

OMEN Transcend 31.5 inch UHD 240Hz OLED Gaming Monitor - OMEN Transcend 32

The Portal Between Playing and Creating

Experience amazing visuals and ultrafast gameplay with the OMEN Transcend 32 OLED Gaming Monitor. Play and create like never before with a QD-OLED, 4K UHD², color accurate display that offers a 240 Hz refresh rate¹ and .03ms response time. USB-C with 140W power delivery and OMEN Gear Switch enables you to seamlessly flow between gaming and working, making this a gamer's best friend and a boss's worst nightmare.



*Product image may differ from actual product



Unlock Peak Performance

Feel the power with a captivating QD-OLED, 4K UHD display² that delivers an unreal 240 Hz refresh rate¹ and .03ms response time so you can play to your potential.



Marvel at Hyperrealism

Replicate realism with a near infinite contrast ratio and VESA DisplayHDR™ True Black 400³ giving you inkier blacks and vibrant colors¹.



Transcend Gaming and Creating

Easily switch between two devices with OMEN Gear Switch. One cable gives you 140W power delivery, data and video, and it has audio tuned by HyperX.

Sustainability in action

We're in this Together

It matters. With 100% recyclable packaging solutions⁴, at least 80% recycled plastic content⁶, and recycled materials on the various parts, we are in this together⁵.



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Featuring



QD-OLED Panel Technology

Experience visuals like never before with an outstanding contrast ratio and a rapid 0.03ms response time, ensuring vivid colors and minimal blur.¹

240 Hz Refresh Rate

Don't compromise performance for stunning visuals. Get smooth gaming, sharper objects, and cleaner details with a 4K gaming monitor that refreshes frames at 240 times a second.^{1,2}

VESA DisplayHDR™ True Black 400

Unparalleled quality and contrast with VESA DisplayHDR™ True Black 400 ensures true-to-life visuals with deep blacks and advanced colors.³

VESA ClearMR 13000

Clear Motion Ratio (CMR), provides a clear numerical value based on the ratio of clear pixels to blurry pixels, which allows you to easily compare the amount of motion blur between VESA Certified ClearMR monitors.⁷

VESA Certified AdaptiveSync

VESA Certified AdaptiveSync guarantees higher refresh rates and low latency, optimized for gaming, plus a lab-certified max refresh rate so you know your monitor's full potential.⁸

NVIDIA® G-SYNC® Compatible

Enjoy variable refresh rates with NVIDIA® G-SYNC® compatibility, tested and certified to deliver gameplay that is sharp, fluid, and stutter-free with minimal input lag.

Professional Color

Fuel your creativity with a monitor that supports your vision, with Factory Color Calibration for professional-grade color accuracy and a 99% P3 color gamut delivering on the legacy of HP's DreamColor.^{1,2}

OMEN Gear Switch

Independently switch all your gaming accessories between two devices without unplugging anything with OMEN Gear Switch.

140W USB-C® Power Delivery

Just one cable is all you need for fast and 140W USB-C® Power Delivery efficient charging, video, data and the full gaming experience.

OMEN Tempest Monitor Cooling

Keep your OLED technology cool to increase panel longevity with OMEN Tempest Monitor Cooling Technology.

Three Year Limited Warranty

Rest easy - your purchase is covered with our 3-year limited warranty, offering you unmatched support and reliability.

Enhanced aRGB Lighting

Personalize your gaming setup with OMEN Light Studio's color themes and animations. Plus, be the first to experience Windows Dynamic lighting, enabling control of your lighting through Windows for ultimate customization.⁹

World's first gaming monitor with Audio Tuned by HyperX

Enhance your audio with 10 band EQ for personalized sound profiles and audio tuned by HyperX specifically tailored for gaming and entertainment.

Redesigned OSD

Blend your gaming and professional setup for a fully customizable experience in both work and play.

Multiplatform Capabilities

Easily connect your PCs and consoles with DisplayPort™, HDMI, and USB-C inputs and keep your accessories organized with the convenience of the USB Hub.

Fully adjustable stand with magnetic headphone hook

Make your desk just how you like it and maintain comfort with a fully adjustable stand, including height adjustment, tilt, and pivot capabilities, as well as a magnetic headphone hook.



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Specifications

Display specifications

Display size
31.5"
Display size (diagonal, metric)
80 cm (31.5")
Viewable diagonal size
31.5" (80.32 cm)
Aspect ratio
16:9 ¹
Curvature
Flat
Native resolution
4K UHD (3840 x 2160) ^{1,2}
Resolution (maximum)
4K UHD (3840 x 2160 @ 240 Hz)
Resolutions supported
640 x 480 @ 60 Hz; 640 x 480 @ 75 Hz; 720 x 400 @ 70 Hz; 800 x 600 @ 60 Hz; 1024 x 768 @ 60 Hz; 1280 x 1024 @ 60 Hz; 1440 x 900 @ 60 Hz; 1600 x 900 @ 60 Hz; 1600 x 1200 @ 60 Hz; 1680 x 1050 @ 60 Hz; 1920 x 1080 @ 60 Hz; 1920 x 1200 @ 60 Hz; 2560 x 1440 @ 60 Hz; 3840 x 2160 @ 60 Hz; 1280 x 1024 @ 75 Hz; 1024 x 768 @ 75 Hz; 1280 x 800 @ 60 Hz; 1920 x 1080 @ 165 Hz; 1920 x 1080 @ 240 Hz; 2560 x 1440 @ 144 Hz; 2560 x 1440 @ 165 Hz; 2560 x 1440 @ 240 Hz; 3840 x 2160 @ 165 Hz; 3840 x 2160 @ 240 Hz
Panel type
QD-OLED
Bezel
3-sided micro-edge
Panel active area
69.95 x 39.47 cm
Panel bit depth
True 10 bit ¹
Display colors
Up to 1.07 billion colors supported
Display color gamut
100% sRGB; 100% BT.709; 80% BT.2020; 99% Display P3; 97.5% Adobe RGB
HDR Support
VESA DisplayHDR™ 400 True black
Refresh rate (maximum)
240 Hz
Display scan frequency
24-240 Hz (Vertical) ¹ 30-230 kHz (Horizontal) ¹
Response time
0.03ms GtG ¹
Brightness
250 nits ¹
Contrast ratio
1,500,000:1 (Static) ¹ 1,500,000:1 (Dynamic) ¹
Pixel pitch
0.18 x 0.18 mm
Pixels per inch (ppi)
140 ppi ¹
Viewing angle
178° (Vertical)##displayviewanglelftntnbr## 178° (Horizontal)##displayviewanglelftntnbr##
Backlight lamp life
30,000 hours
Display features
AMD FreeSync™ Premium Pro; Integrated speakers; HP Eye Ease (Eyesafe® certified); NVIDIA® G-SYNC® Compatible; KVM switch; Picture-in-Picture; Picture-by-Picture; Height adjustable; Pivot; Tilt; Factory color calibration; Windows Dynamic Lighting; OMEN Tempest Cooling Technology; VESA ClearMR 13000 certified; OMEN Gear Switch
Display User Control Options
Picture, Input, Audio, Power, System (professional); Gaming, Picture, Lighting, Input, Audio, Power, System (gaming)
Management software
OMEN Gaming Hub; HP Display Manager ¹¹
Low blue light modes
Yes, HP Eye Ease (Eyesafe® Certified)
Flicker-free
Yes (TÜV certified)
Screen treatment
Anti-reflective
Hardness
2H ¹
VESA mount
100 x 100 mm (bracket included)
Height adjustment range
100 mm
Tilt
-5 to +20°
Pivot
±90°
Speaker output power
4 x 3 W
Audio features
DTS Virtual:X™; Audio by HyperX

Connectivity and communications

Port and connectors
2 HDMI 2.1
1 DisplayPort™ 2.1
1 x 3.5 mm Audio Jack (Audio Out)
2 USB Type-C® 10Gbps signaling rate (15 W charging)
1 USB Type-C® 10Gbps signaling rate (Up to 140W USB Power Delivery, Alt Mode DisplayPort™ 1.4)
3 USB Type-A 10Gbps signaling rate (3 charging with 7.5 W)
HDCP
Yes, DisplayPort™, HDMI and USB Type-C®
Power supply
100 - 240 VAC 50/60 Hz
(External)
Standby mode power demand
0.5 W

Logistics and Physical

Product color
Black bezel; White rear cover
Stand color
Black
Detachable stand
Yes
Base area footprint
22.5 x 23.5 cm
Dimensions without Stand (W x D x H)
71.91 x 11.4 x 42.39 cm (without stand)
Dimensions with stand (W x D x H)
71.91 x 24.32 x 61.71 cm
Weight
8.8 kg (with stand)
Packaged Dimensions (W x D x H)
84.3 x 19 x 50.1 cm
Packaged weight
15.9 kg (with stand)

Certification and compliance

Energy efficiency
ENERGY STAR® certified G
Ecolabels
EPEAT® Gold with Climate+ ¹⁰
Environmental specifications
Low halogen; Outside box and corrugated cushions are 100% sustainably sourced and recyclable; 80% ITE-derived closed loop plastic; 10% recycled metal; Contains ocean-bound plastic; Contains 20% recycled glass in the monitor panel ^{4,5,6,7,8,9}
Certifications
BIS; BSMI; CB; CCC; CE; EAC; FCC; ICES-003; ISO 9241-307; KC; NOM; RCM; TUV Bauart; UL/CSA; VCCI; ISC; Low blue light; CEL Grade 3; California Energy Commission (CEC); UAE; Ukraine certificates; Eyesafe® Certified; NRCS; Ukraine EE; Belarus EE; Korea MEPS; EMF; KCC-MSIP
Microsoft WHQL certification
Windows 11; Windows 10
Operating temperature range
41 to 95°F
Operating humidity range
15 to 80% RH
Non-operating humidity range
5 – 95 %

Additional information

Part Number
P/N: 9R181AA#ABB; #A2N; #ABT; #ABU; #ABV; #ABY; #ACQ; #UUG; #UUZ
UPC code: (ABB) 197961927917; (ABV) 197961927955
Manufacturer Warranty
HP three-year limited warranty
What's in the box
Monitor; DisplayPort™ cable; HDMI cable; Quick Setup Poster; 1 USB Type-C® to Type-C cable; 1 USB Type-C® to Type-A cable; AC power cord; Color calibration report; External power adapter ³
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 4K content required to view 4K resolution.

³ 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.

⁴ 100% 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.

⁵ Recycling facilities not available in all locations.

⁶ Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT® standard for computers, IEEE 16801-2018 standard.

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 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.

⁹ OMEN Gaming Hub account required. 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.

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™ 2.1 or HDMI 2.1 or USB-C (DisplayPort™ alt mode) required to drive panel at its native resolution. The video card of the connected PC must be capable of supporting 3840 × 2160 at 60 Hz with 10-bit color using one DisplayPort™, HDMI, or USB-C (DisplayPort™ alt mode). The video card of the connected PC must be capable of supporting 3840 x 2160 at 240 Hz and include 1 DisplayPort™ 2.1 or 1 HDMI 2.1 outputs to drive the monitor at the Preferred Mode.

³ Included cables may vary by country.

⁴ External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen.

⁵ ITE Derived Closed Loop Plastic percentage is based on the definition set in the IEEE 16801-2018 standard.

⁶ Ocean Bound plastic is based on the definition set by the UL2809 standard.

⁷ 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.

⁸ 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.

⁹ Percentage of recycled glass in the monitor panel varies by product. Recycled glass is expressed as a percentage of the total weight of the glass.

¹⁰ Based on US EPEAT® registration according to IEEE 16801-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more information.

¹¹ Host PC requires Windows 10 and above. HP Display Center is available on the Microsoft store.

