

PHILIPS

LCD monitor with
SmoothTouch

Monitor

B Line

24 (23.8" / 60.5 cm diag.)

1920 x 1080 (Full HD)

242B9TN



Brilliant interactive display with SmoothTouch

A sturdy water- and dust-resistant touch-screen monitor for flexible use anywhere. Offering simple and intuitive use across applications, greatly boosts productivity.

Brilliant interactive display

- SmoothTouch display for natural, fluid touch response
- 16:9 Full HD display for crisp, detailed images
- EasyRead mode for a paper-like reading experience
- Less eye fatigue with Flicker-Free technology
- LowBlue Mode for easy-on-the-eyes productivity
- SmartContrast for rich black details
- Stylus for fluid and accurate performance with more control
- Monitor front surface meets IP65 for water and dust resistance

Easy to experience

- HDMI ensures universal digital connectivity
- DisplayPort connection for maximum visuals
- VESA mount allows for flexibility
- USB 3.1 high-speed data transfer

Highlights

SmoothTouch



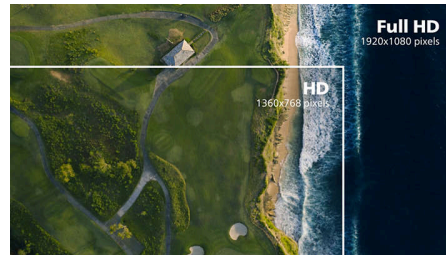
This Philips display uses Projected capacitive 10-point touch technology for fluid response. You can fully utilise the new capabilities of touch-based applications and bring your older applications to life. Touch-type with 10 fingers or play exciting interactive games with your friends. Collaborate with colleagues interactively at work or school environment and increase your productivity and efficiency.

Water- and dust-resistant



For less-than-perfect environments, you need a monitor that's designed to hold up to the splashes of water and dust that happen in the everyday world. Ingress Protection (IP) ratings defined in international standard IEC/EN 60529, are used to define levels of sealing effectiveness of electrical enclosures against intrusion from foreign bodies and moisture. This Philips display meets the international IP rating for water and dust resistance. It will hold up to the water splashes and dust that happen in the everyday world.

16:9 Full HD display



Picture quality matters. Regular displays deliver quality, but you expect more. This display features enhanced Full HD 1920 x 1080 resolution. With Full HD for crisp detail paired with high brightness, incredible contrast and realistic colours, expect a true-to-life picture.

SmartContrast



SmartContrast is a Philips technology that analyses the contents you are displaying, automatically adjusting colours and controlling backlight intensity to dynamically enhance contrast for the best digital images and videos or when playing games where dark hues are displayed. When Economy mode is selected, contrast is adjusted and backlighting fine-tuned for just-right display of everyday office applications and lower power consumption.

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.

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.

EasyRead mode



EasyRead mode for a paper-like reading experience



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Highlights

HDMI Ready



An HDMI-ready device has all the required hardware to accept High-Definition Multimedia Interface (HDMI) input. An HDMI cable enables high-quality digital video and audio to be transmitted over a single cable from a PC or any number of AV sources (including set-top boxes, DVD players, A/V receivers and video cameras).

DisplayPort connection



DisplayPort is a digital link from PC to monitor without any conversion. With higher capabilities than DVI standard, it is fully capable to support up to 15 metre cables and 10.8 Gbps/sec data transfer. With this high performance and zero latency, you get the fastest imaging and refresh rates — making DisplayPort the best choice for not only general office or home use, but also for

the more demanding gaming and films, video editing and more. It also keeps interoperability in mind via the use of various adapters.

VESA mount



VESA mount allows for flexibility



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: 0.275 x 0.275 mm
Optimum resolution: 1920 x 1080 @ 60 Hz
Brightness: 250 cd/m²
Display colours: 16.7 M
Colour gamut (typical): NTSC 72% (CIE 1931)
Contrast ratio (typical): 1000:1
SmartContrast: 50,000,000:1
Response time (typical): 5 ms (Grey to Grey)*
Viewing angle: 178° (H)/178° (V), @ C/R > 7;
Picture enhancement: SmartImage
Effective viewing area: 527 (H) x 296.5 (V)
Scanning Frequency: 30–85 kHz (H) / 48–75 kHz (V)
sRGB
Flicker-free
Pixel Density: 93 PPI
LowBlue Mode
EasyRead

Touch

Ingress protection: IP65 - front only
Operating system: Windows 10 / 8.1 / 8 / 7;
 Android 7.1 / 7.0 / 6.0 / 5.0 / 4.4; certain Linux versions*
Sealability: Touchscreen sealed to bezel;
 Touchscreen sealed to LCD
Touch active area: 527 mm (H) x 296.5 mm (V)
Touch glass hardness: 7 H
Touch interface: USB
Touch method: Stylus, Finger, Glove*
Touchpoints: 10 points
Touch technology: Projected capacitive
Palm rejection area: >= 30 x 30 mm
Touch glass coating: Glare

Connectivity

Signal Input: VGA (Analogue), DVI-D (digital), HDCP), DisplayPort 1.2, HDMI 1.4
USB: USB 3.1 x 2 (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
Plug and Play Compatibility: DDC/CI, sRGB,
 Windows 10 / 8.1 / 8 / 7

User convenience: SmartImage, Input, Brightness, 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 (100 x 100 mm)
Control software: SmartControl

Power

ECO mode: 11.5 W (typ.)
Power supply: External, 100–240 VAC, 50–60 Hz
Off mode: < 0.3 W (typ.)
On mode: 15.68 W (typ.) (EnergyStar test method)
Standby mode: < 0.5 W (typ.)
Power LED indicator: Operation - White, Standby mode - White (flashing)
Energy Label Class: E

Dimensions

Packaging in mm (W x H x D): 620 x 433 x 168 mm
Product without stand (mm): 554 x 338 x 50 mm

Weight

Product with packaging (kg): 7.77 kg
Product without stand (kg): 4.86 kg

Operating conditions

Altitude: Operation: +12,000 ft (3658 m), Non-operation: +40,000 ft (12,192 m)
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: EnergyStar 8.0, EPEAT*, TCO Certified, RoHS, WEEE
Recyclable packaging material: 100 %
Specific Substances: PVC/BFR free housing, Mercury free

Compliance and standards

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

Cabinet

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

What's in the box?

Cables: HDMI cable, USB-A to B cable, Power cable
Monitor
User Documentation



* "IPS" word mark / trademark and related patents on technologies belong to their respective owners.
 * Glove material and thickness: Nitrile (0.15 mm), Cotton (0.31 mm), CPE (0.03 mm), PVC (0.12 mm)
 * Response time value equal to SmartResponse
 * Please refer to "SmoothTouch" in the user manual for more details on operating system support when using the touch function.
 * 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.