



Philips Brilliance  
LCD monitor with  
SmartImage

**Gioco**  
23"/58.4 cm  
3D, FPR glasses

**Brilliance**

**238G4DHSD**

## Stylish, high-performance display for immersive 3D gaming

Intensify your gaming experience with this stylish Philips Gioco 3D display. With its iconic design using ultra-narrow bezel, brilliant colours and superb flicker-free 3D performance, the Philips Gioco is ready to immerse you in gaming!

### **Brilliant performance**

- AH-IPS LED gives brilliant images with vivid colours
- SmartControl: For easy display tuning
- HDMI-ready for Full HD entertainment

### **Immersive 3D gaming**

- Flicker-free 3D performance
- Play 3D games on your PC with bundled software
- Auto 3D with the latest Blu-ray and game consoles with HDMI
- Transform 2D to 3D with direct key access
- SmartImage game mode optimised for gamers

### **Iconic design reflects your lifestyle**

- Minimalistic looks with Ultra-Narrow Bezel
- Iconic design with diamond-faceted back
- Superb black cherry glossy finish



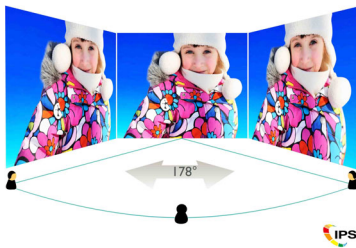
product  
design award

2013

**PHILIPS**

# Highlights

## AH-IPS technology



This latest Philips display uses advanced AH-IPS panels utilising improved structure resulting in superior colour reproduction, response time and power consumption compared to other wide view angle panels. Unlike standard TN panels, AH-IPS panels exhibit the smallest amount of Gamma fluctuation and therefore are able to show consistent colour even at 178/178 degrees and in pivot mode. With a remarkable performance, it is best suited to applications demanding colour accuracy and consistent brightness at all times like photo retouching, graphics applications and web browsing.

## Ultra-Narrow Bezel

Utilising the latest technology panels, the new Philips displays are designed with a minimalistic approach by limiting the outer bezel thickness to about 2.5 mm. Combined with an in-panel black matrix strip of around 9 mm, the overall bezel dimensions are reduced significantly, minimising distractions and maximising viewing size. Especially suited to multi-display or tiling setups like gaming, graphics design and professional applications, the Ultra-narrow bezel display gives you the feeling of using one large display.

## Flicker-free 3D

Flicker-free 3D ensures that you get long hours of comfortable entertainment. Its affordable, lightweight zero-flicker glasses do not require any batteries or cable connections. Now finally you can set yourself free from all the hassles and enjoy 3D performance with your family!

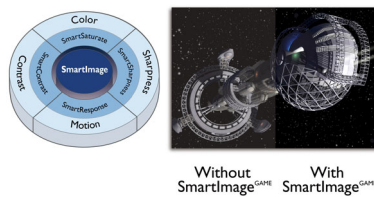
## Auto 3D with HDMI

With Blu-ray gaming and movie players with HDMI 1.4a compatible connection, the Philips 3D display will auto-switch to 3D mode and give you awesome images straight away. No more fussing with adjustments!

## Transform 2D to 3D

Transform your 2D collection to 3D at the push of a button! Easily accessible via a hot key on the bezel, this feature will re-invent your favourite 2D collection of games, movies and video to 3D.

## SmartImage Game mode



The new Philips gaming display has quick-access OSD fine-tuned for gamers, offering you multiple options. "FPS" mode (First person shooting) improves dark themes in games, allowing you to see hidden objects in dark

areas. "Racing" mode adapts the display with the fastest response time and high colour, along with image adjustments. "RTS" mode (Real-time strategy) has a special SmartFrame mode that enables highlighting of specific area and allows for size and image adjustments. Gamer 1 and Gamer 2 enable you to save personal customised settings based on different games, ensuring best performance.

## SmartControl

PC software for fine tuning display performance and settings. Philips offers users two choices for display setting adjustment. Either navigate the multi-level On-Screen Display menu through buttons on the display itself or use the Philips SmartControl software to easily adjust the various display settings in a familiar way

## HDMI Ready



HDMI ready

An HDMI-ready device has all the required hardware to accept High-Definition Multimedia Interface (HDMI) input, high quality digital video and audio signals all transmitted over a single cable from a PC or any number of AV sources including set-top boxes, DVD players and A/V receivers and video cameras.



## iF Product Design Award

Philips Gioco wins iF design award  
Excellent product design.  
The iconic-design, slim

Philips Gioco 3D monitor with Ambiglow technology gives you immersive gaming. Its minimalistic ultra-narrow bezel with AHIPS screen ensures brilliant images and underpins its tag line "Brilliant Ambiglow display"



# Specifications

## Picture/Display

- LCD panel type: IPS LCD
- Backlight type: W-LED system
- Panel Size: 23 inch/58.4 cm
- Aspect ratio: 16:9
- Optimum resolution: 1920 x 1080 @ 60 Hz
- Response time (typical): 14 ms
- SmartResponse: 7 ms in 2D mode
- Brightness: 250 cd/m<sup>2</sup>
- Contrast ratio (typical): 1000:1
- SmartContrast: 20,000,000:1
- Pixel pitch: 0.265 x 0.265 mm
- Viewing angle: 178° (H)/178° (V), @ C/R > 10
- 3D Viewing angle: 60° @ 3D CT < 10
- Picture enhancement: SmartImage game
- Display colours: 16.7 M
- Effective viewing area: 509.2 (H) x 286.4 (V) mm
- Scanning Frequency: 30 - 83 kHz (H) / 50 - 75 Hz (V)
- sRGB

## Connectivity

- Signal Input: VGA (Analogue), HDMI x 2
- Sync Input: Separate Sync, Sync on Green
- Audio (In/Out): HDMI audio out

## Convenience

- User convenience: 3D/Up, SmartImage game/Back, Input, Menu/OK, Power On/Off
- OSD Languages: English, French, German, Italian, Portuguese, Russian, Simplified Chinese, Spanish
- Other convenience: Kensington lock
- Plug and Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 7, Windows 8

## Stand

- Tilt: -5/+20 degree

## Power

- On mode: 22.69 W (typ.) (energyStar 5.0 test method)
- Standby mode: 0.5 W (typ.)

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

## Dimensions

- Product with stand (mm): 533 x 414 x 197 mm
- Product without stand (mm): 533 x 324 x 44 mm
- Packaging in mm (W x H x D): 591 x 460 x 134 mm

## Weight

- Product with stand (kg): 3.80 kg
- Product without stand (kg): 3.35 kg
- Product with packaging (kg): 5.92 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% %
- Altitude: Operation: +12,000 ft (3658 m), Non-operation: +40,000 ft (12,192 m)
- MTBF: 30,000 hour(s)

## Sustainability

- Environmental and energy: EPEAT Silver, EnergyStar 5.0, RoHS, Lead-free, Mercury Free
- Recyclable packaging material: 100 %

## Compliance and standards

- Regulatory Approvals: BSMI, CE Mark, FCC Class B, GOST, SEMKO, TCO certified, TUV/ISO9241-307, UL/cUL, WEEE

## Cabinet

- Colour: Black Cherry
- Finish: Glossy

## 3D Requirements

- Software: Free Tridef 3D software bundle
- PC hardware: Requires AMD/nVidia VGA card\*, 2D to 3D: Support all VGA cards
- Auto 3D: Requires HDMI 1.4a



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[www.philips.com](http://www.philips.com)

\* If you experience any discomfort such as dizziness, headache or disorientation, we recommend not watching 3D for extended periods of time.

\* Parents should monitor their children during 3D viewing and ensure they do not experience any discomfort as mentioned above. Watching 3D is not recommended for children under 6 years of age.

\* Please read the instruction manual carefully to learn more about 3D and health

\* For VGA card and other requirements for 3D operation, please visit [www.philips.com/support](http://www.philips.com/support) for further details.