

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

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 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.

HDR

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.

Ports

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.

OMEN Gaming Hub

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.

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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.
- 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
- 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.
- 1500R curved display**
A curve for an incredibly realistic and immersive gaming experience.
- 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.
- Adjustable stand**
Find comfort while you game with tilt 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, 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
31.5"

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

Display type
VA

Panel bit depth
True 8 bit

Aspect ratio
16:9¹

HDR Support
HDR 400

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
3000:1¹ (Static) 10000000:1¹ (Dynamic)

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 colors
Up to 16.7 million colors supported

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

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

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 +20°

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
90 W (maximum), 76 W (typical), 0.5 W (standby)

Logistics and Physical

Product color
Black

Detachable stand
Yes

Base area footprint
8.85 x 9.25 in

Dimensions with stand (L x W x H)
27.9 x 9.58 x 24.12 in

Weight
22.88 lb (with stand)

Packaged Dimensions (L x W x H)
32.36 x 8.62 x 20.51 in

Packaged weight
33.29 lb

Pallet dimensions (W x D x H)
pallet: 43.5 x 32.76 x 87.64 in (20 ft & 40 ft); pallet: 43.5 x 32.76 x 87.64 in (40 ft HQ); slip sheet: 43.5 x 32.76 x 82.91 in (20 ft & 40 ft); slip sheet: 43.5 x 32.76 x 82.91 in (40 ft HQ)

Pallet weight
pallet: 713.46 lb (20 ft & 40 ft); pallet: 713.46 lb (40 ft HQ); slip sheet: 691.46 lb (20 ft & 40 ft); slip sheet: 691.46 lb (40 ft HQ)

Pallet (layers)
4 layers per pallet; 4 layers per slip sheet

Products per layer
5 (slip sheet and pallet)

Products per pallet
20 sets per pallet; 20 sets per slip sheet

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; Microsoft WHQL Certification; 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

Operating temperature range
41 to 95°F

Operating humidity range
20 to 80% RH

Additional information

Part Number
P/N: 780K6AA#ABA
UPC/EAN code: (ABA) 197029618238

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

