Full HD LCD monitor

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

223V7QHAW/89

Vivid, crisp images, from edge-to-edge

A perfect all around display with stunning images that stretch from edge-to edge, made easy on the eyes, in a compact slim design.

Benefits

Vivid pictures every time
• IPS LED wide view technology for image and color accuracy
• 16:9 Full HD display for crisp detailed images
• Narrow border display for a seamless appearance
• SmartContrast for rich black details
• SmartImage presets for easy optimized image settings

Easy on the eyes
• Less eye fatigue with Flicker-free technology
• LowBlue Mode for easy on-the-eyes productivity

• EasyRead mode for a paper-like reading experience

Experience true multimedia
• Built-in speakers for audio without desktop clutter
• HDMI-ready for Full HD entertainment

Perfectly designed for your space
• VESA mount allows for flexibility

PHILIPS

Features

IPS technology

IPS displays use an advanced technology which gives you extra wide viewing angles of 178/178 degree, making it possible to view the display from almost any angle. Unlike standard TN panels, IPS displays gives you remarkably crisp images with vivid colors, making it ideal not only for Photos, movies and web browsing, but also for professional applications which demand color 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 colors expect a true to life picture.

UltraNarrow Border

The new Philips displays feature ultra-narrow borders which allow for minimal distractions and maximum viewing size. Especially suited for multi-display or tiling setup like gaming, graphic design and professional applications, the ultra-narrow border display gives you the feeling of using one large display.

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.

SmartImage

SmartImage is an exclusive leading edge Philips technology that analyzes the content displayed on your screen and gives you optimized display performance. This user friendly interface allows you to select various modes like Office, Photo, Movie, Game, Economy etc., to fit the application in use. Based on the selection, SmartImage dynamically optimizes the contrast, color saturation and sharpness of images and videos for ultimate display performance. The Economy mode option offers you major power savings. All in real time with the press of a single button!

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.

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.

EasyRead mode

Built-in speakers

A pair of stereo speakers built into a display device. It can be visible front firing, or invisible down firing, top firing, rear firing, etc depending on model and design.

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).

Specifications

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Picture/Display

LCD panel type	IPS technology
Backlight type	W-LED system
Panel Size	21.5 inch / 54.6 cm
Effective viewing area	476.06 (H) x 267.79 (V)
Aspect ratio	16:9
Optimum resolution	1920 x 1080 @ 60 Hz
Pixel Density	102 PPI
Response time (typical)	5 ms (GtG)*
Brightness	250 cd/m²
SmartContrast	10,000,000:1
Contrast ratio (typical)	1000:1
Pixel pitch	0.248 x 0.248 mm
Viewing angle	178° (H) / 178° (V) @ C/R > 10
Flicker-free	Yes
Display colors	16.7 M
Scanning Frequency	30 -83 kHz (H) / 56 -76 Hz (V)
LowBlue Mode	Yes
sRGB	Yes

Connectivity

Signal Input	VGA (Analog)
	HDMI (digital, HDCP)
Sync Input	Separate Sync
	Sync on Green
Audio (In/Out)	PC audio-in
	Headphone out

Convenience

Built-in Speakers	2W x 2
User convenience	Power On/Off
	Menu/OK
	Volume/Up
	Input/Down
	SmartImage/Back
OSD Languages	Brazil Portuguese
	Czech
	Dutch
	English
	Finnish
	French
	German
	Greek
	Hungarian
	Italian
	Japanese
	Korean
	Polish
	Portuguese
	Russian
	Spanish
	Simplified Chinese
	Swedish
	Turkish
	Traditional Chinese
	Ukranian
Other convenience	Kensington lock
	VESA mount (100x100mm)
Plug & Play Compatibility	DDC/CI
	Mac OS X
	sRGB
	Windows 10 / 8.1 / 8 / 7

Stand

Tilt	-5/20 degree

Power

On mode	13.09 W (typ.) (EnergyStar 7.0 test method)
Standby mode	0.5 W (typ.)
Off mode	0.5 W (typ.)
Power LED indicator	Operation - White
	Standby mode- White (blinking)
Power supply	Built-in
	100-240VAC, 50-60Hz

Dimensions

Product with stand (mm)	490 x 368 x 195 mm
Product without stand (mm)	490 x 296 x 45 mm
Packaging in mm (WxHxD)	575 x 440 x 113 mm

Weight

Product with stand (kg)	2.92 kg
Product without stand (kg)	2.56 kg
Product with packaging (kg)	4.23 kg

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	50,000 (Excluded backlight) hour(s)

Sustainability

Environmental and energy	EnergyStar 7.0
	RoHS
	Lead-free
	Mercury Free
Recyclable packaging material	100 %

Compliance and standards

Regulatory Approvals
CU
SEMKO
cETLus
TUV/ISO9241-307
WEEE
TCO Certified
CE Mark
FCC Class B
ICES-003
RCM
UKRAINIAN

KCC
BSMI
PSE
VCCI
TUV Cert. - blue light cut-off

Cabinet

Color   White
Finish   Textured

* "IPS" word mark / trademark and related patents on technologies belong to their respective owners.
* Response time value equal to SmartResponse

data subject to change
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