Bold performance that doesn't burn out

The new OMEN 16 not only has the power of the latest next-gen AMD¹ and NVIDIA[®] components, but it also has the proper thermal innovations to keep them from burning out. Pair that with OMEN AI for maximum possible FPS at the click of a button and Unleashed Mode for that extra boost in performance, and you have our most reliably powerful laptop yet.



*Product image may differ from actual product

Instantly raise your game

Get maximum possible FPS with OMEN AI and

boost your power beyond its base limits with Unleashed Mode.



Cooling that keeps up

Handle the heat with high efficiency fans that reduce noise and keeps your laptop cool while you game on.

Sustainability in action

Steady connection, even steadier aim

Never miss a call or headshot with a high refresh rate display 2 and built-in FHD webcam $^3.$





Next generation of performance

Get the best possible performance with the latest next-gen NVIDA® GPUs and AMD Processors¹.

Featuring

Get a fresh perspective

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.⁴

AMD Ryzen[™] Al 300 Series processors with AMD Radeon[™] graphics

Dive into a world of generative Al tools and digital assistants on advanced Al PCs powered by AMD Ryzen^M Al 300 series processors (on select models).¹

AMD FreeSync[™] technology

See and feel the difference of fluid, responsive gameplay. By synchronizing the refresh rate with your GPU, AMD FreeSync[™] makes display stutter, input lag, and screen tears ancient history.⁵

Wide Quad Extended Graphics Array Display

Get lost in the captivating definition with 2560 × 1600 pixels.⁶

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.⁷

3ms response time

How fast your display's pixels respond is crucial for a smooth picture. With a 3-millisecond response time, your action-filled content will look crisp and fluid without motion blur.⁸

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.⁹

16:10 aspect ratio

A 16:10 aspect ratio lets you see more of your content with less scrolling.

100% sRGB

Showcase your creations in all their colors on the 100% sRGB display for maximum color broadness and accuracy.

Try PC Game Pass for free with your new HP device

Play hundreds of high-quality PC games with your new HP gaming device and 3 free months of PC Game Pass – including EA play. With new games added all the time, there's always something new to play.¹⁰

Incorporating ocean-bound plastics

HP incorporates increasing amounts of recycled, renewable, and nonvirgin raw materials. Built with the environment in mind, this product includes a percentage of ocean-bound plastic in the design.¹¹

Keyboard contains post-consumer recycled plastic

We're bringing a more thoughtful design to our keyboards by using post-consumer recycled plastic in the design.¹²

ENERGY STAR®

This product meets the criteria that require computers to operate efficiently to get ENERGY STAR certification. $^{13}\,$

HP Fast Charge

When your laptop is low on power, no one has time to wait hours to recharge. Power down your device and go from 0 to 50% charge in approximately 30 minutes.¹⁴

Effortlessly connected

Enjoy a smooth wireless experience with a Wi-Fi 6E (2x2) and Bluetooth® 5.3 combo.¹⁵

HP True Vision FHD

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. $^{16}\,$

DisplayPort™

This robust digital video and audio port transmits up to 8K performance or allows you to connect multiple displays together.¹⁷

McAfee[®] LiveSafe[™]

Free 12-month subscription of McAfee® LiveSafe™ service included. McAfee® LiveSafe™ service enriches your digital life by protecting your data, identity and all your devices so you can connect with confidence.¹⁸

1TB PCle[®] Gen4 NVMe[™] M.2 SSD

With high-speed data transfer, the 1 TB PCIe Gen4 NVMe M.2 SSD offers lightning fast speed and efficient storage.¹⁹

HP Audio Boost

Take your audio experience to the next level with smart amplification technology giving you loud, clear and dynamic sound.

Audio tuned by HyperX

Immerse yourself in the sweet sounds of audio mixed and tuned by HyperX.

4-Zone RGB Keyboard with Numpad

Illuminate your entire keyboard and numpad with 4-zone RGB.

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.

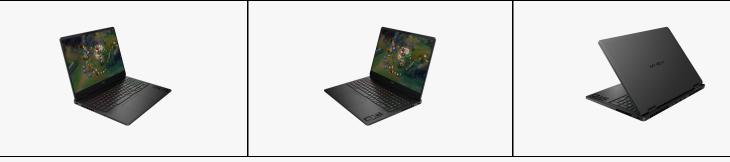
Recommended accessories and services (not included)



3-year pickup and return UM963E



Specifications



Performance

Operating system Windows 11 Home Processor AMD Ryzen[™] AI 9 365 (up to 5.0 GHz max boost clock, 24 MB L3 cache, 10 cores, 20 threads)^{6,7} Processor family: AMD Ryzen[™] Al 9 processor Neural Processing Unit (NPU): AMD Ryzen™ AI (50 NPU TOPS) Chipset AMD integrated SoC Memory 24 GB DDR5-5600 MT/s (2 x 12 GB) Transfer rates up to 5600 MT/s. Number of User-accessible Memory Slots: 2 Storage 1TB PCle[®] Gen4 NVMe[™] M.2 SSD 25 GB Dropbox storage for 12 months¹ Graphics Discrete: NVIDIA® GeForce RTX™ 5070 Laptop GPU (8 GB GDDR7 dedicated); Audio DTS:X® Ultra; Dual speakers; HP Audio Boost; HyperX Display 40.6 cm (16") diagonal, WQXGA (2560 x 1600), 60-240 Hz, 3 ms response time, IPS, micro-edge, anti-glare, Low Blue Light, 500 nits, 100% sRGB^{17,21,28} Screen-to-body ratio 87.49%¹⁸ Power 230 W AC power adapter; **Battery type** 6-cell, 83 Wh Li-ion polymer²³ **Battery and Power** Supports battery fast charge: approximately 50% in 30 minutes⁵ Connectivity

Network interface

Integrated 10/100/1000 GbE LAN Wireless connectivity

MediaTek Wi-Fi 6E MT7922 (2x2) and Bluetooth® 5.3 wireless card Ports

1 USB Type-C[®] 10Gbps signaling rate (USB Power Delivery, DisplayPort[™] 1.4, and 26-Key Rollover Anti-Ghosting Key technology HP Sleep and Charge); 1 USB Type-C[®] 5Gbps signaling rate; 1 USB Type-A 10Gbps signaling rate; 1 AC smart pin; 1 HDMI 2.1; 1 headphone/microphone Features combo; 1 RJ-45; 1 USB Type-C[®] 5Gbps signaling rate (HP Sleep and Charge)^{19,42}

Webcam

HP True Vision 1080p FHD camera with temporal noise reduction and integrated dual array digital microphones

Sustainability

Ecolabels EPEAT[®] Gold with Climate+²⁷ Energy star certified ENERGY STAR® certified Sustainable impact specifications Ocean-bound plastic in bezel; Keyboard keycaps and scissors contain post-consumer recycled plastic^{39,41}

Design

Product color Shadow black

Software

IR thermal sensor

HP apps HP Support Assistant; HP Connection Optimizer; OMEN Gaming Hub Software Otter.ai: 1 month trial for new Microsoft 365 customers²⁴ Service & support McAfee Online Protection 30-day trial; 1-month Adobe free trial offer; PC Game Pass 3-month trial 2,25

Additional information

Part Number P/N: BV3G5EA UPC/EAN code: 199251623141 Weight 2.44 kg; Packed: 3.7 kg Dimensions 35.75 x 26.9 x 2.37 cm (front); 35.75 x 26.9 x 2.84 cm (rear); Packed: 6.3 x 56.7 x 30.5 cm Manufacturer Warranty 1 year (1/1/0) limited warranty includes 1 year of parts and labor. No on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply. Keyboard Full-size, 4-zone RGB backlit, shadow black keyboard with numeric keypad **HP** Imagepad AMD FreeSync^{™29} Security management Camera privacy shutter; Trusted Platform Module (Firmware TPM) support Sensors



Footnotes

Messaging Footnotes

¹Multi-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. AMD's numbering is not a measurement of clock speed.

² All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

³Camera resolution refers to the image sensor active pixels. The actual image capture pixels and aspect ratio depend on the app selected.

⁴ 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

⁵ FreeSync[™] is only available when it is connected on Display Port or HDMI port. FreeSync[™] is an AMD technology enabled on FHD or QHD 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. Monitor, AMD Radeon" Graphics and/or AMD A-Series APU compliant with DisplayPort" Adaptive-Sync required. AMD Catalyst" 15.2 Beta (or newer) required. Adaptive refresh rates vary by display.

⁶ WQXGA content is required to view WQXGA images.

⁷All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. Eyesafe* Display for Low Blue Light is the Display Compliance Test Specification quality. See https://eyesafe.com for more details. Display measured diagonally

⁸ All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary, either higher or lower.

⁹ The flicker-free capability eliminates screen flickering through integrating DC-dimming LED backlights.

¹⁰ Xbox Game Pass sold separately. Credit card required. Unless you cancel, you will be charged the then-current regular membership rate when the promotional period ends. Terms, exclusions, and streaming limits apply. Xbox Cloud Gaming (Beta): select devices and regions. After term, active membership required to play games and online multiplayer. Game catalog varies over time, region, and by device. DLC sold separately; if a game is removed from catalog or your membership ends, you will need to purchase the game separately to use your DLC. If you're already an Xbox Live Gold and/or Game Pass for Console/PC member, any days remaining in your membership(s) will be converted to Ultimate using a conversion ratio. Future code redemptions also subject to conversion ratio. All conversions to Ultimate are final. Details and system requirements at www.xbox.com/gamepass. Offer valid in all Xbox Game Pass markets excluding Russia. Digital Direct: Your digital content will be delivered directly to your device during set-up; no codes required. PC Game Pass:

Subscription continues automatically at regular monthly price unless cancelled. Subject to xbox.com/subscriptionterms

¹¹ Percentage of ocean-bound plastic contained in each component varies by product.

12 Keybaard components contain post-consumer recycled plastic. Percentage of post consumer recycled contained in each component varies by product.

13 Based on U.S. EPEAT* registration according to IEEE 16801-2018 EPEAT*. EPEAT* status varies by country. Visit www.epeat.net for more information.

¹⁴ Recharges your battery up to 50% within 30 minutes when the system is off using "shut down" command, using HP adapter provided with the notebook or recommended power adapter disclosed in specifications (see http://store.hp.com). After charging has reached 50% capacity, charging speed will return to normal speed. Charging time may vary +/- 10% due to System tolerance. Available on select HP products. 15 Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs. 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, that supports 80MHz and higher channels. Wi-Fi 6 (802.11ax) is not supported in Belarus where Wi-Fi settings will be optimized to local regulatory requirements (802.11ac). ¹⁶ Features may require software or other 3rd party applications to provide the described functionality.

17 8K content required to view 8K images. DisplayPort^w and the DisplayPort^w logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. Display measured diagonally

¹⁸ Internet service required and not included. Subscription required after the 12 month.

¹⁹ For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB of system disk is reserved for system recovery software.

Technical Specifications Footnotes

¹25 GB of free Dropbox storage for 12 months from date of registration. For complete details and terms of use, including cancellation policies, visit the Dropbox website at https://www.dropbox.com/help/space/hp-

promotion. Internet service required and not included. ² Internet access required and not included. McAfee is pre-installed on your PC and an account is required for activation. Subscription renewal required after trial period. VPN feature is not available in India, China, Syria or North Korea. McAfee is not compatible with Windows 11 in S mode. You'll need to permanently switch out of S mode. There's no charge to switch out of S mode, but you don't be able to turn it back on.

⁵ Recharges your battery up to 50% within 30 minutes when the system is off using "shut down" command, using HP adapter provided with the notebook or recommended power adapter disclosed in specifications (see http://store.hp.com). After charging has reached 50% capacity, charging speed will return to normal speed. Charging time may vary +/-10% due to System tolerance. Available on select HP products.

⁶ 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. AMD s numbering is not a measurement of clock speed.

⁷ Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.

¹¹ 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 6GHz is supported.

¹⁷ All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

¹⁸ Percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk.

¹⁹ For best results with HP Sleep and Charge, use a USB charging protocol standard cable or cable adapter with an external device.

²¹ TUV Low Blue Light is the Display Compliance Test Specification quality. See https://www.certipedia.com/?locale=en#search for more details.

23 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. ²⁴ Must activate within 180 days of Windows activation.

26 Offer available worldwide (excluding China and embargoed countries or other countries identified as restricted by applicable law or regulation) to new and existing subscribers who are 18+. Click on the Adobe icon in the start menu to redeem a 1-month free trial membership for select Adobe software. The software is tied to the device and is not transferrable. If you would like to sign up for an auto-renewing subscription, you can provide your payment method at sign-up. By adding a payment method, your subscription will automatically renew at the then current rate on your renewal date until you cancel. If you cancel before the end of the one-month free trial, you won't be charged. You can cancel your subscription anytime via your Adobe Account page or by contacting Customer Support. Please see current prices for Adobe products available in this offer. Offer not available to Education, OEM, or volume licensing customers. Subject to availability where the recipient resides. Additional terms and conditions may apply. VOID WHERE PROHIBITED OR RESTRICTED BY LAW. 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.

²⁸ Eyesafe® Display for Low Blue Light is the Display Compliance Test Specification quality. See https://eyesafe.com for more details. ²⁹ AMD FreeSync[™] /FreeSync[™] / compensation, and HDR to support AMD FreeSync[®] Premium/ FreeSync[®] Premium Pro/FreeSync[®] Replay. 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. AMD FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync[™]/FreeSync requires AMD Radeon graphics and a display certified by AMD. See www.amd.com/freesync for complete details. GD-127 © 2023 Advanced Micro Devices, Inc. All rights reserved. AMD, the AMD Arrow logo, Radeon, FreeSync, and combinations thereof are trademarks of Advanced Micro Devices, Inc.

³⁷ Weight and system dimensions may fluctuate due to configuration and manufacturing variances.

³⁹ Percentage of ocean-bound plastic contained in each component varies by product.

⁴¹ Keyboard components contain post-consumer recycled plastic. Percentage of post consumer recycled contained in each component varies by product.

42 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. ⁴⁵ 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.

46 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.

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