



OMEN by HP 27 inch FHD 240Hz Gaming Monitor - OMEN 27s (780G5AA)

Overview



SPEED RUN THROUGH FUN

Outclass the competition with the OMEN by HP 27-inch FHD 240Hz 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.

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 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.



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 ports[4]. 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?



IT'S LIKE YOU'RE REALLY THERE

Escape fully and dive into detailed worlds with the crisp visuals of FHD resolution[2]. Marvel at the wide array of dazzling colors and hues of the 99% sRGB and 95% DCI-P3 color gamut[1]. Even in shadows, easily make out details and shading with VESA DisplayHDR™ 400[3].

Features

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]

[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.

[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.

Specifications

Display size (diagonal)	27"
Panel technology	IPS; LCD
Aspect ratio	16:9 ^[1]
Native resolution	FHD (1920 x 1080) ^[1,2]
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
Pixel pitch	0.31 x 0.31 mm
Brightness	400 nits ^[1]
Contrast ratio	1000:1 ^[1]
Response time (typical)	1ms GtG (with overdrive)
Dimensions (W x D x H)	24.16 x 2.06 x 14.34 in (without stand)
Weight	19.14 lb (with stand)
Display features	Height adjustable; Pivot; Tilt
Onscreen controls	Management; Information; Input; Color; Image; Menu; Gaming; Audio; External Lighting
Display colors	Up to 16.7 million colors supported
Display scan frequency (horizontal)	30-391 kHz
Display scan frequency (vertical)	60-240 Hz (DisplayPort™); 60-200 Hz (HDMI)
Camera	No integrated camera
Power	100 - 240 VAC 50/60 Hz
Power consumption	104 W (maximum), 52 W (typical), 0.5 W (standby)
Operating temperature range	5 to 35°C
Operating humidity range	20 to 80% RH
Sustainability 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
Certifications and compliances	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; CEL Grade 2 ^[10]
Physical security	None
Management Software	OMEN Gaming Hub; OMEN Lighting Studio ^[8]
UPC number	197029615442

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^[7]

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
Bezel	3-sided borderless
Color gamut	99% sRGB; 95% DCI-P3
Curvature	Flat
Datasheet photo 1	AHID/81983447cdeee7ed6ab5cf6e95ca7f278b294fe2
Datasheet photo 2	AHID/2694299b8b95bc355751ffcaec1bebe744c6987d
Datasheet photo 3	AHID/e55058567e6f485e26c341e772b7222cea48e45e
Datasheet photo 4	AHID/e602a3361d8b35a9b71752d8e2a03aef344a6b1c
Detachable stand	Yes
Display area (imperial)	23.49 x 13.22 in
Display contrast ratio (dynamic)	10000000:1
DisplayPort™	1 DisplayPort™ 1.4
End of Life CO2e (kg)	3
Energy Usage CO2e (kg)	99
Flicker-free	Yes
HDCP	Yes, DisplayPort™ and HDMI
HDMI	2 HDMI 2.0
HDR	VESA DisplayHDR™ 400
Hardness	3H
Haze	25%
Height adjustment range	100 mm
Horizontal viewing angle	178°
Layers per pallet	4
Low blue light	HP Eye Ease (Eyesafe® certified)
Non-Operating Humidity Range	5-95%
Operating temperature range	41 to 95°F
Package dimensions (W x D x H)	27.52 x 6.3 x 17.56 in
Package weight	25.99 lb
Pallet dimensions	44.49 x 27.91 x 75.83 in
Pallet weight	748.26 lb

Panel bit depth	True 8 bit
Pixels per inch (ppi)	82 ppi
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
Product language options	#ABA
Product long name specifications	OMEN by HP 27 inch FHD 240Hz Gaming Monitor - OMEN 27s, 240 Hz, 99% sRGB; 95% DCI-P3, IPS; LCD, No integrated camera, HP Eye Ease (Eyesafe® certified)
Product short name specifications	OMEN by HP 27 inch FHD 240Hz Gaming Monitor - OMEN 27s, 240 Hz, 99% sRGB; 95% DCI-P3, IPS; LCD
Production CO2e (kg)	136
Products per pallet	28
Products per pallet layer	7
Refresh rate (maximum)	240 Hz
Resolution (maximum)	FHD (1920 x 1080 @ 240 Hz)
Screen treatment	Anti-glare
Speaker output power	2 x 3 W
Special features	AMD FreeSync™ Premium; Gaming Console Compatible; NVIDIA G-SYNC™; VESA Certified AdaptiveSync
Stand color	Black
Stand type	Base stand; With stand; Height adjustable stand
Technology logo 1	Publication logos/VESA_Certified_AdaptiveSync_Logo_PNG.png
Technology logo 2	Publication logos/VESA_Certified_ClearMR_Logo_PNG.png
Technology logo 3	Publication logos/HP-Eye-Safe_PNG.png
Technology logo 4	Publication logos/AMD_Freesync_Premium_PNG.png
Technology logo 5	Publication logos/Nvidia_G-Sync_icon_PNG.png
Tilt	-5 to +20°
Total CO2e (kg)	240 <i>(A product carbon footprint is defined as the total amount of greenhouse gases emitted directly and indirectly by a product over its lifetime. Greenhouse gas emissions are reported as global warming potential for 100-year time horizon (GWP-100) in units of CO2 equivalence. Calculations are done in accordance with ISO 14040 & ISO 14044. Individual values may not sum to total due to rounding.)</i>
Total CO2e (kg) footnote number	[60]
Transportation CO2e (kg)	3
UNSPSC code	43211902

USB Type-A	2 SuperSpeed USB Type-A 5Gbps signaling rate
Usb b (hub enablement)	1 USB-B
VESA mounting	100 mm x 100 mm (bracket included)
Vertical viewing angle	178°
Video connectors	HDMI; DisplayPort™-in
Viewable diagonal size	27" (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 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.

[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.

[10] Monitors produced from June 2024 comply with China regulation GB 21520-2023.

Services

HP Care Pack Services

★ : Recommended

Personal Systems Consumer Care Pack Services

HP 3 Year Next Day Exchange Service for Consumer Monitors	UE875E ★
HP 2 Year Next Day Exchange Service for Consumer Monitors	UE874E ★
HP 1 year Post Warranty Pickup and Return Monitor Hardware Support	U42V2PE
HP 1 year SmartFriend Standalone Service	UC5Y3E
HP 3 month SmartFriend Standalone Service	UC5Y1E
HP 6 month SmartFriend Standalone Service	UC5Y2E

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