

OMEN 27u 4K Gaming Monitor

Incredible for Consoles. Incredible for PCs. BOOM!

Console or PC gaming? How about both. The console game has changed. More power. More graphics. More beauty. See your games at their best with the gorgeous color and immaculate speed of a 4K¹ performance gaming monitor that can now be played on the latest gen consoles via HDMI 2.1. Want to change to PC gaming? No problem. Customize every aspect of your game with OMEN Gaming Hub and elevate your whole experience, on console and PC.



*Product image may differ from actual product



All Systems Go.

Unlock your consoles' true potential with the new OMEN 27u 4K Gaming Monitor. HDMI 2.1 enables a new gaming experience with crisp 4K UHD resolution, 2x super speed at 120Hz², and variable refresh rate technology to match the frames. Compatible with the latest gen consoles like PS5, and Xbox Series.



How Fast Can You Run a 4K?

Is your PC jealous? Just switch to your Display Port™ 1.4 connection. This fully loaded 68.58 cm (27") 4K UHD gaming monitor has stunning visuals and is super fast. No lag. No blur. Just clean, crisp, and refreshing 144 Hz speed³ brought on by the latest graphic card technology⁴. Oh and it packs AMD FreeSync Premium⁵ Pro⁴, so no frame gets left behind.



It's Okay to Stare at Your Game

See your game as developers intended. Every hue and shade come to life with factory color-calibrated accuracy and HDR⁶. A 95% DCI-P3 color gamut ensures you get the true-to-life gaming experience. Ultra realistic never looked better.

Sustainability in action

Build for a better tomorrow

Innovating with purpose and intention to drive impactful, positive, lasting change.



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Featuring



HDMI 2.1
Simply plug in your HDMI 2.1 and unlock 4K UHD, 120Hz refresh rate and adaptive sync on next gen consoles.

Ultra High Definition 4K
Experience cinematic quality with the incredible definition of 4K. Visuals this impressive are simply unforgettable.¹

AMD FreeSync™ Premium Pro Technology
AMD FreeSync™ Premium Pro technology means low latency, wide adaptive refresh rate ranges, low framerate compensation and brilliant pixel quality in gaming.⁷

VESA Certified DisplayHDR 400
Brighten your screen with a VESA Certified HDR 400 panel. Stream HDR games and movies with enhanced contrast on your HDR display, creating a vivid, lifelike visual experience.⁸

144Hz refresh rate
Get smooth gaming, sharper objects, and cleaner details with a gaming display that refreshes frames 144 times a second – over twice the refresh rate of standard displays.⁶

1-millisecond response time with Overdrive
Eliminates motion blur for crisp, fluid gameplay no matter what’s happening on-screen.⁶

Integrated speakers
No need to buy external speakers for great audio. With integrated speakers this display is ready to go once you’re connected.

Eyesafe® Certified Display
Eyesafe® certified displays meet TÜV low blue light requirements and Eyesafe® standards for protecting your eyes from harmful blue light without distorting colors to reduce eyestrain when working for long periods of time.

aRGB Lighting
With an aRGB spectrum of 16.8 million colors you can choose animations and customize lighting across your OMEN devices.

OMEN Light Studio
Customize your aRGB lighting with custom animations, color themes and integrate into your entire ecosystem with OMEN Light Studio.

OMEN Gaming Hub
OMEN Gaming Hub is your one place for everything to make your gaming experience better. From software enhancements to hardware control, and live services, OGH elevates play in easy and simple way.

Shadow Vision
Brightens scenes without overexposing, so you can see better in dark environments.

Edge Precision
Smooths and corrects sharp images for a more accurate and realistic appearance.

Factory Color Calibration
Choose from 3 color space presets on the calibrated 4K OLED display to enjoy true color accuracy when shopping online, editing photos or watching videos.^{1,9}

Moving Picture Response Time
Greatly reduces motion blur for a more fluid visual experience.

DCI-P3 color space
Get deeper hues and more accurate colors with a wider color gamut than sRGB. DCI-P3 95% closely represents colors on displays as they are in the real world.⁶

Adjust your view
Adjust your screen for comfortable viewing with tilt capability.

Sustainably Sourced Packaging
HP is innovating new ways to reduce the amount of materials in our packaging and to use more recycled materials in the design.^{10,11}

Joystick
Navigating through the on-screen menu is easier than ever before with a built-in joystick.

VESA Mount
Mount to an arm or the wall with standard 100mm x 100mm VESA mounting.



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Specifications

Display specifications

Display size
68.58 cm (27")¹
Display size (diagonal, metric)
68.6 cm (27")
Aspect ratio
16:9
Curvature
Flat
Native resolution
4K UHD (3840 x 2160)¹
Resolution (maximum)
4K UHD (3840 x 2160 @ 144 Hz)
Resolutions supported
640 x 480; 720 x 400; 800 x 600; 1024 x 768; 1280 x 720; 1280 x 800; 1280 x 1024; 1440 x 900;
1600 x 900; 1600 x 1200; 1680 x 1050; 1920 x 1080; 1920 x 1200; 2560 x 1440; 2560 x 1600;
3840 x 2160; 720 x 480
Panel type
IPS¹
Bezel
4-sided borderless
Panel active area
59.67 x 33.56 cm
Panel bit depth
8 bit
Display color gamut
99% sRGB; 95% DCI-P3
Display scan frequency
48-144 Hz (Vertical) 30-135 KHz (Horizontal)
Response time
1ms GtG (with overdrive)¹
Brightness
450 nits¹
Contrast ratio
1000:1 (Static) 12000000:1 (Dynamic)
Pixel pitch
0.15 x 0.15 mm
Pixels per inch (ppi)
163 ppi
Viewing angle
178° (Vertical) 178° (Horizontal)
Backlight type
Edge-lit
Display features
On-screen controls; Anti-glare; Height adjustable; VESA DisplayHDR 400 certified; AMD
Freesync™ Premium Pro; Integrated speakers
Display User Control Options
Exit; Management; Power control; Input control; Menu control; Gaming; Image; Color; External
Lighting
Management software
OMEN Gaming Hub
Low blue light modes
Yes, Eyesafe® Certified
Flicker-free
Yes (TÜV certified)
Screen treatment
Anti-glare
Hardness
3H
VESA mount
100 mm x 100 mm
Height adjustment range
130 mm
Tilt
-5 to +20°
Swivel
No swivel
Pivot
No pivot
Camera
No integrated camera
Microphone
No
Speaker output power
2 x 2 W

Connectivity and communications

Port and connectors
1 HDMI 2.0; 1 HDMI 2.1
1 DisplayPort™ 1.4
1 x 3.5 mm Audio Jack (Audio Out)
1 USB Type-C® hub enablement
2 SuperSpeed USB Type-A 10Gbps signaling rate
HDCP
Yes, DisplayPort™ and HDMI
Power supply
100 - 240 VAC 50/60 Hz
(External)
Power consumption
135 W (maximum), 78 W (typical), 0.5 W (standby) 0.5 W (standby)
Standby mode power demand
0.5 W (standby)

Logistics and Physical

Product color
Jack black bezel, jack black stand and base
Detachable stand
Yes
Physical security
Security lock-ready²
Dimensions without Stand (W x D x H)
60.99 x 6.69 x 35.35 cm
Dimensions with stand (W x D x H)
60.99 x 26.05 x 51.38 cm
Weight
7.82 kg (l)
Packaged Dimensions (W x D x H)
72 x 22.5 x 44.6 cm
Packaged weight
13.2 kg

Certification and compliance

Energy efficiency
F
Environmental specifications
Low Halogen; Outside box and corrugated cushions are 100% sustainably sourced and recyclable^{4,5}
Certifications
BIS; BSMI; CB; CCC; CE; cTUVus; EAC; EUP Lot-5; EUP Lot-6; FCC; ICES; ISO 9241-307; KC/KCC;
Korea MEPS (E-standby); NOM; PSB; TUV Bauart; VCCI; WEEE; ISC; Low blue light; South
Africa MEPS; California Energy Commission (CEC); Mexico MEPS; UAE; Ukraine certificates;
NRCS of South Africa; PSE EAC; Eyesafe® Certified; TÜV Flicker free certified
Certified collaboration software
No
Windows Hello compatible
No
Operating temperature range
41 to 95°F
Operating humidity range
20 to 80% non-condensing

Additional information

Part Number
P/N: 3G6W0AA#ABB; #A2N; #ABT; #ABU; #ABV; #ABY; #ACO; #UUG; #UUZ
UPC code: (A2N) 195908399261; (ABA) 195908399285; (ABB) 195908399292; (ABT)
195908399315; (ABU) 195908399322; (ABV) 195908399346; (ABY) 195908399360; (ACO)
195908399377; (UUG) 195908399384; (UUZ) 195908399391
Manufacturer Warranty
1 year limited warranty
What's in the box
DisplayPort™ cable; Documentation; Power adapter; 1 USB Type-C® to Type-A cable; AC
power cord³



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Footnotes

Messaging Footnotes

¹ 4K content required to view full 4K images.

² 2x speed compared to prior gen console PS4 and Xbox1 refresh rate of 60Hz. PS5 and Xbox Series X required for 120Hz.

³ All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. 144Hz refresh rate achieved when using PC DisplayPort™ 1.4.

⁴ To enable 4K resolution at 144 Hz with DSC, an NVIDIA® GeForce® RTX 20 series, AMD Radeon™ RX 5700 or higher graphics card is required. For additional information about enabling DSC, contact your graphics card manufacturer.

⁵ FreeSync™ Premium Pro is only available when it is connected on Display Port™ or HDMI with HDR capabilities and game support. FreeSync is an AMD® technology enabled on FHD, QHD and HDR displays and is designed to eliminate stuttering and/or tearing in games and videos by locking a display's refresh rate to the frame rate of the graphics card. HDR does not require HDR monitors; driver can be set in native mode when FreeSync Premium Pro supported content is detected. Otherwise, HDR content requires that the system be configured with a fully HDR-ready content chain. Mandatory low framerate compensation and at least 120Hz refresh rate, AMD Radeon Graphics and/or AMD A-Series APU-compliant monitors with DisplayPort™/HDMI Adaptive-Sync required. AMD 15.11 Crimson driver (or newer) required to support FreeSync over HDMI. Adaptive refresh rates vary by monitor. More information is available at www.amd.com/freesync.

⁶ All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

⁷ FreeSync Premium Pro does not require HDR capable monitors; driver can set monitor in native mode when FreeSync Premium Pro supported HDR content is detected. Otherwise, HDR content requires that the system be configured with a fully HDR-ready content chain, including: graphics card, graphics driver and application. Video content must be graded in HDR and viewed with an HDR-ready player. Windowed mode content requires operating system support. GD-162.

⁸ 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.

⁹ Graphics output may be limited based on the maximum resolution of the display.

¹⁰ 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.

¹¹ Fiber cushions made from 100% recycled wood fiber and organic material.

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 Lock sold separately.

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.

⁵ 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.

