OMEN by HP 31.5 inch QHD 165Hz Curved Gaming Monitor - OMEN 32c

TAKE YOUR FUN UP A NOTCH

Reach new possibilities with the OMEN by HP 31.5-inch QHD 165Hz Curved 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



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 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.



SEE A WORLD YOU CAN STEP INTO

Mistake virtual for IRL in the immersive 1500R curve and crisp visuals of QHD resolution³. For lifelike gameplay, escape into a wide array of vibrant colors, hues, and shades with 99% sRGB and 90% DCI-P3 color gamut¹. Even in shadow, easily make out details and shading with HDR and up to 400 nits of brightness¹.

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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.

Sustainability in action

Build for a better tomorrow

Innovating with purpose and intention to drive impactful, positive, lasting change.



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Featuring







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 31.5" diagonal monitor.³

165Hz refresh rate

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

HDR

Explore new worlds with richer colors thanks to a peak brightness of 400 nits.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 GTG 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

VESA Certified AdaptiveSync

VESA Certified AdaptiveSync guarantees higher refresh rates and low latency, optimized for gaming.⁵

Plenty of ports

Easily connect your devices with two HDMI 2.0 ports, one DisplayPort™ 1.4, and one 3.5 mm headphone jack.⁶

New Design Unlocked

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

1500R curved display

A curve for an incredibly realistic and immersive gaming experience.

VESA Certified ClearMR 6000

Easily compare the amount of motion blur between VESA Certified ClearMR displays with Clear Motion Ratio (CMR).⁷

Console Compatible

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

Adjustable stand

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

HP Eye Ease with Eyesafe® Certification

Keep your screentime comfortable with beautiful colors while reducing blue light.

OMEN Gaming Hub

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

Materials that Matter Contains 85% post-consumer recycled plastics.⁸

Thoughtful Product Packaging

100% recyclable packaging that can stay out of landfills.^{9,10}

Mindful metals

Engineered to contain 10% recycled metals.¹¹

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 315" Display size (diagonal, metric) 80 cm (31.5") Aspect ratio 16·9¹ Curvature 1500R Native resolution QHD (2560 x 1440)^{1,2} Resolution (maximum) QHD (2560 x 1440 @ 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; 1920 x 1200; 2560 x 1440 Panel type VA Bezel 3-sided borderless Panel active area 6973 x 3923 cm Panel bit depth True 8 bit Display colors Up to 16.7 million colors supported Display color gamut 99% sRGB; 90% DCI-P3 HDR Support HDR 400 Refresh rate (maximum) 165 Hz Display scan frequency 60-165 Hz (DisplayPort™); 55-144 Hz (HDMI) (Vertical) 30-255 kHz (Horizontal) Response time 1ms GtG (with overdrive) Brightness 400 nits¹ Contrast ratio 3000:1 (Static)¹ 10000000:1 (Dynamic)¹ Pixel pitch 0.27 x 0.27 mm Pixels per inch (ppi) 92 ppi Viewing angle 178° (Vertical) 178° (Horizontal) **Backlight type** Edge-lit Backlight lamp life 30.000 hours **Display features** On-screen controls; Anti-glare; 1500R curvature; Height adjustable; AMD Freesync™ Premium; Gaming Console Compatible; HP Eye Ease (Eyesafe® certified); HDR **Display User Control Options** Management; Information; Exit; Input; Color; Image; Power; Menu; Gaming Management software OMEN Gaming Hub⁸ Low blue light modes Yes, HP Eye Ease (Eyesafe® Certified) Flicker-free Yes Screen treatment Anti-glare Hardness 3H Haze 40% VESA mount 100 mm x 100 mm (bracket included) Height adjustment range 100 mm Tilt -5 to +20° Camera No integrated camera

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) On mode power demand in Standard Dynamic Range (SDR) 32 W Standby mode power demand 0.5 W

Logistics and Physical

Product color Black Stand color Black Detachable stand Physical security None Base area footprint 22.49 x 23.49 cm Dimensions without Stand (W x D x H) 70.86 x 9.82 x 42.38 cm Dimensions with stand (W x D x H) 70.86 x 24.33 x 61.26 cm Weight 10.38 kg (with stand) Packaged Dimensions (W x D x H) 82.2 x 21.9 x 52.1 cm Packaged weight 15.1 kg Pallet Dimensions (L x W x H) 110.5 x 83.2 x 222.6 cm Pallet weight 324.3 kg Pallet (layers) Products per layer Products per pallet

Certification and compliance

Energy efficiency

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% ITEderived closed loop plastic^{3,45,6} **Certifications** BIS; BSMI; CB; CCC; CE; CEL; CSA; EAC; FCC; ISO 9241-307; KC/KCC; NOM; PSB; TUV Bauart; TUV LBL;

VCCI; WEEE; ISC; California Energy Commission (CEC); WW application; ICE; Ukraine certificates; TÜV Flicker free certified; UAE safety; UAE RoHS; South Africa safety; CEL Grade 2⁹ Microsoft WHOL 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: 780K6AA#ABB; #A2N; #ABT; #ABU; #ABV; #ABY; #ACQ; #UUG; #UUZ UPC code: 197029618252 Manufacturer Warranty 1 year limited warranty What's in the box Monitor; DisplayPort™ cable; Warranty card; Quick Setup Poster; AC power cord⁷ Country of origin Made in China



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Footnotes

Messaging Footnotes

¹All 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 Quad high-definition (QHD) content required to view QHD images.

⁴ 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.

⁵ 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. ⁶ AC Power cord and DisplayPort[™] cable included. All other cables sold separately.

⁷ 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.

⁸ Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 EPEAT® standard.

9 100% 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. ¹⁰ Recycling facilities not available in all locations.

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.

Technical Specifications Footnotes

¹All 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. The video card of the connected PC must be capable of supporting 2560 x 1440 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 Monitors produced from June 2024 comply with China regulation GB 21520-2023.

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