

Philips 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.

# **Designed for sustainability**

- · Designed to meet environmental standards
- PowerSensor saves up to 70% energy costs
- · LightSensor for the perfect brightness with minimal power

### **Excellent performance**

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

# Designed for the way you work

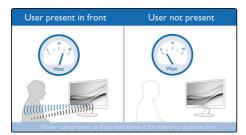
- TUV Eye Comfort certified to reduce eye fatigue
- · Less eye fatigue with Flicker-Free technology
- LowBlue Mode for easy-on-the-eyes productivity
- · EasyRead mode for a paper-like reading experience
- SmartErgoBase enables user-friendly ergonomic adjustments





# 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**







With SmartImage

ith VVitho Image Smartlr

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



Phillips' 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.

### 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.



















# Specifications

#### Picture/Display

- LCD panel type: IPS technology
- · Backlight type: W-LED system
- Panel Size: 23.8 inch/60.5 cm
- Display Screen Coating: Anti-Glare, 3H, Haze 25%
  Effective viewing area: 527.04 (H) x 296.46 (V)
- · Aspect ratio: 16:9
- Maximum resolution: 1920 x 1080 @ 75 Hz\*
- Pixel Density: 93 PPI
- Response time (typical): 4 ms (Grey to Grey)\*
- Brightness: 250 cd/m<sup>2</sup>
- Contrast ratio (typical): 1000:1
- SmartContrast: 50,000,000:1
- Pixel pitch: 0.2745 x 0.2745 mm
- Viewing angle: 178° (H)/178° (V), @ C/R > 10
- Picture enhancement: SmartImage
- Colour gamut (typical): NTSC 91%\*, sRGB 107%\*
- Display colours: 16.7 M
- Scanning Frequency: 30–85 kHz (H) / 48–75 Hz (V)
- sRGB
- · Flicker-free
- EasyRead
- · LowBlue Mode
- · Adaptive sync

#### Connectivity

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

#### **Convenience**

- Built-in Speakers: 2 W x 2
- · Built-in webcam: 2.0 megapixel FHD camera with microphone and LED indicator (for Windows 10 Hello)
- User convenience: SmartImage, Input, PowerSensor, Menu, Power On/Off
- · Control software: SmartControl
- · 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  $(100 \times 100 \text{ mm})$
- Plug and Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 10 / 8.1 / 8 / 7

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

#### **Power**

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

#### **Dimensions**

- Product with stand (max height): 540 x 501 x
- Product without stand (mm): 540 x 323 x 51 mm
- Packaging in mm (W  $\times$  H  $\times$  D): 600  $\times$  465  $\times$  198 mm

### Weight

- · Product with stand (kg): 4.77 kg
- Product without stand (kg): 3.17 kg
- Product with packaging (kg): 7.04 kg

# **Operating conditions**

- Temperature range (operation): 0°C to 40°C °C
- Temperature range (storage): -20°C to 60°C °C
- Relative humidity: 20%-80% %
- Altitude: Operation: +12,000 ft (3658 m), Nonoperation: +40,000 ft (12,192 m)
- MTBF (demonstrated): 70,000 hrs (excluded backlight)

#### Sustainability

- Environmental and energy: EnergyStar 8.0, PowerSensor, LightSensor, EPEAT\*, TCO Certified Edge, RoHS
- $\bullet$  Recyclable packaging material: 100 %
- Post-consumer recycled plastic: 85%
- · Specific Substances: PVC/BFR free housing, Mercury free, Lead free

### Compliance and standards

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

### Cabinet

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

# What's in the box?

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



Issue date 2020-08-07

Version: 3.1.1

12 NC: 8670 001 65113 EAN: 87 12581 76423 4 © 2020 Koninklijke Philips N.V. All Rights reserved.

Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips N.V. or their respective owners.

www.philips.com

- \* "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 CIE 1931
- \* SKGB Area based on CIE 1931
  \* 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.