

# HP Spectre 13-af012dx



**Sleek. Powerful. Built for concrete jungles.**

By bringing powerful performance and a stunning FHD<sup>(39)</sup> touchscreen to a seductively thin and exceptionally crafted design the Spectre laptop is almost too good to be true.

## Product overview

- **The art of power:** As elegant as it is unprecedented, the ultra-thin Spectre Laptop fuses up to 11 hours and 15 minutes of mixed usage battery life with HP Fast Charge, and an 8th Gen Intel® Core™ i Quad Core processor for remarkable performance.<sup>(70)(74)</sup>
- **Seductive craftsmanship:** Exceptionally crafted, this masterfully sculpted chassis with a hidden hinge and full size keyboard is finished in stunning ceramic white metal with pale gold accents.
- **Over Two-Million pixels. Noticeably eye-opening.** Rethink the way you experience your content with a nearly borderless 13.3-inch diagonal, FHD touch display finished with Corning® Gorilla® Glass NBT™ and audio by Bang & Olufsen.<sup>(39)</sup>

## Key specifications

- **Operating system:** Windows 10 Home<sup>(1)</sup>
- **Processor:** 8th Generation Intel® Core™ i7-8550U Processor<sup>(22)</sup>
- **Display:** 13.3-inch diagonal FHD<sup>(39)</sup> IPS micro-edge WLED-backlit touch screen with Corning® Gorilla® Glass NBT™ (1920 x 1080)
- **Memory:** 8 GB LPDDR3 SDRAM (onboard)
- **Internal storage:** 256 GB PCIe® NVMe™ M.2 Solid State Drive<sup>(15)</sup>
- **Graphics:** Intel® UHD Graphics 620 with up to 4166 MB total graphics memory<sup>(14)</sup>
- **Audio:** Bang & Olufsen with dual speakers
- **Battery life:**
  - Up to 11 hours and 15 minutes (mixed usage)<sup>(70)</sup>
  - Up to 11 hours and 30 minutes (video playback)<sup>(75)</sup>
- **Wireless:** 2x2 802.11ac WLAN<sup>(19a)</sup> and Bluetooth<sup>(26)</sup>
- **Webcam:** Front-facing HP TrueVision HD IR Webcam with integrated dual array digital microphones<sup>(89)</sup>
- **Product weight:** 2.45 lb<sup>(76)</sup>
- **Keyboard:** Full-size island-style backlit keyboard

## Product features

- **Windows 10 Home:** Do great things with Windows Hello and Cortana.<sup>(1)(60)</sup>
- **8th generation Intel® Core™ i processor:** Upgrade performance with smooth responsiveness, and stream premium content or even create your own.
- **Intel® UHD Graphics 620:** Smoothly stream content and play your favorite games.
- **PCIe SSD storage:** Get up to 17x faster performance than a traditional laptop hard drive.<sup>(58)</sup>
- **Full HD IPS touchscreen:** Control your entertainment right from the screen and get crystal-clear quality with 178° wide-viewing angles.
- **Micro-edge display:** The barely visible bezel revolutionizes your display by letting a larger screen fit into a smaller frame.
- **Corning® Gorilla® Glass NBT™:** With strong, more durable protection, Corning® Gorilla® Glass NBT™ displays stand up to everyday bumps and scrapes.
- **Rock-solid connections:** With the latest 802.11 a/c (2x2) WLAN adapter and Bluetooth® 4.2, all your connections are rock solid and up to 6 times faster than 802.11n 1x1.<sup>(18)(19a)(26)</sup>
- **HP Fast Charge:** Go from 0 to 50% charge in approximately 30 minutes.<sup>(72)</sup>
- **USB-C™ Thunderbolt:** Charge, connect a display, or transfer data at a blazing 40Gbs.<sup>(41)(42)</sup>
- **HP USB Sleep and Charge:** Charge your smartphone, tablet, and other devices from your laptop while it's asleep or hibernating.
- **Hidden coaxial hinge:** Drawing inspiration from high-end cabinetry, the hidden coaxial hinge was designed to fold flush, almost disappearing from view.

## Additional product features

- **Sleek design:** Easily take this thin and light PC from room to room or on the road.
- **Full sized island style backlit keyboard:** Keep going comfortably even in darker environments.
- **HP TrueVision FHD IR camera:** Log in safely through Windows Hello and video chat with an 88-degree wide-angle field of view.<sup>(69)</sup>
- **Experience the advanced digital assistant, Cortana:** Utilize dual microphones and HP premium speakers to help become more productive with Cortana, and HP collaboration and conferencing solutions.<sup>(60)</sup>
- **Leave passwords behind:** Say hello to a new way to securely login without passwords using Windows Hello.
- **Dropbox cloud storage:** If you don't have it today, sign up to get 25 GB of Dropbox space free for 12 months with your HP device.<sup>(22)</sup>
- **McAfee LiveSafe™:** Protect your operating system with a free 30-day McAfee LiveSafe™ trial.<sup>(6)</sup>

## 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 laptop that meets strict energy-efficiency and helps reduce your carbon footprint.

- ENERGY STAR® certified<sup>(62)</sup>
- EPEAT® Silver registered<sup>(27)</sup>
- Low Halogen<sup>(61)</sup>
- Mercury-free display backlights
- Arsenic-free display glass
- All HP computing products are delivered by SmartWay carriers.<sup>(63)</sup>
- Recycled Packaging: Count on easy recycling every time. HP designs products and packaging that can be conveniently recycled or reused.<sup>(31)</sup>

## 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:** Complimentary Limited Technical Support, including initial setup support, is available from HP via multiple contact methods for 90 (ninety) days from date of purchase.

### 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)(57)</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 Forum at [hp.com/go/supportforum](http://hp.com/go/supportforum), on Twitter at [twitter.com/HPsupport](https://twitter.com/HPsupport), and Facebook at [facebook.com/HPsupport](https://facebook.com/HPsupport).<sup>(9)</sup>



BANG & OLUFSEN AUDIO



## Specifications

<b>Operating system</b>	• Windows 10 Home <sup>(1)</sup>
<b>Processor</b>	• 8th Generation Intel® Core™ i7-8550U Processor <sup>(2b)</sup> • Quad-Core
<b>Processor speed</b>	• 1.8 GHz base frequency, up to 4 GHz with Intel® Turbo Boost <sup>(2b)(2g)</sup>
<b>Processor cache</b>	• 8 MB cache
<b>Memory</b>	• 8 GB LPDDR3 SDRAM (onboard)
<b>Accessible memory slots</b>	• Memory slot not user accessible
<b>Video graphics</b>	• Intel® UHD Graphics 620 with up to 4166 MB total graphics memory <sup>(14)</sup>
<b>Internal storage</b>	• 256 GB PCIe® NVMe™ M.2 Solid State Drive <sup>(15)</sup>
<b>Finish and features</b>	• HP soft matte finish in ceramic white with pale gold accents • Front-facing HP TrueVision HD IR Webcam with integrated dual array digital microphones <sup>(99)</sup>
<b>Display</b>	• 13.3-inch diagonal FHD <sup>(39)</sup> IPS micro-edge WLED-backlit touch screen with Corning® Gorilla® Glass NBT™ (1920 x 1080)
<b>Wireless connectivity</b>	• 2x2 802.11ac WLAN <sup>(19a)</sup> and Bluetooth® <sup>(26)</sup>
<b>Audio</b>	• Bang & Olufsen with dual speakers
<b>Keyboard</b>	• Full-size island-style backlit keyboard
<b>Pointing device</b>	• HP Imagepad with multi-touch gesture support
<b>External notebook ports</b>	• 2 Thunderbolt™ 3 (Data up to 40Gb/s, Power Delivery, DisplayPort™ 1.2, HP Sleep and Charge) <sup>(41)(50)</sup> • 1 USB Type-C™ 3.1 Gen 1 (Data up to 5Gb/s, Power Delivery, DisplayPort™ 1.2, HP Sleep and Charge) <sup>(41)(42)(50)</sup> • 1 Headphone-out/microphone-in combo jack
<b>Dimensions</b>	• <b>Unpackaged:</b> 0.41 in (H) x 12.13 in (W) x 8.86 in (L) • <b>Packaged:</b> 13.58 in (H) x 5.12 in (W) x 17.01 in (L)
<b>Weight</b>	• <b>Unpackaged:</b> 2.45 lb <sup>(76)</sup> • <b>Packaged:</b> 6.61 lb
<b>Power</b>	• 65W AC adapter • 4-cell 43.7 Whr lithium-ion polymer
<b>Battery life</b>	• Up to 11 hours and 15 minutes (mixed usage) <sup>(70)</sup> • Up to 11 hours and 30 minutes (video playback) <sup>(75)</sup>
<b>Warranty and support</b>	• 1-year limited hardware warranty. Additional information available at <a href="http://www.support.hp.com">www.support.hp.com</a> <sup>(9)</sup> • 90 days limited technical support for software and initial setup (from date of purchase) <sup>(53)</sup>

## 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 <http://www.microsoft.com> <sup>(2b)</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 is not a measurement of higher performance. Intel, Pentium, Intel Core, Celeron, Intel logo and the Intel Inside logo are trademarks of Intel Corporation in the U.S. and other countries. <sup>(2g)</sup> Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost/> for more information. <sup>(9)</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>(9a)</sup> Internet access required and not included. 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>(15)</sup> Actual formatted capacity is less. Portion of internal storage is reserved for preloaded content. <sup>(19)</sup> Based on HP internal testing with MP4 playing, clamshell mode, 3 meter distance from wireless access point. Actual results may vary. <sup>(19a)</sup> Wireless access point and Internet service required. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the PC to communicate with other 802.11ac WLAN devices. <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 [www.dropbox.com](http://www.dropbox.com). Internet service required and not included. <sup>(26)</sup> Bluetooth® is a trademark owned by its proprietor and used by HP Inc. under license. <sup>(27)</sup> EPEAT® Silver registered where applicable. EPEAT registration varies by country. See [www.epeat.net](http://www.epeat.net) for registration status by country. <sup>(31)</sup> Free recycling in select countries. Program may not be available in your area. Check [www.hp.com/go/recycling](http://www.hp.com/go/recycling) to see if HP offers free recycling in your area. <sup>(39)</sup> Full High Definition (FHD) content is required to view FHD images. <sup>(41)</sup> Transfer rate may vary. All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. <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>(53)</sup> Call 1.800.474.6836 or [www.support.hp.com](http://www.support.hp.com) for more information on Care Packs available after 90 days. After 90 days, an incident fee may apply. <sup>(56)</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 available for Android and Windows based PCs. <sup>(57)</sup> Internet connection required for updating and connecting to HP Support. <sup>(58)</sup> Based on HP internal testing using CrystalDiskMark benchmarking software. Performance is sequentially faster (read only) compared to traditional 5,400 rpm HDD. <sup>(60)</sup> Some features including voice supported Cortana, inking, and Continuum require Windows 10 and more advanced hardware. See [www.windows.com](http://www.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>(63)</sup> Designation based on actions to reduce transportation-related emissions. <sup>(70)</sup> Windows 10 MM14 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 <http://www.bapco.com> for additional details. <sup>(72)</sup> 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. <sup>(74)</sup> Recharges your battery up to 90% within 90 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 90% capacity, charging speed will return to normal speed. Charging time may vary +/-10% due to System tolerance. <sup>(75)</sup> Tested by HP using continuous video playback, 150 nits brightness, system audio level at 50%, player audio level at 100%, played using a Full HD 1080p video stored locally, headphone attached, wireless off, auto dimming off. 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>(99)</sup> Requires an Internet connection, not included, to an HP web-enabled printer and HP ePrint account registration. For complete details, see [www.hp.com/go/mobileprinting](http://www.hp.com/go/mobileprinting) <sup>(99)</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. © Copyright 2017 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 the property of their respective owners. 09/18\_r6 tq

## Software

<b>HP help and support</b>	• <b>HP ePrint:</b> Wirelessly print from anywhere, anytime, on any HP ePrint-enabled printer. <sup>(85a)</sup> • <b>HP Jumpstart:</b> When you boot up your PC for the first time, get a personal walkthrough during the setup and get an informative overview of your PC's features. • <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>(56)(57)</sup>
<b>Books, music, photos and videos</b>	• <b>Netflix:</b> Watch movies and TV online with subscription. <sup>(9)</sup>
<b>Productivity and tools</b>	• <b>HP SureConnect 2.0:</b> Get consistent and reliable Wi-Fi performance with software that automatically switches between the most efficient wireless access points. <sup>(9)</sup> • <b>Dropbox:</b> Keep your files safe, synced, and easy to share with Dropbox. If you don't have it today, sign up to get 25 GB of Dropbox space free for 12 months to save and access your photos, docs, and videos across all your devices. <sup>(22)</sup> • <b>HP Audio Switch:</b> Easily switch between speaker and microphone sources with intuitive controls and a consistent app experience. • <b>HP Recovery Manager:</b> Recover, restore, and create recovery media for your PC.
<b>Security and protection</b>	• <b>McAfee LiveSafe™:</b> Protect your operating system with a free 30-day McAfee LiveSafe™ trial. <sup>(6)</sup>

## Additional Information

<b>Product number</b>	• 2LU84UA#ABA
<b>Ad embargo date</b>	• 10/29/2017
<b>UPC Code</b>	• 192018001275
<b>Country of origin</b>	• China
<b>Tariff number</b>	• 8471300000
<b>Pallet information</b>	• <b>Dimensions:</b> 42.70 in (H) x 39.37 in (W) x 47.24 in (L) • <b>Total Pallet Weight:</b> 390.90 lb • <b>Layers:</b> 6 • <b>Products per layer:</b> 18
<b>Battery regulatory data</b>	• <b>Transportation or storage regulations:</b> Y • <b>UN# and proper shipping name:</b> UN3481 - Lithium ion batteries packed with equipment • <b>Number of batteries:</b> 1 • <b>Primary battery regulated material:</b> 190g • <b>Primary battery watt hours:</b> 43.70 • <b>Applicable CPSC regulations:</b> N

