



Philips Monitor  
LCD monitor with  
Ambiglow

### Momentum

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



278M1R

## Take console 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.

#### Features designed for gamers' needs

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

#### Design to enhance the senses

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

#### Expand your viewing experience

- UltraClear 4K UHD (3840 x 2160) resolution for precision
- SmartImage HDR gives optimal viewing from your HDR content

# PHILIPS

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

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# Highlights

## Ambiglow technology



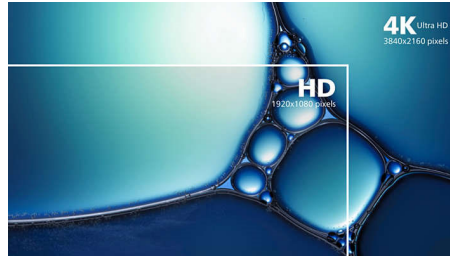
Ambiglow adds a new dimension to your viewing experience. The innovative Ambiglow technology enhances the content on the screen by creating a halo of light from the monitor. Its fast processor analyses the incoming image content and continuously adapts the colour and brightness of the emitted light to 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 optimise 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 dialogue enhancement and maximised volume levels free of any clipping or distortion.

## UltraClear 4K UHD Resolution



These Philips displays utilise high-performance panels to deliver UltraClear, 4K UHD (3840 x 2160) resolution images. Whether you are a demanding professional requiring extremely detailed images for CAD solutions, a user of 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: optimised for playing video games. With brighter white and darker black, the gaming scene is vivid and reveals more details, easily spot enemies hiding in the dark corners and shadows. HDR Movie: ideal for watching HDR movie. Delivers better contrast and brightness for a more realistic and immersive viewing experience. HDR Photo: enhanced red, green and blue for lively visuals. DisplayHDR: VESA DisplayHDR certified\*.

Personal: customised settings in picture menu.  
\*Please refer to specification for HDR grade.

## Ultra-smooth gaming



Gaming shouldn't be a choice between choppy gameplay or broken frames. With the new Philips monitor it doesn't have to be. Get fluid, artefact-free performance at virtually any frame rate with AMD FreeSync™ technology, smooth, quick refresh and ultra-fast response time.

## 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.



# Specifications

## Connectivity

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

## Picture/Display

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

## Convenience

- Built-in Speakers: 5 W x 2, DTS Sound
- Plug and 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 (100 x 100 mm)

## Stand

- Height adjustment: 130 mm
- Swivel: -/+ 33 degree
- Tilt: -5/20 degree

## Power

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

## Dimensions

- Packaging in mm (W x H x D): 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): 9.22 kg
- Product with stand (kg): 6.74 kg
- Product without stand (kg): 4.53 kg

## Operating conditions

- Altitude: Operation: +12,000 ft (3658 m), Non-operation: +40,000 ft (12,192 m)
- 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, TUV/ISO9241-307, TUV-BAUART, CU-EAC, UKRAINIAN, CCC, CEL, CECP

## Cabinet

- Colour: Black
- Finish: Textured/Glossy

## What's in the box?

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



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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 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.  
\* NTSC Area based on CIE 1976  
\* sRGB Area based on CIE1931  
\* Adobe RGB Coverage based on CIE 1976  
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\* The monitor may look different from feature images.