



Philips Momentum  
LCD monitor with  
Ambiglow

### Momentum

27" (68.6 cm)  
3840 x 2160 (4K UHD)



278M1R

## Take gaming to the next level

Step it up with a Momentum 4K UHD gaming monitor with Ambiglow. Low Input lag offers smooth gaming. HDR gives ultra-crisp and vibrant image quality to get you in the moment.

#### Design to enhance the senses

- Ambiglow intensifies entertainment with halo of light
- Enhanced audio with DTS Sound™

#### Expand your viewing experience

- UltraClear 4K UHD (3840x2160) resolution for precision
- SmartImage HDR gives optimal viewing from your HDR content

#### Features designed for gamers needs

- SmartImage game mode optimized for gamers
- 1ms (MPRT) fast response for crisp image and smooth gameplay
- Low input lag reduces time delay between devices to monitor
- Less eye fatigue with Flicker-free technology
- Tilt, swivel and height-adjust for an ideal viewing position



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# PHILIPS

LCD monitor with Ambiglow  
Momentum 27" (68.6 cm), 3840 x 2160 (4K UHD)

# Highlights

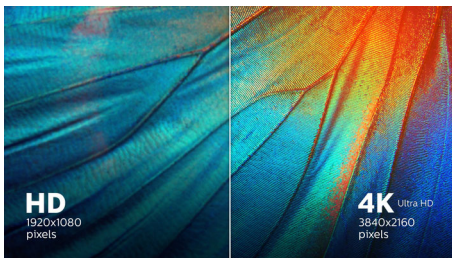
## Ambiglow

Ambiglow adds a new dimension to your viewing experience. 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 and 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.

## DTS Sound™

DTS Sound is an audio processing solution designed to optimize the playback of music, movies, streaming and games on the PC regardless of form factors. DTS Sound enables an immersive virtual surround sound experience, complete with rich bass and dialog enhancement and maximized volume levels free of any clipping or distortion.

## 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.

## 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.

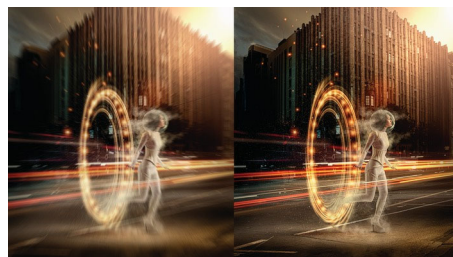
HDR Photo: Enhance red, green, and blue for lively visuals. DisplayHDR: VESA DisplayHDR certified\*. Personal: Customize settings in picture menu. \*Please refer to specification for HDR grade.

## 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.

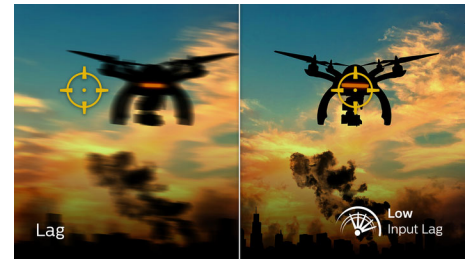
## 1ms MPRT fast response



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 shaper and precise visuals to enhance gaming experience. Best choice for playing thrilling and twitch-sensitive games.

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## 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.

## 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.



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## Red Dot

Red Dot stands for belonging to the best in design and business

This gaming monitor scores with the striking base, which radiates a solid presence and thereby underlines the quality of the monitor.



# Specifications

## Picture/Display

- LCD panel type: IPS technology
- Backlight type: W-LED system
- Panel Size: 27 inch / 68.6 cm
- Display Screen Coating: Anti-Glare, 3H, Haze 25%
- Effective viewing area: 596.736 (H) x 335.664 (V) mm
- Aspect ratio: 16:9
- Maximum resolution: 3840 x 2160 @ 60 Hz\*
- Pixel Density: 163 PPI
- Response time (typical): 4 ms (Gray to Gray)\*
- MPRT: 1 ms\*
- Low Input Lag
- Brightness: 350 cd/m<sup>2</sup>
- SmartContrast: Mega Infinity DCR
- Contrast ratio (typical): 1000:1
- Pixel pitch: 0.1554 x 0.1554 mm
- Viewing angle: 178° (H) / 178° (V), @ C/R > 10
- Flicker-free
- HDR: HDR ready
- Color gamut (typical): NTSC 91%\*, sRGB 105%\*, Adobe RGB: 89%\*
- Picture enhancement: SmartImage game
- Display colors: 1.07 Billion (8 bits + FRC)
- Scanning Frequency: 30 - 140 kHz (H) / 23 - 75 Hz (V)
- SmartUniformity: 93 ~ 105%
- Delta E: < 2 (for sRGB)
- LowBlue Mode
- sRGB
- Ambiglow: 4-sided

## Connectivity

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

## Convenience

- Built-in Speakers: 5 W x 2, DTS Sound
- 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
- Swivel: -/+ 33 degree
- Tilt: -5/20 degree

## Power

- On mode: 35.1 W (typ.)
- Standby mode: < 0.5 W (typ.)
- Off mode: < 0.3 W (typ.)
- Energy Label Class: B
- Power LED indicator: Operation - White, Standby mode- White (blinking)
- Power supply: External, 100-240VAC, 50-60Hz

## Dimensions

- Product with stand(max height): 614 x 567 x 251 mm
- Product without stand (mm): 614 x 370 x 75 mm
- Packaging in mm (WxHxD): 730 x 475 x 224 mm

## Weight

- Product with stand (kg): 6.74 kg
- Product without stand (kg): 4.53 kg
- Product with packaging (kg): 9.22 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: +12,000ft (3,658m), Non-operation: +40,000ft (12,192m)
- MTBF: 50,000 (Excluded backlight) hour(s)

## Sustainability

- Environmental and energy: RoHS, Lead-free, Mercury Free
- Recyclable packaging material: 100 %

## Compliance and standards

- Regulatory Approvals: CB, CE Mark, TUV/ISO9241-307, TUV-BAUART, CU-EAC, UKRAINIAN, CCC, CEL, CECF

## Cabinet

- Color: Black
- Finish: Textured / Glossy

## What's in the box?

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



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Version: 9.1.3

12 NC: 8670 001 67158  
EAN: 87 12581 76672 6

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- \* "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.
- \* NTSC Area based on CIE1976
- \* sRGB Area based on CIE 1931
- \* Adobe RGB Coverage based on CIE1976
- \* The monitor may look different from feature images.