

Philips  
LCD monitor with  
SmartImage lite

**E Line**  
28"/71.1 cm  
MHL Technology

**284E5QHAD**



## Vibrant images with MVA display with MHL technology

This big, attractive Philips display with slim bezel and MVA screen gives you awesome, vibrant colour images. Mobile HD link allows you to mirror your Smartphone, immersing you in powerful multimedia.

### **Awesome picture quality**

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

### **Stylish design**

- Superb glossy and textured finish
- VESA mount for convenience
- Elegant design with slim bezel

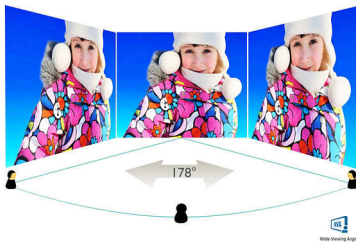
### **Entertainment with Mobile HD Link (MHL)**

- 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
- Superb 14-watt stereo sound

# PHILIPS

# Highlights

## MVA LED display



Philips MVA 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 optimised pixel management technology gives you an extra-wide viewing angle, resulting in crisp images.

## 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.

## 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.

## Superb 14-watt stereo sound

A pair of high-quality stereo speakers built into a display device. They may be visible front firing, or invisible down firing, top firing, rear firing etc. depending on model and design.

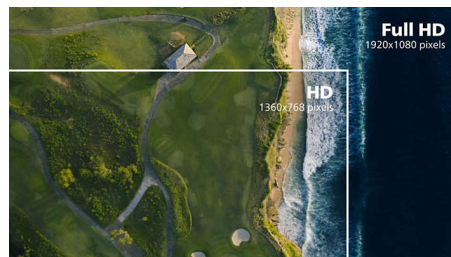
## HDMI Ready



HDMI-ready

An HDMI-ready device has all the required hardware to accept High-Definition Multimedia Interface (HDMI) input. 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).

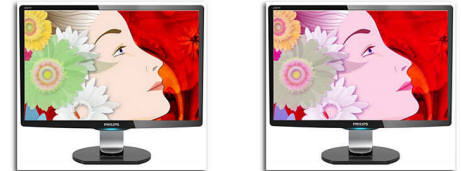
## 16:9 Full HD display



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 On

TrueVision Off

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

## Elegant design with slim bezel

Elegant design with slim bezel

# Specifications

## Connectivity

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

## Picture/Display

- Panel Size: 28 inch/71.1 cm
- Aspect ratio: 16:9
- LCD panel type: MVA
- Backlight type: W-LED system
- Pixel pitch: 0.32 x 0.32 mm (0.012" x 0.012")
- Optimum resolution: 1920 x 1080 @ 60 Hz
- Brightness: 300 cd/m<sup>2</sup>
- Display colours: 16.7 M
- Contrast ratio (typical): 3000:1
- SmartContrast: 20,000,000:1
- Response time (typical): 6.5 ms
- Viewing angle: 176° (H)/176° (V), @ C/R &gt; 10
- Picture enhancement: SmartImage Lite
- Effective viewing area: 619.8 (H) x 348.6 (V)
- Scanning Frequency: 30–83 kHz (H)/56–75 Hz (V)
- sRGB
- SmartResponse (typical): 4 ms (Grey to Grey)
- MHL: 1080p@30Hz

## Convenience

- Built-in Speakers: 7 watts x 2
- Plug and Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 7, Windows 8
- 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, Turkish, Traditional Chinese, 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: 23.18 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): 663 x 485 x 237 mm
- Packaging in mm (W x H x D): 711 x 542 x 116 mm
- Product without stand (mm): 663 x 390 x 54 mm

## Weight

- Product with packaging (kg): 6.60 kg
- Product with stand (kg): 4.73 kg
- Product without stand (kg): 4.21 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
- Finish: Glossy



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\* This Philips display is MHL-certified. However, if your MHL device does not connect or work correctly, check with your MHL device FAQ or vendor directly for instructions. The policy of your device manufacturer may require you to purchase its brand-specific MHL cable or adapter in order for it to work

\* 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

\* Smart response time is the optimum value from either GtG or GtG (BW) tests.