PHILIPS

LCD monitor with SmoothTouch

Monitor

B Line

24 (23.8" / 60.5 cm diag.)

1920 x 1080 (Full HD)

242B9T

Brilliant interactive display with SmoothTouch

A sturdy, water and dust resistant touch screen monitor for flexible use anywhere, with articulating stand to fit angles you need. Offering simple and intuitive use across applications, greatly boosts up 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 & 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
- SmartStand with adjustable angles, boosts productivity

Monitor

LCD monitor with SmoothTouch

242B9T/00

Highlights

SmoothTouch

This Philips display uses Projected capacitive 10 point touch technology for fluid response. You can fully utilize 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 international the IP rating for water and dust resistance, it will hold up to 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 colors expect a true to life picture.

SmartContrast

SmartContrast is a Philips technology that analyzes the contents you are displaying, automatically adjusting colors 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.

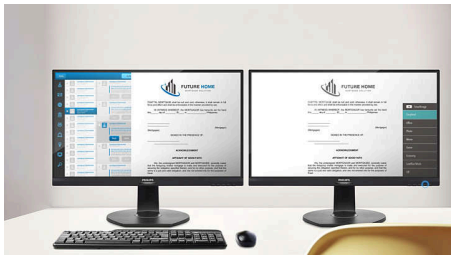
LowBlue Mode

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, 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

SmartStand

Philips SmartStand allows for flexible adjustment of the screen. Its Z type structure with smooth tilt, height adjustment and folding capabilities enables you to use it in various ergonomic positions. You can set the stand in upright position for better touch control, or recline it backwards, making it easy for you to draw or annotate. It even allows you to put the screen almost flat on the table for some applications when required.

SmoothTouch Full HD 1080p LowBlue Mode Flicker-free EasyRead SmartStand HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

Highlights

HDMI Ready

An HDMI-ready device has all the required hardware to accept High-Definition Multimedia Interface (HDMI) input. A HDMI cable enables high-quality digital video and audio all 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).

High speed data transfer

USB 3.1 high speed data transfer

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 15meter 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 demanding gaming and movies, video editing and more. It also keeps interoperability in mind via use of various adapters.

VESA mount

VESA mount allows for flexibility

SmoothTouch
Full HD 1080p
LowBlue Mode
Flicker-free
EasyRead
SmartStand

Monitor

LCD monitor with SmoothTouch

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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 @ 60Hz
Brightness: 250 cd/m²
Display colors: 16.7 M
Color gamut (typical): NTSC 72% (CIE 1931)
Contrast ratio (typical): 1000:1
SmartContrast: 50,000,000:1
Response time (typical): 5 ms (Gray to Gray)*
Viewing angle: 178º (H) / 178º (V), @ C/R > 10
Picture enhancement: SmartImage
Effective viewing area: 527 (H) x 296.5 (V)
Scanning Frequency: 30 - 85 kHz (H) / 48 - 75 Hz (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
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*
Touch points: 10 point
Touch technology: Projected capacitive
Palm rejection area: >= 30 x 30 mm
Touch glass coating: Glare

Connectivity

Signal Input: VGA (Analog), DVI-D (digital, HDCP), DisplayPort 1.2, HDMI 1.4
USB: USB 3.1x2 (1 w/fast charging)*
Sync Input: Separate Sync, Sync on Green
Audio (In/Out): PC audio-in, Headphone out
HDCP: HDCP: HDCP 1.4 (HDMI / DP / DVI)

Convenience

Built-in Speakers: 2 W x 2
Plug & Play Compatibility: DDC/CI, sRGB, Windows 11 / 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 (100x100mm)
Control software: SmartControl

Stand

Height adjustment: 184 (Horizontal), 75 (Vertical) mm
Tilt: -5 ~ 90 degree
Folding angle: 0 ~ 70 degree

Power

ECO mode: 11.5 W (typ.)
Power supply: External, 100-240VAC, 50-60Hz
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 (blinking)
Energy Label Class: E

Dimensions

Packaging in mm (WxHxD): 620 x 433 x 168 mm
Product without stand (mm): 554 x 338 x 50 mm
Product with stand(max height): 554 x 413 x 227 mm

Weight

Product with packaging (kg): 11.06 kg
Product with stand (kg): 8.15 kg
Product without stand (kg): 4.86 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: EnergyStar 8.0, EPEAT*, TCO Certified, RoHS, WEEE
Recyclable packaging material: 100 %
Specific Substances: PVC / BFR free housing, Mercury free

Compliance and standards

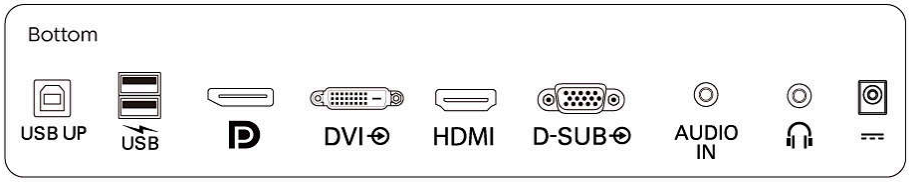
Regulatory Approvals: CB, CE Mark, FCC Class B, SEMKO, UKRAINIAN, ICES-003, TUV/GS, TUV Ergo, CU-EAC, EAEU RoHS, cETLus

Cabinet

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

What's in the box?

Cables: D-Sub cable, HDMI cable, DP cable, USB-A to B cable, Audio cable, Power cable
Monitor with stand
User Documentation
Accessory: Stylus touch pen x 1 (black)



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* "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 user manual for more details of operating systems support in 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.