

OMEN 27 inch QHD 165Hz Gaming Monitor - OMEN 27qz

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.



*Product image may differ from actual product



Vibrant, realistic visuals

Test for an IRL experience with crisp visuals of QHD resolution¹ 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 tests⁴ 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

Sustainability in action

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 plastics⁶ and was engineered to contain at least 10% recycled metals⁷ to help reduce the raw materials we use.



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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

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

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 display's full potential.³

Plenty of ports

Test easily by connecting to your gaming and work PCs, console, and headset with two HDMI 2.0 ports, one DisplayPort™ 1.4, and one 3.5mm headphone jack.⁵

IPS Technology

No matter where you stand, IPS panel technology delivers clear, vivid images. IPS technology ensures image accuracy and consistency across ultrawide 178-degree viewing angles, so you can get lost in your gameplay and testing environment from any angle.

VESA Certified ClearMR 6000

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 displays.⁹

Console Compatible

This gaming monitor underwent over 140 test cases to ensure it's compatible with your choice of console. Just connect the HDMI and get right to development and testing.

Fully adjustable stand

Make your desk just how you like it with the fully adjustable stand. Find comfort while you develop, test and game with tilt, pivot, and 100 mm height adjustments.

HP Eye Ease

Always-on, True Color, Low-Blue Light Filter. HP Eye Ease is an always-on, low-blue light filter that helps keep your eyes comfortable throughout the day by reducing blue light without impacting color accuracy or adding a yellow color shift.

Materials that Matter

Feel like you're making a difference in and out of your work with a purchase you feel good about. This display contains at least 85% post-consumer recycled plastics to help reduce the raw materials we use.⁶

Thoughtful Product Packaging

To reduce plastic in landfills, we use 100% recyclable packaging that meets recycling requirements, so it can stay out of the landfill when customers are finished with it.^{10,11}

Mindful metals

That's why this monitor was engineered to contain at least 10% recycled metals.⁷

Effortless Joypad OSD Button

In the middle of game development and testing, it's never been easier to configure your display settings right from the monitor. Quickly navigate the on-screen menu with the joypad OSD button to adjust brightness, contrast ratio, and color.

Integrated Cable Management

Cord and wire pass-through located on the display stand reduces cord-clutter and helps keep your workspace clean and organized.



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Specifications

Display specifications

Display size
27"
Display size (diagonal, metric)
68.6 cm (27")
Viewable diagonal size
26.96" (68.47 cm)
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 @ 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)
Panel type
IPS; LCD
Bezel
3-sided borderless
Panel active area
59.67 x 33.57 cm
Panel bit depth
True 8 bit
Display colors
Up to 16.7 million colors supported
Display color gamut
99% sRGB; 95% Display P3
HDR Support
HP HDR
Refresh rate (maximum)
165 Hz
Display scan frequency
60-165 Hz (DisplayPort™); 55-144 Hz (HDMI) (Vertical) 30-255 kHz (DisplayPort™); 30-250 kHz (HDMI) (Horizontal)
Response time
1ms GtG (with overdrive)
Brightness
400 nits ¹
Contrast ratio
1000:1 (Static) ¹ 9,800,000:1 (Dynamic) ¹
Pixel pitch
0.23 x 0.23 mm
Pixels per inch (ppi)
109 ppi
Viewing angle
178° (Vertical) 178° (Horizontal)
Backlight type
Edge-lit
Backlight lamp life
30,000 hours
Display features
On-screen controls; Pivot rotation; AMD FreeSync™; Anti-glare; Gaming Console Compatible; HP Eye Ease; HDR; Height adjustable; VESA ClearMR 6000 certified
Display User Control Options
Color; Image; Input; Power; Menu; Management; Information; Exit; Gaming
Management software
HP Display Center; OMEN Gaming Hub ⁸
Low blue light modes
Yes, HP Eye Ease (TÜV Low Blue Light Hardware Solution certified)
Flicker-free
Yes (TÜV certified)
Screen treatment
Anti-glare
Hardness
3H ¹
Haze
25%
VESA mount
100 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)
26 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
21.49 x 20.99 cm
Dimensions without Stand (W x D x H)
61.36 x 5.22 x 36.43 cm (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)
Packaged Dimensions (W x D x H)
69.9 x 16 x 44.6 cm
Packaged weight
10.41 kg
Pallet Dimensions (L x W x H)
113 x 70.9 x 192.6 cm
Pallet weight
301.48 kg
Pallet (layers)
4
Products per layer
7
Products per pallet
28

Certification and compliance

Energy efficiency
F
Environmental 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 ^{3,4,5,6}
Certifications
CB; CE; cTUVus; EAC; FCC; ISO 9241-307; NOM; TÜV Bauart; TÜV LBL; Ukraine certificates; Eyesafe® Certified; TÜV Flicker free certified; UAE safety; UAE RoHS; South Africa safety; Ukraine safety; UL; Canada ICES ⁹
Microsoft WHQL certification
Windows 11; Windows 10
Operating temperature range
41 to 95°F
Non-operating temperature range
-40 to 65°C -40 to 149°F
Operating altitude
Up to 5,000 m
Non-operating altitude
Up to 12,192 m
Operating humidity range
20 to 80% RH
Non-operating humidity range
5-95%

Additional information

Part Number
P/N: AK2B3E9
UPC code: 198701249382
Manufacturer Warranty
HP five-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 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 16801-2018 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.

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 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.

¹⁰ HP paper and fiber based packaging for PCs, displays, home and office print, and supplies is reported by suppliers as recycled or certified, with a minimum of 97% by volume verified by HP. Packaging is the box that comes with the product and all paper-based materials inside the box. Packaging for commercial, personal systems accessories, and spare parts is not included.

¹¹ Recycling facilities not available in all locations.

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 16801-2018 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.

