

Philips Gaming Monitor  
Quad HD gaming monitor

## Momentum 5000

27" (68.5 cm)  
2560 x 1440 (QHD)

27M1N5500ZA



## Feel your game

This Philips gaming monitor delivers crystal-clear visuals and smooth gameplay. FreeSync, rapid 170Hz refresh rate with HDR create a polished and lifelike experience. The slim-frame display with Ultra Wide-Color enhances visual immersion.

### The gaming advantage is yours

- AMD FreeSync™ Premium; tear free, stutter free, fluid gaming
- Certified NVIDIA® G-SYNC® compatible for smooth, fast gaming
- 170 Hz refresh rates for ultra-smooth, brilliant images
- 1 ms (MPRT) fast response for crisp images and smooth gameplay
- Low input lag reduces time delay between devices to monitor

### Immersive visuals

- IPS Nano colour technology extends gamut for vibrant visuals
- Crystal clear images with Quad HD 2560 x 1440 pixels
- Ultra Wide-Color wider range of colours for a vivid picture
- SmartImage HDR gives optimal viewing from your HDR content

### Features designed for you

- LowBlue mode and Flicker-free easy-on-the eyes viewing
- Built-in stereo speakers for multimedia
- SmartErgoBase enables user-friendly ergonomic adjustments



# PHILIPS

Quad HD gaming monitor  
Momentum 5000 27" (68.5 cm), 2560 x 1440 (QHD)

# Highlights

## IPS Nano Color



For critical imaging, gaming and productivity needs, Nano IPS display provides precise colour accuracy across a wide viewing angle without colour shift. Richer reds, lush greens and deeper blues. Ultra Wide-Color with IPS Nano Color technology uses KSF enhanced phosphor nanoparticles to absorb excess light created by the screen to produce amazing colour. True-to-life colour. Our display panels achieve up to 98% coverage of the DCI-P3 colour gamut standard for colour purity as defined by The Society of Motion Pictures and Television Engineers for cinematic picture quality.

## AMD FreeSync™ Premium



Gaming shouldn't be a choice between choppy gameplay or broken frames. AMD FreeSync™ Premium equips serious gamers with a fluid, tear-free gameplay experience at peak performance. There are no compromises, game confidently with a high refresh rate, low framerate compensation and low latency.

## NVIDIA® G-SYNC® compatible



When playing intense games with high refresh rates, screen tearing may appear without optimal graphics synchronisation. This Philips Momentum display is certified as NVIDIA® G-SYNC® compatible, reducing screen tearing and syncing your monitor's refresh rate with your graphic card's output for a smoother gaming experience. Scenes appear instantly, objects look sharper, and gameplay is smooth, giving you a stunning visual experience and a serious competitive edge.

## 170 Hz Gaming



You play intense, competitive games. You demand a display with lag-free, ultra-smooth images. This Philips display redraws the screen image up to 170 times per second, effectively faster than a standard display. A lower frame rate can make enemies appear to jump from spot to spot on the screen, making them difficult targets to hit. With a 170 Hz frame rate, you get those critical missing images on the screen, showing enemy movement in ultra-

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smooth motion so you can easily target them. With ultra-low input lag and no screen tearing, this Philips display is your perfect gaming partner

## 1 ms MPRT fast response



MPRT (motion picture response time) is a more intuitive way to describe response time, which directly refers to the duration between seeing blurry noise and clean, crisp images. The Philips gaming monitor with 1 ms MPRT effectively eliminates smearing and motion blur and delivers sharper and more precise visuals to enhance your gaming experience. The best choice for playing thrilling and twitch-sensitive games.

## Low Input Lag



Input lag is the amount of time that elapses between performing an action with connected devices and seeing the result on screen. Low input lag reduces the time delay between entering a command from your devices to monitor, greatly improving play on twitch-sensitive video games, particularly important for playing fast-paced, competitive games.



# Specifications

## Picture/Display

- LCD panel type: Nano IPS
- Backlight type: W-LED system
- Panel Size: 27 inch / 68.5 cm
- Display Screen Coating: Anti-Glare, 3H, Haze 25%
- Effective viewing area: 596.736 (H) x 335.664 (V)
- Aspect ratio: 16:9
- Maximum resolution: 2560 x 1440 @ 170 Hz\* (DP -> overclock); 2560 x 1440 @ 144 Hz (HDMI)
- Pixel Density: 108.79 PPI
- Response time (typical): 1 ms (Grey to Grey)\*
- MPRT: 1 ms
- Low Input Lag
- Brightness: 350 cd/m<sup>2</sup>
- SmartContrast: Mega Infinity DCR
- Contrast ratio (typical): 1000:1
- Pixel pitch: 0.2331 x 0.2331 mm
- Viewing angle: 178° (H)/178° (V), @ C/R > 10
- Flicker-free
- HDR: HDR Ready
- Colour gamut (min.): DCI-P3 98%\*
- Colour gamut (typical): NTSC 113%\*, sRGB 133%\*, Adobe RGB 93%\*
- Picture enhancement: SmartImage game
- Display colours: Colour support 1.07 Billion colours
- Scanning Frequency: HDMI: 30 - 230 kHz (H) / 48 - 144 Hz (V); DP: 30 - 255 kHz (H) / 48 - 170 Hz (V)
- SmartUniformity: 97 ~ 102%
- Delta E: < 2 (sRGB)
- sRGB
- LowBlue Mode
- EasyRead
- AMD FreeSync™ technology: Premium
- G-SYNC: Compatible\*

## Connectivity

- Signal Input: HDMI 2.0 x 2, DisplayPort 1.4 x 2
- HDCP: HDCP 2.2 (HDMI/DisplayPort)
- USB: USB-B x 1 (upstream), USB 3.2 x 4 (downstream with 2 fast charge B.C 1.2)
- Audio (In/Out): Audio out
- Sync Input: Separate Sync

## Convenience

- Built-in Speakers: 5 W x 2
- User convenience: Power On/Off, Menu/OK, Input/Up, Game Settings/Down, SmartImage game/Back
- OSD Languages: Brazil Portuguese, Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Simplified Chinese, Swedish, Turkish, Traditional Chinese, Ukrainian
- Other convenience: Kensington lock, VESA mount (100 x 100 mm)
- Plug and Play Compatibility: DDC/CI, Mac OS X,

sRGB, Windows 10 / 8.1 / 8 / 7

## Stand

- Height adjustment: 130 mm
- Pivot: -/+ 90 degree
- Swivel: -/+ 45 degree
- Tilt: -5/20 degree

## Power

- On mode: 31.8 W (typ.)
- Standby mode: 0.5 W (typ.)
- Off mode: 0.3 W (typ.)
- Energy Label Class: G
- Power LED indicator: Operation - White, Standby mode - White (flashing)
- Power supply: External, 100–240 VAC, 50–60 Hz

## Dimensions

- Product with stand (max height): 614 x 549 x 212 mm
- Product without stand (mm): 614 x 363 x 43 mm
- Packaging in mm (W x H x D): 780 x 521 x 224 mm

## Weight

- Product with stand (kg): 4.80 kg
- Product without stand (kg): 3.40 kg
- Product with packaging (kg): 9.74 kg

## Operating conditions

- Temperature range (operation): 0°C to 40 °C
- Temperature range (storage): -20°C to 60 °C
- Relative humidity: 20%-80 %
- Altitude: Operation: +12,000 ft (3658 m), Non-operation: +40,000 ft (12,192 m)
- MTBF: 50 000 (Excluded backlight) hour(s)

## Sustainability

- Environmental and energy: RoHS
- Recyclable packaging material: 100 %
- Specific Substances: Mercury free, PVC/BFR free housing

## Compliance and standards

- Regulatory Approvals: CB, CU-EAC, EAEU RoHS, TUV/ISO9241-307, TUV-BAUART, CE Mark, FCC Class B, ICES-003

## Cabinet

- Colour: Black
- Finish: Textured

## What's in the box?

- Monitor with stand
- Cables: HDMI cable, DisplayPort cable, USB upstream cable, Power cable
- User Documentation

- \* "IPS" word mark / trademark and related patents on technologies belong to their respective owners.
- \* The maximum resolution works for DP input only.
- \* For best output performance, please always ensure that your graphic card is capable of achieving the maximum resolution and refresh rate of this Philips display.
- \* Response time value equal to SmartResponse
- \* MPRT adjusts the brightness for blur reduction, so the brightness cannot be adjusted while MPRT is turned on. To reduce motion blur, the LED backlight will strobe in time with the screen refresh rate, which may cause a noticeable change in brightness.
- \* MPRT is a gaming-optimised mode. Turning on MPRT may cause noticeable screen flickering. It is recommended to turn this mode off when you are not using the gaming function.
- \* Display colours: 10 bits only can be reached by QHD @ 120 Hz
- \* DCI-P3 Coverage based on CIE1976
- \* NTSC Area based on CIE 1976
- \* sRGB Area based on CIE1931
- \* Adobe RGB Coverage based on CIE 1976
- \* 2020 Advanced Micro Devices, Inc. All rights reserved. AMD, the AMD Arrow logo, AMD FreeSync™ and combinations thereof are trademarks of Advanced Micro Devices, Inc. Other product names used in this publication are for identification purposes only and may be trademarks of their respective companies.
- \* NVIDIA® G-SYNC® support interface: DisplayPort
- \* Make sure to update NVIDIA® G-SYNC® driver to the latest version, see more information on NVIDIA website: <https://www.nvidia.com/>
- \* Make sure that your graphic card supports NVIDIA® G-SYNC®
- \* The monitor may look different from feature images.



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