



LCD monitor with SmoothTouch

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

222B9T/89

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.

Benefits

Brilliant interactive display

- SmoothTouch display for natural, fluid touch response
- Monitor front surface meets IP65 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

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

PHILIPS

Monitor

Features

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



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



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

Monitor

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

Specifications

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Picture/Display

LCD panel type	TFT-LCD (TN)
Backlight type	W-LED system
Panel Size	21.5 inch / 54.6 cm
Effective viewing area	476.64 (H) x 268.11 (V)
Aspect ratio	16:9
Optimum resolution	1920 x 1080 @ 60Hz
Pixel Density	102 PPI
Response time (typical)	1 ms (Gray to Gray)*
Brightness	250 cd/m ²
Contrast ratio (typical)	1000:1
SmartContrast	50,000,000:1
Pixel pitch	0.248 x 0.248 mm
Viewing angle	170° (H) / 160° (V) @ C/R > 10
Picture enhancement	SmartImage
Color gamut (typical)	NTSC 72% (CIE 1931)
Display colors	16.7 M
Scanning Frequency sRGB	30 - 85 kHz (H) / 48 - 75 Hz (V) Yes
Flicker-free	Yes
EasyRead	Yes
LowBlue Mode	Yes

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

Touch

Touch technology	Projected capacitive
Touch points	10 point
Touch method	Stylus, Finger, Glove*
Touch interface	USB
Touch glass hardness	7 H
Touch glass coating	Glare
Touch active area	476.64 mm (H) x 268.11 mm (V)
Operating system	Windows 10 / 8.1 / 8 / 7; Android 7.1 / 7.0 / 6.0 / 5.0 / 4.4; certain Linux versions*
Palm rejection area	>= 30 x 30 mm
Ingress protection	IP65 - front only
Sealability	Touchscreen sealed to bezel; Touchscreen sealed to LCD

Stand

Tilt	-5 ~ 90 degree
Folding angle	0 ~ 70 degree
Height adjustment	184 (Horizontal), 76 (Vertical) mm

Power

ECO mode	10.3 W (typ.)
On mode	11.92 W (typ.) (EnergyStar 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

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)

Dimensions

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

Weight

Product with stand (kg)	7.46 kg
Product without stand (kg)	4.17 kg
Product with packaging (kg)	9.91 kg

Convenience

Built-in Speakers	2 W x 2
User convenience	SmartImage Input Brightness Menu Power On/Off

Monitor

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 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
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Cabinet

Front bezel	Black
Rear cover	Black
Foot	Black
Finish	Texture

* 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.



data subject to change
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