



LCD monitor with SmartImage

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

238G4DHSD/00

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!

Benefits

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
- Auto 3D with the latest Blu-ray and game consoles with HDMI
- Play 3D games on your PC with bundled software

- 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

PHILIPS

Features

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.

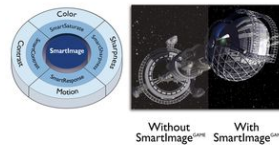
Specifications

Please note that this is a pre-sales leaflet. The contents of this leaflet reflect the best of our knowledge per date and country mentioned above. The contents of this leaflet are subject to change without notice. Philips does not accept any liability as to the contents of this leaflet.

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 ²
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

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



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.

Scanning Frequency	30 - 83 kHz (H) / 50 - 75 Hz (V)
sRGB	Yes

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

Other convenience Plug and Play Compatibility	Italian Portuguese Russian Simplified Chinese Spanish Kensington lock DDC/CI Mac OS X sRGB Windows 7 Windows 8
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Stand

Tilt	-5/+20 degree
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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
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Cabinet

Colour Finish	Black Cherry Glossy
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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

* 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 for further details.



data subject to change
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