



OMEN 27 inch QHD 280Hz Gaming Monitor - OMEN 27qs G2 (AW3V0AA)



Overview

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.

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.



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.



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]



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]

Features

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]

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]

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]

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]

NVIDIA® G-SYNC® Compatible

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

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]

[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.

[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.

Specifications

Color	Black
Display size (diagonal)	27"
Panel technology	IPS Black; LCD
Display size (diagonal)	68.6 cm (27")
Aspect ratio	16:9 ^[1]
Native resolution	QHD (2560 x 1440) ^[1,2]
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)
Pixel pitch	0.2331 x 0.2331 mm ^[1]
Brightness	400 nits ^[1]
Contrast ratio	2000:1 ^[1]
Response time (typical)	1ms MPRT (with overdrive) ^[1]
Dimensions (W x D x H)	61.36 x 5.22 x 36.43 cm (without stand)
Dimensions (W x D x H)	24.16 x 2.06 x 14.34 in (without stand)
Dimensions With Stand (W x D x H)	61.36 x 22.33 x 52.37 cm
Weight	8.35 kg (with stand); 6.31 kg (without stand)
Weight	18.41 lb (with stand); 13.91 lb (without stand)
Display features	Height adjustable; Pivot; Tilt
Onscreen controls	Brightness+; Color; Image; Input; Audio; Power; Menu; Management; Information; Exit; Contrast; Gaming; Message control; Language; External lighting
Display colors	Up to 16.7 million colors supported ^[1]
Display scan frequency (horizontal)	30-463 kHz ^[1]
Display scan frequency (vertical)	50-280 Hz ^[1]
Power	100 - 240 VAC 50/60 Hz
Power consumption	106 W (maximum), 54 W (typical), 0.5 W (standby)
Operating temperature range	5 to 35°C
Operating humidity range	20 to 80% RH (non-condensing)
Sustainable impact 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
Certifications and compliances	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
Management Software	OMEN Gaming Hub; OMEN Lighting Studio ^[9]
UPC number	(A2N) 198701730507; (ABA) 198701730514; (ABB) 198701730538; (ABT) 198701730552; (ABU) 198701730576; (ABV) 198701730583; (AC8) 198701730590; (ACQ) 198701730606; (AKH) 198701730620; (UUG) 198701730637; (UUZ) 198701730651
Manufacturer Warranty	HP standard one-year limited warranty

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]

Additional specifications

Audio port	1 x 3.5 mm Audio Jack (Audio Out)
Backlight lamp life minimum (to half brightness)	30,000 hours
Backlight type	Edge-lit
Base area footprint (imperial)	8.46 x 8.26 in
Base area footprint (metric)	21.49 x 20.99 cm
Bezel	3-sided borderless
Color calibration features	Factory color calibration
Color gamut	95% Display P3 ^[1]
Curvature	Flat
Datasheet photo 1	https://prism-pui-int.inc.hp.com/pro/crystal.1/damhandler/accessories/cloud_fighters_27_jetblack_catalog_scrn_front.png
Datasheet photo 2	https://prism-pui-int.inc.hp.com/pro/crystal.1/damhandler/accessories/cloud_fighters_27_jetblack_catalog_scrn_frontright.png
Datasheet photo 3	https://prism-pui-int.inc.hp.com/pro/crystal.1/damhandler/accessories/cloud_fighters_27_jetblack_catalog_rear.png
Datasheet photo 4	https://prism-pui-int.inc.hp.com/pro/crystal.1/damhandler/accessories/cloud_fighters_27_jetblack_catalog_leftprofile.png
Detachable stand	Yes
Display area (imperial)	23.49 x 13.22 in
Display area (metric)	59.67 x 33.57 cm
Display contrast ratio (dynamic)	10,000,000:1
DisplayPort™	1 DisplayPort™ 1.4
Ecolabels	CEL; Korea MEPS; California CEC
Flicker-free	Yes
HDCP	Yes, DisplayPort™ and HDMI
HDMI	2 HDMI 2.0
HDR	VESA DisplayHDR™ 400
Hardness	3H ^[1]
Haze	25%
Height adjustment range	100 mm

Horizontal viewing angle	178°
Low blue light	Yes, HP Eye Ease (Eyesafe® Certified) ^[1]
Non-Operating Humidity Range	5 to 95%
Non-operating temperature - Celsius	-40 to 65°C
Non-operating temperature - fahrenheit	-40 to 149°F
Operating altitude	Up to 16,400 ft
Operating altitude	Up to 5,000 m
Operating temperature range	41 to 95°F
Package dimensions (W x D x H)	69.9 x 16 x 44.6 cm
Package dimensions (W x D x H)	27.52 x 6.3 x 17.56 in
Package weight	24.82 lb
Package weight	11.26 kg
Pallet (layers)	Slip sheet: 5 layers; Pallet: 4 layers (20' ft, 40' ft), 5 layers (40' HQ)
Pallet dimensions	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 dimensions (W x D x H)	Slip sheet: 113 x 70.9 x 225.5 cm (20 ft, 40 ft, 40 HQ); Pallet: 113 x 70.9 x 192.6 cm (20 ft, 40 ft), 113 x 70.9 x 237.5 cm (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 weight	Slip sheet: 394.1 kg (20 ft, 40 ft, 40 HQ); Pallet: 327.28 kg (20 ft, 40 ft), 406.1 kg (40 HQ)
Panel bit depth	True 8 bit ^[1]
Pixels per inch (ppi)	109 ppi ^[1]
Power supply type	Internal
Product brand name	HP
Product color	Black
Product dimensions with stand (W x D x H)	24.16 x 8.79 x 20.62 in

Products per pallet	Slip sheet: 35; Pallet: 28 (20' ft , 40' ft), 35 (40' HQ)
Products per pallet layer	Slip sheet and Pallet: 7
Refresh rate (maximum)	280 Hz
Resolution (maximum)	QHD (2560 x 1440 @ 280 Hz) ^[1]
Screen treatment	Anti-glare
Speaker output power	2 x 3 W
Special features	4K Downscaling for Console HDR Support; AMD FreeSync™ Premium; NVIDIA G-SYNC™; VESA ClearMR 5000 certified; Windows Dynamic Lighting
Stand color	Black
Stand type	Base stand; With stand; Height adjustable stand
Storage altitude	Up to 12,192 m
Storage altitude	Up to 40,000 ft
Technology logo 1	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c09121478.png
Technology logo 2	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08610272.png
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Technology logo 4	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08829160.png
Technology logo 5	https://prismui-int.inc.hp.com/prod.Crystal.1/DAMHandler/Accessories/Nvidia__G-SYNC-removebg-preview.png
Tilt	-5 to +20°
UNSPSC code	43211902
USB Type-A	2 USB Type-A 5Gbps signaling rate
Usb b (hub enablement)	1 USB-B
VESA mounting	100 x 100 mm
Vertical viewing angle	178°
Video connectors	HDMI; DisplayPort™-in
Viewable diagonal size	26.96" (68.47 cm)
pivot	±90°

[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.

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

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