

PHILIPS

LCD monitor with
SmoothTouch

B Line

24 (23.8" / 60.5 cm diag.)

Full HD (1920 x 1080)

242B9T



Brilliant interactive display with SmoothTouch

A sturdy, water and dust resistant, anti-glare 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
- Monitor front surface meets IP54 for water & dust resistance
- 16:9 Full HD display for crisp detailed images
- SmartContrast for rich black details
- LowBlue Mode for easy on-the-eyes productivity
- Less eye fatigue with Flicker-free technology
- EasyRead mode for a paper-like reading experience

Easy to experience

- HDMI ensures universal digital connectivity
- USB 3.1 high speed data transfer
- DisplayPort connection for maximum visuals
- SmartStand with adjustable angles, boosts productivity
- VESA mount allows for flexibility

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.

HDMI Ready



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



Specifications

Picture/Display

LCD panel type: IPS technology
Backlight type: W-LED system
Panel Size: 23.8 inch / 60.5 cm
Display Screen Coating: Anti-Glare, 3H, Haze 25%
Effective viewing area: 527 (H) x 296.5 (V)
Aspect ratio: 16:9
Optimum resolution: 1920 x 1080 @ 60Hz
Pixel Density: 93 PPI
Response time (typical): 5 ms (Gray to Gray)*
Brightness: 250 cd/m²
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
Color gamut (typical): NTSC 72% (CIE 1931)
Display colors: 16.7 M
Scanning Frequency: 30 - 85 kHz (H) / 48 - 75 Hz (V)
sRGB
EasyRead
LowBlue Mode

Touch

Touch technology: Projected capacitive
Touch points: 10 point
Touch method: Stylus, Finger, Glove*
Touch interface: USB
Touch glass hardness: 7 H
Touch active area: 527 mm (H) x 296.5 mm (V)
Operation system: Windows 10 / 8.1 / 8 / 7;
 Android 7.1 / 7.0 / 6.0 / 5.0 / 4.4*
Palm rejection area: >= 30 x 30 mm
Ingress protection: IP54 - front only
Sealability: Touchscreen sealed to bezel;
 Touchscreen sealed to LCD

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

Convenience

Built-in Speakers: 2 W x 2
User convenience: SmartImage, Input, Brightness, 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 (100x100mm)
Plug & Play Compatibility: DDC/CI, sRGB, Windows 10 / 8.1 / 8 / 7

Stand

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

Power

ECO mode: 11.5 W (typ.)
On mode: 16 W (typ.) (EnergyStar 7.0 test method)
Standby mode: < 0.5 W (typ.)
Off mode: < 0.3 W (typ.)
Power LED indicator: Operation - White, Standby mode- White (blinking)
Power supply: External, 100-240VAC, 50-60Hz

Dimensions

Product with stand(max height): 554 x 413 x 227 mm
Product with stand(max height): 21.8 x 16.3 x 8.9 inch
Product without stand (mm): 554 x 338 x 50 mm
Product without stand in inch: 21.8 x 13.3 x 2.0 inch
Packaging in mm (WxHxD): 620 x 433 x 168 mm
Packaging in inch (WxHxD): 24.4 x 17.0 x 6.6 inch

Weight

Product with stand (kg): 8.15 kg
Product with stand (lb): 17.93 lb
Product without stand (kg): 4.86 kg
Product without stand (lb): 10.69 lb
Product with packaging (kg): 11.06 kg
Product with packaging (lb): 24.33 lb

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: +12,000ft (3,658m), Non-operation: +40,000ft (12,192m)
MTBF (demonstrated): 70,000 hrs (excluded backlight)

Sustainability

Environmental and energy: EnergyStar 7.0, EPEAT*, TCO edge, RoHS, WEEE
Recyclable packaging material: 100 %
Specific Substances: PVC / BFR free housing, Mercury free, Lead free

Compliance and standards

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

Cabinet

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

* "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 Gold or Silver is valid only where Philips registers the product. Please visit www.epeat.net for registration status in your country.
 * The monitor may look different from feature images.

