

Philips Monitor  
Gaming monitor

### E Line

24 (23.8" / 60.5 cm diag.)  
1920 x 1080 (Full HD)

242E1GAJ



## Gear up

for a clear advantage

The Philips E line gaming monitor is a great all-around display that delivers serious tear-free gameplay. AMD FreeSync™, 144Hz fast refresh rate and 1ms deliver smooth entertainment experience no matter playing games and watching movies.

#### Immersive visuals

- VA display delivers awesome images with wide viewing angles
- 16:9 Full HD display for crisp detailed images
- SmartContrast for rich black details

#### The gaming advantage is yours

- AMD FreeSync™ Premium; tear free, stutter free, fluid gaming
- 144Hz refresh rates for ultra-smooth, brilliant images
- 1ms (MPRT) fast response for crisp image and smooth gameplay
- SmartImage game mode optimized for gamers
- Ultra Wide-Color wider range of colors for a vivid picture

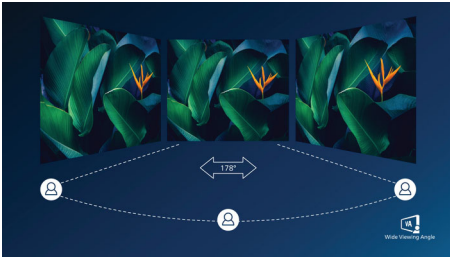
#### Features designed for you

- Less eye fatigue with Flicker-free technology
- LowBlue Mode for easy on-the-eyes productivity
- Built-in stereo speakers for multimedia

# PHILIPS

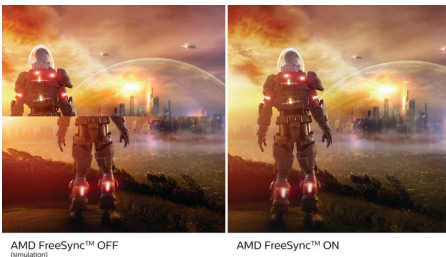
# Highlights

## VA display



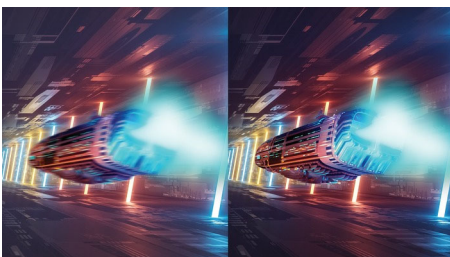
Philips VA LED display uses an advanced multi-domain vertical alignment technology which gives you super-high static contrast ratios for extra vivid and bright images. While standard office applications are handled with ease, it is especially suitable for photos, web-browsing, movies, gaming, and demanding graphical applications. It's optimized pixel management technology gives you 178/178 degree extra wide viewing angle, resulting in crisp images.

## 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.

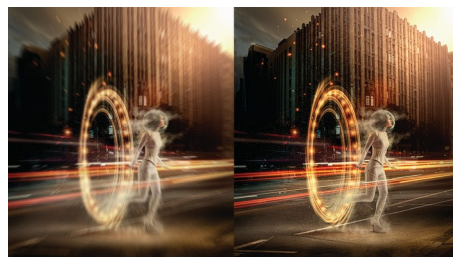
## 144Hz Gaming



You play intense, competitive gaming. You demand display with lag free, ultra-smooth

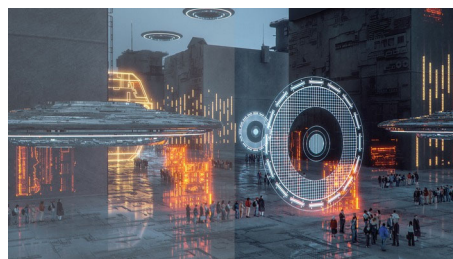
images. This Philips display redraws the screen image up-to 144 times per second, effectively 2.4x faster than a standard display. A lower frame rate can make enemies appear to jump from spot to spot on the screen, making them difficult targets to hit. With 144Hz frame rate, you get those critical missing 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

## 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.

## 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.

## 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.

## 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.



# Specifications

## Picture/Display

- LCD panel type: VA LCD
- Backlight type: W-LED system
- Panel Size: 23.8 inch / 60.5 cm
- Display Screen Coating: Anti-Glare, 3H, Haze 25%
- Effective viewing area: 527.04 (H) x 296.46 (V)
- Aspect ratio: 16:9
- Maximum resolution: 1920 x 1080 @ 144 Hz\*
- Pixel Density: 93 PPI
- Response time (typical): 4 ms (Gray to Gray)\*
- MPRT: 1 ms
- Brightness: 350 cd/m<sup>2</sup>
- Contrast ratio (typical): 3500:1
- SmartContrast: Mega Infinity DCR
- Pixel pitch: 0.2745 x 0.2745 mm
- Viewing angle: 178° (H) / 178° (V), @ C/R > 10
- Flicker-free
- Picture enhancement: SmartImage game
- Color gamut (typical): NTSC 96.1%\*, sRGB 125.9%\*
- Display colors: 16.7 M
- Scanning Frequency: 30 - 160 kHz (H) / 48 - 144 Hz (V)
- LowBlue Mode
- EasyRead
- sRGB
- AMD FreeSync™ technology: Premium

## Connectivity

- Signal Input: HDMI (digital, HDCP), DisplayPort x 1
- Sync Input: Separate Sync
- Audio (In/Out): Audio out

## Convenience

- Built-in Speakers: 3 W x 2
- User convenience: Power On/Off, Menu, Volume, Input, SmartImage Game
- OSD Languages: Brazil Portuguese, Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, Turkish, Ukrainian
- Other convenience: Kensington lock, VESA mount (100x100mm)
- Plug & Play Compatibility: DDC/CI, Mac OS X,

sRGB, Windows 10 / 8.1 / 8 / 7

## Stand

- Tilt: -5/20 degree

## Power

- On mode: 14.83 W (typ.) (EnergyStar test method)
- 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 (mm): 540 x 414 x 207 mm
- Product without stand (mm): 540 x 325 x 43 mm
- Packaging in mm (WxHxD): 586 x 476 x 148 mm

## Weight

- Product with stand (kg): 3.07 kg
- Product without stand (kg): 2.49 kg
- Product with packaging (kg): 4.83 kg

## Operating conditions

- Temperature range (operation): 0 to 40 °C
- Temperature range (storage): -20 to 60 °C
- Relative humidity: 20%-80 %
- Altitude: Operation: +12,000ft (3,658m), Non-operation: +40,000ft (12,192m)
- MTBF: 50,000 hrs (excluding backlight) hour(s)

## Sustainability

- Environmental and energy: EnergyStar 8.0, RoHS
- Recyclable packaging material: 100 %
- Specific Substances: Mercury free, PVC / BFR free housing

## Compliance and standards

- Regulatory Approvals: CB, TUV/ISO9241-307, TUV-BAUART, CU-EAC, EAEU RoHS, CE Mark

## Cabinet

- Color: Black / Dark Chrome
- Finish: Textured



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Version: 2.0.1

12 NC: 8670 001 75586  
EAN: 87 12581 77688 6

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\* Response time value equal to SmartResponse

\* 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.

\* NTSC Area based on CIE1976

\* sRGB Area based on CIE1931

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\* The monitor may look different from feature images.