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

Overview

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]

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]

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]

Designed with the planet in mind

At HP, we care about the impact our products have on our people, communities, and planet. This display contains at least 85% post-consumer recycled plastics[6] and was engineered to contain at least 10% recycled metals[7] to help reduce the raw materials we use.

Features

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]

AMD FreeSync™ Technology

Every gamer deserves perfectly smooth gameplay and peak performance. Game confidently with a high refresh rate, low framerate compensation, and low latency. AMD FreeSync™ certified monitors are here. [3]

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[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.

[6] Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 EPEAT® 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.

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)	1ms 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℃
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]

Additional specifications

Audio port	1 x 3.5 mm Audio Jack (Audio Out)
Backlight lamp life	30,000 hours
Backlight type	Edge-lit
Base area footprint (imperial)	8.46 x 8.26 in
Base area footprint (metric)	21.49 x 20.99 cm
Bezel	3-sided borderless
Color gamut	99% sRGB; 95% Display P3
Country of origin	Made in China
Curvature	Flat
Datasheet photo 1	AHID/3eea53b0fa1c8df1c57920728fb4d22e607bd916
Datasheet photo 2	AHID/4ec18e000adf1b40a9d445cbc52b00462f2f7723
Datasheet photo 3	AHID/ec9718794f0c7e490197c53feaaecff10aeea54c
Datasheet photo 4	AHID/8e35cfc44a4db2b12e04202720ec1fbb9134a2dc
Detachable stand	Yes
Display area (imperial)	23.49 x 13.22 in
Display area (metric)	59.67 x 33.57 cm
Display contrast ratio (dynamic)	9,800,000:1
DisplayPort™	1 DisplayPort™ 1.4
Flicker-free	Yes (TÜV certified)
HDCP	Yes, DisplayPort™ and HDMI
HDMI	2 HDMI 2.0
HDR	HP HDR
Hardness	3H[1]
Haze	25%
Height adjustment range	100 mm
Horizontal viewing angle	178°
Low blue light	Yes, HP Eye Ease (TÜV Low Blue Light Hardware Solution certified)
Non-Operating Humidity Range	5-95%
Non-operating temperature - Celsius	-40 to 65℃
Non-operating temperature - fahrenheit	-40 to 149°F
Operating altitude	Up to 16,400 ft
Operating altitude	Up to 5,000 m

Operating temperature range	41 to 95°F
Package dimensions (W x D x H)	69.9 x 16 x 44.6 cm
Package dimensions (W x D x H)	27.52 x 6.3 x 17.56 in
Package weight	22.94 lb
Package weight	10.41 kg
Pallet (layers)	4
Pallet dimensions	44.49 x 27.91 x 75.83 in
Pallet dimensions (W x D x H)	113 x 70.9 x 192.6 cm
Pallet weight	664.65 lb
Pallet weight	301.48 kg
Panel bit depth	True 8 bit
Pixels per inch (ppi)	109 ppi
Power supply type	Internal
Product color	Black
Product dimensions with stand (W x D x H)	24.16 x 8.79 x 20.62 in
Products per pallet	28
Products per pallet layer	7
Refresh rate (maximum)	165 Hz
Resolution (maximum)	QHD (2560 x 1440 @ 165 Hz)
Screen treatment	Anti-glare
Stand color	Black
Stand type	With stand
Storage altitude	Up to 12,192 m
Storage altitude	Up to 40,000 ft
Tilt	-5 to +20°
UNSPSC code	43211902
VESA mounting	100 x 100 mm (bracket included)
Vertical viewing angle	178°
Viewable diagonal size	26.96" (68.47 cm)
pivot	±90°

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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