



Philips  
LCD monitor with  
SmartTouch

56 cm (22") w E-line  
1920 x 1080 Full HD

223E1SB

## Full-HD display with SmartTouch controls

Enjoy more with this attractive 16:9 Full HD display! With SmartTouch controls, VGA inputs, Auto format, SmartContrast and Glossy finish, the 223E1 is a great choice for all your needs

### Great picture quality

- Full HD LCD display, 1920 x 1080p resolution
- 16:9 display for best widescreen gaming and video
- SmartContrast 25000:1 for incredible rich black details
- 5 ms fast response time

### Design that complements any interior

- Glossy finish to enhance your decor
- Small footprint to blend into any lifestyle

### Environmentally friendly green design

- Energy Star for energy efficiency and low power consumption
- Eco-friendly materials that meet international standards

### Great convenience

- Stylish SmartTouch controls
- Easy picture format control switching between wide and 4:3 formats

# PHILIPS

LCD monitor with SmartTouch  
56 cm (22") w E-line 1920 x 1080 Full HD

## Highlights

### Full HD 1920 x 1080p 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 colour gamut and the sharpest pictures around.

### 16:9 widescreen aspect ratio

An aspect ratio is an expression of a video image's width compared to its height. The 16:9 widescreen aspect ratio is standard for universal to high-definition television and European digital television. A native 16:9 aspect ratio means outstanding game and video display without bars at top and bottom of the picture and without the quality loss than comes from scaling, altering an image to fit on a different screen size.

### 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 black level and accurate rendition of dark shades and colours. It gives a bright, lifelike picture with high contrast and vibrant colours.

### 5 ms 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 artefacts 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.

### Energy Star 5.0

Energy Star is a US EPA sponsored energy efficiency programme also adopted by many other countries.

Energy Star certification ensures that you are buying a product which meets the latest power efficiency standards and which operates with maximum power efficiency at all operational levels. New Philips monitors are certified for Energy Star 5.0 specifications and meet or exceed the standard. For example, in sleep mode Energy Star 5.0 requires less than 1 Watt power consumption, whereas Philips monitors consume less than 0.5 Watts. Further details can be obtained from [www.energystar.gov](http://www.energystar.gov)

### SmartTouch controls



SmartTouch controls are intelligent, touch sensitive icons that replace protruding buttons. Responding to your lightest touch, SmartTouch controls, for example, power up your monitor or brighten and sharpen your display with SmartImage Lite. When activated, SmartTouch icons glow to indicate that your commands have been implemented.

### Easy picture format control



Widescreen format

4:3 format

Philips easy picture format control on OSD switches from the 4:3 aspect ratio to the widescreen mode and back again to match the display's aspect ratio with your content; it allows you to work with wide documents without scrolling or viewing widescreen media in the widescreen mode and gives you distortion-free, native mode display of 4:3 ratio content.

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## Specifications

### Picture/Display

- LCD panel type: TFT-LCD
- Panel Size: 21.5 inch/54.61 cm
- Aspect ratio: 16:9
- Pixel pitch: 0.248 x 0.248 mm
- Viewing angle: 176° (H)/170° (V), @ C/R > 5
- Brightness: 250 cd/m<sup>2</sup>
- SmartContrast: 25000:1
- Response time (typical): 5 ms
- Optimum resolution: 1920 x 1080 @ 60 Hz
- Display colours: 16.7 M
- Scanning Frequency: 30–83 kHz (H)/56–75 Hz (V)
- sRGB

### Connectivity

- Signal Input: VGA (Analogue)
- Sync Input: Separate Sync, Sync on Green

### Convenience

- User convenience: Brightness, Menu, Auto, Power On/Off
- OSD Languages: English, French, German, Spanish, Italian, Russian, Simplified Chinese, Portuguese, Turkish
- Other convenience: VESA mount (100 x 100 mm), Kensington lock
- Plug and Play Compatibility: DDC/CI, Windows 7/ Vista/XP/2000/98, Mac OS X, sRGB

### Stand

- Tilt: -5/20 degree

### Power

- Power LED indicator: Operation - White, Standby/sleep-white (flashing)
- Power supply: Built-in, 100-240 VAC, 50/60 Hz
- On mode: < 19.21 W (EnergyStar 5.0 test method)
- Standby mode: < 0.8 W
- Off mode: < 0.5 W

### Dimensions

- Product with stand (mm): 398 x 517 x 200 mm
- Product without stand (mm): 312 x 517 x 61 mm
- Packaging in mm (W x H x D): 442 x 582 x 140 mm

### Weight

- Product with stand (kg): 4.03 kg
- Product without stand (kg): 3.71 kg
- Product with packaging (kg): 5.23 kg

### Operating conditions

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

### Sustainability

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

### Compliance and standards

- Regulatory Approvals: CE Mark, FCC, Class B, SEMKO, TCO 5.0, UL/cUL

### Cabinet

- Colour: Black
- Finish: Glossy



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