OMEN 27 inch QHD 280Hz Gaming Monitor - OMEN 27qs G2

SPEED RUN THROUGH FUN

Outclass the competition with the OMEN 27-inch QHD 280 Hz[2] Gaming Monitor. Delivering ultra-smooth frames and crisp details,[1] 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

280Hz

APPROACHING MAXIMUM FUN

Frame by frame, experience buttery smooth action with no distraction. Boasting a lightning-fast 280 Hz[2] refresh rate and 1ms MPRT with Overdrive,[1] 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.

VESA CERTIFIED DisplayHDR 400

IT'S LIKE YOU'RE REALLY THERE

Escape fully and dive into finely-detailed worlds with the crisp visuals of QHD resolution.[2] Marvel at the wide array of dazzling colors and hues of 95% Display P3 factory color calibrated color gamut.[1] Further immerse in the game with depth and clarity with IPS Black technology. Even in shadows, easily make out details and shading with VESA DisplayHDR™ 400.[3]

ALL YOUR FUN, CUSTOM

The OMEN design blends sophistication and fun through aRGB lighting, integrated dual speakers, and an adjustable stand. Know you're equipped with two HDMI 2.0, DisplayPort™ 1.4, USB-A 3.2 ports, a USB hub to easily switch between PC and console, and OMEN Gaming Hub[5] that lets you customize your ecosystem.

Sustainability in action

SUSTAINABILITY IN ACTION

It matters. With at least 80% whole unit recycled plastic,[6] 20% recycled glass in the monitor panel,[13] and 5% recycled metal in the stand base and VESA plate,[7] we are in this together.[8]
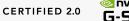
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Featuring

QHD Resolution
Get lost in the captivating definition and sharp details of 3.7 million pixels. 2560 x 1440 Quad HD resolution transforms all your content for a remarkable entertainment experience on this 27" diagonal monitor.[2]

280 Hz Refresh Rate
When every moment counts, a lightning-fast 280 Hz refresh rate practically removes all artifacting and motion blurring for gameplay that's incredibly crisp and responsive.[1,2]

1ms MPRT with Overdrive
How fast your pixels can react to changing frames is critical for fast-paced gaming, and a 1ms MPRT with Overdrive ensures even the most action-packed moments are fluid, crisp, and free of motion blur.[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 VESA DisplayHDR™ 400 for enhanced contrast, deeper shadows, and brighter highlights.[3]

AMD FreeSync™ Premium Technology
Every gamer deserves perfectly smooth gameplay and peak performance. Game confidently with a high refresh rate, low framerate compensation, and low latency. AMD FreeSync™ Premium certified monitors are here.[9]

VESA Certified AdaptiveSync
VESA Certified AdaptiveSync guarantees higher refresh rates and low latency, optimized for gaming, plus a lab-certified max refresh rate so you know your display's full potential.[10]

More Colors to Play With
Get deeper hues and more accurate colors with 95% Display P3 factory color calibrated that precisely recreates colors so lifelike you will get lost in your gameplay.[1]

aRGB Lighting
With an aRGB spectrum of 16.8 million colors, you can choose animations and customize lighting across your OMEN devices to fit your room or mood.[5]

Plenty of ports
Easily connect your PCs and consoles with two HDMI 2.0 ports and one DisplayPort™ 1.4, and plug in your accessories directly to the monitor with the USB hub via two USB-A 3.2 ports and the 3.5mm headphone jack.[4]

IPS Black Technology
No matter where you stand, IPS Black panel technology delivers clear, vivid images. IPS Black technology ensures image accuracy and consistency across ultrawide 178-degree viewing angles, so you can get lost in your gameplay from any angle.

OMEN Design
Made to impress in and out of game, the OMEN look blends sophistication and fun to elevate what a gaming setup can look like.

Integrated Dual 3W Speakers
No headset? No problem. The integrated dual 3W speakers deliver crystal-clear audio without adding additional cables or external speakers to your desk.

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
This gaming monitor underwent over 140 test cases to ensure it's compatible with your choice of console. Just connect the HDMI and get right to playing.

Fully adjustable stand
Make your desk just how you like it with the fully adjustable stand. Find comfort while you game with tilt, pivot, and 100mm height adjustments.

OMEN Gaming Hub
OMEN Gaming Hub is your one place for everything to make your gaming experience better. From software enhancements to hardware control, and live services, OMEN Gaming Hub elevates play in an easy and simple way.[5]

HP Eye Ease with Eyesafe® Certification
Built right into the display, with no need to adjust settings or worry about a compromised color experience, HP Eye Ease with Eyesafe® Certification provides beautiful color while reducing blue light to keep your screentime comfortable.

Effortless Joypad OSD Button
In the middle of gameplay, it's never been easier to configure your display settings right from the monitor. Quickly navigate the on-screen menu with the joypad OSD button to adjust brightness, contrast ratio, and color.

Integrated Cable Management
Cord and wire pass-through located on the display stand reduces cord-clutter and helps keep your workspace clean and organized.

Thoughtful Product Packaging
To reduce plastic in landfills, we use 100% recyclable packaging that meets recycling requirements, so it can stay out of the landfill when customers are finished with it.[8,11]

VESA Certified ClearMR Display
Clear Motion Ratio (CMR), provides a clear numerical value based on the ratio of clear pixels to blurry pixels, which allows you to easily compare the amount of motion blur between VESA Certified ClearMR displays.[12]

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Specifications

Display specifications

Display size
27"

Viewable diagonal size
26.96" (68.47 cm)

Aspect ratio
16:9[1]

Curvature
Flat

Native resolution
QHD (2560 x 1440)[1,2]

Resolution (maximum)
QHD (2560 x 1440 @ 280 Hz)[1]

Resolutions supported
640 x 480 @ 60 Hz; 720 x 400 @ 70 Hz; 800 x 600 @ 60 Hz; 1024 x 768 @ 60 Hz; 1280 x 720 @ 60 Hz; 1280 x 1024 @ 60 Hz; 1440 x 900 @ 60 Hz; 1600 x 900 @ 60 Hz; 1680 x 1050 @ 60 Hz; 1920 x 1080 @ 50 Hz; 1920 x 1080 @ 60 Hz; 1920 x 1080 @ 100 Hz; 1920 x 1080 @ 120 Hz; 1920 x 1200 @ 60 Hz; 2560 x 1440 @ 60 Hz; 2560 x 1440 @ 75 Hz; 2560 x 1440 @ 120 Hz; 720 x 480 @ 60 Hz; 720 x 576 @ 50 Hz; 1280 x 720 @ 50 Hz; 1280 x 720 @ 100 Hz; 1280 x 800 @ 60 Hz; 2560 x 1440 @ 144 Hz; 2560 x 1440 @ 165 Hz (DisplayPort only); 1920 x 1080 @ 240 Hz (DisplayPort only); 2560 x 1440 @ 240 Hz (DisplayPort only); 3840 x 2160 @ 60 Hz (HDMI console only); 2560 x 1440 @ 280 Hz (DisplayPort only)

Panel type
IPS Black; LCD

Bezel
3-sided borderless

Panel bit depth
True 8 bit[1]

Display colors
Up to 16.7 million colors supported[1]

Display color gamut
95% Display P3[1]

Calibrated color presets
100% BT.709; 95% Display P3

HDR Support
VESA DisplayHDR™ 400

Refresh rate (maximum)
280 Hz[1]

Display scan frequency
50-280 Hz (Vertical)[1] 30-463 kHz (Horizontal)[1]

Response time
1ms MPRT (with overdrive)[1]

Brightness
400 nits[1]

Contrast ratio
2000:1 (Static)[1] 10,000,000:1 (Dynamic)[1]

Pixel pitch
0.2331 x 0.2331 mm[1]

Pixels per inch (ppi)
109 ppi[1]

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

Backlight type
Edge-lit

Backlight lamp life
30,000 hours

Display features
Anti-glare; AMD FreeSync™ Premium; Integrated speakers; HP Eye Ease (Eyesafe® certified); NVIDIA® G-SYNC® Compatible; Height adjustable; Pivot; Tilt; Factory color calibration; Windows Dynamic Lighting; 4K Downscaling for Console HDR Support; VESA ClearMR 5000 certified

Display User Control Options
Brightness+; Color; Image; Input; Audio; Power; Menu; Management; Information; Exit; Contrast; Gaming; Message control; Language; External lighting

Management software
OMEN Gaming Hub; OMEN Lighting Studio[9]

Low blue light modes
Yes, HP Eye Ease (Eyesafe® Certified)[1]

Flicker-free
Yes

Screen treatment
Anti-glare

Hardness
3H[1]

Haze
25%

VESA mount
100 x 100 mm

Height adjustment range
100 mm

Tilt
-5 to +20°

Pivot
±90°

Speaker output power
2 x 3 W

Connectivity and communications

Port and connectors
2 HDMI 2.0
1 DisplayPort™ 1.4
1 x 3.5 mm Audio Jack (Audio Out)
2 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
106 W (maximum), 54 W (typical), 0.5 W (standby)

Logistics and Physical

Product color
Black

Stand color
Black

Detachable stand
Yes

Base area footprint
8.46 x 8.26 in

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

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

Weight
18.41 lb (with stand); 13.91 lb (without stand)

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

Packaged weight
24.82 lb

Pallet Dimensions (L x W x H)
Slip sheet: 44.49 x 27.91 x 88.78 in (20 ft, 40 ft), 44.49 x 27.91 x 88.78 in (40 HQ); Pallet: 44.29 x 27.91 x 75.83 in (20 ft, 40 ft), 44.49 x 27.91 x 93.5 in (40 HQ)

Pallet weight
Slip sheet: 868.84 lb (20 ft, 40 ft, 40 HQ); Pallet: 721.53 lb (20 ft, 40 ft), 895.3 lb (40 HQ)

Pallet (layers)
Slip sheet: 5 layers; Pallet: 4 layers (20' ft, 40' ft), 5 layers (40' HQ)

Products per layer
Slip sheet and Pallet: 7

Products per pallet
Slip sheet: 35; Pallet: 28 (20' ft , 40' ft), 35 (40' HQ)

Certification and compliance

Ecolabels
CEL; Korea MEPS; California CEC

Environmental specifications
Low halogen; Contains 20% recycled glass in the monitor panel; 100% of HP paper-based packaging is from recycled or certified sustainable sources; Contains at least 80% post-consumer recycled plastic; At least 5% recycled metal[4,5,6,7,8]

Certifications
BIS; BSMI; CB; CCC; CE; CEL; CSA; EAC; FCC; ISO 9241-307; KC/KCC; NOM; PSB; TUV Bauart; TUV LBL; VCCI; WEEE; ISC; California Energy Commission (CEC); WW application; ICE; TÜV Flicker free certified; UAE safety; UAE RoHS; South Africa safety; Ukraine safety

Microsoft WHQL certification
Windows 11; Windows 10

Operating temperature range
41 to 95°F

Non-operating temperature range
-40 to 65°C -40 to 149°F

Operating altitude
Up to 16,400 ft

Non-operating altitude
Up to 40,000 ft

Operating humidity range
20 to 80% RH (non-condensing)

Non-operating humidity range
5 to 95%

Additional information

Part Number
P/N: AW3V0AA#ABA
UPC code: 198701730514

Manufacturer Warranty
HP standard one-year limited warranty [10]

What's in the box
Monitor; Warranty card; USB Type-A to B cable; AC power cable; Quick Setup Poster; DisplayPort™ 1.4 cable; Cable holder; Base stand; Color calibration report[3]

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Footnotes

Messaging Footnotes

[1] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary, either higher or lower.

[2] Quad high-definition (QHD) content is required to view QHD 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.

[6] Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT® standard for computers, IEEE 1680.1-2018 standard.

[7] 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.

[8] Recycling facilities not available in all locations.

[13] Percentage of recycled glass in the monitor panel varies by product. Recycled glass is expressed as a percentage of the total weight of the glass.

[9] FreeSync™ Premium is an AMD® technology that requires mandatory low framerate compensation and at least 200Hz refresh rate with <3440 horizontal resolution or at least 120Hz with ≥3440 horizontal resolution, AMD Radeon Graphics and/or AMD A-Series APU-compliant monitors with DisplayPort/HDMI Adaptive-Sync required. More information is available at www.amd.com/freesync.

[10] 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.

[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] 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.

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 2560 x 1440 at 60 Hz with 8-bit color using one DisplayPort™, HDMI.

[3] Included cables may vary by country.

[4] External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen.

[5] Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT® standard for computers, IEEE 1680.1-2018 standard.

[6] 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.

[7] HP paper and fiber based packaging for PCs, displays, home and office print, and supplies is reported by suppliers as recycled or certified, with a minimum of 97% by volume verified by HP. Packaging is the box that comes with the product and all paper-based materials inside the box. Packaging for personal systems accessories and spare parts is not included.

[8] Percentage of recycled glass in the monitor panel varies by product. Recycled glass is expressed as a percentage of the total weight of the glass.

[9] Host PC requires Windows 10. OMEN Gaming Hub is available on the Microsoft store.

[10] Warranty may vary by country. See www.HP.com/go/support for details.