PHILIPS

Open-frame touch-screen monitor

B Line

24 (23.8"/60.5 cm diag.)

1920 x 1080 (Full HD)

242B1TFL

Brilliant interactive display with SmoothTouch

Philips open-frame touch monitor provides optimal flexibility for mounting. A sturdy, water and dust resistant, edge-to-edge design to fit your needs. Great brightness performance and anti-glare display creates outstanding picture clarity.

Brilliant interactive display

- SmoothTouch display for natural, fluid touch response
- IPS LED wide view technology for image and colour accuracy
- 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
- Monitor front surface meets IP65 for water and dust resistance
- Anti-glare coating (AG) for reducing the visual interference

Easy to experience

- HDMI ensures universal digital connectivity
- DisplayPort connection for maximum visuals
- VESA mount allows for flexibility

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.

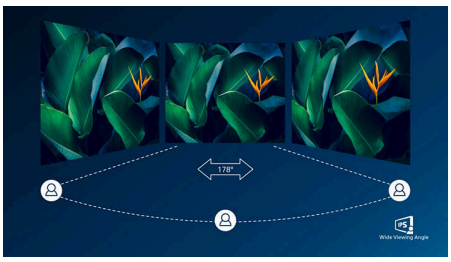
Water- and dust-resistant

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.

Anti-glare coating

Anti-Glare Coating, abbreviated AG, can reduce the glare of your touch monitor screen. This chemical process is made in the back of the touch glass and therefore you don't need an additional film to have comfort in your eyes. Images are crystal clear with pure colour and great clarity.

IPS technology



IPS displays use an advanced technology that gives you extra-wide viewing angles of 178/178 degrees, making it possible to view the display from almost any angle. Unlike standard TN panels, IPS displays give you remarkably crisp images with vivid colours, making them ideal not only for Photos, movies and web browsing, but also for professional applications that demand colour accuracy and consistent brightness at all times.

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.

SmoothTouch

AG
Anti-glare Coating

IPS
Wide Viewing
Angle

Full HD
1080p

LowBlue Mode

Flicker-free

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

Highlights

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.

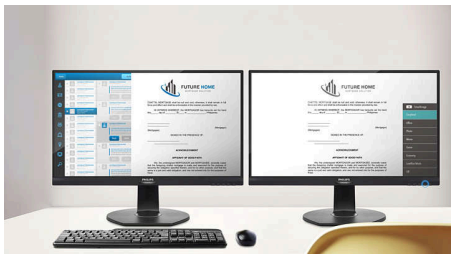
HDMI Ready

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

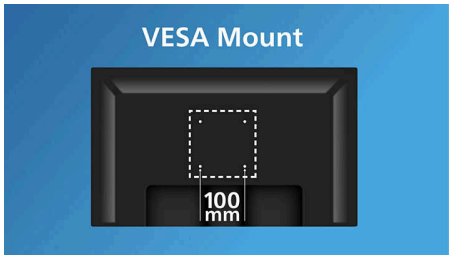
DisplayPort is a digital link from PC to monitor without any conversion. With higher capabilities than DVI standard, it is fully capable to support up to 15 metre cables and 10.8 Gbps/sec data transfer. With this high performance and zero latency, you get the fastest imaging and refresh rates — making 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.

EasyRead mode



EasyRead mode for a paper-like reading experience

VESA mount



VESA mount allows for flexibility

SmoothTouch

AG
Anti-glare Coating

Wide Viewing
Angle

Full HD
1080p

LowBlue Mode

Flicker-free

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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: 0.2745 x 0.2745 mm
Brightness: 350 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): 4 ms (Grey to Grey)*
Viewing angle: 178º (H)/178º (V), @ C/R > 10
Picture enhancement: SmartImage
Maximum resolution: 1920 x 1080 @ 75 Hz*
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
EasyRead

Touch
Brightness: 295 nits (typ.)
Ingress protection: IP65 - front only
Operating system: Windows 10 / 8.1 / 8 / 7; Android 11 / 10 / 9 / 8*
Sealability: Touchscreen sealed to bezel; Touchscreen sealed to LCD
Touch active area: 527.04 mm (H) x 296.46 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: AG coating (Haze: 5% -/+ 3%, Gloss: 80 -/+ 10)

Connectivity
Signal Input: VGA (Analogue), DVI-D (digital, HDCP), DisplayPort 1.2, HDMI 1.4
Sync Input: Separate Sync, Sync on Green
Audio (In/Out): Audio out
USB:: USB 3.2 x 1 (Upstream), USB 3.2 x 2 (Downstream with 1 fast charge B.C 1.2), mini USB x 1

Convenience
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, OSD keypad control, VESA mount (100 x 100 mm)
Control software: SmartControl

Power
ECO mode: 13.9 W (typ.)
Power supply: External, 100–240 VAC, 50–60 Hz
Off mode: 0.3 W (typ.)
On mode: 26.1 W (typ.)
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): 647 x 420 x 134 mm
Product without stand (mm): 567 x 345 x 49 mm

Weight
Product with packaging (kg): 8.67 kg
Product without stand (kg): 5.67 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
Relative humidity: 20%-80 %
Temperature range (storage): -20°C to 60 °C
MTBF (demonstrated): 70,000 hrs (excluded backlight)
Installation or placement: Landscape/Portrait/Face up
Operational time: 24/7

Sustainability
Environmental and energy: RoHS
Recyclable packaging material: 100 %
Specific Substances: PVC/BFR free housing, Mercury free

Compliance and standards
Regulatory Approvals: CB, CE Mark, FCC Class B, UKRAINIAN, ICES-003, TUV/GS, TUV Ergo, CU-EAC, EAEU RoHS, TUV Eye Comfort certified

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

What's in the box?
Cables: HDMI cable, DP cable, USB-A to B cable, Power cable
Monitor
User Documentation
L-Brackets system
OSD keypad

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* "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 CIE 1976
* sRGB Area based on CIE1931
* Glove material and thickness: Nitrile (0.15 mm), Cotton (0.31 mm), CPE (0.03 mm), PVC (0.12 mm)
* Please refer to "SmoothTouch" in the user manual for more details on operating system support when using the touch function.
* The monitor may look different from feature images.