

HP Spectre x360 16 inch 2-in-1 Laptop PC 16-aa0023dx



Power up. Break through.

Say hello to HP Spectre x360 2-in-1 Laptop. This innovative and adaptive device combines the function of a laptop and a tablet with built in AI technology and powerful processing. This laptop adapts to your way of working while giving you the freedom to run your world wherever you roam.

Product overview

- **Elevate your laptop. Raise your productivity.** Crush every ask and task thrown your way with the built in AI technology and the speed of the Intel® Evo™ Edition platform powered by an Intel® Core™ Ultra processor. Handle big files and even bigger workloads with the memory and battery life you need to keep you working and playing as long as you like. When you're ready to get things done, this HP Spectre x360 2-in-1 Laptop is up to the task.
- **The tools that'll take you places:** Connect your iOS or Android phone with Intel® Unison™ and seamlessly transfer photos, use as a second screen, or text and call. Smart Sense technology helps boost battery life. The touchscreen display has a variable refresh rate which automatically adjusts for increased picture sharpness, motion clarity and power efficiency. Go further with this laptop that empowers you to do what you do, wherever you do it, while keeping up with your every move.
- **Present your best self:** Show your best side from any angle with a 9MP camera that includes night mode and appearance filters, and capture crystal clear conversations with AI noise reduction. Windows Studio Effects gives you must-have intelligent video chat features like auto framing and background blur that make you the focus, and eye contact technology to ensure that your audience knows you're engaged. This is intelligent collaboration that adapts to you, seamlessly connecting you to coworkers, classmates, or your crew like never before.
- **Built for a better tomorrow:** The HP Spectre x360 2-in-1 Laptop is designed using recycled metals and post-consumer ocean-bound plastics. It is packaged with 100% sustainably sourced FSC certified, plastic-free packaging. The EPEAT® Gold with Climate+^(27a) and ENERGY STAR® certified design means that we've been recognized for our efforts to reduce environmental impact and promote superb energy efficiency.

Key specifications

- **Operating system:** Windows 11 Home⁽¹⁾
- **Processor:** Intel® Evo™ Edition platform powered by Intel® Core™ Ultra 7 155H^(2a)
- **Display:** 16-inch diagonal, 2.8K (2880 x 1800), OLED, multitouch-enabled, 48-120 Hz, 0.2 ms response time, UWVA, edge-to-edge glass, micro-edge, anti-reflection Corning® Gorilla® Glass NBT™, Low Blue Light
- **Memory:** 32 GB LPDDR5x-6400 MHz RAM (onboard)
- **Internal storage:** 1 TB PCIe® Gen4 NVMe™ M.2 SSD^{(15)(58a)}
- **Graphics:** NVIDIA® GeForce RTX™ 4050 Laptop GPU (6 GB GDDR6 dedicated)⁽¹³⁾
- **Sound:** Poly Studio with quad speakers
- **Wireless:** Wi-Fi 6E (2x2)^{(1)(2a)} and Bluetooth® 5.3 wireless card^{(2)(2a)} (supporting gigabit data rate)^{(7)(a)}
- **Security:** Fingerprint reader, camera shutter key, mic mute key
- **Camera:** HP Wide Vision 9MP IR camera with camera shutter, temporal noise reduction and integrated dual array digital microphones⁽⁸⁾⁽⁹⁾⁽⁸⁾⁽⁹⁾
- **Product weight:** 4.3 lb^{(7)(a)}
- **Keyboard:** Full-size, backlit, nightfall black keyboard

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⁾
- **Intel® Core™ Ultra 7 processor:** Experience powerful and responsive performance to help your productivity soar. Seamlessly edit, share, and enjoy fantastic 4K entertainment with lightning-fast speed.
- **Intel® Evo™ Edition:** The Intel® Evo™ Edition design brings together the perfect combination of performance, responsiveness, battery life and stunning visuals in a new class of laptops. These designs are verified by Intel® for an exceptional laptop experience, anywhere.
- **NVIDIA® GeForce RTX™ 4050:** The NVIDIA® GeForce RTX™ 4050 (6GB) delivers the ultra performance and features that enthusiast gamers and creators demand.
- **2.8K OLED display:** With technology that lights each pixel separately, an OLED display brings deeper blacks for richer contrast, enhanced color depth, and more power efficiency than traditional LED screens. 2880 x 1800 resolution delivers stunning details and lifelike colors.
- **Corning® Gorilla® Glass NBT™:** Stands up to all the daily abuse a touch screen takes. Help reduce accidental damage with strong, more durable protection than most displays.
- **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.
- **OLED with VESA DisplayHDR 400 True Black Certification:** A VESA DisplayHDR True Black certified display with pixel dimming that presents true black color, high contrast, and low blue light that's easier on your eyes.⁽¹⁶⁾
- **IMAX Enhanced Certified:** Enjoy brighter images, immersive, heart-pounding audio, and experience premium content digitally remastered by IMAX on your device.
- **NVIDIA® G-SYNC™:** By synchronizing the refresh rates of your GPU and display, this technology delivers gameplay that's sharp, fluid, and stutter-free with minimal input lag.
- **LPDDR5x RAM:** Experience speedy and responsive performance with the power efficient LPDDR5x memory. Designed to support higher data rates with less latency, plus faster file transfers and application load.
- **HP Fast Charge:** Go from 0 to 50% charge in approximately 30 minutes.⁽⁷⁾⁽²⁾

Additional product features

- **PCIe® NVMe™ SSD storage:** Get up to 12.8x faster performance than a SATA SSD.^(58a)
- **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.^{(1)(9)(10)(2)(a)}
- **Poly Studio Audio with quad speakers:** HP + Poly together will continuously accelerate innovation across our hybrid solutions, including AI-generated technology. With pitch perfect audio, you'll get the best experience to collaborate anywhere with audio tuned by Poly Studio.
- **Fingerprint reader on the power button:** Turn on and access your device faster than ever. This can be used to unlock the device, authenticate the user, or replace the password. With biometric identifier technology, your fingerprint will be captured and recorded for quicker computer access.
- **All-in-One Keyboard:** Control your privacy, security and multimedia with the touch of a button. With all your hotkeys in one area, seamlessly navigate with no distractions.
- **Microphone mute:** Dedicated microphone mute button with an LED indicator light.
- **HP Wide Vision 9MP IR camera with shutter:** This ultra-high quality 9MP IR camera with AI takes your video quality further with stunning detail and resolution. Now with night mode, create stunning visuals in light or dark settings.
- **Thunderbolt™ 4 with USB Type-C®:** The latest Thunderbolt™ solution lets you power your device or connect up to two 4K displays with a single cable and blazing 40Gbps signaling rate.⁽¹⁾⁽²⁾⁽⁴⁾⁽³⁾
- **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.⁽⁶⁾⁽²⁾

Product design

- **360° geared hinge:** Innovatively engineered to rotate 360 degrees so that you can use your device in four positions.
- **Walk away lock and wake on approach:** Save on battery life and gain privacy as it automatically turns off when you leave and conveniently wakes up upon approach.
- **Haptic touchpad:** Control more of your PC and enjoy better responsiveness, durability, and more efficiency with gestures to control various features.
- **90% 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.
- **Backlit keyboard:** Keep going even in dimly lit rooms or aboard red-eye flights. With an illuminated keyboard, you can type comfortably in more environments.

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.

The HP Spectre x360 16 inch 2-in-1 Laptop PC is built with the future in mind, using environmentally conscious and recycled materials as follows:

- Up to 50% recycled plastics in the speaker box, bottom cover, bezel and keyboard keycaps
- Up to 50% water-based paint used on the keyboard keycaps
- Up to 45% PCR and 5% OB plastic in speaker enclosures
- Up to 90% PIR metal in cover and keyboard deck
- Up to 90% recycled metal used in hinge caps
- Packaged with 100% sustainably sourced FSC certified, plastic-free packaging

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.⁽⁵⁾⁽⁵⁾
 - **Online Support:** For technical support with this product, visit HP Customer Support <http://support.hp.com>.⁽⁵⁾
 - **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.⁽⁵⁾



Specifications

Operating system	• Windows 11 Home ⁽¹⁾
Processor	• Intel® Evo™ Edition platform powered by Intel® Core™ Ultra 7 155H ^(2b) • 16-Core
Processor speed	• Up to 4.8 GHz with Intel® Turbo Boost Technology ^(2a)
Processor cache	• 24 MB L3 cache
Memory	• 32 GB LPDDR5x-6400 MHz RAM (onboard)
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: nightfall black CNC aluminum with a sandblasted finish • Keyboard deck: nightfall black CNC aluminum with a sandblasted finish
Camera	• HP Wide Vision 9MP IR camera with camera shutter, temporal noise reduction and integrated dual array digital microphones ^{(89)(89a)}
Display	• 16-inch diagonal, 2.8K (2880 x 1800), OLED, multitouch-enabled, 48-120 Hz, 0.2 ms response time, UWVA, edge-to-edge glass, micro-edge, anti-reflection Corning® Gorilla® Glass NBT™, Low Blue Light, SDR 400 nits, HDR 500 nits, 100% DCI-P3, 1,000,000:1 ⁽²⁰⁾ • Variable Refresh Rate support • NVIDIA® G-SYNC® support • IMAX Enhanced certified
Screen to body ratio	• 90.5% ⁽⁴⁰⁾
Wireless connectivity	• Wi-Fi 6E (2x2) ^(19c) and Bluetooth® 5.3 wireless card ⁽²⁵⁾⁽²⁶⁾ (supporting gigabit data rate) ^(7e)
Sound	• Poly Studio with quad speakers
Integrated keyboard	• Full-size, backlit, nightfall black keyboard • Haptic touchpad
External notebook ports	• 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1, HP Sleep and Charge) ⁽⁴²⁾⁽⁵⁰⁾⁽⁵¹⁾⁽⁶⁴⁾ • 1 USB Type-A 10Gbps signaling rate (HP Sleep and Charge) ⁽⁶⁴⁾ • 1 Headphone/microphone combo • 1 HDMI 2.1
Dimensions	• Unpackaged: 14.05 in (W) x 9.67 in (D) x 0.78 in (H) • Packaged: 17.48 in (L) x 5.24 in (W) x 13.58 in (H)
Weight	• Unpackaged: 4.3 lb ⁽⁷⁶⁾ • Packaged: 8.69 lb
Security	• Fingerprint reader integrated in power button key • All-in-One Keyboard: Support power button, HP hotkey, camera shutter key, mic mute key, and fingerprint reader in keyboard area.
Power	• 6-cell, 83 Wh Li-ion polymer battery ⁽²¹⁾ • 140 W USB Type-C® power adapter ⁽⁴²⁾
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⁾

Software and technology

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.
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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. ⁽⁸⁾ McAfee is preinstalled 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 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. ⁽¹²⁾ Graphics output may be limited based on the maximum resolution of the display. ⁽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 6GHz 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. ⁽²⁶⁾ Bluetooth® is a trademark owned by its proprietor and used by HP Inc. under license. ^(27a) See www.epeat.net for registration status and tier levels by country. ⁽³⁶⁾ DisplayHDR™ is the high-performance Monitor and Display Compliance Test Specification from VESA specifying HDR (High Dynamic Range) quality. See displayhdr.org for more details. ⁽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. ⁽⁴³⁾ Actual throughput may vary. ⁽⁵⁰⁾ DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. ⁽⁵¹⁾ Thunderbolt is a trademark of Intel Corporation or its subsidiaries in the U.S. and/or 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/subscription-terms for more details. ⁽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. ^(88a) 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 transferable. 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. ⁽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 and aspect ratio depend on the app 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. 12/4/2023_r3 bc

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⁾ • Fingerprint reader on the power button: With biometric identifier technology, your fingerprint will be captured and recorded for quicker computer access.
Partner offers	• Adobe Offer: Get a complimentary 1 month trial of the best creativity and productivity apps from Adobe with the purchase of a computer from HP. Create anything you can imagine – photos, videos, graphics, webpages, PDFs, and more. Get started with the app that best fits your need. ^(88a) • 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 30-day trial: Secure your privacy and data when browsing on public Wi-Fi with VPN, included in your free McAfee 30-day trial. ⁽⁸⁾⁽⁹⁾ • 1-month of Xbox Game Pass Ultimate included: Unlimited access to over 100 high-quality PC games for 1-month. ⁽⁶⁴⁾
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⁾ • HP Command Center: This simple utility puts you in control, allowing you to optimize and customize performance while supporting modes help to maximize your PC's efficiency.
Work and lifestyle	• HP Enhanced Lighting: Easily enhance brightness, color and lighting effects to look your best during video calls with integrated HP Enhanced Lighting app. • HP GlamCam: Focus on what you're saying, not your looks with camera enhancements and Auto Frame that keeps you centered, in focus, and free to move around. Backlight adjustment brings the right amount of lighting to your face when moving from room to room. • AI Noise Removal: Artificial intelligence technology automatically removes background noise for clearer than ever video chats, audio calls, and recordings. • Video Controls: Present the best version of yourself with the Appearance Filter and Auto Face Framing while easily sharing your ideas and designs with Content Capture. • Intel® Unison™: Unlock your connected world. Intel® Unison™ effortlessly connects your PC and choice of phone for a universal, easy to use experience. Now with UniFeed, Universal Control, and Device Support, Unison™ connects you further.
Gaming and entertainment	• 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. • 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.

Additional information

Product number	• 97SR9UA#ABA
Ad embargo date	• 02/25/2024
UPC Code	• 197961068979
Country of origin	• China
Pallet information	• Dimensions: 43.58 in (L) x 38.35 in (W) x 48.84 in (H) • Total weight: 504 lb • Layers: 3 • Products per layer: 18

