

OMEN by HP 27 inch UHD 144Hz Gaming Monitor - OMEN 27k

THE CENTERPIECE OF FUN

Play, create, and enjoy whatever your heart desires with this centerpiece of fun—all in 4K¹. Jump between 2 devices in a flash all while controlling both with the same keyboard and mouse, thanks to the built-in KVM switch². Get stunning 4K visuals¹ on PCs, consoles, and more with the OMEN by HP 27-inch UHD 144Hz Gaming Monitor.



*Product image may differ from actual product



UNCOMPROMISING PERFORMANCE

Frame by frame, experience all the action with no compromise—even with ultra-crisp 4K visuals¹. Boasting a fast 1ms GTG response time with Overdrive and 144Hz refresh rate³, every motion and pixel keeps up with you. Leave screen tearing and lag in the dust, thanks to NVIDIA® G-SYNC® compatibility.



VISUALS BEYOND IMAGINATION

Encounter realistic textures and brilliant colors on this picture-perfect 4K gaming monitor¹. With over 8 million pixels, marvel at dazzling visuals painted by a wide array of colors and hues of the 99% sRGB and 95% DCI-P3 color gamut³. Even in shadows, easily make out details and shading with VESA DisplayHDR™ 400⁴.



THE JOY HQ

Behold your gaming headquarters. Whether you're playing in or out of game, quickly switch between devices and control them with the same keyboard & mouse thanks to the KVM switch². What's more, it's all driven by the USB hub and USB-C® connection with data and video.

Sustainability in action

Build for a better tomorrow
Innovating with purpose and intention to drive impactful, positive, lasting change.

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Featuring



- 4K Resolution**
Get lost in the captivating definition and ultra-precise details of 4K resolution on this 27" diagonal monitor. The pixel dense 3840 x 2160 resolution expands your window into your gaming world and transforms your game into a remarkable, lifelike experience.¹
- 144Hz Refresh Rate**
Don't compromise between stunning visuals and smooth performance.³
- VESA DisplayHDR™ 400**
See details even in shadow and replicate reality on your screen with enhanced contrast.⁴
- 1ms GTG Response Time with Overdrive**
Eliminates motion blur for crisp, fluid gameplay no matter what's happening on-screen.³
- 99% sRGB and 95% DCI-P3 color gamut**
Get deeper hues and a wide array of colors with 99% sRGB and 95% DCI-P3 for precisely recreated colors so lifelike you get lost in your gameplay.³
- 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**
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
- αRGB Lighting**
Customize with 1.07 billion colors to fit you.⁵
- Next Gen Console Compatible**
Compatible with any console, and get 120FPS at 4K through HDMI 2.1 on the latest consoles.¹
- IPS Technology**
Image accuracy and consistency across wide 178-degrees viewing angles, no matter where you stand.
- Plenty of ports**
Easily connect your devices with a USB-C® 3.2 port, one HDMI 2.1, one HDMI 2.0, one DisplayPort™ 1.4, USB hub, two USB-A 3.2 ports, and 3.5 mm headphone jack.⁸
- New Design Unlocked**
The new OMEN look blends sophistication and fun to elevate your gaming setup.
- Built-in KVM switch**
Quickly switch between and control two different devices.²
- Integrated Dual 3W Speakers**
No headset? No problem. The integrated dual 3W speakers deliver crystal-clear audio.
- VESA Certified ClearMR 5000**
Easily compare the amount of motion blur between VESA Certified ClearMR displays with Clear Motion Ratio (CMR).⁹
- OMEN Light Studio**
Customize your αRGB lighting with custom animations, color themes and integrate into your entire ecosystem with OMEN Light Studio.⁵
- OMEN Gaming Hub**
From software enhancements to hardware control, and live services, OGH elevates play in an easy and simple way.⁵
- Adjust your view**
Find comfort while you game with tilt, pivot, and 100 mm height adjustments.
- 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.¹⁰
- Mindful metals**
Engineered to contain 10% recycled metals.¹¹
- Thoughtful Product Packaging**
100% recyclable packaging that can stay out of landfills.^{12,13}
- Effortless Joypad OSD Button**
Easy on-screen display settings with the joypad OSD button.
- Integrated Cable Management**
Help keep your workspace clean and organized.



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Specifications

Display specifications

Display size
27"

Aspect ratio
16:9¹

Curvature
Flat

Native resolution
4K UHD (3840 x 2160)^{1,2}

Resolution (maximum)
4K UHD (3840 x 2160 @ 144 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; 1920 x 1200; 2560 x 1440; 3840 x 2160

Panel type
IPS

Bezel
3-sided borderless

Panel bit depth
True 8 bit

Display colors
Up to 1.07 billion colors supported

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

HDR Support
VESA DisplayHDR™ 400

Refresh rate (maximum)
144 Hz

Display scan frequency
55-144 Hz (Vertical) 80-320 kHz (Horizontal)

Response time
1ms GtG (with overdrive)

Brightness
400 nits³

Contrast ratio
1000:1 (Static)¹ 10000000:1 (Dynamic)¹

Pixel pitch
0.16 x 0.16 mm

Pixels per inch (ppi)
163 ppi

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

Backlight type
Edge-lit

Backlight lamp life
30,000 hours

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; Split screen; Gaming; External Lighting

Management software
OMEN Gaming Hub; OMEN Lighting Studio⁸

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

Flicker-free
Yes

Screen treatment
Anti-glare

Hardness
3H

Haze
25%

VESA mount
100 mm x 100 mm (bracket included)

Height adjustment range
100 mm

Tilt
-5 to +20°

Pivot
±90°

Camera
No integrated camera

Speaker output power
2 x 3 W

Connectivity and communications

Port and connectors
1 HDMI 2.0; 1 HDMI 2.1
1 DisplayPort™ 1.4
1 x 3.5 mm Audio Jack (Audio Out)
1 SuperSpeed USB Type-C® 10Gbps signaling rate (Alt Mode DisplayPort™ 1.2)
2 SuperSpeed USB Type-A 5Gbps signaling rate
1 USB-B

HDCP
Yes, DisplayPort™, HDMI and USB Type-C®

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

Power consumption
120 W (maximum), 50 W (typical), 0.5 W (standby)

Logistics and Physical

Product color
Black

Stand color
Black

Detachable stand
Yes

Physical security
None

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

Dimensions with stand (W x D x H)
24.16 x 8.79 x 20.62 in
61.36 x 22.33 x 52.37 cm

Weight
16.62 lb (with stand)

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

Packaged weight
24.23 lb

Pallet Dimensions (L x W x H)
44.49 x 27.91 x 75.83 in

Pallet weight
698.98 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
BIS; BSMI; CB; CCC; CE; CEL; CSA; EAC; FCC; ISO 9241-307; KC/KCC; NOM; PSB; TUV Bauart; TUV LBL; VCCI; WEEE; ISC; CEL Grade 3; California Energy Commission (CEC); WW application; ICE; Ukraine certificates; TÜV Flicker free certified; UAE safety; UAE RoHS; South Africa safety¹⁰

Microsoft WHQL certification
Windows 11; Windows 10

Operating temperature range
41 to 95°F

Operating humidity range
20 to 80% RH

Additional information

Part Number
P/N: 780G8AA#ABA
UPC code: (ABA) 197029615930

Ad embargo date
6/18/2023

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

What's in the box
Monitor; DisplayPort™ cable; HDMI cable; Warranty card; USB Type-A to B cable; Quick Setup Poster; 1 USB Type-C® to Type-C cable; AC power cord⁷

Country of origin
Made in China



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Footnotes

Messaging Footnotes

¹ 4K content required to view in 4K resolution.

² Compatible with Windows 10 and up and Mac. For KVM compatibility, if connected PCs do not have USB-C® port, user will need a USB-C® to A cable. Sold separately.

³ All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary, either higher or lower.

⁴ 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 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 AC Power cord, DisplayPort™ cable, HDMI 2.1 cable, USB-B to A cable, and USB-C® cable included. All other cables sold separately.

⁹ 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.

¹⁰ Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 EPEAT® standard.

¹¹ 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.

¹² 100% 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.

¹³ 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 3840 x 2160 at 60 Hz with 8-bit color using one DisplayPort™, HDMI. The video card of the connected PC must be capable of supporting 3840 x 2160 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.

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

