

# HP Spectre x360 Convertible 14-ea0023dx



## Intelligence that adapts to you

HP Spectre x360 2-in-1 PC automatically adapts to your surroundings for the best on-screen image, adjusts performance settings based on your needs and provides useful privacy features with a click.

### Product overview

- **See more of what's real:** With a high definition display, videos come to life in vibrant, crystal clear detail. Scroll less on the larger than life 3:2 aspect ratio display that gives you more area to work with.<sup>(40)</sup>
- **Performance that adapts to you:** A sight to behold. Adaptive Color automatically adjusts screen color and brightness based on your environment for more comfortable viewing. HP Display Control lets you choose a color space preset for true color accuracy when web browsing, editing photos or watching videos. Smart Sense makes your PC work around your work habits to give you optimized performance for whatever you're doing. With in-bag detection, power adjusts automatically to avoid overheating and battery drain.
- **Peace of mind at your fingertips:** Keep it confidential and have total peace of mind with a fail-safe privacy camera shutter key that turns your camera off and unhackable. Keep your conversations private with the dedicated mute mic button.

### Key specifications

- **Operating system:** Windows 10 Home<sup>(41)</sup>
- **Processor:** Intel® Evo™ platform powered by 11th Generation Intel® Core™ i7-1165G7<sup>(2b)</sup>
- **Display:** 13.5-inch diagonal, 3K2K (3000 x 2000), OLED, multitouch-enabled, UWVA, edge-to-edge glass, micro-edge, BrightView, anti-reflection Corning® Gorilla® Glass NBT™<sup>(20)</sup>
- **Memory:** 16 GB LPDDR4x-3200 SDRAM (onboard)
- **Internal storage:**
  - 1 TB Intel® PCIe® NVMe™ M.2 SSD<sup>(58b)</sup>
  - 32 GB Intel® Optane™ memory<sup>(55)</sup>
- **Graphics:** Intel® Iris® Xe Graphics<sup>(14)</sup>
- **Sound:** Audio by Bang & Olufsen with quad speakers
- **Battery life:**
  - Up to 10 hours and 30 minutes (mixed usage)<sup>(85)</sup>
  - Up to 12 hours and 15 minutes (video playback)<sup>(75)</sup>
- **Wireless:** Intel® Wi-Fi 6 AX201 (2x2)<sup>(19a)</sup> and Bluetooth® 5 combo<sup>(26)</sup> (Supporting Gigabit file transfer speeds)<sup>(77)</sup>
- **Camera:** HP True Vision 720p HD IR camera with camera shutter and integrated dual array digital microphones<sup>(89)</sup>
- **Product weight:** 3.00 lb<sup>(76)</sup>
- **Keyboard:** Full-size, backlit, nightfall black keyboard
- **Included:**
  - HP Rechargeable MPP2.0 Tilt Pen in nightfall black
  - Protective sleeve

### Product features

- **Windows 10 Home:** Do great things with Windows Hello and Cortana.<sup>(160)</sup>
- **11th Generation Intel® Core™ processor:** Brings the perfect combination of features to make you unstoppable. Get things done fast with high performance, instant responsiveness and best-in-class connectivity.
- **Exceptional experience, anywhere:** Intel® Evo™ brings the perfect combination of performance, responsiveness, battery life and stunning visuals.
- **Intel® Iris® Xe graphics:** Impressive performance for creating, gaming, and entertainment. A new level of graphics performance and crisp, stunning visuals – with the convenience of a thin & light laptop.
- **3K2K IPS Touch Panel:** Get incredible detail, wide-viewing angles and a precise multi-touch experience with 6 million pixels.<sup>(20)</sup>
- **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. Laptops with integrated Eyesafe® displays help reduce eyestrain and improve eye comfort when working for long periods of time.

### Additional product features

- **HP Fast Charge:** Go from 0 to 50% charge in approximately 45 minutes.<sup>(78)</sup>
- **Effortlessly connected:** Enjoy a smoother wireless experience with Wi-Fi 6 (2x2) and Bluetooth® 5.0 combo, all your connections are solid and up to 3x faster file transfer speeds than Wi-Fi 5.<sup>(19a)(19)(25)</sup>
- **Gigabit Wi-Fi:** Ultra-fast Wi-Fi supporting gigabit speeds.<sup>(7)(19)</sup>
- **Fingerprint reader:** Seamlessly log in to your device in any position with the touch of your finger. Patented 3-D fingerprint technology ensures secure access.<sup>(9)</sup>
- **Privacy Camera Shutter Key:** No more unsightly tape and tacky gum to hide your private moments. Ensure your privacy and security with a visible, physical shutter key that turns off your PC's camera when not in use.
- **HP True Vision HD IR Camera:** The infrared sensor lets you securely log in to your computer with Windows Hello.<sup>(89)</sup>
- **PCIe® NVMe™ SSD storage:** Get up to 15x faster performance than a traditional hard drive.<sup>(58b)</sup>
- **Intel® Optane™ Memory H10 with Solid State Storage:** Launch your most used apps at faster speeds. Accomplish more in less time with two breakthrough technologies in a single form factor while seamlessly loading heavy duty images and videos.<sup>(55)</sup>
- **An exceptionally rich audio experience:** With HP Quad Speakers, HP Audio Boost, and custom tuning by the experts at Bang & Olufsen, entertainment comes to life with sound you can feel. Awaken your senses with PC audio perfection.
- **DDR4 RAM:** With higher bandwidth, you get more of a boost in performance for improved multi-tasking.
- **360° geared hinge:** Innovatively engineered to rotate 360 degrees so that you can use your device in four positions.
- **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.
- **All-in-One Keyboard:** Control your privacy, security and multimedia hotkeys in one area.
- **Detects when to hibernate:** Your laptop automatically detects when placed in a carrying bag and goes into hibernation to prevent battery drain and overheating.
- **HP Rechargeable MPP 2.0 Tilt Pen:** Create naturally with no interruptions. Improved latency and greater sensitivity allow you smoothly transition between colors for finer details while you write, draw and edit on any of your devices.

### Energy efficiency your way

HP is committed to global citizenship and environmental responsibility. Do the environment—and your wallet—a favor when you use the HP Spectre x360 that meets strict energy-efficiency and helps reduce your carbon footprint.

- ENERGY STAR® certified<sup>(62)</sup>
- EPEAT® Gold registered<sup>(27)</sup>
- Low Halogen<sup>(61)</sup>
- Mercury-free display backlights
- Arsenic-free display glass

### 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.<sup>(56)</sup>
- **Online Support:** For technical support with this product, visit HP Customer Support <http://support.hp.com>.<sup>(9)</sup>
- **Social Media Support:** To find solutions, ask questions, and share tips, join us on the HP Support Community at [community.hp.com](http://community.hp.com), on Twitter at [twitter.com/HPSupport](https://twitter.com/HPSupport), and Facebook at [facebook.com/HPSupport](https://facebook.com/HPSupport).<sup>(9)</sup>



AUDIO BY  
BANG & OLUFSEN

## Specifications

<b>Operating system</b>	<ul style="list-style-type: none"> <li>Windows 10 Home<sup>(1)</sup></li> </ul>
<b>Processor</b>	<ul style="list-style-type: none"> <li>Intel® Evo™ platform powered by 11th Generation Intel® Core™ i7-1165G7<sup>(2b)</sup></li> <li>Quad-Core</li> </ul>
<b>Processor speed</b>	<ul style="list-style-type: none"> <li>Up to 4.7 GHz with Intel® Turbo Boost Technology<sup>(2a)</sup></li> </ul>
<b>Processor cache</b>	<ul style="list-style-type: none"> <li>12 MB L3 cache</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>16 GB LPDDR4x-3200 SDRAM (onboard)</li> </ul>
<b>Accessible memory slots</b>	<ul style="list-style-type: none"> <li>Memory slot not user accessible</li> </ul>
<b>Video graphics</b>	<ul style="list-style-type: none"> <li>Intel® Iris® Xe Graphics<sup>(14)</sup></li> </ul>
<b>Internal storage</b>	<ul style="list-style-type: none"> <li>1 TB Intel® PCIe® NVMe™ M.2 SSD<sup>(58b)</sup></li> <li>32 GB Intel® Optane™ memory<sup>(55)</sup></li> </ul>
<b>Finish and features</b>	<ul style="list-style-type: none"> <li>Top cover: Nightfall black aluminum with a sandblasted finish</li> <li>Keyboard deck: Nightfall black with a sandblasted finish</li> </ul>
<b>Camera</b>	<ul style="list-style-type: none"> <li>HP True Vision 720p HD IR camera with camera shutter and integrated dual array digital microphones<sup>(69)</sup></li> </ul>
<b>Display</b>	<ul style="list-style-type: none"> <li>13.5-inch diagonal, 3K2K (3000 x 2000), OLED, multitouch-enabled, UWVA, edge-to-edge glass, micro-edge, BrightView, anti-reflection Corning® Gorilla® Glass NBT™, 400 nits, 100% DCI-P3, 1,000,000:1<sup>(20)</sup></li> </ul>
<b>Screen to body ratio</b>	<ul style="list-style-type: none"> <li>90%<sup>(40)</sup></li> </ul>
<b>Wireless connectivity</b>	<ul style="list-style-type: none"> <li>Intel® Wi-Fi 6 AX201 (2x2)<sup>(19a)</sup> and Bluetooth® 5 combo<sup>(25)</sup> (Supporting Gigabit file transfer speeds)<sup>(7)</sup></li> <li>MU-MIMO supported</li> </ul>
<b>Digital media</b>	<ul style="list-style-type: none"> <li>MicroSD and Nano-SIM combo</li> </ul>
<b>Sound</b>	<ul style="list-style-type: none"> <li>Audio by Bang &amp; Olufsen with quad speakers</li> </ul>
<b>Integrated keyboard</b>	<ul style="list-style-type: none"> <li>Full-size, backlit, nightfall black keyboard</li> <li>HP Imagepad with multi-touch gesture support</li> </ul>
<b>External notebook ports</b>	<ul style="list-style-type: none"> <li>2 Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge)<sup>(42)(50)(51)(59)(64)</sup></li> <li>1 SuperSpeed USB Type-A 10Gbps signaling rate (HP Sleep and Charge)<sup>(64)</sup></li> <li>1 Headphone/microphone combo</li> </ul>
<b>Dimensions</b>	<ul style="list-style-type: none"> <li><b>Unpackaged:</b> 11.75 in (W) x 8.67 in (D) x 0.67 in (H)</li> <li><b>Packaged:</b></li> </ul>
<b>Weight</b>	<ul style="list-style-type: none"> <li><b>Unpackaged:</b> 3.00 lb<sup>(76)</sup></li> <li><b>Packaged:</b> 6.64 lb</li> </ul>
<b>What's in the box</b>	<ul style="list-style-type: none"> <li>HP Rechargeable MPP2.0 Tilt Pen in nightfall black</li> <li>Protective sleeve</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>Fingerprint reader</li> <li>All-in-One Keyboard: Support power button, HP Command Center hotkey, Camera Shutter key, Mic Mute key, and fingerprint reader in keyboard area.</li> </ul>
<b>Power</b>	<ul style="list-style-type: none"> <li>4-cell 66 Wh Li-ion polymer</li> <li>65 W USB Type-C® power adapter<sup>(42)</sup></li> </ul>
<b>Battery life</b>	<ul style="list-style-type: none"> <li>Up to 10 hours and 30 minutes (mixed usage)<sup>(85)</sup></li> <li>Up to 12 hours and 15 minutes (video playback)<sup>(75)</sup></li> </ul>
<b>Warranty and support</b>	<ul style="list-style-type: none"> <li>1-year limited hardware warranty. Additional information available at <a href="http://www.support.hp.com">www.support.hp.com</a><sup>(9)</sup></li> <li>1-year limited technical support for software and initial setup (from date of purchase)<sup>(53)</sup></li> </ul>

## Learn more at [hp.com](http://hp.com)

<sup>(1)</sup> 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 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See [microsoft.com](http://microsoft.com) <sup>(2a)</sup> 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. <sup>(2b)</sup> Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See [intel.com/technology/turboboost](http://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. <sup>(7)</sup> Wi-Fi supporting gigabit speeds is achievable when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 160MHz channels. <sup>(8)</sup> 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. <sup>(9)</sup> Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. <sup>(14)</sup> Shared video memory (UMA) uses part of the total system memory for video performance. System memory dedicated to video performance is not available for other use by other programs. <sup>(19)</sup> Wireless access point and Internet access required and not included. Availability of public wireless access points is limited. <sup>(19a)</sup> Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other Wi-Fi 6 devices. Only available in countries where 802.11ax is supported. <sup>(19b)</sup> Based on Wi-Fi 5 80MHz and Wi-Fi 6 160MHz minimum requirements when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 802.11ax (Wi-Fi 6). Only available in countries where 802.11ax is supported. <sup>(20)</sup> All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. <sup>(22)</sup> New Dropbox users are eligible to get 25 GB of Dropbox space free for 12 months from date of registration. For complete details and terms of use, including cancellation policies, visit the Dropbox website at [dropbox.com](http://dropbox.com). <sup>(23)</sup> Detects BIOS damage and recovers last settings. <sup>(24)</sup> Bluetooth® is a trademark owned by its proprietor and used by Hewlett-Packard Company under license. <sup>(27)</sup> Based on U.S. EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit [www.epeat.net](http://www.epeat.net) for more information. <sup>(40)</sup> Percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk. <sup>(42)</sup> USB Type-C® and USB-C® are trademarks of USB Implementers Forum. <sup>(50)</sup> DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. <sup>(51)</sup> Thunderbolt is a trademark of Intel Corporation or its subsidiaries in the U.S. and/or other countries. <sup>(53)</sup> Call 1.800.474.6836 or [support.hp.com](http://support.hp.com) for more information on Care Packs available after standard warranty expires. After standard warranty expires, an incident fee may apply. <sup>(55)</sup> Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system. <sup>(59)</sup> For more information visit [hp.com/go/hpsupportassistant](http://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. <sup>(58b)</sup> Based on HP internal testing using CrystalDiskMark benchmarking software. Performance is sequentially faster (read only) compared to traditional 5,400 rpm HDD. <sup>(59)</sup> SuperSpeed USB 20Gbps is not available. <sup>(60)</sup> Some features including voice supported Cortana, inking, and Continuum require Windows 10 and more advanced hardware. See [windows.com](http://windows.com). Apps and pen sold separately. <sup>(61)</sup> External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen. <sup>(62)</sup> ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency. <sup>(64)</sup> For best results with HP Sleep and Charge, use a USB charging protocol standard cable or cable adapter with an external device. <sup>(66)</sup> Alexa home supported devices are not included and must be purchased separately. <sup>(75)</sup> Battery life tested by HP using continuous FHD video playback, 1080p (1920x1080) resolution, 150 nits brightness, system audio level at 17%, player audio level at 100%, played full-screen from local storage, headphone attached, wireless on but not connected. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage. <sup>(76)</sup> Weight and system dimensions may fluctuate due to configuration and manufacturing variances. <sup>(78)</sup> Recharges your battery up to 50% within 45 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. <sup>(85)</sup> Windows 10 MobileMark 18 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See [bapco.com/products/mobilemark-2018/](http://bapco.com/products/mobilemark-2018/) for additional details. <sup>(89)</sup> Features may require software or other 3rd party applications to provide the described functionality. Internet service required and not included. Actual product may vary from image shown on datasheet. © Copyright 2020 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. All other trademarks are property of their respective owners. 09/30/2020\_r2 kc

## Software

<b>HP help and support</b>	<ul style="list-style-type: none"> <li><b>myHP:</b> 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.</li> <li><b>HP BIOS Protection:</b> Get peace of mind knowing your PC BIOS is protected. HP BIOS Protection automatically checks its health and recovers itself.<sup>(23)</sup></li> <li><b>HP Support Assistant:</b> Included with your computer, this free self-help tool makes it easier than ever to get help with your HP PC and printers.<sup>(54)</sup></li> </ul>
<b>Books, music, photos and videos</b>	<ul style="list-style-type: none"> <li><b>HP Display Control – Auto Color:</b> HP Display Control lets you choose a color space preset for true color accuracy when web browsing, editing photos or watching videos. The new Auto Color setting will select the best color space automatically based on the application you're using.</li> <li><b>Netflix:</b> Watch movies and TV on your PC with subscription.<sup>(9)</sup></li> </ul>
<b>Productivity and tools</b>	<ul style="list-style-type: none"> <li><b>Adaptive Battery Optimizer:</b> Protect battery health and bring peace of mind for uninterrupted productivity and entertainment with automatic checks on battery temperature, charging status, and usage time.</li> <li><b>Adaptive Color:</b> Easy on the eyes - Adaptive Color automatically adjusts display color and brightness based on your environment for more comfortable viewing. To ease eye strain, the display shows a cooler light when it's daytime and gets warmer when the sun goes down.</li> <li><b>Smart Sense:</b> Smart Sense in HP Command Center switches between modes to optimize your laptop's performance based on what you're doing and where the laptop is placed. Performance, external temperature, and fan noise adapt automatically for the best setting.</li> <li><b>Amazon Alexa voice service:</b> Hands-free access to Amazon Alexa on your PC, including more than 50K skills.<sup>(66)</sup></li> <li><b>HP QuickDrop:</b> 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.<sup>(9)</sup></li> <li><b>HP Audio Switch:</b> Easily switch between speaker and microphone sources with intuitive controls and a consistent app experience.</li> <li><b>HP Command Center:</b> Customize performance, fan speed and noise, and external temperature—all to meet your needs.</li> <li><b>HP Connection Optimizer:</b> Get consistent and reliable Wi-Fi performance with software that automatically switches between the most efficient wireless access points.<sup>(9)</sup></li> <li><b>Dropbox cloud storage:</b> Store and synchronize your content online with Dropbox. Get 25GB of storage for one year to access, manage, and share your photos, music, and files from anywhere with Internet access.<sup>(9)(22)</sup></li> </ul>
<b>Security and protection</b>	<ul style="list-style-type: none"> <li><b>Fingerprint reader:</b> Securely log in with a touch of your finger.</li> <li><b>McAfee LiveSafe™:</b> Protect your operating system with a free 30-day McAfee LiveSafe™ trial.<sup>(8)</sup></li> </ul>
<b>Additional Information</b>	
<b>Product number</b>	<ul style="list-style-type: none"> <li>1H9MOUA#ABA</li> </ul>
<b>Ad embargo date</b>	<ul style="list-style-type: none"> <li>11/29/2020</li> </ul>
<b>UPC Code</b>	<ul style="list-style-type: none"> <li>195122364649</li> </ul>
<b>Country of origin</b>	<ul style="list-style-type: none"> <li>China</li> </ul>
<b>Pallet information</b>	<ul style="list-style-type: none"> <li><b>Dimensions:</b></li> <li><b>Total weight:</b> 392.50 lb</li> <li><b>Layers:</b> 3</li> <li><b>Products per layer:</b> 18</li> </ul>
<b>Battery regulatory data</b>	<ul style="list-style-type: none"> <li><b>Transportation or storage regulations:</b> Y</li> <li><b>UN# and proper shipping name:</b> UN3481 - Lithium ion batteries packed with equipment</li> <li><b>Number of batteries:</b> 1</li> <li><b>Primary battery regulated material:</b> 275g</li> <li><b>Primary battery watt hours:</b> 64.5</li> <li><b>Applicable CPSC regulations:</b> N</li> </ul>

