LCD monitor with SmartImage lite

- Ultra Narrow Bezel
- 21.5" (54.6 cm)
- MHL

224E5QHAB/00

Vibrant images with AH-IPS display

with Ultra Narrow Bezel, MHL

This attractive Philips display with ultra narrow bezel and AH-IPS screen gives you awesome, vibrant color images. Mobile HD link allows you to connect your Smartphone.

Benefits

Entertainment with Mobile HD Link (MHL)
- MHL technology for enjoying mobile content on big screen
- Built-in stereo speakers for multimedia
- HDMI-ready for Full HD entertainment
- Charge your mobile device while watching movie
- Optional MHL cable allows for HD video audio playback

Awesome picture quality
- AH-IPS display gives awesome images with wide viewing angles
- SmartImage Lite for an enhanced LCD viewing experience

- 16:9 Full HD display for crisp detailed images
- TrueVision ensures lab quality images

Stylish design
- Minimalistic looks with Ultra Narrow Bezel
- Superb glossy and texture finish
- VESA mount for convenience

PHILIPS

Features

MHL technology

Mobile High Definition Link (MHL) is a mobile audio/video interface for directly connecting mobile phones and other portable devices to high-definition displays. An optional MHL cable allows you to simply connect your MHL capable mobile device to this large Philips MHL display, and watch your HD videos come to life with full digital sound. Now not only you can enjoy your mobile games, photos, movies, or other apps on its big screen, you can simultaneously charge your mobile device so you never run out of power half way.

AH-IPS technology

AH-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, AH-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.

Ultra Narrow Bezel

Utilizing latest technology panels, the new Philips displays are designed with minimalistic approach by limiting the outer bezel thickness to about 2.5mm. Combined with in-panel black matrix strip of around 9mm, the overall bezel dimensions are reduced significantly allowing for minimal distractions and maximum viewing size. Especially suited for multi-display or tiling setup like gaming, graphics design and professional applications, the Ultra narrow bezel display gives you the feeling of using one large display.

SmartImage Lite

SmartImage Lite is an exclusive, leading edge Philips technology that analyzes the content displayed on your screen. Based on a scenario you select, SmartImage Lite dynamically enhances the contrast, color saturation and sharpness of images and videos for ultimate display performance - all in real time with the press on a single button.

Built-in stereo speakers

A pair of high quality 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

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).

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.

TrueVision

TrueVision is a proprietary Philips technology that uses advanced algorithm for testing and aligning monitor display which gives you the ultimate display performance. Philips ensures TrueVision monitors leave the factory fine-tuned with this process giving you consistent color and picture quality.

Specifications

Picture/Display

LCD panel type	AH-IPS LCD
Backlight type	W-LED system
Panel Size	21.5 inch / 54.6 cm
Effective viewing area	476.1 (H) x 267.8 (V)
Aspect ratio	16:9
Optimum resolution	1920 x 1080 @ 60Hz
SmartResponse (typical)	5 ms (Grey to Grey)
Brightness	250 cd/m²
Contrast ratio (typical)	1000:1
SmartContrast	20,000,000:1
Pixel pitch	0.248 x 0.248 mm
Viewing angle	178° (H) / 178° (V) @ C/R > 10
Picture enhancement	SmartImage Lite
Display colors	16.7 M
Scanning Frequency	30 -83 kHz (H) / 56 -75 Hz (V)
MHL	1080p@30Hz
sRGB	Yes

Connectivity

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

Convenience

Built-in Speakers	5Wx2
User convenience	Power On/Off
	Menu
	Volume
	Input
	SmartImage lite
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
	Ukranian
Other convenience	Kensington lock
	VESA mount (100x100mm)
Plug & Play Compatibility	DDC/CI
	Mac OS X
	sRGB
	Windows 7
	Windows 8

Stand

Tilt	-5/20 degree

Power

On mode	26.5 W (typ.)
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

Dimensions

Product with stand (mm)	500 x 394 x 213 mm
Product without stand (mm)	500 x 306 x 47 mm
Packaging in mm (WxHxD)	562 x 466 x 106 mm

Weight

Product with stand (kg)	3.14 kg
Product without stand (kg)	2.82 kg
Product with packaging (kg)	5.01 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	30,000 hour(s)

Sustainability

Environmental and energy	RoHS
	Mercury Free
Recyclable packaging material	100 %

Compliance and standards

Regulatory Approvals	BSMI
	CE Mark
	cETLus
	FCC Class B
	GOST
	SASO
	SEMKO
	TUV/ISO9241-307
	WEEE

Cabinet

Color	Black Cherry / Black
Finish	Glossy

* Requires optional MHL certified mobile device and MHL cable. (not included) Please check with your MHL device vendor for compatibility.
* Standby/Off energy saving of ErP is not applicable for the MHL charging functionality
* "IPS" word mark / trademark and related patents on technologies belong to their respective owners.

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