Philips Monitor
LCD monitor with
SmoothTouch

B Line
22 (21.5" / 54.6 cm diag.)
1920 x 1080 (Full HD)

222B9T

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
- 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

PHILIPS

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.
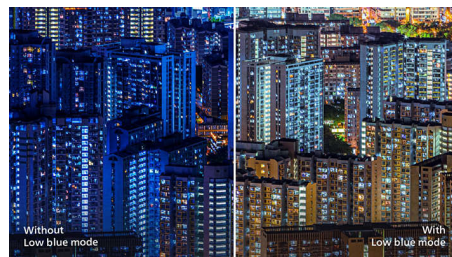
16:9 Full HD display

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

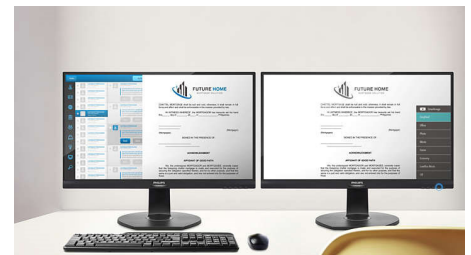Studies have shown that just as ultra-violet rays can cause eye damage, shortwave length blue light rays from LED displays can cause eye damage and affect vision over time. Developed for wellbeing, Philips LowBlue Mode setting uses a smart software technology to reduce harmful shortwave blue light.

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.

Specifications

Picture/Display
- Panel Size: 21.5 inch / 54.6 cm
- Aspect ratio: 16:9
- LCD panel type: TFT-LCD (TN)
- Backlight type: W-LED system
- Pixel pitch: 0.248 x 0.248 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): 1 ms (Gray to Gray)*
- Viewing angle: 170° (H) / 160° (V), @ C/R > 10
- Picture enhancement: SmartImage
- Effective viewing area: 476.64 (H) x 268.11 (V)
- Scanning Frequency: 30 - 85 kHz (H) / 48 - 75 Hz (V)
- sRGB
- Flicker-free
- Pixel Density: 102 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: 476.64 mm (H) x 268.11 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 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), 76 (Vertical) mm
- Tilt: -5 ~ 90 degree
- Folding angle: 0 ~ 70 degree

Power
- ECO mode: 10.3 W (typ.)
- Power supply: External, 100-240VAC, 50-60Hz
- Off mode: < 0.3 W (typ.)
- On mode: 11.92 W (typ.) (EnergyStar test method)
- Standby mode: < 0.5 W (typ.)
- Power LED indicator: Operation - White, Standby mode- White (blinking)

Dimensions
- Packaging in mm (WxHxD): 575 x 420 x 161 mm
- Product without stand (mm): 515 x 317 x 45 mm
- Product with stand(max height): 515 x 394 x 227 mm

Weight
- Product with packaging (kg): 9.91 kg
- Product with stand (kg): 7.46 kg
- Product without stand (kg): 4.17 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
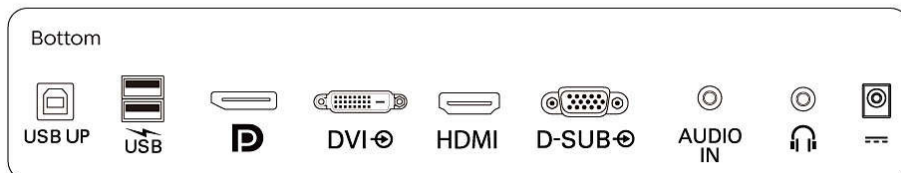- Environmental and energy: EnergyStar 8.0, EPEAT*, TCO Certified, RoHS, WEEE

- Recyclable packaging material: 100 %
- Specific Substances: PVC / BFR free housing, Mercury free

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

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

Bottom: USB UP, USB, DisplayPort, DVI, HDMI, D-SUB, AUDIO IN, Headphone, DC power

* Response time value equal to SmartResponse
* 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 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.