LCD monitor

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

221V8L/89

Vivid, crisp images beyond boundaries

Philips V line wide-view monitor gives viewing beyond boundaries, great value with essential features. Adaptive-Sync provides flawless viewing without screen tearing. Features like LowBlue mode and flicker-free for easy-on-the eyes.

Benefits

Vivid pictures every time

• VA display delivers awesome images with wide viewing angles
• 16:9 Full HD display for crisp detailed images
• SmartContrast for rich black details
• SmartImage presets for easy optimized image settings
• Effortlessly smooth action with Adaptive-Sync technology

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
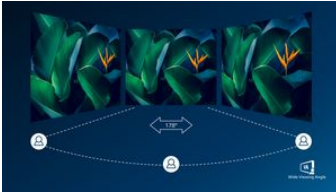
• HDMI ensures universal digital connectivity

Perfectly designed for your space

• Compact design saves space
• VESA mount allows for flexibility

PHILIPS

Features

VA display

Philips VA LED display uses an advanced multi-domain vertical alignment technology which gives you super-high static contrast ratios for extra vivid and bright images. While standard office applications are handled with ease, it is especially suitable for photos, web-browsing, movies, gaming, and demanding graphical applications. It's optimized pixel management technology gives you 178/178 degree extra wide viewing angle, resulting in crisp images.

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.

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!

Adaptive-Sync technology

Gaming shouldn't be a choice between choppy gameplay or broken frames. Get fluid, artifact-free performance at virtually any framerate with Adaptive-Sync technology, smooth quick refresh and ultra-fast response time.
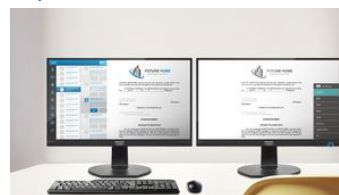
Flicker-free technology

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

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

Picture/Display

LCD panel type	VA LCD
Backlight type	W-LED system
Panel Size	21.5 inch / 54.6 cm
Display Screen Coating	Anti-glare, 3H, Haze 25%
Effective viewing area	478.656 (H) x 260.28 (V)
Aspect ratio	16:9
Maximum resolution	1920 x 1080 @ 75 Hz*
Pixel Density	102 PPI
Response time (typical)	4 ms (GtG)*
Brightness	250 cd/m²
Contrast ratio (typical)	3000:1
SmartContrast	Mega Infinity DCR
Pixel pitch	0.2493 x 0.241 mm
Viewing angle	178° (H) / 178° (V) @ C/R > 10
Display colors	16.7 M
Picture enhancement	SmartImage
Scanning Frequency	30 - 85 kHz (H) / 48 - 75 Hz (V)
sRGB	Yes
Flicker-free	Yes
LowBlue Mode	Yes
EasyRead	Yes
Adaptive sync	Yes

Connectivity

Signal Input	VGA (Analog) HDMI 1.4
Sync Input	Separate Sync Sync on Green
Audio (In/Out)	Audio out

Convenience

User convenience	Power On/Off Menu/OK Brightness/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 Ukrainian
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	13.3 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	Built-in 100-240VAC, 50-60Hz

Dimensions

Product with stand (mm)	493 x 369 x 220 mm
Product without stand (mm)	493 x 286 x 44 mm
Packaging in mm (WxHxD)	565 x 440 x 111 mm

Weight

Product with stand (kg)	2.69 kg
Product without stand (kg)	2.30 kg
Product with packaging (kg)	3.73 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 8.0 RoHS Mercury Free
Recyclable packaging material	100 %

Compliance and standards

Regulatory Approvals	CB CE Mark cETLus FCC Class B ICES-003 PSB

Cabinet

Color	Black
Finish	Textured

* The maximum resolution works for HDMI input only.
* Response time value equal to SmartResponse
* The monitor may look different from feature images.

data subject to change
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