



OMEN Transcend 31.5 inch UHD 240Hz OLED Gaming Monitor - OMEN Transcend 32 (9R181AA)

Overview

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 UHD[2], color accurate display that offers a 240 Hz refresh rate[1] 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.

240HZ

Unlock Peak Performance

Feel the power with a captivating QD-OLED, 4K UHD display[2] that delivers an unreal 240 Hz refresh rate[1] and .03ms response time so you can play to your potential.



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.

HDR

Marvel at Hyperrealism

Replicate realism with a near infinite contrast ratio and VESA DisplayHDR™ True Black 400[3] giving you inkier blacks and vibrant colors[1].



We're in this Together

It matters. With 100% recyclable packaging solutions[4], at least 80% recycled plastic content[6], and recycled materials on the various parts, we are in this together[5].

Features

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]

[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 1680.1-2018 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.

Specifications

Color	White
Display size (diagonal)	31.5"
Panel technology	QD-OLED
Display size (diagonal)	80 cm (31.5")
Aspect ratio	16:9 ^[1]
Native resolution	4K UHD (3840 x 2160) ^[1,2]
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
Pixel pitch	0.18 x 0.18 mm
Brightness	250 nits ^[1]
Contrast ratio	1,500,000:1 ^[1]
Response time (typical)	0.03ms GtG ^[1]
Dimensions (W x D x H)	71.91 x 11.4 x 42.39 cm (without stand)
Dimensions (W x D x H)	28.31 x 4.49 x 16.69 in (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)
Weight	19.4 lb (with stand)
Display features	Height adjustable; Pivot; Tilt
Onscreen controls	Picture, Input, Audio, Power, System (professional); Gaming, Picture, Lighting, Input, Audio, Power, System (gaming)
Display colors	Up to 1.07 billion colors supported
Display scan frequency (horizontal)	30-230 kHz ^[1]
Display scan frequency (vertical)	24-240 Hz ^[1]
Power	100 - 240 VAC 50/60 Hz
Power consumption	480 W (maximum), 126 W (typical), 0.5 W (standby)
Operating temperature range	5 to 35°C
Operating humidity range	15 to 80% RH

Sustainable impact 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

Certifications and compliances

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

Management Software

OMEN Gaming Hub; HP Display Manager^[11]

UPC number

(A2K) 197961927849; (A2N) 197961927856; (AB0) 197961927863; (AB1) 197961927870; (AB2) 197961927887; (AB4) 197961927894; (ABA) 197961927900; (ABB) 197961927917; (ABG) 197961927924; (ABJ) 4582712427970; (ABT) 197961927931; (ABU) 197961927948; (ABV) 197961927955; (ACJ) 197961927962; (ACQ) 197961927979; (AKL) 197961927986; (AR6) 197961927993; (UUF) 197961928006; (UUG) 197961928013; (UUZ) 197961928020

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]

Additional specifications

Audio	DTS Virtual:X™; Audio by HyperX
Audio port	1 x 3.5 mm Audio Jack (Audio Out)
Backlight lamp life minimum (to half brightness)	30,000 hours
Base area footprint (imperial)	8.86 x 9.25 in
Base area footprint (metric)	22.5 x 23.5 cm
Bezel	3-sided micro-edge
Color calibration features	Factory color calibration
Color gamut	100% sRGB; 100% BT.709; 80% BT.2020; 99% Display P3; 97.5% Adobe RGB
Curvature	Flat
Datasheet photo 1	AHID/c137e6f2a0fb8cfafad23afc3f190d2367c55afc
Datasheet photo 2	AHID/95f0167605c7c55dd82d4c56507068fc6b420261
Datasheet photo 3	AHID/4a1623cb730c7a093b25214273a76e47a4cbbb22
Datasheet photo 4	AHID/9897cfc1e0c7f45f2b36e3df88925e1615391d83
Detachable stand	Yes
Display area (imperial)	27.54 x 15.54 in
Display area (metric)	69.95 x 39.47 cm
Display contrast ratio (dynamic)	1,500,000:1
DisplayPort™	1 DisplayPort™ 2.1
Ecolabels	EPEAT® registered with Climate+
Energy star certified	ENERGY STAR® certified
Flicker-free	Yes (TÜV certified)

HDCP	Yes, DisplayPort™, HDMI and USB Type-C®
HDMI	2 HDMI 2.1
HDR	VESA DisplayHDR™ 400 True black
Hardness	2H ^[1]
Height adjustment range	100 mm
Horizontal viewing angle	178°
Low blue light	Yes, HP Eye Ease (Eyesafe® Certified)
Non-Operating Humidity Range	5 – 95 %
Operating temperature range	41 to 95°F
Package dimensions (W x D x H)	84.3 x 19 x 50.1 cm
Package dimensions (W x D x H)	33.19 x 7.48 x 19.72 in
Package weight	35.1 lb (with stand)
Package weight	15.9 kg (with stand)
Panel bit depth	True 10 bit ^[1]
Pixels per inch (ppi)	140 ppi ^[1]
Power supply type	External
Product brand name	HP
Product color	Black bezel; White rear cover
Product dimensions with stand (W x D x H)	28.31 x 9.57 x 24.43 in
Productivity features included	KVM switch; OMEN Gear Switch; Picture-by-Picture; Picture-in-Picture

Refresh rate (maximum)	240 Hz
Resolution (maximum)	4K UHD (3840 x 2160 @ 240 Hz)
Screen treatment	Anti-reflective
Speaker output power	4 x 3 W
Special features	OMEN Gear Switch; AMD FreeSync™ Premium Pro; NVIDIA G-SYNC™; OMEN Tempest Cooling Technology; VESA ClearMR 13000 certified; Windows Dynamic Lighting
Stand color	Black
Stand type	Base stand; With stand; Height adjustable stand
Technology logo 1	https://prism-pui-int.inc.hp.com/PRO.Crystal.1/DAMHandler/Accessories/VESA_DisplayHDR_400_True_Black-removebg-preview.png
Technology logo 2	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08610275.png
Technology logo 3	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08610272.png
Technology logo 4	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08717783.png
Technology logo 5	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03123379.png
Technology logo 6	https://prism-pui-int.inc.hp.com/PRO.Crystal.1/DAMHandler/Accessories/Nvidia__G-SYNC-removebg-preview.png
Tilt	-5 to +20°
UNSPSC code	43211902
USB Type-A	3 USB Type-A 10Gbps signaling rate (3 charging with 7.5 W)
USB Type-C® data	2 USB Type-C® 10Gbps signaling rate (15 W charging)
USB Type-C® video input	1 USB Type-C® 10Gbps signaling rate (Up to 140W USB Power Delivery, Alt Mode DisplayPort™ 1.4)
VESA mounting	100 x 100 mm (bracket included)
Vertical viewing angle	178°
Video connectors	HDMI; DisplayPort™-in; USB Type-C®
Viewable diagonal size	31.5" (80.32 cm)
pivot	±90°

[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 x 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.

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

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