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

TAKE YOUR FUN UP A NOTCH

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

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 GTG response time with Overdrive to cut motion blur[1], so every pixel keeps up with you. Leave screen tearing and lag in the dust, thanks to AMD FreeSync™ Premium technology[2].

SEE A WORLD YOU CAN STEP INTO

Mistake virtual for IRL while you explore your favorite worlds with the crisp visuals of QHD resolution[3]. For lifelike gameplay, escape into a wide array of vibrant colors, hues, and shades with the 99% sRGB and 95% DCI-P3 color gamut[1]. Even in shadow, easily make out details and shading with HDR and up to 400 nits of brightness[1].

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 95% 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.

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

VESA Certified ClearMR 5000
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.

Fully adjustable stand
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.

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
31.5"

Display size (diagonal, metric)
80 cm (31.5")

Aspect ratio
16:9[1]

Curvature
Flat

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
IPS

Bezel
3-sided borderless

Panel active area
69.73 x 39.23 cm

Panel bit depth
True 8 bit

Display colors
Up to 16.7 million colors supported

Display color gamut
99% sRGB; 95% 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 nits[1]

Contrast ratio
1000:1 (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; Pivot rotation; Anti-glare; 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 Hub[8]

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

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

On mode power demand in High Dynamic Range (HDR) mode
70 W

Standby mode power demand
0.5 W

Logistics and Physical

Product color
Black

Stand color
Black

Detachable stand
Yes

Physical security
None

Base area footprint
22.49 x 23.49 cm

Dimensions without Stand (W x D x H)
71.35 x 5.25 x 42.62 cm

Dimensions with stand (W x D x H)
71.35 x 24.33 x 61.88 cm

Weight
8.98 kg (with stand)

Packaged Dimensions (W x D x H)
82.1 x 17.4 x 52.1 cm

Packaged weight
13.43 kg

Pallet Dimensions (L x W x H)
105.4 x 83.1 x 222.6 cm

Pallet weight
338.62 kg

Pallet (layers)
4

Products per layer
6

Products per pallet
24

Certification and compliance

Energy efficiency
F

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; California Energy Commission (CEC); WW application; ICE; Ukraine certificates; TÜV
Flicker free certified; UAE safety; UAE RoHS; South Africa safety; CEL Grade 2[9]

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: 780K0AA#ABB:; #A2N; #ABT; #ABU; #ABV; #ABY; #ACQ; #UUG; #UUZ
UPC code: 197029617781

Manufacturer Warranty
1 year limited warranty

What's in the box
Monitor; DisplayPort™ cable; Warranty card; Quick Setup Poster; AC power cord[7]

Country of origin
Made in China

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Footnotes

Messaging 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. 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

[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 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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