Philips Gaming Monitor
4K UHD gaming monitor

Momentum 5000
27" (68.5 cm)
3840 x 2160 (4K UHD)

27M1F5800

Feel your game

This Philips gaming monitor brings games to life with its 4K Nano IPS display and DisplayHDR 600. An impressive 144Hz refresh rate, 1ms response time and Sync technology guarantee smooth visuals.

Meet the most recent update of HDMI specification
- UltraClear 4K UHD (3840x2160) resolution for precision
- 144Hz refresh rates for ultra-smooth, brilliant images
- Low input lag reduces time delay between devices to monitor
- SmartImage HDR gives optimal viewing from your HDR content

Immersive visuals
- IPS Nano color technology extends gamut for vibrant visuals
- Ultra Wide-Color wider range of colors for a vivid picture
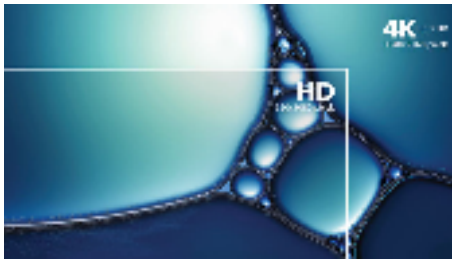
Features designed for you
- MultiView enables simultaneous dual connection and view
- LowBlue mode and Flicker-free easy-on-the eyes viewing
- SmartErgoBase enables people-friendly ergonomic adjustments
- EasySelect menu toggle key for quick on-screen menu access

PHILIPS

Highlights

UltraClear 4K UHD Resolution

These Philips displays utilize high performance panels to deliver UltraClear, 4K UHD (3840 x 2160) resolution images. Whether you are demanding professional requiring extremely detailed images for CAD solutions, using 3D graphics applications or a financial wizard working on huge spreadsheets, Philips displays will make your images and graphics come alive.

144Hz Gaming

You play intense, competitive gaming. You demand display with lag free, ultra-smooth images. This Philips display redraws the screen image up-to 144 times per second, effectively 2.4x 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 144Hz 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

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.

SmartImage HDR

Select one of SmartImage HDR modes to best suit your needs. HDR Game: Optimize for playing video games. With brighter white and darker black, the gaming scene is vivid and revealing more details, easily spot enemies hiding in the dark corner and shadows. HDR Movie: Ideal for watching HDR movie. Deliver better contrast and brightness for more realistic and immerse viewing experience. HDR Photo: Enhance red, green, and blue for lively visuals. DisplayHDR: VESA DisplayHDR certified*. Personal: Customize settings in picture menu. *Please refer to specification for HDR grade.

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.

Ultra Wide-Color Technology

Ultra Wide-Color Technology delivers a wider spectrum of colors for a more brilliant picture. Ultra Wide-Color wider "color gamut" produces more natural-looking greens, vivid reds and deeper blues. Bring, media entertainment, images, and even productivity more alive and vivid colors from Ultra Wide-Color Technology.

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: 3840 x 2160 @ 144 Hz*
- Pixel Density: 163.18 PPI
- Response time (typical): 1 ms (Gray to Gray)*
- Low Input Lag
- Brightness: 450 cd/m²
- SmartContrast: Mega Infinity DCR
- Contrast ratio (typical): 1000:1
- Pixel pitch: 0.1554 x 0.1554 mm
- Viewing angle: 178° (H) / 178° (V), @ C/R > 10
- Flicker-free
- HDR: DisplayHDR 600 certified
- Color gamut (min.): DCI-P3 98%*
- Color gamut (typical): NTSC 84.8%*, sRGB 100%*, Adobe RGB 93.1%*
- Picture enhancement: SmartImage game
- Display colors: Color support 1.07 billion colors
- Scanning Frequency: 30 - 255 kHz (H) / 48 - 144 Hz (V)
- SmartUniformity: 97 ~ 102%
- Delta E: < 2 (sRGB)
- LowBlue Mode
- EasyRead
- sRGB
- Adaptive sync

Connectivity
- Signal Input: HDMI 2.1 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
- MultiView: PBP (2x devices)
- 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)
- Plug & 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: 55.5 W (typ.)
- Standby mode: 0.5 W (typ.)
- Off mode: 0.3 W (typ.)
- Power LED indicator: Operation - White, Standby mode- White (blinking)
- Power supply: External, 100-240VAC, 50-60Hz

Dimensions
- Product with stand(max height): 609 x 552 x 235 mm
- Product without stand (mm): 609 x 353 x 46 mm
- Packaging in mm (WxHxD): 780 x 521 x 224 mm

Weight
- Product with stand (kg): 6.10 kg
- Product without stand (kg): 4.67 kg
- Product with packaging (kg): 11.10 kg

Operating conditions
- Temperature range (operation): 0°C to 35 °C
- Temperature range (storage): -20°C to 60 °C
- Relative humidity: 20%-80 %
- Altitude: Operation: +12,000ft (3,658m), Non-operation: +40,000ft (12,192m)
- 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, CE Mark, FCC Class B, ICES-003, PSB

Cabinet
- Color: Black
- Finish: Textured

* "IPS" word mark / trademark and related patents on technologies belong to their respective owners.
* The maximum resolution works for either HDMI input or DP input.
* 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
* DCI-P3 Coverage based on CIE1976
* NTSC / sRGB Coverage based on CIE1931
* Adobe RGB Coverage based on CIE1976
* The monitor may look different from feature images.