



Philips  
LCD monitor with HDMI ,  
Audio

58 cm (23") w E-line  
1920x1080 Full HD

230E1HSB

## HDMI display for Full-HD entertainment

Entertain yourself like never before with Full HD 1080p performance! Combined with HDMI and Digital inputs, front firing stereo audio and sleek Glossy design, the 230E1 is ready to rock your world.

### **Great picture quality**

- Full HD LCD display, 1920x1080p resolution
- 5ms fast response time
- SmartContrast 25000:1 for incredible rich black details
- DVI signal input for full HD performance with HDCP

### **Design that complements any interior**

- Glossy finish to enhance your decor

### **Experience true multimedia**

- HDMI-ready for top quality, multimedia experience
- Built in stereo audio for multimedia experience

### **Great convenience**

- Easy picture format control switching in wide and 4:3 format

# PHILIPS

# Highlights

## Full HD 1920x1080p LCD display

Enjoy crisp and crystal clear picture quality to give your audience a truly memorable visual experience. Your viewers will be treated to unsurpassed video, with an amazing color gamut and the sharpest pictures around.

## 5ms on/off response time

On-Off response time is the period required for a liquid crystal cell to go from active (black) to inactive (white) and back to active (black) again. It is measured in milliseconds. Faster is better: Lower response time means faster transitions and, therefore, results in fewer visible image artifacts in the display of transition of texts and graphics. On-Off response time is a more important measure in the display of business content like documents, graphs and photos.

## SmartContrast ratio 25000:1



With SmartContrast



Without SmartContrast

You want the LCD flat display with the highest contrast and most vibrant images. Philips advanced video processing combined with

unique extreme dimming and backlight boosting technology results in vibrant images. SmartContrast will increase the contrast with excellent blacklevel and accurate rendition of dark shades and colors. It gives a bright, lifelike picture with high contrast and vibrant colors.

## DVI signal with HDCP

High-Bandwidth Digital Content Protection (HDCP) is a copyright protection system that is incorporated into the DVI connector. It helps stop unauthorized duplication of copyrighted content. HDCP allows you to play protected content media such as movies and concerts. It checks the signal to prevent piracy, allowing only legal copies of content to display.

## HDMI Ready



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).

## Easy picture format control



Widescreen format

4:3 format

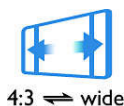
Philips easy picture format control on OSD is to switch from the 4:3 aspect ratio to the widescreen mode and back again to match the display's aspect ratio with your content for working with wide documents without scrolling or viewing widescreen media in the widescreen mode and distortion-free, native mode display of 4:3 ratio content.

## Glossy finish

An attractive, elegantly finished glossy finish that fits in with and complements your decor.

## Built-in stereo audio

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.



# Specifications

## Connectivity

- Signal Input: VGA (Analog ), DVI-D, HDMI
- Sync Input: Separate Sync, Sync on Green
- HDMI features: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p (support HDCP)

## Picture/Display

- Panel Size: 23 inch / 58.42 cm
- Aspect ratio: 16:9
- LCD panel type: TFT-LCD
- Pixel pitch: 0.265 x 0.265 mm
- Optimum resolution: 1920 x 1080 @ 60Hz
- Brightness: 300 cd/m<sup>2</sup>
- Display colors: 16.7 M
- SmartContrast: 25000:1
- Response time (typical): 5 ms
- Viewing angle: 176° (H) / 170° (V), @ C/R > 5
- Scanning Frequency: 30 - 83 kHz (H) / 56 - 76 Hz (V)
- sRGB

## Convenience

- Plug & Play Compatibility: DDC/CI, Windows 7/ Vista/XP/2000/98, sRGB
- Built-in Audio: 2W x 2
- User convenience: SmartImage, Volume, Menu, Input, Auto, Power On/Off, On-screen Display
- OSD Languages: English, French, German, Italian, Russian, Simplified Chinese, Spanish, Portuguese, Turkish
- Other convenience: Kensington lock

## Stand

- Tilt: -5/20 degree

## Power

- Power supply: Built-in, 100-240VAC, 50/60Hz
- Off mode: < 0.5 W
- On mode: < 29.8W (EnergyStar 5.0 test method)
- Power LED indicator: Operation - Blue, Stand by/ sleep -blue(blinking)

## Dimensions

- Product with stand (mm): 547 x 433 x 201 mm
- Packaging in mm (WxHxD): 596 x 495 x 134 mm
- Product without stand (mm): 351 x 547 x 68 mm

## Weight

- Product with packaging (kg): 7.3 kg
- Product with stand (kg): 5.6 kg
- Product without stand (kg): 5.2 kg

## Operating conditions

- Temperature range (operation): 0 - 40 °C
- MTBF: 50,000 hour(s)
- Relative humidity: 20 - 80 %
- Temperature range (storage): -20 - 60 °C

## Sustainability

- Environmental and energy: EPEAT Silver, RoHS, EnergyStar 5.0

## Compliance and standards

- Regulatory Approvals: CE Mark, FCC, Class B, UL/cUL

## Cabinet

- Color: Black
- Finish: Glossy

