

# 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 4K<sup>1</sup>. Jump between 2 devices in a flash all while controlling both with the same keyboard and mouse, thanks to the built-in KVM switch<sup>2</sup>. Get stunning 4K visuals<sup>1</sup> 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 visuals<sup>1</sup>. Boasting a fast 1ms GTG response time with Overdrive and 144Hz refresh rate<sup>3</sup>, 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 monitor<sup>1</sup>. 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 gamut<sup>3</sup>. Even in shadows, easily make out details and shading with VESA DisplayHDR™ 400<sup>4</sup>.



### 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 switch<sup>2</sup>. 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.<sup>1</sup>
- 144Hz Refresh Rate**  
Don't compromise between stunning visuals and smooth performance.<sup>3</sup>
- VESA DisplayHDR™ 400**  
See details even in shadow and replicate reality on your screen with enhanced contrast.<sup>4</sup>
- 1ms GTG Response Time with Overdrive**  
Eliminates motion blur for crisp, fluid gameplay no matter what's happening on-screen.<sup>3</sup>
- 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.<sup>3</sup>
- 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.<sup>6</sup>
- VESA Certified AdaptiveSync**  
VESA Certified AdaptiveSync guarantees higher refresh rates and low latency, optimized for gaming.<sup>7</sup>
- αRGB Lighting**  
Customize with 1.07 billion colors to fit you.<sup>5</sup>
- Next Gen Console Compatible**  
Compatible with any console, and get 120FPS at 4K through HDMI 2.1 on the latest consoles.<sup>1</sup>
- 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.<sup>8</sup>
- 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.<sup>2</sup>
- 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).<sup>9</sup>
- OMEN Light Studio**  
Customize your αRGB lighting with custom animations, color themes and integrate into your entire ecosystem with OMEN Light Studio.<sup>5</sup>
- OMEN Gaming Hub**  
From software enhancements to hardware control, and live services, OGH elevates play in an easy and simple way.<sup>5</sup>
- 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.<sup>10</sup>
- Mindful metals**  
Engineered to contain 10% recycled metals.<sup>11</sup>
- Thoughtful Product Packaging**  
100% recyclable packaging that can stay out of landfills.<sup>12,13</sup>
- 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**  
16:9<sup>1</sup>

**Curvature**  
Flat

**Native resolution**  
4K UHD (3840 x 2160)<sup>1,2</sup>

**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 nits<sup>3</sup>

**Contrast ratio**  
1000:1 (Static)<sup>1</sup> 10000000:1 (Dynamic)<sup>1</sup>

**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 Studio<sup>8</sup>

**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<sup>3,4,5,6</sup>

**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 safety<sup>10</sup>

**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. <sup>9</sup>

**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 cord<sup>7</sup>

**Country of origin**  
Made in China



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## Footnotes

### Messaging Footnotes

<sup>1</sup> 4K content required to view in 4K resolution.

<sup>2</sup> 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.

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

<sup>4</sup> 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.

<sup>5</sup> 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.

<sup>6</sup> 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](http://www.amd.com/freesync) for complete details. Confirm capability with your system manufacturer before purchase. GD-161.

<sup>7</sup> 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.

<sup>8</sup> AC Power cord, DisplayPort™ cable, HDMI 2.1 cable, USB-B to A cable, and USB-C® cable included. All other cables sold separately.

<sup>9</sup> 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.

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

<sup>11</sup> 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.

<sup>12</sup> 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.

<sup>13</sup> Recycling facilities not available in all locations.

### Technical Specifications Footnotes

<sup>1</sup> All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

<sup>2</sup> 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.

<sup>3</sup> External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen.

<sup>4</sup> ITE Derived Closed Loop Plastic percentage is based on the definition set in the IEEE 1680.1-2018 standard.

<sup>5</sup> 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.

<sup>6</sup> Molded pulp cushions are made from 100% recycled wood fiber and organic materials.

<sup>7</sup> Included cables may vary by country.

<sup>8</sup> Host PC requires Windows 10. OMEN Gaming Hub is available on the Microsoft store.

<sup>9</sup> Warranty may vary by country. See [www.HP.com/go/support](http://www.HP.com/go/support) for details.

<sup>10</sup> Monitors produced from June 2024 comply with China regulation GB 21520-2023.

