

# PHILIPS

LCD monitor with  
SoftBlue Technology

E Line

23" (58.4 cm)

1920 x 1080 (Full HD)

236E7EDAB



## SoftBlue Technology

developed for the wellbeing of your eyes

Designed for you: The elegant new Philips E-line monitor features new SoftBlue Technology for easy on the eyes brilliantly colored images.

### **Elegant Design**

- Elegant, slim design complements your home decor
- Superb glossy finish enhance your home decoration
- EasySelect menu toggle key for quick on-screen menu access

### **Experience immersive multimedia**

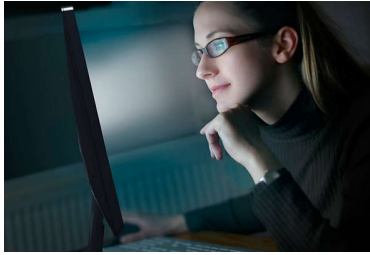
- MHL technology for enjoying mobile content on big screen
- Built-in stereo speakers for multimedia

### **Superb Picture Quality**

- SmartImage Lite for easy optimized image settings
- SmartContrast for deep black level details
- 16:9 Full HD display for crisp detailed images
- IPS LED wide view technology for image and color accuracy
- SoftBlue Technology easy on the eyes and maintains color
- Less eye fatigue with Flicker-free technology

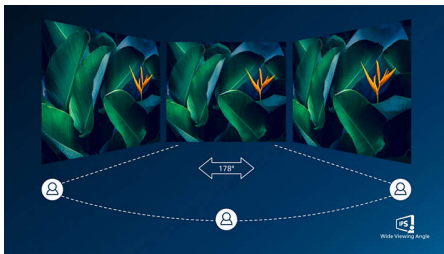
# Highlights

## SoftBlue Technology



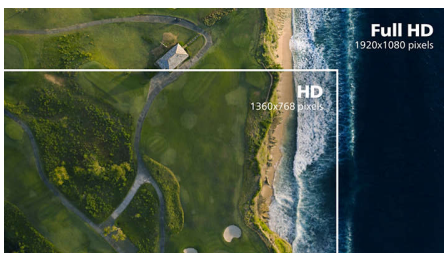
SoftBlue LED technology uses a smart technology to reduce harmful shortwave blue light without affecting the color or image of the display. SoftBlue LED technology is certified by international testing organizations TUV Rheinland to reduce harmful blue light.

## IPS technology



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, 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.

## 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.

## 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.

## 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.

## 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.

## EasySelect Menu Toggle Key



The discreetly placed EasySelect Menu Toggle Key allows you to make quick and easy adjustments to monitor settings in the On-Screen Display menu.

## 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.

## 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.



# Specifications

## Picture/Display

Panel Size: 23 inch / 58.4 cm  
Aspect ratio: 16:9  
LCD panel type: IPS technology  
Backlight type: W-LED system  
Pixel pitch: 0.265 x 0.265 mm  
Optimum resolution: 1920 x 1080 @ 60Hz  
Brightness: 250 cd/m<sup>2</sup>  
Display colors: 16.7 M  
Contrast ratio (typical): 1000:1  
SmartContrast: 20,000,000:1  
Response time (typical): 5 ms (Gray to Gray)\*  
Viewing angle: 178° (H) / 178° (V), @ C/R > 10  
Picture enhancement: SmartImage Lite  
Effective viewing area: 509.18 (H) x 286.41 (V)  
Scanning Frequency: 30 -83 kHz (H) / 56 -76 Hz (V)  
sRGB  
MHL: 1080p @ 60Hz  
SoftBlue  
Flicker-free  
Pixel Density: 95.78 PPI

## Connectivity

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

## Convenience

Built-in Speakers: 3 W x 2  
Plug & Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 10 / 8.1 / 8 / 7  
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, Ukrainian  
Other convenience: Kensington lock, VESA mount (100x100mm)

## Stand

Tilt: -5/20 degree

## Power

Power supply: External, 100-240VAC, 50-60Hz  
Off mode: 0.3 W (typ.)  
On mode: 15.11 W (typ.) (EnergyStar 7.0 test method)  
Standby mode: 0.5 W (typ.)  
Power LED indicator: Operation - White, Standby mode- White (blinking)

## Dimensions

Product with stand (mm): 532 x 414 x 179 mm  
Packaging in mm (WxHxD): 580 x 481 x 102 mm  
Product without stand (mm): 532 x 322 x 49 mm

## Weight

Product with packaging (kg): 4.93 kg  
Product with stand (kg): 3.50 kg  
Product without stand (kg): 2.96 kg

## Operating conditions

Altitude: Operation: +12,000ft (3,658m), Non-operation: +40,000ft (12,192m)  
Temperature range (operation): 0°C to 40°C °C  
MTBF: 50,000 (excluding backlight) hour(s)  
Relative humidity: 20%-80 %  
Temperature range (storage): -20°C to 60°C °C

## Sustainability

Environmental and energy: EnergyStar 7.0, RoHS, Mercury Free  
Recyclable packaging material: 100 %

## Compliance and standards

Regulatory Approvals: CE Mark, RCM, CECF, CU, SASO, KUCAS, cETLus, TUV/ISO9241-307, EPA, WEEE, TCO Certified, BSMI, FCC Class B, TUV Cert. - blue light cut-off

## Cabinet

Color: Black & Gunmetal  
Finish: Glossy



\* This Philips display is MHL certified. However, in case your MHL device does not connect or work correctly, check with your MHL device FAQ or vendor directly for direction. The policy of your device manufacturer may require you to purchase their brand specific MHL cable or adapter in order 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  
\* For complete list of MHL-enabled products refer to [www.mhlconsortium.org](http://www.mhlconsortium.org)  
\* "IPS" word mark / trademark and related patents on technologies belong to their respective owners.  
\* Response time value equal to SmartResponse