

OMEN 27 inch QHD 165Hz Gaming Monitor - OMEN 27qz (AK2B3AA)



Develop and test from the player's perspective

Experience your game designs as gamers will. This 27-inch 165 Hz QHD resolution monitor delivers fast gaming performance and vibrant visuals so you can see what gamers see from similar monitors. Easily test on both PC and console with tested compatibility and plenty of ports for connectivity.



Vibrant, realistic visuals

Test for an IRL experience with crisp visuals of QHD resolution^[1] and a wide array of vibrant colors, hues, and shades with 99% sRGB and 95% DCI-P3 color gamut.^[2] Make out details and shading with HDR and up to 400 nits of brightness.^[2]

Fast, lag-free performance

Frame by frame, experience and test without latency. To keep things smooth, this display delivers a fast 165 Hz refresh rate and 1ms response time to cut motion blur.^[2] Eliminate screen tearing and lag thanks to AMD FreeSync™ technology.^[3]

Tested for compatibility

This gaming monitor is compatible with Z by HP workstations. It also endured over 140 tests^[4] to ensure compatibility with consoles, which easily connect thanks to 2 HDMI ports and a display port, making switching between PC and console a breeze.^[5]

Featuring

QHD Resolution

See your games in the captivating definition and sharp details of 3.7 million pixels. 2560 x 1440 Quad HD resolution transforms your content for a remarkable entertainment experience on this 27" diagonal monitor. ^[1]

165 Hz Refresh Rate

For crisp action and responsive game development, this fast refresh rate practically removes all artifacting and motion blurring. ^[2]

HDR

Create new worlds in stunning contrast with HDR. With peak brightness of 400 nits, experience your games as gamers will with brighter whites, deeper blacks, and richer colors. ^[2]

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 your players will get lost in your gameplay. ^[2]

1ms GTG Response Time with Overdrive

How fast your pixels can react to changing frames is critical for fast-paced gaming, and a 1ms GTG response time with Overdrive ensures even the most action-packed moments are fluid, crisp, and free of motion blur. ^[2]

Specifications

Display size (diagonal)	27"
Panel technology	IPS; LCD
Display size (diagonal)	68.6 cm (27")
Aspect ratio	16:9 ^[1]
Native resolution	QHD (2560 x 1440) ^[1,2]
Resolutions supported	640 x 480 @ 60 Hz; 640 x 480 @ 75 Hz; 720 x 400 @ 70 Hz; 800 x 600 @ 60 Hz; 800 x 600 @ 75 Hz; 1024 x 768 @ 60 Hz; 1280 x 720 @ 60 Hz; 1280 x 1024 @ 60 Hz; 1440 x 900 @ 60 Hz; 1600 x 900 @ 60 Hz; 1680 x 1050 @ 60 Hz; 1920 x 1080 @ 60 Hz; 1920 x 1200 @ 60 Hz; 2560 x 1440 @ 60 Hz; 2560 x 1440 @ 75 Hz; 2560 x 1440 @ 120 Hz; 1280 x 1024 @ 75 Hz; 1024 x 768 @ 75 Hz; 1280 x 800 @ 60 Hz; 2560 x 1440 @ 144 Hz; 2560 x 1440 @ 165 Hz (DisplayPort only)
Pixel pitch	0.23 x 0.23 mm
Brightness	400 nits ^[1]
Contrast ratio	1000:1 ^[1]
Response time (typical)	1 ms GtG (with overdrive)
Dimensions (W x D x H)	61.36 x 5.22 x 36.43 cm (without stand)
Dimensions (W x D x H)	24.16 x 2.06 x 14.34 in (without stand)
Dimensions With Stand (W x D x H)	61.36 x 22.33 x 52.37 cm
Weight	7.41 kg (with stand); 5.37 kg (without stand)
Weight	16.34 lb (with stand); 11.84 lb (without stand)
Display features	On-screen controls; Pivot rotation; AMD FreeSync™; Anti-glare; Gaming Console Compatible; HP Eye Ease; HDR; Height adjustable; VESA ClearMR 6000 certified
Onscreen controls	Color; Image; Input; Power; Menu; Management; Information; Exit; Gaming
Display colors	Up to 16.7 million colors supported
Display scan frequency (horizontal)	30-255 kHz (DisplayPort™); 30-250 kHz (HDMI)
Display scan frequency (vertical)	60-165 Hz (DisplayPort™); 55-144 Hz (HDMI)
Camera	No integrated camera
Power	100 - 240 VAC 50/60 Hz
Power consumption	67 W (maximum), 40 W (typical), 0.5 W (standby)
Operating temperature range	5 to 35°C
Operating humidity range	20 to 80% RH
Sustainable impact specifications	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
Certifications and compliances	CB; CE; cTUVus; EAC; FCC; ISO 9241-307; NOM; TUV Bauart; TUV LBL; Ukraine certificates; Eyesafe® Certified; TÜV Flicker free certified; UAE safety; UAE RoHS; South Africa safety; Ukraine safety; UL; Canada ICES ^[9]
Physical security	None
Management Software	HP Display Center; OMEN Gaming Hub
UPC number	(A2N) 198828321695; (ABA) 198701249306; (ABB) 198701249313; (ABT) 198828321701; (ABU) 198701249320; (ABV) 198828321718; (ABY) 198701249337; (ACQ) 198828321725; (AH3) 198828321732; (UUZ) 198701249344
Manufacturer Warranty	HP three-year limited warranty
What's in the box	Monitor; DisplayPort™ cable; Warranty card; Quick Setup Poster; AC power cord ^[7]

Top Recommended Displays, Accessories and Services

No Top Recommended Displays, Accessories and Services

Messaging Footnotes

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

[2] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary, either higher or lower.

[3] AMD FreeSync technology provides a tear-free, flicker-free gaming experience and smooth video playback when paired with AMD Radeon graphics, and works over HDMI® and DisplayPort™ effortlessly. <https://www.amd.com/en/products/graphics/technologies/freesync.html>

[4] HP Total Test Process testing is not a guarantee of future performance under these test conditions. Damage under the HP Total Test Process test conditions or any accidental damage requires an optional HP Accidental Damage Protection Care Pack.

[5] AC power cord and DisplayPort™ cable included. All others sold separately.

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.

[7] Included cables may vary by country.

[9] Monitors produced from June 2024 comply with China regulation GB 21520-2023.

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