

OMEN by HP 16.1 inch Gaming Laptop PC 16-wd0063dx



Portable desktop power is powerful fun anywhere

While it's surely nice and cozy wherever your PC is setup in your home, with the new OMEN 16, desktop-level gaming is no longer tethered to your desk and pajamas. With a next gen Intel® processor and graphics card, a buttery smooth, high refresh rate display, and enhanced thermal design, you can max out your relaxation and comfort wherever you go. Power your games, power your life, and bring powerful fun anywhere with the new OMEN 16.

Product overview

- **Your best-looking gaming is ahead of you:** The days of underutilizing your games by playing on the lowest graphical settings are over. With a next-gen processor, as well as the latest graphics card and memory, your best-looking gaming is ahead of you.
- **When your machine breathes easy, so do you:** Your PC might not eat, sleep, and watch a questionable amount of Netflix and TikTok like you do, but like you, it does need to breathe properly to reach peak performance. Not only did we enlarge the bottom openings for more air intake, we also added additional rear trunk venting space, because when your machine breathes easy, so do you.
- **It's okay to expect immersion, we've got you:** Stop settling for PCs with dull visuals, painful input lag, and webcams that make you look like a PS2 character. With great, high refresh rate screens and a new webcam, it's okay to expect immersion, we've got you.

Key specifications

- **Operating system:** Windows 11 Home⁽¹⁾
- **Processor:** 13th Generation Intel® Core™ i7-13620H^(2b)
- **Display:** 16.1-inch diagonal, FHD (1920 x 1080), 144 Hz, IPS, micro-edge, anti-glare⁽³⁹⁾
- **Memory:** 16 GB DDR5-5200 MHz RAM (2 x 8 GB)
- **Internal storage:** 1 TB PCIe® Gen4 NVMe™ M.2 SSD^{(15)(58e)}
- **Graphics:** NVIDIA® GeForce RTX™ 4050 Laptop GPU (6 GB GDDR6 dedicated)⁽¹³⁾
- **Sound:** Audio by Bang & Olufsen with dual speakers
- **Wireless:** Wi-Fi 6E (2x2)^(19c) and Bluetooth® 5.3 wireless card⁽²⁵⁾⁽²⁶⁾ (supporting gigabit data rate)^(7e)
- **Security:** Camera privacy shutter
- **Camera:** HP True Vision 1080p FHD camera with temporal noise reduction and integrated dual array digital microphones^{(89)(99b)}
- **Product weight:** 5.29 lb⁽⁷⁶⁾
- **Keyboard:** Full-size, 4-zone RGB backlit, shadow black keyboard and 26-Key Rollover Anti-Ghosting Key technology
- **Included:** 1-month of Xbox Game Pass Ultimate⁽⁶⁰⁾

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⁾
- **Extend beyond performance to let your PC do even more at once:** Offering more than just a performance score. This 13th Gen Intel® Core™ processor advances real-world computing and delivers more ultra-efficient multi-tasking.
- **NVIDIA® GeForce RTX™ 4050:** The NVIDIA® GeForce RTX™ 4050 graphics are beyond fast for gamers and creators. Experience lifelike virtual worlds, ultra-high FPS gaming, revolutionary new ways to create, and unprecedented workflow acceleration.
- **144Hz FHD anti-glare display:** Reduce frustrating lag and image ghosting with a display that combines a 144Hz refresh rate and 1080p Full High Definition resolution for smooth, crisp gameplay.⁽²⁰⁾⁽³⁹⁾
- **Flicker-free:** Using DC Dimming technology that controls brightness by adjusting direct current rather than cycling the backlight, we can eliminate screen flickering for more comfortable viewing.⁽⁶¹⁾
- **HP Fast Charge:** Go from 0 to 50% charge in approximately 30 minutes.⁽⁷²⁾
- **Effortlessly connected:** Enjoy faster speeds, improved performance, greater capacity and lower latencies than earlier iterations with Wi-Fi 6E and Bluetooth® 5.3 wireless card.^{(19c)(25)(26)}
- **HP True Vision FHD camera:** Video chat in vibrant clarity with Full HD resolution, even in low light, and make every conversation a face-to-face experience for a better way to stay in touch.⁽⁸⁹⁾

Additional product features

- **PCIe® NVMe™ SSD storage:** Get up to 12.8x faster performance than a SATA SSD.^(58e)
- **An exceptionally rich audio experience:** HP Dual Speakers, HP Audio Boost, and expert tuning by Bang & Olufsen bring audio perfection to your PC.
- **DDR5 RAM:** Designed to run efficiently and reliably at faster speeds, DDR5 is the latest RAM standard. With higher bandwidth, you get more of a boost in performance.
- **Four Zone RGB Keyboard:** Backlight 4 independent zones with different RGB lighting. WASD keys are outlined to highlight key controls.
- **Enjoy 1-month of high-quality games.** Use the Xbox App to play hundreds of high-quality PC games with friends including new day one titles and get an EA Play membership. With games added all the time, you always have something new to play. Xbox Game Pass Ultimate also enables you to play console games on your Windows PC with cloud gaming, and chat with friends across PC, mobile, and Xbox console.⁽⁶⁰⁾

Product design

- **OMEN Tempest Cooling Technology:** Stay cool under pressure with the advanced laptop thermal solution. 3-sided venting and 5-way airflow ensure optimal system stability and performance when gameplay heats up.⁽⁴⁶⁾
- **HP Imagepad with multi-touch gesture:** This true multi-touch touchpad supports four finger gestures and lets you scroll, zoom, and navigate with a simple touch.
- **Micro-edge display:** See more of your screen with a micro-edge display that maximizes your viewing area.

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 and speaker enclosures^(63c)
 - Keyboard mechanism made from agriculture waste^(63a)
 - Keyboard components contain post-consumer recycled plastic^(63b)
 - HP's outer boxes and fiber cushions used in packaging are 100% sustainably sourced and recyclable.^(63e)
 - ENERGY STAR® certified⁽⁶²⁾
 - EPEAT® Gold registered⁽²⁷⁾

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⁾



AUDIO BY
BANG & OLUFSEN

Specifications

Operating system	• Windows 11 Home ⁽¹⁾
Processor	• 13th Generation Intel® Core™ i7-13620H ^(2b) • 10-Core
Processor speed	• Up to 4.9 GHz with Intel® Turbo Boost Technology ^(2a)
Processor cache	• 24 MB L3 cache
Memory	• 16 GB DDR5-5200 MHz RAM (2 x 8 GB)
Accessible memory slots	• 2
Video graphics	• NVIDIA® GeForce RTX™ 4050 Laptop GPU (6 GB GDDR6 dedicated) ⁽¹³⁾
Internal storage	• 1 TB PCIe® Gen4 NVMe™ M.2 SSD ^{(15)(58a)}
Finish and features	• Top cover: shadow black • Keyboard deck: shadow black • Logo: black chrome
Camera	• HP True Vision 1080p FHD camera with temporal noise reduction and integrated dual array digital microphones ^{(89)(89b)}
Display	• 16.1-inch diagonal, FHD (1920 x 1080), 144 Hz, IPS, micro-edge, anti-glare, 250 nits, 45% NTSC ⁽²⁰⁾⁽³⁹⁾
Screen to body ratio	• 83.1% ⁽⁴⁰⁾
Network card	• Integrated 10/100/1000 GbE LAN ⁽²⁹⁾
Wireless connectivity	• Wi-Fi 6E (2x2) ⁽¹⁹⁾ and Bluetooth® 5.3 wireless card ⁽²⁵⁾⁽²⁶⁾ (supporting gigabit data rate) ^(7e)
Sound	• Audio by Bang & Olufsen with dual speakers
Integrated keyboard	• Full-size, 4-zone RGB backlit, shadow black keyboard and 26-Key Rollover Anti-Ghosting key technology • HP Imagepad
External notebook ports	• 1 USB Type-C® 5Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge) ⁽⁴²⁾⁽⁴⁸⁾⁽⁵⁰⁾⁽⁶⁴⁾ • 1 USB Type-A 5Gbps signaling rate (HP Sleep and Charge) ⁽⁶⁴⁾ • 2 USB Type-A 5Gbps signaling rate • 1 RJ-45 • 1 Headphone/microphone combo (DTS: X® Ultra) ⁽⁴⁷⁾ • 1 AC Smart pin • 1 HDMI 2.1
Dimensions	• Unpackaged: 14.53 in (W) x 10.21 in (D) x 0.93 in (H) • Packaged: 23.54 in (L) x 2.72 in (W) x 13.58 in (H)
Weight	• Unpackaged: 5.29 lb ⁽⁷⁶⁾ • Packaged: 9.44 lb
What's in the box	• 1-month of Xbox Game Pass Ultimate ⁽⁶⁰⁾
Security	• Camera privacy shutter
Power	• 4-cell, 70 Wh Li-ion polymer battery ⁽²¹⁾ • 230 W Smart AC power adapter

Learn more at [hp.com](#)

⁽¹⁾ Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>. ^(2a) Multi-core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance. Intel, Pentium, Intel Core, Celeron, Iris Xe, Intel logo and the Intel Inside logo are trademarks of Intel Corporation in the U.S. and other countries. ^(2b) Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See intel.com/technology/turboboost for more information. GHz refers to internal clock speed of the processor. Other factors besides clock speed may impact system and application performance. ^(7a) Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately. ^(8b) Internet access required and not included. Subscription required after 30 days trial period. McAfee, LiveSafe and the McAfee logo are trademarks or registered trademarks of McAfee, Inc. in the United States and other countries. ⁽⁹⁾ Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. ⁽¹³⁾ ©2022 NVIDIA Corporation. NVIDIA, the NVIDIA logo, GeForce, and GeForce RTX are registered trademarks and/or trademarks of NVIDIA Corporation in the United States and other countries. All other trademarks and copyrights are the property of their respective owners. ⁽¹⁵⁾ Actual formatted capacity is less. Portion of internal storage is reserved for preloaded content. ^(19c) Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported. ⁽²⁰⁾ All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. ⁽²¹⁾ Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors. ⁽²²⁾ 100GB of free online storage for one year from date of registration. For complete details and terms of use, including cancellation policies, visit the website at dropbox.com. Internet service required and not included. ⁽²³⁾ HP BIOS Protection works with Windows 11 that ships with your PC. ⁽²⁵⁾ Bluetooth® 5.3 operation requires Microsoft OS/Chrome OS support. Until Microsoft OS/Chrome OS support is available, Bluetooth® 5.3 will function as Bluetooth® 5.2 or lower. ^(26a) Bluetooth® is a trademark owned by its proprietor and used by HP Inc. under license. ⁽²⁷⁾ Based on U.S. EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information. ⁽²⁹⁾ Actual speeds may vary. ⁽³⁹⁾ Full High Definition (FHD) content is required to view FHD images. ⁽⁴⁰⁾ Percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk. ⁽⁴²⁾ USB Type-C® and USB-C® are trademarks of USB Implementers Forum. ^(46a) Thermal solution varies by configuration. ⁽⁴⁷⁾ Listening to personal stereo equipment at full volume for long periods can damage the user's hearing. To reduce the risk of hearing damage, lower the volume and amount of time listening at full volume. ^(48a) For optimal performance and battery chargeability while gaming and rendering, use the power adapter that ships with the PC. You can use the 100W/20V Type-C adapter or power bank when running light loading tasks. System-off charging is only supported on 20V Type-C adapter or power bank. ⁽⁵⁰⁾ DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. ⁽⁵³⁾ Call 1.800.474.6836 or support.hp.com for more information on Care Packs available after standard warranty expires. After standard warranty expires, an incident fee may apply. ⁽⁵⁶⁾ For more information visit hp.com/go/hpsupportassistant. (Link will vary outside of the U.S.) HP Support Assistant is only available on Windows-based PCs. Internet connection required for updating and connecting to HP Support. ^(58a) Based on HP internal testing using CrystalDiskMark benchmarking software. Performance is sequentially read compared to SATA SSD. ⁽⁶⁰⁾ 1 month trial offer - Promotional offers may be for new members only and/or not be valid for all members and are only available for a limited time. Credit card and Xbox account required. After promotional period, subscription automatically continues at the then-current regular price (subject to change), unless cancelled, plus applicable taxes. To stop being charged, cancel your subscription or turn off recurring billing in your Microsoft account (account.microsoft.com/services) or on your Xbox console, before the next billing date. For more details, see support.xbox.com/help/subscriptions-billing/manage-subscriptions/cancel-recurring-billing-or-subscription. Purchase of Xbox Game Pass Ultimate automatically upgrades your existing Xbox Live Gold, Xbox Game Pass (PC or Console), and/or EA Play membership(s) to Xbox Game Pass Ultimate at a conversion ratio each based on days remaining. Learn how this works at xbox.com/gamepass. See Microsoft xbox.com/en-US/legal/subscriptions-terms for more details. ⁽⁶¹⁾ The Flicker-free capability is eliminating screen flickering through integrating DC-dimming LED backlights or LED emissions. OLED panel is functional with DC-DIMMING when above 100nits. ⁽⁶²⁾ ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency. ^(63a) Keyboard scissiors contain natural, renewable feedstock based on mass balance approach. ^(63d) Percentage of ocean-bound plastic contained in each component varies by product. ^(63e) 100% outer box/corrugate cushion packaging made from sustainably sourced certified and recycled fibers. Fiber cushions made from 100% recycled wood fiber and organic material. Excludes plastic bags and plastic foam sheeting. ^(63f) Percentage of post-consumer recycled plastic varies by product. Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard. ⁽⁶⁴⁾ For best results with HP Sleep and Charge, use a USB charging protocol standard cable or cable adapter with an external device. ⁽⁷²⁾ Recharges your battery up to 50% within 30 minutes when the system is off (using "shut down" command). Recommended for use with the HP adapter provided with the notebook, not recommended with a smaller capacity battery charger. After charging has reached 50% capacity, charging speed will return to normal speed. Charging time may vary +/-10% due to System tolerance. ⁽⁷⁶⁾ Weight and system dimensions may fluctuate due to configuration and manufacturing variances. ⁽⁸¹⁾ HP QuickDrop is preinstalled on this PC. Unlock use on secondary devices by downloading the app from iOS or Google Play store and connect to your PC. Limited to sharing to one device at a time. Must be linked to an HP PC. Not applicable to sharing content between two mobile devices. ⁽⁸⁹⁾ Features may require software or other 3rd party applications to provide the described functionality. Internet service required and not included. ^(89b) Camera resolution refers to the image sensor active pixels. The actual image capture pixels depend on the app and/or aspect ratio selected. Actual product may vary from image shown on datasheet. © Copyright 2023 HP Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing shall be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein. Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. All other trademarks are property of their respective owners. 05/16/2023_r6.tg

Warranty and support	• 1-year limited hardware warranty. Additional information available at www.support.hp.com ⁽⁹⁾ • 1-year limited technical support for software and initial setup (from date of purchase) ⁽⁵³⁾
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Software

Help and support	• myHP: myHP provides a simple setup and registration experience that welcomes you to your new HP PC. 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. • 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⁾
Security and protection	• HP BIOS Protection: Get peace of mind knowing your PC BIOS is protected. HP BIOS Protection automatically checks its health and recovers itself. ⁽²³⁾
Partner offers	• Dropbox cloud storage: Store and synchronize your content online with Dropbox. Get 100GB of storage for one year to access, manage, and share your photos, music, and files from anywhere with Internet access. ⁽⁹⁾⁽²²⁾ • McAfee LiveSafe™: Protect your operating system with a free 30-day McAfee LiveSafe™ trial. ⁽⁸⁾
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⁾
Work and lifestyle	• HP QuickDrop: Wirelessly transfer photos, videos, documents and more between your PC and mobile device. Easily snap a photo to share, send addresses for directions on-the-go, and view texts on your PC's screen. With HP QuickDrop, file transfers are easy, fast and reliable. ⁽⁹⁾⁽⁸¹⁾ • AI Noise Removal: Artificial intelligence technology automatically removes background noise for clearer than ever video chats, audio calls, and recordings.
Gaming and entertainment	• DTS: X® Ultra Technology: By producing authentic, spatially accurate 3D sound through any headset, this technology offers specially tuned audio modes for different game types to provide immersion for the best entertainment experience possible. ⁽⁴⁷⁾ • 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.

Additional Information

Product number	• 7Q059UA#ABA
Ad embargo date	• 05/14/2023
UPC Code	• 197192891377
Country of origin	• China
Pallet information	• Dimensions: 47.24 in (L) x 39.37 in (W) x 45.84 in (H) • Total weight: 767.2 lb • Layers: 3 • Products per layer: 26

