

Philips  
LCD monitor with  
PowerSensor

## B Line

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

242B1



# Clear vision to get more done

Get your best work done with this Philips monitor. IPS screen with crisp FHD gives you the clarity to see your work. 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

### Designed for the way you work

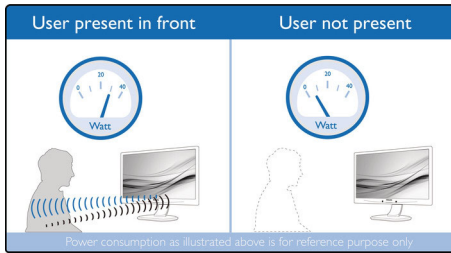
- TUV Eye Comfort certified to reduce eye fatigue
- Less eye fatigue with Flicker-Free technology
- LowBlue Mode for easy-on-the-eyes productivity
- EasyRead mode for a paper-like reading experience
- SmartErgoBase enables user-friendly ergonomic adjustments
- Built-in stereo speakers for multimedia



# PHILIPS

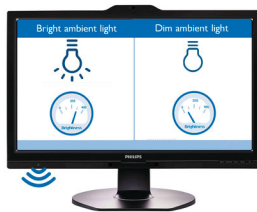
# Highlights

## PowerSensor



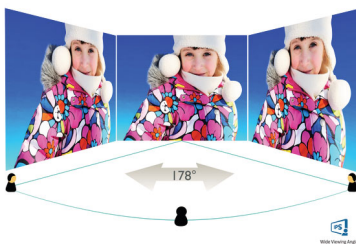
PowerSensor is a built-in 'people sensor' that transmits and receives harmless infrared signals to determine if the user is present and automatically reduces monitor brightness when the user steps away from the desk, cutting energy costs by up to 70 percent and prolonging monitor life.

## 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.

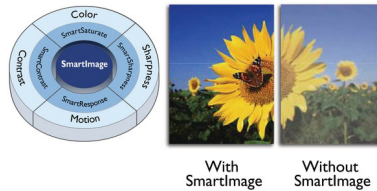
## IPS technology



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

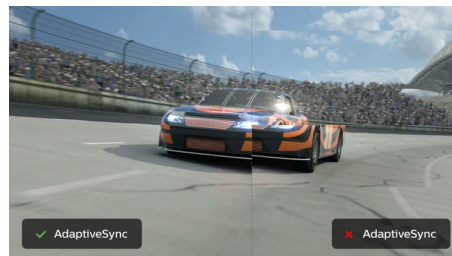
professional applications that demand colour accuracy and consistent brightness at all times.

## 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.

## 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.

## LowBlue Mode



Studies have shown that just as ultra-violet rays can cause eye damage, shortwave-length blue light rays from LED displays can cause eye damage and affect vision over time. Developed for wellbeing, the Philips LowBlue Mode setting uses a smart software technology to reduce harmful shortwave blue light.

## EasyRead mode



EasyRead mode for a paper-like reading experience



# Specifications

## Picture/Display

- LCD panel type: IPS technology
- Adaptive sync
- 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

## 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 4 (downstream with 1 fast charge B.C 1.2)
- Audio (In/Out): PC audio-in, Headphone out

## Convenience

- Built-in Speakers: 2 W x 2
- 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 x 100 mm)
- Plug and Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 10 / 8.1 / 8 / 7

## Stand

- Height adjustment: 150 mm
- Pivot: -/+ 90 degree
- Swivel: -/+ 180 degree
- Tilt: -5 ~ 35 degree

## Power

- ECO mode: 10.4 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: E
- 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 205 mm
- Product without stand (mm): 540 x 323 x 51 mm
- Packaging in mm (W x H x D): 600 x 465 x 198 mm

## Weight

- Product with stand (kg): 4.57 kg
- Product without stand (kg): 2.99 kg
- Product with packaging (kg): 6.74 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), Non-operation: +40,000 ft (12,192 m)
- MTBF (demonstrated): 70,000 hrs (excluded backlight)

## Sustainability

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

## Compliance and standards

- Regulatory Approvals: CB, EPA, FCC Class B, ICES-003, CE Mark, TUV Ergo, TUV/GS, SEMKO, CU-EAC, CCC, CECP, CEL, UKRAINIAN, TUV Eye 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, Audio cable, Power cable
- User Documentation



Issue date 2021-03-16

Version: 3.0.1

12 NC: 8670 001 65111  
EAN: 87 12581 76421 0

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or their respective owners.

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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.