

Philips  
IPS LCD monitor, LED  
backlight

**E Line**  
23" (58.4 cm)  
MHL Technology

**237E4QHAD**



## High-performance IPS display

with MHL technology

Experience big entertainment from your mobile device. This new Philips display with Mobile HD Link technology enables you to watch HD videos and other content directly from your MHL mobile device while charging it.

### **Elegant Design**

- Elegant, slim design complements your home decor
- Modern Touch controls
- Superb black cherry glossy finish

### **Superb Picture Quality**

- TrueVision ensures lab quality images
- SmartImage Lite for an enhanced LCD viewing experience
- 16:9 Full HD display for the best viewing experience
- IPS LED wide view technology for image and colour accuracy

### **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
- Powerful sound with 2 x 2 watts RMS speakers

**PHILIPS**

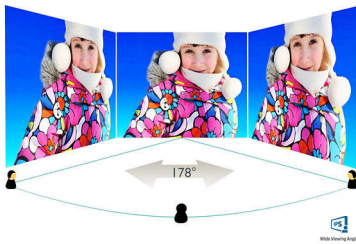
# Highlights

## 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.

## IPS technology



IPS displays use an advanced technology that 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, 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 that demand colour accuracy and consistent brightness at all times.

## 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



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).

## Built-in stereo speakers

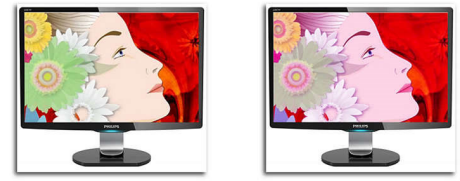
Now you can enjoy all your multimedia and social applications with stereo sound. These built-in speakers not only sound great, but also help you to get rid of external wire clutter and save valuable desktop space.

## 16:9 Full HD



The Full HD screen has the widescreen resolution of 1920 x 1080p. This is the highest resolution of HD sources for the best possible picture quality. It is fully future-proof as it supports 1080p signals from all sources, including the most recent sources such as Blu-ray and advanced HD game consoles. The signal processing is extensively upgraded to support this much higher signal quality and resolution. It produces brilliant flicker-free progressive scan pictures with superb brightness and colours.

## 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.

## Touch controls



Touch controls are intelligent, touch-sensitive icons that replace protruding buttons to allow users to adjust the monitor to their requirements. Responding to the lightest touch, Touch control gives the monitor a modern feel.

## Slim design

Elegant, slim design complements your home decor

## Superb black cherry

Superb black cherry glossy finish

## Optional MHL cable

Optional MHL cable allows for HD video audio playback

## Charge mobile device

Charge your mobile device while watching a movie



# Specifications

## Connectivity

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

## Picture/Display

- Panel Size: 23 inch/58.4 cm
- Aspect ratio: 16:9
- LCD panel type: IPS LCD
- Backlight type: W-LED system
- Pixel pitch: 0.265 x 0.265 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: 509.18 (H) x 286.41 (V)
- Scanning Frequency: 30–83 kHz (H)/56–75 Hz (V)
- sRGB
- SmartResponse (typical): 5 ms (Grey to Grey)
- MHL: 1080P @ 30 Hz

## Convenience

- Built-in Speakers: 2 W x 2
- Plug and Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 7/Vista/XP
- User convenience: SmartImage Lite, Input, Menu, Power On/Off, Volume
- OSD Languages: English, French, German, Italian, Portuguese, Russian, Simplified Chinese, Spanish, Turkish
- Other convenience: Kensington lock

## Stand

- Tilt: -5/20 degree

## Power

- Power supply: External, 100–240 VAC, 50–60 Hz
- Off mode: 0.3 W
- On mode: 28.6 W (EnergyStar 5.0 test method)
- Standby mode: 0.5 W
- Power LED indicator: Operation - White, Standby mode - White (flashing)

## Dimensions

- Product with stand (mm): 547 x 420 x 193 mm
- Packaging in mm (W x H x D): 600 x 500 x 100 mm
- Product without stand (mm): 547 x 335 x 37 mm

## Weight

- Product with packaging (kg): 4.17 kg
- Product with stand (kg): 2.82 kg
- Product without stand (kg): 2.52 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 5.0, RoHS, Mercury Free
- Recyclable packaging material: 100 %

## Compliance and standards

- Regulatory Approvals: BSMI, CE Mark, FCC Class B, GOST, PSB, SASO, SEMKO, TCO 5.2, TUV/ISO9241-307, UL/cUL, WEEE

## Cabinet

- Colour: Black Cherry
- Finish: Glossy



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\* 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.