



Philips Brilliance  
LCD monitor with  
SmoothTouch

23" (58.4 cm)



231C5TJKFU

## Brilliant interactive display

with SmoothTouch

Get engaged with Philips SmoothTouch display. Groovy touch gestures like tap, grab, pinch, rotate, zoom, swipe brings your apps to life. Interactive touch games get more exciting. Now you can explore the world with 10 fingertips!

### Brilliant interactive display

- Edge-to-edge glass, 10 point touch for ultimate experience
- Groovy touch gestures brings all your applications to life
- Play exciting touch games with your friends
- SmoothTouch display for natural, fluid touch response
- IPS LED wide view technology for image and color accuracy

### Social multimedia

- Powerful sound with 2x2 watts RMS speakers
- Optional MHL cable allows for HD video audio playback
- Webcam and mic keeps you connected with family and friends

### Easy to experience

- SmartConnect with DisplayPort, HDMI and VGA connections
- SmartStand design with maximum lean back for comfortable use
- USB 3.0 enables fast data transfers and smart phone charging
- VESA mount for convenience

# PHILIPS

# Highlights

## SmoothTouch



This Philips display uses Projected capacitive 10 point touch technology for fluid response. You can fully utilize the new capabilities of touch based applications, and bring your older applications to life. Touch-type with 10 fingers, or play exciting interactive games with your friends. Collaborate with colleagues interactively at work or school environment and increase your productivity and efficiency.

## SmartStand



This Philips display uses SmartStand with maximum lean back which enables you to use it in various ergonomic positions, like never before. With just under 60 degree lean back position, you can now interact with the display naturally to touch and type. Or you can use it in upright position to sit and do some serious work. With built-in auto return mechanism, this SmartStand offers you a high level of flexibility.

## SmartConnect

With a plethora of connectivity, these Philips displays come equipped with multi connections like VGA, Display Port, universal HDMI connector, enabling you to enjoy high resolution uncompressed video and audio

content. USB connections ensures that you can have super speed data transfers while having global connectivity. Regardless of what source you use, you can rest assured that this Philips display will ensure your investment is not made obsolete any time soon!

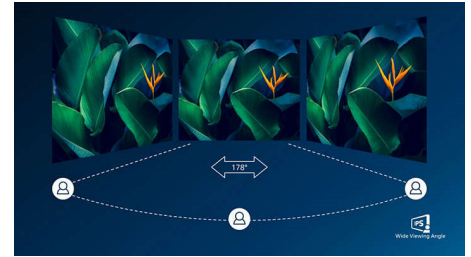
## Socialize with webcam

Embedded webcam with superb, bright and crisp images enables you to socialize with your family and friends. Its sensitive microphone ensures that your voice carries through clearly. You can hear clear audio either from its built in stereo speakers, or attach your own headphones for private conversation. This simple built-in solution ensures that you don't have to tangle with installing camera and positioning microphones anymore.

## USB 3.0 super speed

Super Speed USB 3.0 deploys 5.0 gbit/s transfer rate, which is about 10 times faster than USB 2.0 standard significantly reducing data transfer time saving you time and money. With more bandwidth, super speed transfer rates, better power management and superior overall performance, USB 3.0 sets the global standard allowing you to use the large capacity storage devices. Sync-N-Go technology ensures you don't have to wait anymore for bandwidth to be freed up. Your investment in USB 2.0 devices is protected as it is backward compatible.

## 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.

## 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 helps you to get rid of external wire clutter and save valuable desktop space.

## Optional MHL cable

Optional MHL cable allows for HD video audio playback

## VESA mount for convenience

VESA mount for convenience

## Play touch games with friends

Play exciting touch games with your friends

## Edge-to-edge glass

Edge-to-edge glass, 10 point touch for ultimate experience

## Groovy touch gestures

Groovy touch gestures brings all your applications to life



# Specifications

## Connectivity

- Signal Input: VGA (Analog), DisplayPort x 1, HDMI (digital, HDCP), MHL-HDMI (digital, HDCP)
- USB: USB 3.0 x 2
- Sync Input: Separate Sync, Sync on Green
- Audio (In/Out): PC audio-in, Headphone out
- Mic in
- Webcam: 1 MP

## Picture/Display

- Panel Size: 23 inch/58.4 cm
- Aspect ratio: 16:9
- LCD panel type: IPS LCD with 10 point Touch
- Backlight type: W-LED system
- Pixel pitch: 0.265 x 0.265 mm
- Optimum resolution: 1920 x 1080 @ 60 Hz
- Brightness: 300 cd/m<sup>2</sup>
- Display colors: 16.7 M
- Contrast ratio (typical): 1000:1
- SmartContrast: 20,000,000:1
- Response time (typical): 14 ms
- Viewing angle: 178° (H) / 178° (V), @ C/R &gt; 10
- Picture enhancement: SmartImage
- Effective viewing area: 509.18 (H) x 286.42 (V)
- Scanning Frequency: 30 - 90 kHz (H) / 56 -75 Hz (V)
- sRGB
- SmartResponse (typical): 5 ms (Gray to Gray)
- MHL

## Touch screen capabilities

- Glass screen: Tempered
- Input method: Finger or capacitive stylus
- Surface hardness: &gt;=7H
- Transmission rate: &gt;=88%
- Multi-touch: Grab, Rotate, Double-tap, Zoom in/out
- Single-touch: Flick, Scroll, Tap, Drag
- Touch activation: Via direct USB connection with PC
- Touch method: 10 point simultaneous recognition

## Convenience

- Plug & Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 7, Windows 8
- Built-in Audio: 2 W x 2
- User convenience: Power On/Off, Menu/OK, Volume/Up, Input/Down, SmartImage/Back
- 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 (75x75mm)

## Stand

- Tilt: 12~57.5 degree

## Power

- Power supply: External, 100-240VAC, 50-60Hz
- Off mode: 0.3 W (typ.)
- On mode: 26.27 W (typ.)
- Standby mode: 0.5 W (typ.)
- Power LED indicator: Operation - White, Standby mode- White (blinking)

## Dimensions

- Product with stand (mm): 563 x 406 x 72 mm
- Packaging in mm (WxHxD): 619 x 479 x 125 mm
- Product without stand (mm): 563 x 370 x 45 mm

## Weight

- Product with packaging (kg): 7.07 kg
- Product with stand (kg): 5.16 kg
- Product without stand (kg): 4.80 kg

## Operating conditions

- Altitude: Operation: +12,000ft (3,658m), Non-operation: +40,000ft (12,192m)
- Temperature range (operation): 0 to 40 °C
- MTBF: 30,000 hour(s)
- Relative humidity: 20%-80 %
- Temperature range (storage): -20 to 60 °C

## Sustainability

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

## Compliance and standards

- Regulatory Approvals: BSMI, CE Mark, cETLus, FCC Class B, SASO, SEMKO, TUV/ISO9241-307, WEEE, CU, TCO Certified

## Cabinet

- Finish: High Glossy (front bezel) / Textured (rear cover)
- Front bezel: Cool Gray
- Rear cover: Cool Gray



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\* The touch function requires USB cable connection to your PC.  
Works only on Touch capable OS and applications like Windows 8,  
or 7.

\* 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.

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