

PHILIPS

LCD monitor with super
energy efficiency

B Line

24 (23.8" / 60.5 cm diag.)

1920 x 1080 (Full HD)

242B1G



Super energy-efficient with brilliant performance

The eco-friendly Philips 24" monitor is designed for sustainable productivity. Super energy efficient design delivers a new level of power savings. PowerSensor and LightSensor further reduce energy use while delivering crisp visuals.

Brilliant performance

- IPS technology for full colors and wide viewing angles
- LowBlue Mode for easy on-the-eyes productivity

Eco-friendly materials for sustainability

- 100% Recyclable packing material
- Eco-friendly materials meet major international standards
- Low halogen design to minimize environmental impact

Energy efficiency - Eco-conscious power savings

- PowerSensor saves up to 80% energy costs
- Super energy efficient design for maximum power savings
- Zero power consumption with 0 watt hard switch
- LightSensor for the perfect brightness with minimal power

Designed for comfortable productivity

- TUV Eye Comfort certified to reduce eye fatigue

Highlights

Super energy efficient design



Using new energy saving design with a super-efficient power supply, this monitor achieves a higher energy class, while giving excellent performance. Power efficient feature uses a new LED backlight technology which maintains brightness and color using significantly less energy; makes a big difference when using many monitors or even just one.

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 80 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.

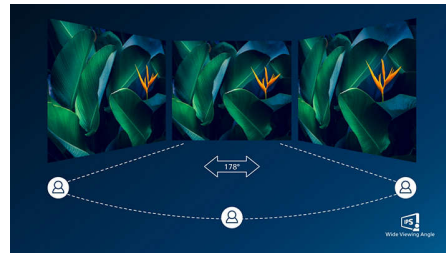
Zero power consumption

At the flick of the 0 watt hard switch which is conveniently located at the back, you can completely cut-off your monitor from AC power. This results in zero power consumption reducing your carbon footprint even further

Eco-friendly materials

Philips is committed to use sustainable, eco-friendly materials across its monitor range. All body plastic parts, metal chassis parts and packing materials use 100% recyclable materials. In selected models we utilize up to 85% post-consumer recycled plastics. Strict adherence to RoHS standards ensures substantial reduction or elimination of toxic substances.

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.

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.

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.



Specifications

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: 250 cd/m²
Display colors: 16.7M
Color gamut (typical): NTSC 78%*, sRGB 102%*
Contrast ratio (typical): 1000:1
SmartContrast: 50,000,000:1
Response time (typical): 4 ms (Gray to Gray)*
Viewing angle: 178° (H) / 178° (V), @ C/R > 10
Picture enhancement: SmartImage
Maximum resolution: 1920 x 1080 @ 75Hz*
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

Connectivity

Signal Input: VGA (Analog), 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, Audio out
USB:: USB-B x 1 (upstream), USB 3.2 x 4 (downstream with 1 fast charge B.C 1.2)
HDCP: HDCP 1.4 (DVI/DP/HDMI)

Convenience

Built-in Speakers: 2 W x 2
Plug & Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 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 (100x100mm)

Control software: SmartControl

Stand

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

Power

ECO mode: 8.6 W (typ.)
Power supply: Built-in, 100-240VAC, 50-60Hz
Off mode: Zero watts with Zero switch
On mode: 12.8 W (typ.) (EnergyStar test method)
Standby mode: 0.35 W (typ.)
Power LED indicator: Operation - White, Standby mode- White (blinking)
Energy Label Class: B

Dimensions

Packaging in mm (WxHxD): 730 x 450 x 139 mm
Product without stand (mm): 540 x 323 x 47 mm
Product with stand(max height): 540 x 501 x 205 mm

Weight

Product with packaging (kg): 7.61 kg
Product with stand (kg): 4.92 kg
Product without stand (kg): 3.32 kg

Operating conditions

Altitude: Operation: +12,000ft (3,658m), Non-operation: +40,000ft (12,192m)
Temperature range (operation): 0°C to 40°C °C
Relative humidity: 20%-80 %
Temperature range (storage): -20°C to 60°C °C
MTBF (demonstrated): 70,000 hrs (excluded backlight)

Sustainability

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

Compliance and standards

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

Cabinet

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



* "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.