

# PHILIPS

QHD LCD monitor

Gaming Monitor

Momentum

27" (68.5 cm)

2560 x 1440 (QHD)

275M1RZN



## Take gaming to the next level

This Momentum QHD gaming monitor delivers a new level of immersion. AMD FreeSync™, LowInput lag and 170Hz fast refresh rate offer smooth gaming. Nano IPS display delivers vibrant color and a wide viewing angle.

### Features designed for gamers needs

- Less eye fatigue with Flicker-free technology
- LowBlue Mode for easy on-the-eyes productivity
- SmartImage game mode optimized for gamers
- Tilt, swivel and height-adjust for an ideal viewing position

### Built for fast action

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

### Expand your viewing experience

- IPS Nano color technology extends gamut for vibrant visuals
- Crystalclear images with Quad HD 2560 x 1440 pixels
- High Dynamic Range (HDR) for more lifelike colorful visuals

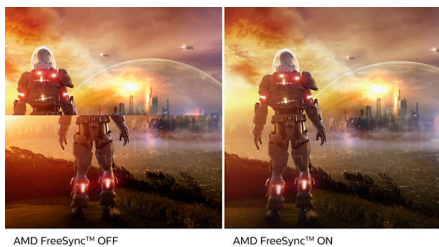
## Highlights

### IPS Nano color



For critical imaging, gaming and productivity needs, Nano IPS display provides precise color accuracy across a wide viewing angle without color shift. Richer reds, lusher 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 color. True-to-life color. Our display panels achieve up to 98% coverage of the DCI-P3 color gamut standard for color 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.

### 170Hz Gaming



You play intense, competitive gaming. You demand display with lag free, ultra-smooth images. This Philips display redraws the screen

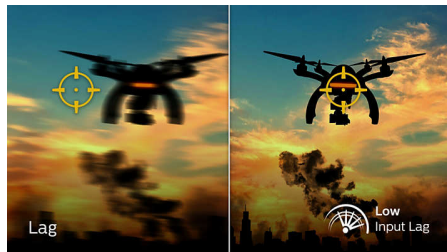
image up to 170 times per second, effectively faster than a standard display. A lower frame rate can make enemies appear to jump from spot to spot on the screen, making them difficult targets to hit. With 170Hz frame rate, you get those critical missing images on the screen which shows enemy movement in ultra-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

### 1ms MPRT fast response



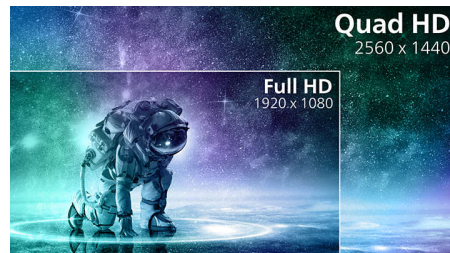
MPRT (motion picture response time) is more intuitive way to describe the response time, which directly refers the duration from seeing blurry noise to clean and crisp images. Philips gaming monitor with 1 ms MPRT effectively eliminates smearing and motion blur, delivers sharper and precise visuals to enhance gaming experience. 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 improve on playing twitch-sensitive video games, particularly important to whom plays fast-paced, competitive games.

### Crystalclear images



These Philips screens deliver Crystalclear, Quad HD 2560x1440 or 2560x1080 pixel images. Utilizing high performance panels with high density pixel count, enabled by high bandwidth sources like USB-C, Displayport, HDMI, these new displays will make your images and graphics come alive. Whether you are demanding professional requiring extremely detailed information for CAD-CAM solutions, using 3D graphic applications or a financial wizard working on huge spreadsheets, Philips displays will give you Crystalclear images.

### High Dynamic Range (HDR)



High Dynamic Range delivers a dramatically different visual experience. With astonishing brightness, incomparable contrast and captivating color, images come to life with much greater brightness while also featuring much deeper, more nuanced darks. It renders a fuller palette of rich new colors never before seen on display, giving you a visual experience that engages your senses and inspires emotions.



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275M1RZN/69

## Highlights

### SmartImage Game mode



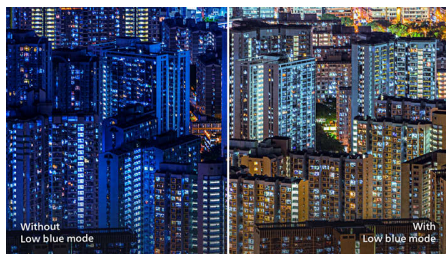
The new Philips gaming display has quick access OSD fine tuned for gamers, offering you multiple options. "FPS" mode (First person shooting) improves dark themes in games, allowing you to see hidden objects in dark areas. "Racing" mode adapts display with fastest response time, high color, along with image adjustments. "RTS" mode (Real time strategy) has a special SmartFrame mode which enables highlighting of specific area and allows for size and image adjustments. Gamer 1 and Gamer 2 enable you to save personal customized settings based on different games, ensuring best performance.

### Flicker-free technology



Due to the way brightness is controlled on LED-backlit screens, some users experience flicker on their screen which causes eye fatigue. Philips Flicker-free Technology applies a new solution to regulate brightness and reduce flicker for more comfortable viewing.

### LowBlue Mode



Studies have shown that just as ultra-violet rays can cause eye damage, shortwave length blue light rays from LED displays can cause eye

damage and affect vision over time. Developed for wellbeing, Philips LowBlue Mode setting uses a smart software technology to reduce harmful shortwave blue light.

### Compact Ergo Base



The Compact Ergo Base is a people-friendly Philips monitor base that tilts, swivels and height-adjusts so each user can position the monitor for maximum viewing comfort and efficiency.

# Specifications

## Picture/Display

Panel Size: 27 inch / 68.5 cm

Aspect ratio: 16:9

LCD panel type: IPS technology

Backlight type: W-LED system

Pixel pitch: 0.2331 x 0.2331 mm

Brightness: 350 cd/m<sup>2</sup>

Display colors: Color support 1.07 billion colors

Color gamut (typical): NTSC 110%\*, sRGB 130%\*,

Adobe RGB 110%\*

Color gamut (min.): DCI-P3 Coverage: 98%\*

Contrast ratio (typical): 1000:1

SmartContrast: Mega Infinity DCR

Response time (typical): 1 ms (Gray to Gray)\*

Viewing angle: 178° (H) / 178° (V), @ C/R &gt; 10

Picture enhancement: SmartImage game

Maximum resolution: 2560 x 1440 @ 170 Hz\* (DP -&gt; overclock); 2560 x 1440 @ 144 Hz (HDMI)

Effective viewing area: 596.736 (H) x 335.664 (V) mm

Scanning Frequency: HDMI: 30 - 230 kHz (H) / 48 - 144 Hz (V); DP: 30 - 255 kHz (H) / 48 - 170 Hz (V) sRGB

Delta E: < 2 (sRGB)

Flicker-free

Pixel Density: 109 PPI

LowBlue Mode

Display Screen Coating: Anti-Glare, 3H, Haze 25%

SmartUniformity: 97 ~ 102%

MPRT: 1 ms

## Low Input Lag

AMD FreeSync™ technology: Premium

HDR: HDR ready

## Connectivity

Signal Input: HDMI 2.0 x 2, DisplayPort x 1

Sync Input: Separate Sync

Audio (In/Out): Headphone out

## Convenience

Plug & Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 10 / 8.1 / 8 / 7

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 (100x100mm)

## Stand

Height adjustment: 130 mm

Swivel: -/+ 35 degree

Tilt: -5/20 degree

## Power

Power supply: External, 100-240VAC, 50-60Hz

Off mode: 0.3 W (typ.)

On mode: 46.2 W (typ.)

Standby mode: 0.5 W (typ.)

Power LED indicator: Operation - White, Standby mode- White (blinking)

## Dimensions

Packaging in mm (WxHxD): 730 x 475 x 224 mm

Product without stand (mm): 614 x 370 x 75 mm

Product with stand(max height): 614 x 567 x 251 mm

## Weight

Product with packaging (kg): 8.60 kg

Product with stand (kg): 5.96 kg

Product without stand (kg): 3.82 kg

## Operating conditions

Altitude: Operation: +12,000ft (3,658m), Non-operation: +40,000ft (12,192m)

Temperature range (operation): 0°C to 40 °C

MTBF: 50,000 (Excluded backlight) hour(s)

Relative humidity: 20%-80 %

Temperature range (storage): -20°C to 60 °C

## Sustainability

Environmental and energy: RoHS

Recyclable packaging material: 100 %

Specific Substances: Mercury free, PVC / BFR free housing

## Compliance and standards

Regulatory Approvals: CB, CE Mark

## Cabinet

Color: Black

Finish: Textured / Glossy



\* "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 is to adjust brightness for blur reduction, so cannot adjust brightness while MPRT is turned on. To reduce motion blur, LED backlight will strobe synchronously with screen refresh, which may cause noticeable brightness change.  
\* MPRT is gaming-optimized mode. Turn on MPRT may cause noticeable screen flickering. It is recommended to turn off when you are not using the gaming function.  
\* BT. 709 / DCI-P3 Coverage based on CIE1976  
\* NTSC Area based on CIE1976  
\* sRGB Area based on CIE1931  
\* Adobe RGB Coverage based on CIE1976  
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\* The monitor may look different from feature images.