

OMEN by HP 27 inch FHD 240Hz Gaming Monitor - OMEN 27s

SPEED RUN THROUGH FUN

Outclass the competition with the OMEN by HP 27-inch FHD 240Hz Gaming Monitor. Delivering ultra-smooth frames and crisp details¹, this NVIDIA® G-SYNC® compatible display has what it takes to keep up with you. Speed meets looks with a fun, yet refined design unlike any other so you can enjoy it in and out of the game.



*Product image may differ from actual product

240HZ

APPROACHING MAXIMUM FUN

Frame by frame, experience buttery smooth action with no distraction. Boasting a lightning-fast 240Hz refresh rate and 1ms GTG response time with Overdrive¹, this gaming monitor cuts motion blur, so you're acting not reacting. Leave screen tearing and lag in the dust, thanks to NVIDIA® G-SYNC® compatibility.



IT'S LIKE YOU'RE REALLY THERE

Escape fully and dive into detailed worlds with the crisp visuals of FHD resolution². Marvel at the wide array of dazzling colors and hues of the 99% sRGB and 95% DCI-P3 color gamut¹. Even in shadows, easily make out details and shading with VESA DisplayHDR™ 400³.



GET PLUGGED IN

Know you're equipped for your devices—gaming and otherwise—with two HDMI 2.0, one DisplayPort™ 1.4, and two USB-A 3.2 ports⁴. Make switching from PC to console a breeze when you directly connect your mouse & keyboard to the monitor thanks to the USB hub. Oh, did we mention the effortless cable management?



REFINE YOUR PLAY SPACE

Made to impress in and out of game, the new OMEN look blends sophistication and fun to elevate what a gaming setup can look like. Through aRGB lighting, integrated dual speakers, and an adjustable stand, make your play space just how you like it.

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Featuring



FHD Resolution
Focus on the finer details and enjoy clear images with the 1920 x 1080 Full HD resolution on this 27" diagonal monitor.²

240Hz Refresh Rate
When every moment counts, a lightning-fast 240Hz refresh rate practically removes all artifacting and motion blurring for gameplay that's incredibly crisp and responsive.¹

1ms GTG Response Time with Overdrive
Eliminates motion blur for crisp, fluid gameplay no matter what's happening on-screen.¹

NVIDIA® G-SYNC® Compatible
NVIDIA® G-SYNC® technology delivers gameplay that's sharp, fluid, and stutter-free with minimal input lag.

VESA DisplayHDR™ 400
See details even in shadow and replicate reality on your screen with enhanced contrast.³

AMD FreeSync™ Premium Technology
Game confidently with a high refresh rate, low framerate compensation, and low latency.⁶

VESA Certified AdaptiveSync
VESA Certified AdaptiveSync guarantees higher refresh rates and low latency, optimized for gaming.⁷

More Colors to Play With
Get deeper hues and more accurate colors with 99% sRGB and 95% DCI-P3 that precisely recreates colors so lifelike you will get lost in your gameplay.¹

aRGB Lighting
Customize with 16.8 millions colors to fit you.⁵

Plenty of ports
Easily connect your devices with two HDMI 2.0 ports, one DisplayPort™ 1.4, USB hub, two USB-A 3.2 ports, and 3.5 mm headphone jack.⁴

IPS Technology
Image accuracy and consistency across wide 178-degrees viewing angles, no matter where you stand.

New Design Unlocked
The new OMEN look blends sophistication and fun to elevate your gaming setup.

VESA Certified ClearMR 6000
Easily compare the amount of motion blur between VESA Certified ClearMR displays with Clear Motion Ratio (CMR).⁸

Integrated Dual 3W Speakers
No headset? No problem. The integrated dual 3W speakers deliver crystal-clear audio.

OMEN Light Studio
Customize your aRGB lighting with custom animations, color themes and integrate into your entire ecosystem with OMEN Light Studio.⁵

Console Compatible
Over 140 test cases to ensure it's compatible with your choice of console.

Fully adjustable stand
Find comfort while you game with tilt, pivot, and 100 mm height adjustments.

OMEN Gaming Hub
From software enhancements to hardware control, and live services, OGH elevates play in an easy and simple way.⁵

HP Eye Ease with Eyesafe® Certification
Keep your screentime comfortable with beautiful colors while reducing blue light.

Materials that Matter
Contains 85% post-consumer recycled plastics.⁹

Mindful metals
Engineered to contain 10% recycled metals.¹⁰

Effortless Joypad OSD Button
Easy on-screen display settings with the joypad OSD button.

Integrated Cable Management
Help keep your workspace clean and organized.

Thoughtful Product Packaging
100% recyclable packaging that can stay out of landfills.^{11,12}



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Specifications

Display specifications

Display size
27"

Native resolution
FHD (1920 x 1080)^{1,2}

Resolution (maximum)
FHD (1920 x 1080 @ 240 Hz)

Resolutions supported
640 x 480; 720 x 400; 800 x 600; 1024 x 768; 1280 x 720; 1280 x 800; 1280 x 1024; 1440 x 900; 1600 x 900; 1680 x 1050; 1920 x 1080

Display type
IPS

Panel bit depth
True 8 bit

Aspect ratio
16:9¹

HDR Support
VESA DisplayHDR™ 400

Refresh rate (maximum)
240 Hz

Display scan frequency
60-240 Hz (DisplayPort™); 60-200 Hz (HDMI) (Vertical) 30-391 kHz (Horizontal)

Response time
1ms GtG (with overdrive)

Brightness
400 nits¹

Contrast ratio
1000:1¹ (Static) 10000000:1¹ (Dynamic)

Pixel pitch
0.31 x 0.31 mm

Pixels per inch (ppi)
82 ppi

Viewing angle
178° (Vertical) 178° (Horizontal)

Backlight type
Edge-lit

Backlight lamp life
30,000 hours

Display colors
Up to 16.7 million colors supported

Display color gamut
99% sRGB; 95% DCI-P3

Display features
On-screen controls; Pivot rotation; Anti-glare; Height adjustable; AMD Freesync™ Premium; Gaming Console Compatible; Integrated speakers; HP Eye Ease (Eyesafe® certified); HDR; NVIDIA® G-SYNC® Compatible; VESA Certified AdaptiveSync

Display User Control Options
Management; Information; Input; Color; Image; Menu; Gaming; Audio; External Lighting

Management software
OMEN Gaming Hub; OMEN Lighting Studio

Low blue light modes
Yes, HP Eye Ease (Eyesafe® Certified)

Flicker-free
Yes

Screen treatment
Anti-glare

Hardness
3H

Haze
25%

Bezel
3-sided borderless

VESA mount
100 mm x 100 mm (bracket included)

Height adjustment range
100 mm

Tilt
-5 to +20°

Pivot
±90°

Connectivity and communications

Port and connectors
2 HDMI 2.0
1 DisplayPort™ 1.4
1 x 3.5 mm Audio Jack (Audio Out)
2 SuperSpeed USB Type-A 5Gbps signaling rate
1 USB-B

HDCP
Yes, DisplayPort™ and HDMI

Power supply
100 - 240 VAC 50/60 Hz
(Internal)

Power consumption
92 W (maximum), 46 W (typical), 0.5 W (standby)

Logistics and Physical

Product color
Black

Detachable stand
Yes

Base area footprint
8.46 x 8.26 in

Dimensions without stand (L x W x H)
24.16 x 2.06 x 14.34 in

Dimensions with stand (L x W x H)
24.16 x 8.79 x 20.62 in

Weight
19.14 lb (with stand)

Packaged Dimensions (L x W x H)
27.52 x 6.3 x 17.56 in

Packaged weight
25.99 lb

Pallet dimensions (W x D x H)
44.49 x 27.91 x 75.83 in

Pallet weight
748.26 lb

Pallet (layers)
4

Products per layer
7

Products per pallet
28

Certification and compliance

Environmental specifications
Low Halogen; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable; 85% ITE-derived closed loop plastic^{3,4,5,6}

Certifications
Australian-New Zealand MEPS; BIS; BSMI; CB; CCC; CE; CEL; CSA; EAC; FCC; ISO 9241-307; KC/KCC; NOM; PSB; TUV Bauart; TUV LBL; VCCI; Vietnam MEPS; WEEE; ISC; California Energy Commission (CEC); WW application; ICE; Ukraine certificates; TÜV Flicker free certified; UAE safety; UAE RoHS; South Africa safety; Microsoft WHQL Certification (Windows 11 and Windows 10)

Operating temperature range
41 to 95°F

Operating humidity range
20 to 80% RH

Additional information

Part Number
P/N: 780G5AA#ABA
UPC code: 197029615442

Ad embargo date
5/28/2023

Manufacturer Warranty
Protected by a one-year HP limited warranty. Certain restrictions and exclusions apply. ⁹

What's in the box
Monitor; DisplayPort™ cable; Warranty card; USB Type-A to B cable; Quick Setup Poster; AC power cord

Country of origin
Made in China



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Footnotes

Key Selling Points Footnotes

¹ All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary, either higher or lower.
² Full-high definition (FHD) content required to view FHD images.
³ DisplayHDR™ is the high-performance Monitor and Display Compliance Test Specification from VESA specifying HDR (High Dynamic Range) quality. See <http://displayhdr.org> for more details.
⁴ AC power cord, DisplayPort™, and USB-B to A cables included. All others sold separately.
⁵ Account required for full functionality. See OMEN Gaming Hub terms and conditions. Support level for non-HP products may be subject to change. Some animation effects may consume more CPU resources.

Feature Messaging Footnotes

⁶ Requires a monitor and AMD Radeon graphics, both with FreeSync Premium support. AMD FreeSync Premium requires mandatory low framerate compensation and at least 120 Hz refresh rate at minimum FHD. See www.amd.com/freesync for complete details. Confirm capability with your system manufacturer before purchase. GD-161.
⁷ VESA Certified Adaptive Sync is the high-performance Monitor and Display Compliance Test Specification from VESA specifying display visual performance on variable refresh rate displays. See <https://www.adaptivesync.org/> for more details.
⁸ VESA Certified ClearMR is the high-performance Monitor and Display Compliance Test Specification from VESA that provides a clear numerical value based on the ratio of clear pixels to blurry pixels. See <https://www.clearmr.org/> for more details.
⁹ Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 EPEAT® standard.
¹⁰ Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams.
¹¹ 100% outer box/corrugate cushion packaging made from sustainably sourced certified and recycled fibers. Fiber cushions made from 100% recycled wood fiber and organic material. Any plastic cushions are made from >90% recycled plastic. Excludes plastic bags and plastic foam sheeting.
¹² Recycling facilities not available in all locations.

Technical Specifications Footnotes

¹ All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
² DisplayPort™ 1.4 or HDMI 2.0 required to drive panel at its native resolution. The video card of the connected PC must be capable of supporting 1920 x 1080 at 60 Hz with 8-bit color using one DisplayPort™, HDMI. The video card of the connected PC must be capable of supporting 1920 x 1080 and include one DisplayPort™ or one HDMI outputs to drive the monitor at the Preferred Mode.
³ External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen.
⁴ ITE Derived Closed Loop Plastic percentage is based on the definition set in the IEEE 1680.1-2018 standard.
⁵ 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.
⁶ Molded pulp cushions are made from 100% recycled wood fiber and organic materials.
⁷ Included cables may vary by country.
⁸ Host PC requires Windows 10. OMEN Gaming Hub is available on the Microsoft store.
⁹ Warranty may vary by country. See www.HP.com/go/support for details.

