV Rheinland Eye Comfort



Philips displays meet TUV Rheinland Eye Comfort standard to prevent eye strain caused by prolonged computer use. With TUV Eye Comfort certification, Philips displays ensure flicker-free, low-blue mode, no disturbing reflections, a wide viewing angle, less reduction of image quality from different angles and ergonomic stand designs for an ideal viewing experience. Keep your eyes healthy and boost work productivity.



# Specifications

## Connectivity

- Signal Input: VGA (Analogue), DVI-D (digital, HDCP), DisplayPort 1.2, HDMI 1.4 x 1
- Sync Input: Separate Sync, Sync on Green
- Audio (In/Out): PC audio-in, Headphone out
- USB:: USB-B x 1 (upstream), USB 3.2 x 3 (downstream with 1 fast charge B.C 1.2)
- HDCP: HDCP 1.4 (DVI/DP/HDMI)

## Picture/Display

- Panel Size: 23.8 inch/60.5 cm
- Aspect ratio: 16:9
- LCD panel type: IPS technology
- Backlight type: W-LED system
- Pixel pitch: 0.2745 x 0.2745 mm
- Brightness: 300 cd/m<sup>2</sup>
- Display colours: 16.7 M
- Colour gamut (typical): NTSC 91%\*, sRGB 107%\*
- 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
- Maximum resolution: 1920 x 1080 @ 75 Hz\*
- Effective viewing area: 527.04 (H) x 296.46 (V)
- Scanning Frequency: 30–85 kHz (H) / 48–75 Hz (V)
- sRGB
- Flicker-free
- Pixel Density: 93 PPI
- LowBlue Mode
- Display Screen Coating: Anti-Glare, 3H, Haze 25%
- EasyRead
- Adaptive sync

## Convenience

- Built-in Speakers: 2W x 2
- Plug and Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 11 / 10 / 8.1 / 8 / 7
- User convenience: SmartImage, Input, PowerSensor, Menu, Power On/Off
- OSD Languages: Brazil Portuguese, Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, 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: Pop-up 2.0 megapixel FHD camera with microphone and LED indicator (for Windows 10 Hello)

## Stand

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

## Power

- ECO mode: 10.9 W (typ.)
- Power supply: Built-in, 100–240 VAC, 50–60 Hz
- Off mode: Zero watts with Zero switch
- On mode: 14.5 W (typ.) (EnergyStar test method)
- Standby mode: 0.35 W
- Power LED indicator: Operation - White, Standby mode - White (flashing)
- Energy Label Class: D

## Dimensions

- Packaging in mm (W x H x D): 730 x 450 x 139 mm
- Product without stand (mm): 540 x 323 x 51 mm
- Product with stand (max height): 540 x 501 x 205 mm

## Weight

- Product with packaging (kg): 7.66 kg
- Product with stand (kg): 4.77 kg
- Product without stand (kg): 3.17 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: EnergyStar 8.0, PowerSensor, LightSensor, EPEAT\*, TCO Certified Edge, RoHS
- Post-consumer recycled plastic: 85%
- Recyclable packaging material: 100 %
- Specific Substances: PVC/BFR free housing, Mercury free

## Compliance and standards

- Regulatory Approvals: CE Mark, FCC Class B, CU-EAC, TUV Ergo, TUV/GS, ICES-003, CB, CCC, CECP, CEL, UKRAINIAN, TUV Eye Comfort certified

## Cabinet

- Finish: Texture
- Foot: Black
- Front bezel: Black
- Rear cover: Black

## What's in the box?

- Cables: VGA cable, HDMI cable, DP cable, USB-A to B cable, Audio cable, Power cable
- Monitor with stand
- User Documentation



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\* "IPS" word mark / trademark and related patents on technologies belong to their respective owners.  
\* The maximum resolution works for either HDMI input or DP input.  
\* Response time value equal to SmartResponse  
\* NTSC Area based on CIE 1976  
\* sRGB Area based on CIE1931  
\* Fast charging complies with USB BC 1.2 standard  
\* 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.