

LCD monitor with PowerSensor



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

242B1/89

Clear vision to get more done

Get your best work done with this Philips monitor. IPS screen with crisp FHD gives the clarity to see your work. Loaded with features to improve productivity and sustainability. Eye comfort features with TUV certified to reduce eye fatigue.

Benefits

Designed for sustainability

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

Excellent performance

- IPS technology for full colors and wide viewing angles
- SmartImage presets for easy optimized image settings
- Effortlessly smooth action with Adaptive-Sync technology

Designed for the way you work

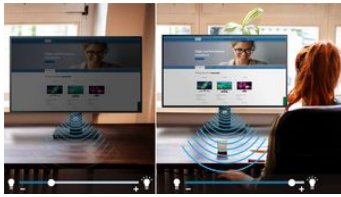
- TUV Eye Comfort certified to reduce eye fatigue
- Less eye fatigue with Flicker-free technology
- LowBlue Mode for easy on-the-eyes productivity
- EasyRead mode for a paper-like reading experience
- SmartErgoBase enables people-friendly ergonomic adjustments
- Built-in stereo speakers for multimedia



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Features

PowerSensor



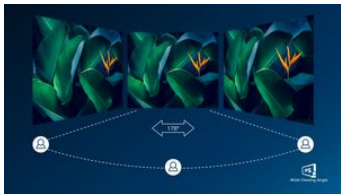
PowerSensor is a built-in 'people sensor' that transmits and receives harmless infrared signals to determine if user is present and automatically reduces monitor brightness when user steps away from the desk, cutting energy costs by up to 70 percent and prolonging monitor life.

LightSensor



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

IPS technology



IPS displays use an advanced technology which gives you extra wide viewing angles of 178/178 degree, 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 colors, making it ideal not only for Photos, movies and web browsing, but also for professional applications which demand color accuracy and consistent brightness at all times.

SmartImage



SmartImage is an exclusive leading edge Philips technology that analyzes the content displayed on your screen and gives you optimized 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 optimizes the contrast, color saturation and sharpness of images and videos for ultimate display performance. The Economy mode option offers you major power savings. All in real time with the press of a single button!

Adaptive-Sync technology



Gaming shouldn't be a choice between choppy gameplay or broken frames. Get fluid, artifact-free performance at virtually any framerate with Adaptive-Sync technology, smooth quick refresh and ultra-fast response time.

TUV Rheinland Eye Comfort



Philips display 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, wide viewing angle and less reduction of image quality from different angles and ergonomic stand designs for 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, Philips LowBlue Mode setting uses a smart software technology to reduce harmful shortwave blue light.

EasyRead mode



Business Monitor

SmartErgoBase



The SmartErgoBase is a monitor base that delivers ergonomic display comfort and provides cable management. The base can swivel, tilt and rotate to various angles to ensure maximum comfort. The height adjustable stand guarantees the optimal viewing level, reducing the physical strains of a long workday, while cable management reduces cable clutter and keeps the workspace neat and professional.

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.

Specifications

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Picture/Display

| | |
|--------------------------|-----------------------------------|
| LCD panel type | IPS technology |
| Backlight type | W-LED system |
| Panel Size | 23.8 inch / 60.5 cm |
| Display Screen | Anti-Glare, 3H, Haze 25% |
| Coating | |
| Effective viewing area | 527.04 (H) x 296.46 (V) |
| Aspect ratio | 16:9 |
| Maximum resolution | 1920 x 1080 @ 75Hz* |
| Pixel Density | 93 PPI |
| Response time (typical) | 4 ms (Gray to Gray)* |
| Brightness | 250 cd/m² |
| 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 |
| Color gamut (typical) | NTSC 91%*, sRGB 107%* |
| Display colors | 16.7M |
| Scanning Frequency | 30 - 85 kHz (H) / 48 - 75 Hz (V) |
| sRGB | Yes |
| Flicker-free | Yes |
| EasyRead | Yes |
| LowBlue Mode | Yes |
| Adaptive sync | Yes |

Connectivity

| | |
|----------------|---|
| Signal Input | VGA (Analog) 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 |

Designed for sustainability

Designed for sustainability, and reduced operating costs, this monitor meets environmental standards. Such as: ENERGY STAR, EPEAT, TCO Certified. For more information on certification, please visit: ENERGY STAR: <https://www.energystar.gov/> EPEAT: <https://www.epeat.net/> TCO Certified: <https://tcocertified.com/>

Convenience

| | |
|---------------------------|--|
| Built-in Speakers | 2 W x 2 |
| User convenience | SmartImage Input PowerSensor Menu Power On/Off SmartControl Brazil Portuguese Czech Dutch English Finnish French German Greek Hungarian Italian Japanese Korean Polish Portuguese Russian Simplified Chinese Spanish Swedish Traditional Chinese Turkish Ukrainian |
| Control software | |
| OSD Languages | |
| Other convenience | Kensington lock VESA mount (100x100mm) |
| Plug & Play Compatibility | DDC/CI Mac OS X sRGB Windows 11 / 10 / 8.1 / 8 / 7 |

Stand

| | |
|-------------------|----------------|
| Height adjustment | 150 mm |
| Pivot | -/+ 90 degree |
| Swivel | -/+ 180 degree |

Business Monitor

| | | | |
|--------------------------------|---|--------------------------------|---------------------------------|
| Tilt | -5 ~ 35 degree | MTBF (demonstrated) | 70,000 hrs (excluded backlight) |
| Power | | Sustainability | |
| ECO mode | 10.4 W (typ.) | Environmental and energy | PowerSensor |
| On mode | 14.5 W (typ.) (EnergyStar test method) | | LightSensor |
| Standby mode | 0.35 W | | EnergyStar 8.0 |
| Off mode | Zero watts with Zero switch | | EPEAT* |
| Power LED indicator | Operation - White | Recyclable packaging material | RoHS |
| | Standby mode- White (blinking) | | TCO Certified Edge |
| Power supply | Built-in | | 100 % |
| | 100-240VAC, 50-60Hz | | |
| Dimensions | | Post consumer recycled plastic | 85% |
| Product with stand(max height) | 540 x 501 x 205 mm | Specific Substances | PVC / BFR free housing |
| Product without stand (mm) | 540 x 323 x 51 mm | | Mercury free |
| Packaging in mm (WxHxD) | 730 x 450 x 139 mm | Compliance and standards | |
| | | Regulatory Approvals | CB |
| | | | FCC Class B |
| | | | ICES-003 |
| | | | CE Mark |
| | | | TUV Ergo |
| | | | TUV/GS |
| | | | CU-EAC |
| | | | UKRAINIAN |
| | | | TUV Eye Comfort certified |
| | | Cabinet | |
| | | Front bezel | Black |
| | | Rear cover | Black |
| | | Foot | Black |
| | | Finish | Texture |
| Operating conditions | | | |
| Temperature range (operation) | 0°C to 40 °C | | |
| Temperature range (storage) | -20°C to 60 °C | | |
| Relative humidity | 20%-80 % | | |
| Altitude | Operation: +12,000ft (3,658m), Non-operation: +40,000ft (12,192m) | | |

* "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 CIE1976

* 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.



data subject to change
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