

Philips  
LCD monitor with  
SmartImage lite

Ultra-Narrow Bezel

21.5" (54.6 cm)  
MHL

224E5QHSB



## 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 colour images. Mobile HD link allows you to connect your Smartphone.

### Stylish design

- Superb glossy and textured finish
- Minimalistic looks with Ultra-Narrow Bezel
- VESA mount for convenience

### Awesome picture quality

- AH-IPS display gives awesome images with wide viewing angles
- SmartImage Lite for an enhanced LCD viewing experience
- TrueVision ensures lab quality images
- 16:9 Full HD display for crisp, detailed images

### Entertainment with Mobile HD Link (MHL)

- Charge your mobile device while watching a movie
- HDMI-ready for Full HD entertainment
- Optional MHL cable allows for HD video audio playback
- MHL technology for enjoying mobile content on a big screen

# PHILIPS

LCD monitor with SmartImage lite  
Ultra-Narrow Bezel 21.5" (54.6 cm), MHL

224E5QHSB/01

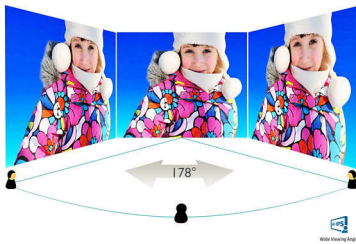
# Highlights

## 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 can you 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 halfway.

## AH-IPS technology



AH-IPS displays use an advanced technology which gives you extra-wide viewing angles of 178/178 degrees, making it possible to view the display from almost any angle. Unlike standard TN panels, AH-IPS displays give you remarkably crisp images with vivid colours, making them ideal not only for photos, movies and web browsing, but also for professional applications which demand colour accuracy and consistent brightness at all times.

## Ultra-Narrow Bezel

Utilising the latest technology panels, the new Philips displays are designed with a minimalistic

approach by limiting the outer bezel thickness to about 2.5 mm. Combined with an in-panel black matrix strip of around 9 mm, the overall bezel dimensions are reduced significantly, minimising distractions and maximising viewing size. Especially suited to multi-display or tiling setups 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 analyses the content displayed on your screen. Based on a scenario you select, SmartImage Lite dynamically enhances the contrast, colour saturation and sharpness of images and videos for ultimate display performance - all in real time with the press of a single button.

## HDMI Ready



An HDMI-ready device has all the required hardware to accept High-Definition Multimedia Interface (HDMI) input. An HDMI cable enables high-quality digital video and audio to be 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 colours, expect a true-to-life picture.

## TrueVision



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

## Superb glossy and textured finish

Superb glossy and textured finish

## VESA mount for convenience

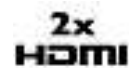
VESA mount for convenience

## Charge mobile device

Charge your mobile device while watching a movie

## Optional MHL cable

Optional MHL cable allows for HD video audio playback



# Specifications

## Connectivity

- Signal Input: HDMI (digital, HDCP), MHL-HDMI (digital, HDCP), VGA (Analogue)
- Sync Input: Separate Sync, Sync on Green
- Audio (In/Out): HDMI audio out

## Picture/Display

- Panel Size: 21.5 inch/54.6 cm
- Aspect ratio: 16:9
- LCD panel type: AH-IPS LCD
- Backlight type: W-LED system
- Pixel pitch: 0.248 x 0.248 mm
- Optimum resolution: 1920 x 1080 @ 60 Hz
- Brightness: 250 cd/m<sup>2</sup>
- Display colours: 16.7 M
- Contrast ratio (typical): 1000:1
- SmartContrast: 20,000,000:1
- Viewing angle: 178° (H)/178° (V), @ C/R &gt; 10
- Picture enhancement: SmartImage Lite
- Effective viewing area: 476.1 (H) x 267.8 (V)
- Scanning Frequency: 30–83 kHz (H)/56–75 Hz (V)
- sRGB
- SmartResponse (typical): 5 ms (Grey to Grey)
- MHL: 1080p@30Hz

## Convenience

- Plug and Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 7, Windows 8
- User convenience: Power On/Off, Menu, 4:3/ Wide, 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, Ukrainian
- Other convenience: Kensington lock, VESA mount (100 x 100 mm)

## Stand

- Tilt: -5/20 degree

## Power

- Power supply: External, 100–240 VAC, 50–60 Hz
- Off mode: 0.3 W (typ.)

- On mode: 20 W (typ.) (EnergyStar 6.0 test method)
- Standby mode: 0.5 W (typ.)
- Power LED indicator: Operation - White, Standby mode - White (flashing)

## Dimensions

- Product with stand (mm): 500 x 394 x 213 mm
- Packaging in mm (W x H x D): 562 x 466 x 106 mm
- Product without stand (mm): 500 x 306 x 47 mm

## Weight

- Product with packaging (kg): 5.01 kg
- Product with stand (kg): 3.14 kg
- Product without stand (kg): 2.82 kg

## Operating conditions

- Altitude: Operation: +12,000 ft (3658 m), Non-operation: +40,000 ft (12,192 m)
- Temperature range (operation): 0°C to 40°C °C
- MTBF: 30,000 hour(s)
- Relative humidity: 20%–80% %
- Temperature range (storage): -20°C to 60°C °C

## Sustainability

- Environmental and energy: EnergyStar 6.0, 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

- Colour: Black Cherry/Black
- Finish: Glossy

## What's in the box?

- Cables: VGA, Power
- Monitor with stand
- User Documentation



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\* Requires optional MHL-certified mobile device and MHL cable (not included). Please check with your MHL device vendor for compatibility.

\* "IPS" word mark / trademark and related patents on technologies belong to their respective owners.

\* Standby/Off energy saving of ErP is not applicable for the MHL charging functionality