Philips Momentum LCD monitor with Ambiglow

Momentum
25 (24.5" / 62.2 cm diag.)
1920 × 1080 (Full HD)

252M1RPE

Take gaming to the next level

Get in the moment with this Momentum gaming monitor with immersive Ambiglow. Sync technology, LowInput lag and Ultra-fast 240Hz refresh rate offer smooth gaming. DisplayHDR 400 gives vibrant image quality to get you in the moment.

Design to enhance the senses
• Ambiglow adds a new dimension to your viewing experience

Built for fast action
• AMD FreeSync™ Premium; tear free, stutter free, fluid gaming
• Certified NVIDIA® G-SYNC® compatible for smooth fast gaming
• Ultra-fast 240 Hz refresh rate for virtually lag-free gaming
• 0.5 ms ultra-fast speed for crisp image and smooth gameplay
• Low input lag reduces time delay between devices to monitor

Expand your viewing experience
• IPS LED wide view technology for image and color accuracy
• SmartImage HDR gives optimal viewing from your HDR content

Features designed for gamers needs
• LowBlue mode and Flicker-free easy-on-the eyes viewing
• SmartErgoBase enables people-friendly ergonomic adjustments
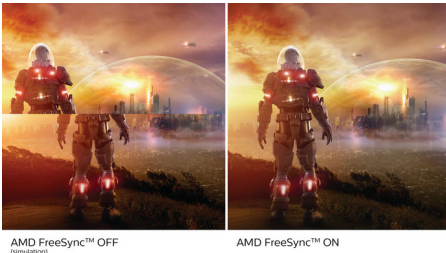
PHILIPS

Highlights

Ambiglow

The innovative Ambiglow technology enhances the content on the screen by creating a halo of light from the monitor. Its fast processor analyses the incoming image content, continuously adapts the color and brightness of the emitted light to match the image. Especially suited for watching movies, sports or playing games, Philips Ambiglow offers you a unique and immersive viewing experience.

AMD FreeSync™ Premium

AMD FreeSync™ OFF
(simulation)

AMD FreeSync™ ON

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 synchronization. This Philips 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.

Ultra-fast 240 Hz refresh rate

60hz   240hz

5
128...

While playing the most intense engaging action-oriented games, ultra-fast 240 Hz refresh rate enhances an ultra-smooth, lag-free gaming experience. This Philips display redraws the screen image up-to 240 times per second, effectively faster than a standard display. Especially for fast-paced games like FPS and racing games, 240 Hz gives a superior motion and clarity visuals. With Philips 240 Hz Momentum display, action sequences in gameplay look judder-free and ghost-free. You will experience deeper immersion and feeling alive in game.

0.5 ms MPRT fast response

Philips Momentum display with 0.5 ms MPRT effectively eliminates smearing and motion blur, delivers shaper and precise visuals to enhance gaming experience. Fast-moving action and dramatic transitions will be rendered smoothly. Best choice for playing thrilling and twitch-sensitive games.

Low Input Lag

Lag

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

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.

ambiglow   AMD FreeSync Premium   NVIDIA G-SYNC   240Hz   0.5ms Fast Response 0.5ms   Low Input Lag   IPS Wide Viewing Angle   VESA CERTIFIED DisplayHDR 400   Flicker-free

Specifications

Picture/Display
- LCD panel type: IPS technology
- Backlight type: W-LED system
- Panel Size: 24.5 inch / 62.2 cm
- Display Screen Coating: Anti-Glare, 3H, Haze 25%
- Effective viewing area: 543.744 (H) x 302.616 (V)
- Aspect ratio: 16:9
- Maximum resolution: 1920 x 1080 @ 240 Hz*
- Pixel Density: 89.91 PPI
- Response time (typical): 1 ms (Gray to Gray)*
- MPRT: 0.5 ms
- Low Input Lag
- Brightness: 400 cd/m²
- SmartContrast: Mega Infinity DCR
- Contrast ratio (typical): 1000:1
- Pixel pitch: 0.2832 x 0.2802 mm
- Viewing angle: 178° (H) / 178° (V), @ C/R > 10
- Flicker-free
- HDR: DisplayHDR 400 certified
- Color gamut (min.): DCI-P3 87%*
- Color gamut (typical): NTSC 78.04*, sRGB 100%*
- Picture enhancement: SmartImage game
- Display colors: 16.78 M
- Scanning Frequency: 30 - 255 kHz (H) / 48 - 240 Hz (V)
- LowBlue Mode
- SmartUniformity: 97 ~ 102%
- Delta E: < 2 (sRGB)
- sRGB
- Ambiglow: 4-sided
- AMD FreeSync™ technology: Premium
- G-SYNC: Compatible*

Connectivity
- Signal Input: HDMI 2.0 x 2, DisplayPort 1.4 x 1
- 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
- User convenience: Power On/Off, Menu/OK, Input/Up, Sound Mode/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: -/+ 35 degree
- Tilt: -5/20 degree

Power
- On mode: 21.5 W (typ.)
- Standby mode: 0.5 W
- Off mode: 0.3 W
- Power LED indicator: Operation - White, Standby mode- White (blinking)
- Power supply: External, 100-240VAC, 50-60Hz

Dimensions
- Product with stand(max height): 557 x 512 x 274 mm
- Product without stand (mm): 557 x 333 x 70 mm
- Packaging in mm (WxHxD): 621 x 524 x 195 mm

Weight
- Product with stand (kg): 6.69 kg
- Product without stand (kg): 3.59 kg
- Product with packaging (kg): 9.98 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: +12,000ft (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 / Glossy

* "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
* 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.
* DCI-P3 Coverage based on CIE1931
* NTSC / sRGB Coverage based on CIE1931
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* 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 your graphic card supports NVIDIA® G-SYNC®
* The monitor may look different from feature images.

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