

OMEN MAX 16 inch Gaming Laptop

PC 16-ah0033dx



Built to break limits

Throttle less and carry more with the latest Intel® Core™ Ultra processor, next-gen NVIDIA® graphics, and a thermal architecture that can actually keep up with your gameplay.

Product overview

- **Performance you control:** Push your new Intel® Core™ Ultra processor and next-gen NVIDIA® RTX™ graphics farther and longer than ever before with our new Unleashed Mode, which allows you to manually overclock your device. We also have OMEN AI that provides personalized settings improvements so you can maximize your FPS without all the hassle.
- **Put your throttling on ice:** Introducing OMEN Tempest Cooling Pro, a thermal architecture that actually keeps up with your laptop's power potential. A vapor chamber and liquid metal coating on both the CPU and GPU help maintain maximum performance, while our new OMEN Fan Cleaner keeps your internals dust-free without any maintenance on your part.
- **Instant Pair with HyperX:** Free up your ports. Seamlessly connect up to three different compatible HyperX products without the need of a dongle.
- **Light the way you play:** With an RGB per-key lattice-less keyboard and our first ever RGB light bar, this is the most customizable OMEN laptop yet. Whether you want to match your lighting to your key bindings or just want to create a cool vibe, you can personalize it all in Light Studio through OMEN Gaming Hub.

Key specifications

- **Operating system:** Windows 11 Home⁽¹⁾
- **Processor:** Intel® Core™ Ultra 9 275HX^(2b)
- **NPU:** Intel® AI Boost (13 NPU TOPS)^(6d)
- **Display:** 16-inch diagonal, WQXGA (2560 x 1600), 60-240 Hz, 3 ms response time, IPS, micro-edge, anti-glare, Low Blue Light
- **Memory:** 32 GB DDR5-5600 MT/s (2 x 16 GB)
- **Internal storage:** 1 TB PCIe® Gen4 NVMe™ M.2 SSD⁽¹⁵⁾
- **Graphics:** NVIDIA® GeForce RTX™ 5080 Laptop GPU⁽¹³⁾
- **Sound:** HyperX with dual speakers
- **Battery life:**
 - Up to 5 hours and 15 minutes (mixed usage)^(85a)
 - Up to 9 hours and 15 minutes (video playback)⁽⁷⁵⁾
 - Up to 5 hours and 15 minutes (wireless streaming)⁽⁸⁰⁾
- **Wireless:** Wi-Fi 7 (2x2)^(19d) and Bluetooth® 5.4 wireless card^{(25a)(26)}
- **Security:** Camera privacy shutter
- **Camera:** HP True Vision 1080p FHD IR camera with temporal noise reduction and integrated dual array digital microphones⁽⁸⁹⁾⁽⁹⁹⁾
- **Product weight:** 6.1 lb⁽⁷⁶⁾
- **Keyboard:** Full-size, per key RGB backlit, shadow black keyboard with numeric keypad and NKRO Anti-Ghosting Key technology

Product features

- **Get a fresh perspective with Windows 11:** From a rejuvenated Start menu, to new ways to connect to your favorite people, news, games, and content—Windows 11 is the place to think, express, and create in a natural way.⁽¹⁾
- **Microsoft Copilot:** Kickstart your creativity and productivity with Microsoft Copilot. Complements your capabilities and creativity with intelligent assistance and relevant answers. And now with the Copilot key, you can access this AI-powered intelligent assistant with a single press of a button.⁽⁴¹⁾
- **Desktop-level performance, anywhere:** Level up your PC with advanced performance, enhanced AI, and a CPU designed to defy expectations.
- **NVIDIA® G-SYNC™:** This technology synchronizes GPU and display refresh rates for sharp, stutter-free gameplay.
- **Game changer:** Powered by NVIDIA® Blackwell, GeForce RTX™ 5080 Laptop GPU brings game-changing AI capabilities to gamers and creators.
- **WQXGA resolution display:** Wide Quad Extended Graphics Array is a display resolution of 2560x1600 pixels with a 16:10 aspect ratio.⁽⁶⁰⁾

Additional product features

- **100% sRGB:** Showcase your creations in all their colors on the 100% sRGB display for maximum color broadness and accuracy.
- **Eyesafe® Certified display:** Protects your eyes from harmful blue light without distorting colors to reduce eyestrain when working for long periods of time.
- **HP Fast Charge:** Go from 0 to 50% charge in approximately 30 minutes.⁽⁷²⁾
- **Wi-Fi 7 and Bluetooth® 5.4 wireless card:** Stay connected on the go at warp speed. Quantum leap in wireless performance - all-new levels of increased speed and reduced latency with Wi-Fi 7. ^{(19d)(25a)(26)}
- **HP True Vision FHD IR camera:** Video chat in vibrant clarity with Full HD resolution, even in low light, with the added security of Windows Hello for a safer login experience.⁽⁸⁹⁾
- **PCIe® Gen4 NVMe™ M.2 SSD:** With high-speed data transfer, the PCIe® Gen4 NVMe™ M.2 SSD offers fast speed and efficient storage.
- **Audio tuned by HyperX:** Immerse yourself in the sweet sounds of audio mixed and tuned by HyperX.
- **HP Audio Boost:** Smart Amp technology reaches the full performance while preserving sound quality.
- **Try PC Game Pass for free:** Play hundreds of high-quality PC games on your new HP device with 3 free months of PC Game Pass - including EA play. With new games being added all the time, there's always something new to play.⁽⁶⁰⁾

Product design

- **New OMEN Cryo Compound:** Our upgraded hybrid material, which is applied to both the CPU and GPU, includes all the heat dissipation benefits of traditional liquid metal with increased viscosity for improved device longevity.
- **Camera shutter:** Ensure your privacy with a visible shutter that turns off your PC's camera.
- **88.8% screen to body ratio:** Revolutionize your display and see more of what you love with this slim bezel design. Enjoy an immersive multimedia experience with a maximized viewing area.
- **Per-key RGB keyboard:** RGB per-key LED backlighting customization and N-key rollover anti-ghosting technology to never miss a key.

Created with the planet in mind

HP is dedicated to driving progress toward a more sustainable future and making responsible choices for the environment and our customers. We are innovating new ways to reduce the amount of materials in our products and packaging—and to use more recycled materials in their design. Together we can make a difference.

- Built with the environment in mind, this laptop is designed using sustainable materials like:
 - Ocean-bound plastic in bezel^(63d)
 - Top cover and base contain recycled metal^(63d)
- HP's outer boxes and fiber cushions used in packaging are 100% sustainably sourced and recyclable^(63e)

Warranty and support

Our Customer Support Team consistently provides quick, responsive assistance in the U.S., Canada and Latin America.

Included with your product:

- **HP's Hardware Limited Warranty:** Full warranty details are included with your product.
- **Technical Support for Software & Initial set-up:** Warranty details are included with your product.

Support Options:

- **HP Support Assistant - HPSA:** Optimized to enhance your support experience. Help for your PC and HP printers whenever you need it.⁽⁵⁶⁾
- **Online Support:** For technical support with this product, visit HP Customer Support <http://support.hp.com>.⁽⁹⁾
- **Social Media Support:** To find solutions, ask questions, and share tips, join us on the HP Support Community at community.hp.com, on Twitter at twitter.com/HPSupport, and Facebook at facebook.com/HPSupport.⁽⁹⁾



Specifications

Battery life	<ul style="list-style-type: none"> • Up to 5 hours and 15 minutes (mixed usage)^{(B)(5d)} • Up to 9 hours and 15 minutes (video playback)⁽⁷⁾⁽⁵⁾ • Up to 5 hours and 15 minutes (wireless streaming)^{(B)(d)}
Warranty and support	<ul style="list-style-type: none"> • 1-year limited hardware warranty. Additional information available at www.support.hp.com^(B) • 1-year limited technical support for software and initial setup (from date of purchase)⁽⁵⁾⁽³⁾

Help and support

- **HP Support Assistant:** Included with your computer, this free self-help tool makes it easier than ever to get help with your HP PC and printers.^[56]
- **myHP:** Customize, optimize, and secure your device with tips and tricks and easy-to-access settings, and receive helpful messages and information to keep things running smoothly.

System performance

- **HP Connection Optimizer:** Get consistent and reliable Wi-Fi performance with software that automatically switches between the most efficient wireless access points.⁽⁹⁾

- Microsoft Copilot:** Microsoft Copilot gives you intelligent answers. Access with just the touch of the Copilot key.¹⁰¹
- OMEN AI:** Provides personalized settings recommendations to achieve the best possible FPS with minimum hassle.
- DTS:X® Ultra technology:** By producing authentic, spatially accurate 3D sound, this technology gives games, movies, and music a level of depth and immersion for the best entertainment experience possible.
- OMEN Gaming Hub:** Your one place for everything to make your gaming experience better. From software enhancements to hardware control, and live services, OMEN Gaming Hub elevates play in an easy and simple way.

Product number • B69J2UA#ABA

Learn more at hp.com

