

OMEN X 25f Display

240Hz Gaming Display with Adaptive Sync



Our fastest display. Your fiercest advantage.

Are you ready for true competition? The OMEN X 25f Display was designed specifically for esports, with specs that give you an almost unfair advantage.

Product overview

- **When you're fast, you're first:** Critical moments call for critical details. With a whopping 240Hz refresh rate, this 24.5-inch diagonal display is 4X faster than traditional 60Hz monitors. And a 1ms response time lets you respond to on-screen action before your opponent knows what hit them.⁽⁴⁾
- **Stutter no more:** Adaptive Sync technology eliminates troublesome symptoms by creating a direct link between the graphics card and the display—removing the fear of tearing and blurring that would impact your game. This allows the display to work with AMD FreeSync™ and is an NVIDIA® G-SYNC™ compatible display.⁽²⁾
- **Designed for action:** Comfort is optimized with an adjustable display that adapts to your ideal height and angle, plus ambient lighting that reduces eye strain. And with its micro-edge bezel, everything on-screen feels expansive and immersive.

Key specifications

- **Viewable image area:** 24.5-inch diagonal
- **Aspect ratio:** 16:9
- **Contrast:** Dynamic Ratio 12M:1⁽³⁾
- **Resolution:** 1920 x 1080 @ 60Hz⁽⁷⁾
- **Connectivity:**
 - 1 x DisplayPort™ 1.2
 - 2 x HDMI 2.0
 - 2 x USB 3.0
- **Exterior color:** Black

Product features

- **AMD FreeSync™ technology:** See and feel the difference of fluid, responsive gameplay. By synchronizing the refresh rate with your GPU, AMD FreeSync™ makes display stutter, input lag, and screen tears ancient history.⁽²⁾
- **NVIDIA® G-SYNC™ compatible:** By synchronizing the refresh rates of your GPU and display, NVIDIA® G-SYNC™ technology delivers gameplay that's sharp, fluid, and stutter-free with minimal input lag.
- **1ms response time with Overdrive:** How fast your pixels can react to changing frames is critical for fast-paced gaming, and a 1ms response time ensures even the most action-packed moments are fluid, crisp, and free of motion blur.⁽⁴⁾

Additional product features

- **Height adjustment stand:** Easily adjust your display to the most comfortable position with 100 mm range of travel.
- **Ambient lighting:** Say goodbye to late-night eye fatigue. Adjustable to match the color of your PC or what's on screen, ambient lighting casts a glow onto the base and stand diffusing the bright light of the display.
- **Micro-edge display:** With virtually no bezel encircling the display, an ultra-wide viewing experience provides for seamless multi-monitor set-ups.
- **Visibly brilliant detail:** With 400 nits of brightness, view beautiful details, enhanced image quality, and distinct shades of color—even in bright lighting conditions.⁽⁴⁾
- **Highly accurate color:** With the standard 100% sRGB color space, this HP display provides ideal color reproduction with minimal effort. Perfect for photos, videos—all your creative projects.⁽⁴⁾
- **TN panel:** Enjoy the latest action movie or high-octane video game with the low pixel latency and snappy response times of this TN panel.
- **Dual HDMI / DisplayPort / 2 USB:** With DisplayPort™, Dual HDMI, and 2 USB you'll get all the ports you need to easily connect your device for big screen entertainment.
- **FHD display / 1080p display:** Be prepared for brilliant visuals and crisp images with the unforgettable quality of this stunning FHD display.⁽¹⁾
- **Outshine the competition:** Customize picture mode, RGB lighting, FPS counter and response time using OMEN Command Center software.

Environmentally conscious

- Energy efficient design and components help reduce power consumption and energy costs.

Warranty and support

- Rest easy and work confidently with an HP standard 1 year limited warranty. Certain restrictions and exclusions apply. See www.HP.com/go/support for details.



Monitor specifications

Panel type	• TN
Viewable image area	• 24.5-inch display, diagonally measured
Viewing angle	• Horizontal: 170° • Vertical: 160°
Surface treatment	• Anti-Glare panel
Bezel	• 3-sided micro-edge
Recommended resolution	• 1920 x 1080 @ 60Hz ⁽⁷⁾
Maximum resolution	• 1920 x 1080 @ 240Hz
Panel bit depth	• True 8-bit
Aspect ratio	• 16:9
Contrast ratio	• Static Ratio: 1000:1 • Dynamic Ratio: 12M:1 ⁽³⁾
Brightness (typical)	• 400 nits ⁽⁴⁾
Color space	• 100% sRGB
Low blue light mode	• Yes
Color support	• 16.7 million colors
Pixel pitch	• 0.283 (H) mm x 0.280 (V) mm • 89.7 PPI
Panel active area	• 21.4 in x 11.91 in • 543.744 mm x 302.616 mm
Scan range	• Horizontal: 30 to 255 KHz • Vertical: 48 to 240Hz
Response time	• 1ms with OverDrive ⁽⁴⁾ • 3ms on/off
Variable sync support	• NVIDIA® G-SYNC™ Compatible and AMD FreeSync™ ⁽²⁾
Connectivity	• 2 x HDMI 2.0 • 2 x USB 3.0 • 1 x DisplayPort™ 1.2 • 1 x Audio output (digital, headphone) • HDCP support
Power supply	• External
Energy saving/standby mode	• 0.5W
Tilt	• -5 to +23 degrees
Height adjustable base	• Range: 0 to 130 mm • Adjustable: 130 mm
Base area footprint	• 10.29 in x 10.29 in • 26.14 cm x 26.14 cm
Detachable base	• Yes, ships attached
VESA mounting	• Yes, mounting plate included
Security lock ready	• Yes
Unpackaged dimensions	• 21.95 in (W) x 10.73 in (D) x 19.28 in (H) • 55.75 cm (W) x 27.25 cm (D) x 48.96 cm (H)
Unpackaged weight	• 13.58 lb • 6.16 kg

Packaged dimensions	• 25.98 in x 13.07 in x 18.62 in • 66.00 cm x 33.20 cm x 47.30 cm
Packaged weight	• 20.41 lb • 9.26 kg
On screen display	• User controls: Gaming, Color, Image, Input, Power, Menu, Management, Information, Exit • User programmable modes: 10 • Monitor control buttons: Power, 5-in-1 joystick control - Menu/OK, Plus button/Up, Minus button/Down, Exit/Back • User assignable function buttons: 4 with 9 options
Languages	• English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese
Certifications	• Windows 10, 8, 7 Microsoft WHQL Certification • WW application • CE, CB, KC/KCC/NOM/PSB/ICE/TUV-S/ISO 9241-307/EAC/UL/CSA/PSB/ISC/CCC/CEL/CECP/SEPA/ISC/VCCI/FCC/BSMI/Vietnam MEPS/Australian-New Zealand MEPS/WEEE

Environmental features

LED backlights	• Mercury-free LED backlighting
Backlight lamp life	• 30K hours
Arsenic-free	• Arsenic-free display glass ⁽⁵⁾
Low halogen	• Low-voltage halogen design ⁽⁵⁾

Accessories & warranty

What's in the box	• A/C power cable 1.9 m (6.0 ft) • A/C power adapter • DisplayPort cable 1.8 m (5.9 ft) • USB 3.0 Type A to B adapter • Quick set up poster • Service phone list card • Warranty
Limited warranty	• HP standard 1 year limited warranty. Certain restrictions and exclusions apply. See www.HP.com/go/support for details.

Additional information

Product number	• 4WH47AA#ABA
Ad embargo date	• 06/23/2019
UPC Code	• 193015261778
Country of origin	• China
Tariff number	• 8528520000
Pallet information	• Dimensions: A: 52.0 in x 39.2 in x 4.7 in B: 52.0 in x 26.0 in x 4.7 in • Total weight: A: 533.5 lb / B: 375.0 lb • Layers: 4 • Products per layer: A: 6 / B: 4 • Total products per pallet: A: 24 / B: 16

Learn more at hp.com

⁽¹⁾ Full high-definition (FHD) content is required to view FHD images. ⁽²⁾ FreeSync™ is only available when it is connected on Display Port. FreeSync is an AMD® technology is enabled on FHD or QHD displays and is designed to eliminate stuttering and/or tearing in games and videos by locking a display's refresh rate to the frame rate of the graphics card. AMD Radeon Graphics and/or AMD A-Series APU-compliant monitors with DisplayPort/HDMI Adaptive-Sync required. AMD 15.11 Crimson driver (or newer) required to support FreeSync over HDMI. Adaptive refresh rates vary by monitor. More information is available at www.amd.com/freesync. ⁽³⁾ Dynamic Contrast Ratios during video playback only, depending on series of frames or time duration. ⁽⁴⁾ All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. ⁽⁵⁾ External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen. ⁽⁶⁾ Arsenic and its compounds were not detected using U.S. EPA test methods 3052/6010b by ICP-AES with a Method Detection Limit of 10 ppm. ⁽⁷⁾ The video card of the connected PC must be capable of supporting 1920 x 1080 at 60 Hz and include 1 DisplayPort or 1 HDMI output to drive the monitor at the Preferred Resolution. ⁽⁸⁾ Warranty may vary by country. See www.HP.com/go/support for details.
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