



Philips  
LCD monitor with super  
energy efficiency

### B Line

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

241B7QGJEB



## 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.

#### Energy efficiency - Eco-conscious power savings

- Super-energy-efficient design for maximum power savings
- A++ energy class achieves up to 40% greater energy savings\*
- PowerSensor saves up to 80% energy costs
- LightSensor for the perfect brightness with minimal power
- Zero power consumption with 0 watt hard switch

#### Eco-friendly materials for sustainability

- Eco-friendly materials meet major international standards
- 100% recycled packing material
- 85% post consumer recycled plastics with TCO Edge
- Halogen-free design to minimise environmental impact
- Mercury- and lead-free eco-friendly design

#### Brilliant performance

- IPS technology for full colours and wide viewing angles
- Zero Bright Dot™ eliminates LCD bright dot defects

# PHILIPS

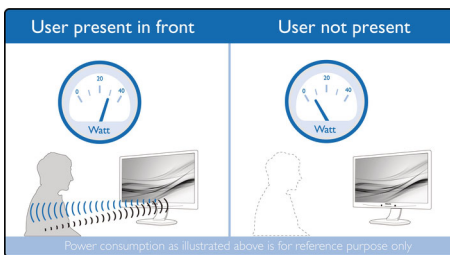
# Highlights

## Super-energy-efficient design



Using the new energy saving design with a super-efficient power supply, this monitor achieves a higher energy class, while giving excellent performance. The power-efficient feature uses new LED backlight technology which maintains brightness and colour using significantly less energy; this 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 the user is present and then automatically reduces monitor brightness when the 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 light conditions in the room 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 of the monitor, you can completely cut off your monitor from AC power. This results in zero power consumption, reducing your carbon footprint even further.

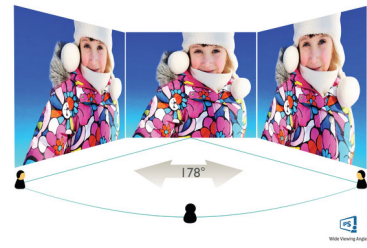
## Eco-friendly materials

Philips is committed to using 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 use up to 85% post-consumer recycled plastics. Strict adherence to RoHS standards ensures a substantial reduction or elimination of toxic substances like lead and mercury, which have been eliminated completely in monitors with an LED backlight.

## TCO Edge

TCO Edge certification is given to products that go beyond existing eco-labelling programmes. Over and above standard TCO requirements, it further mandates that the product should use a minimum of 85% of post consumer recycled plastics, be energy efficient, use minimal hazardous materials, have 100% recyclable packaging and be designed for easy recycling, amongst other requirements. You can rest assured that this Philips monitor is a cutting-edge technology product, which is best in class ICT, benefitting you and the planet while helping you make a responsible green IT purchase!

## 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 give 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.

## Zero Bright Dot™

Bright dots are defects in an LCD panel once thought to be an inevitable part of the manufacturing process. With Zero Bright Dot™, Philips monitors are guaranteed to be without bright dot defects.

## Ultra-narrow Border



The new Philips displays feature ultra-narrow borders which allow for minimal distractions and maximum viewing size. Especially suited for multi-display or tiling setups like gaming, graphic design and professional applications, the ultra-narrow border display gives you the feeling of using one large display.



# Specifications

## Picture/Display

- LCD panel type: IPS technology
- Backlight type: W-LED system
- Panel Size: 23.8 inch/60.5 cm
- Effective viewing area: 527 (H) x 296.5 (V)
- Display Screen Coating: Anti-Glare, 3H, Haze 25%
- Aspect ratio: 16:9
- Optimum resolution: 1920 x 1080 @ 60 Hz
- Pixel Density: 93 PPI
- Response time (typical): 5 ms (Grey to Grey)\*
- Brightness: 250 cd/m<sup>2</sup>
- Contrast ratio (typical): 1000:1
- SmartContrast: 50,000,000:1
- Pixel pitch: 0.275 x 0.275 mm
- Viewing angle: 178° (H)/178° (V), @ C/R > 10
- Flicker-free
- Picture enhancement: SmartImage
- Display colours: 16.7 M
- Colour gamut (typical): NTSC 87%\*, sRGB 102%\*
- Scanning Frequency: 30–85 kHz (H)/48–76 Hz (V)
- sRGB
- EasyRead
- LowBlue Mode

## Connectivity

- Signal Input: VGA (Analogue), DVI-D (digital, HDCP), DisplayPort 1.2, HDMI 1.4
- USB: USB 3.0x4 (1 w/fast charging)\*
- Sync Input: Separate Sync, Sync on Green
- 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: -175/175 degree
- Tilt: -5/20 degree

## Power

- ECO mode: 8.2 W (typ.)

- On mode: 11 W (typ.) (EnergyStar 7.0 test method)
- Standby mode: <0.3 W (typ.)
- 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): 541 x 527 x 257 mm
- Product without stand (mm): 541 x 332 x 57 mm
- Packaging in mm (W x H x D): 603 x 492 x 224 mm

## Weight

- Product with stand (kg): 5.93 kg
- Product without stand (kg): 3.50 kg
- Product with packaging (kg): 9.20 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 7.0, EPEAT\*, TCO edge, WEEE, RoHS
- Recyclable packaging material: 100 %
- Post-consumer recycled plastic: 85%
- Specific Substances: PVC/BFR free housing, Mercury free, Lead free

## Compliance and standards

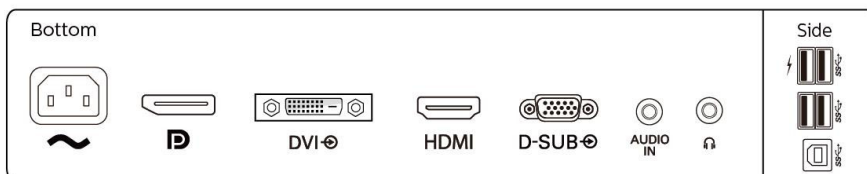
- Regulatory Approvals: CB, CE Mark, FCC Class B, SEMKO, cETLus, CU-EAC, TUV/GS, TUV Ergo, EPA, UKRAINIAN, ICES-003, SASO, KUCAS

## Cabinet

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

## What's in the box?

- Monitor with stand
- Cables: DVI-D cable, HDMI cable, DP cable, Audio cable, Power cable
- User Documentation



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Version: 2.0.1

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or their respective owners.

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\* 37% energy reduction vs. previous model 241B7QJEB FHD monitor

\* "IPS" word mark / trademark and related patents on technologies belong to their respective owners.

\* Response time value equal to SmartResponse

\* NTSC Area based on CIE 1976

\* sRGB Area based on CIE 1931

\* Fast charging complies with USB BC 1.2 standard

\* EPEAT Gold or Silver is valid only where Philips registers the product. Please visit [www.epeat.net](http://www.epeat.net) for registration status in your country.

\* The monitor may look different from feature images.