

OMEN by HP 23.8 inch FHD 165Hz Gaming Monitor - OMEN 24

TAKE YOUR FUN UP A NOTCH

Reach new possibilities with the OMEN by HP 23.8-inch FHD 165Hz Gaming Monitor. Quick performance and vibrant color let you get lost in the games you love most, while the sleek design functions to look and feel great on your desk.



*Product image may differ from actual product

165Hz

NO LAG. ALL SPEED.

Frame by frame, experience all the action with no distractions. To keep things smooth, this display boasts a fast 165Hz refresh rate and 1ms response time to cut motion blur¹, so every pixel keeps up with you. Leave screen tearing and lag in the dust, thanks to AMD FreeSync™ Premium technology².

1080p

SEE A WORLD YOU CAN STEP INTO

Mistake virtual for IRL while you explore your favorite worlds. For lifelike gameplay, escape into a wide array of vibrant colors, hues, and shades with the 99% sRGB and 90% DCI-P3 color gamut¹. Focus on the finer details from any angle, thanks to Full HD resolution³ and IPS panel technology.



REFINE YOUR PLAY SPACE

Made to impress in and out of game, the new OMEN look blends sophistication and fun to elevate what a gaming setup can look like. It's equipped with ports perfect for connecting your gaming PC, console, and even a work PC. Thanks to the easy cable management and the adjustable stand, your desk will be just how you like it.



ALL YOUR FUN, CUSTOM

Play around with every possible setting in OMEN Gaming Hub⁴—a one-stop shop for customizing your ecosystem. Make your monitor, any PC, and select accessories work better together the way you want. From hardware to software enhancements, OGH elevates play in an easy and simple way.



With



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Featuring



FHD Resolution

Focus on the finer details and enjoy clear images with the 1920 x 1080 Full HD resolution on this 23.8" diagonal monitor.³

165Hz refresh rate

Crisp action and responsive gameplay with virtually no artifacting or screen tearing.¹

More Colors to Play With

Get deeper hues and a wide array of colors with 99% sRGB and 90% DCI-P3 for precisely recreated colors so lifelike you get lost in your gameplay.¹

1ms Response Time with Overdrive

Eliminates motion blur for crisp, fluid gameplay no matter what's happening on-screen.¹

AMD FreeSync™ Premium Technology

Game confidently with a high refresh rate, low framerate compensation, and low latency.²

Plenty of ports

Easily connect your devices with two HDMI 2.0 ports, one DisplayPort™ 1.4, and one 3.5mm headphone jack.⁵

New Design Unlocked

The new OMEN look blends sophistication and fun to elevate your gaming setup.

IPS Technology

Image accuracy and consistency across wide 178-degree viewing angles, no matter where you stand.

VESA Certified ClearMR Display

Easily compare the amount of motion blur between VESA Certified ClearMR displays with Clear Motion Ratio (CMR).⁶

Console Compatible

Over 140 test cases to ensure it's compatible with your choice of console.

Fully adjustable stand

Find comfort while you game with tilt, pivot, and 100mm height adjustments.

HP Eye Ease with Eyesafe® Certification

Keep your screen time comfortable with beautiful colors while reducing blue light.

OMEN Gaming Hub

From software enhancements to hardware control, and live services, OGH elevates play in easy and simple way.⁴

Materials that Matter

Contains 85% post-consumer recycled plastics.⁷

Thoughtful Product Packaging

100% recyclable packaging that can stay out of landfills.^{8,9}

Mindful metals

Engineered to contain 10% recycled metals.¹⁰

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
23.8"

Native resolution
FHD (1920 x 1080)^{1,2}

Resolution (maximum)
FHD (1920 x 1080 @ 165 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

Display type
IPS

Panel bit depth
True 8 bit

Aspect ratio
16:9¹

Display scan frequency
60-165 Hz (Vertical) 30-210 kHz (Horizontal)

Response time
1ms GtG (with overdrive)¹

Brightness
300 nits¹

Contrast ratio
1000:1¹ (Static) 10000000:1¹ (Dynamic)

Pixel pitch
0.28 x 0.28 mm

Pixels per inch (ppi)
93 ppi

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

Backlight type
Edge-lit

Backlight lamp life
30,000 hours

Display colors
Up to 16.7 million colors supported

Display Color Gamut
99% sRGB; 90% DCI-P3

Display features
On-screen controls; Pivot rotation; Anti-glare; Height adjustable; AMD Freesync™ Premium; Gaming Console Compatible; HP Eye Ease (Eyesafe® certified)

Display User Control Options
Management; Information; Exit; Input; Color; Image; Power; Menu; Gaming

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

Flicker-free
Yes

Screen treatment
Anti-glare

Hardness
3H

Bezel
3-sided borderless

VESA mount
100 mm x 100 mm (bracket included)

Height adjustment range
100 mm

Tilt
-5 to +23°

Pivot
±90°

Connectivity and communications

Port and Connectors
2 HDMI 2.0 1 DisplayPort™ 1.4 1 x 3.5 mm Audio Jack (Audio Out)

HDCP
Yes, DisplayPort™ and HDMI

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

Power consumption
40 W (maximum), 25 W (typical), 0.5 W (standby)

Logistics and Physical

Product color
Black

Detachable stand
Yes

Base area footprint
7.87 x 7.48 in

Dimensions with stand (L x W x H)
21.24 x 7.81 x 18.32 in

Weight
14 lb (with stand)

Packaged Dimensions (L x W x H)
23.43 x 6.46 x 16.02 in

Packaged weight
20.56 lb

Pallet dimensions (W x D x H)
47.24 x 39.13 x 85.83 in

Pallet weight
1309 lb

Pallet (layers)
5 layers per pallet; 5 layers per slip sheet (20 ft & 40 ft); 6 layers per slip sheet (40 ft HQ)

Products per layer
12 (slip sheet and pallet)

Products per pallet
60 sets per pallet; 60 per slip sheet (20 ft & 40 ft); 72 per slip sheet (40 ft HQ)

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
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

Operating temperature range
41 to 95°F

Operating humidity range
20 to 80% RH

Additional information

Part Number
P/N: 780D9AA#ABA
UPC/EAN code: (ABA) 197029614254

Ad embargo date
5/28/2023

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

What's in the box
Monitor; DisplayPort™ cable; Warranty card; Quick Setup Poster; AC power cord

Country of origin
Made in China



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Footnotes

Key Selling Points Footnotes

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

² 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.

³ Full high-definition (FHD) content required to view FHD images.

⁴ Account required for full functionality. See OMEN Gaming Hub terms and conditions.

Feature Messaging Footnotes

⁵ AC Power cord and DisplayPort™ cable included. All other cables sold separately.

⁶ 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.

⁷ Recycled plastic content percentage is based on the definition set in the IEEE 16801-2018 EPEAT® standard.

⁸ 100% 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.

⁹ Recycling facilities not available in all locations.

¹⁰ 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.

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 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.

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 16801-2018 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.

