

OMEN X 2S Laptop 15-dg0010nr



World's first dual-screen gaming laptop

You've never seen a laptop like this. Sleek, powerful, and equipped with a revolutionary, dual-screen lighting design, the OMEN X Crossfade 15 Laptop lets you game at your best and multitask like a true master.

Product overview

- **Revolutionary dual-screen design:** With an industry-first 6-inch 1080p touchscreen display mounted above keyboard, reap the benefits of a dual-monitor setup and interact with apps like Twitch, Discord, Spotify, and OMEN Command Center during gameplay.
- **Max settings. Any setting.** With a 9th generation Intel® Core™ processor and NVIDIA® GeForce graphics, feel free to crank up the settings everywhere you go.
- **Edge-to-edge immersion:** 1080p resolution at 144Hz refresh rate delivers crisp gameplay on a micro-edge bezel display.⁽⁷⁾⁽¹⁵⁾⁽³⁾
- **Ultra-thin, performance-driven design:** Ultra-thin design with advanced thermal cooling solution, customizable RGB lighting, and single-panel access to internals.

Key specifications

- **Operating system:** Windows 10 Home⁽¹⁾
- **Processor:** Intel® Core™ i7-9750H⁽²⁾⁽³⁾
- **Display:** 15.6-inch diagonal FHD⁽³⁾⁽⁹⁾ 144 Hz IPS anti-glare micro-edge WLED-backlit (1920 x 1080) 5.98-inch diagonal FHD⁽³⁾⁽⁹⁾ IPS BrightView micro-edge WLED-backlit multitouch-enabled edge-to-edge glass (1920 x 1080)
- **Memory:** 16 GB DDR4-2666 SDRAM (2 x 8 GB)
- **Internal storage:** 512 GB PCIe® NVMe™ M.2 Solid State Drive^{(1)(5)(6a)}
- **Graphics:** NVIDIA® GeForce® RTX 2070 with Max-Q design (8 GB GDDR6 dedicated)^{(1)(3)(6a)}
- **Sound:** Bang & Olufsen with dual speakers
- **Battery life:** Up to 4 hours and 15 minutes (mixed usage)⁽⁷⁾⁽⁹⁾ Up to 3 hours (video playback)⁽⁷⁾⁽⁹⁾ Up to 2 hours and 45 minutes (wireless streaming)⁽⁸⁾⁽⁹⁾
- **Wireless:** Intel® Wireless-AC 9560 802.11 b/g/n/ac (2x2) Wi-Fi^{(1)(9a)} and Bluetooth® 5 Combo (Supporting gigabit file transfer speeds)⁽⁷⁾⁽¹²⁾⁽²⁾ (MU-MIMO supported)
- **Camera:** HP Wide Vision HD Camera with integrated dual array digital microphone⁽⁶⁾⁽⁹⁾
- **Product weight:** 5.24 lb⁽⁷⁾⁽⁹⁾
- **Keyboard:** Full-size island-style shadow black RGB backlit keyboard

Product features

- **Windows 10 Home:** Do great things confidently with the familiar feel of Windows - only better.⁽¹⁾
- **First-in-class gaming integrated display:** Double your performance with DRX Integrated display. Experience full screen gaming and real-time multimedia streaming.
- **NVIDIA® GeForce® RTX 2070 graphics:** The all-new NVIDIA® Turing™ architecture with breakthrough ray tracing technology brings the future of gaming with incredible realism and performance.
- **9th generation Intel® Core™ processor:** Experience a breakthrough in processor performance that delivers incredible in-game experiences and enables crisp, simultaneous live-streaming.
- **Advanced thermal management:** Optimized thermal design and IR sensor keeps your laptop cool to touch, without affecting acoustics.
- **NVIDIA® G-SYNC™:** By synchronizing the refresh rates of your GPU and display, NVIDIA® G-SYNC™ technology delivers gameplay that's sharp, fluid, and stutter-free with minimal input lag.
- **Sleek design:** Easily take this thin and light PC from room to room or on the road.
- **144Hz Full HD anti-glare display:** Power the latest games in 1080p and up to 144fps for fast, smooth visuals.⁽²⁾⁽¹⁰⁾⁽⁹⁾
- **Micro-edge display:** The barely visible bezel revolutionizes your display by letting a larger screen fit into a smaller frame.

Additional product features

- **Full-size RGB mechanical keyboard:** This mechanical keyboard with 2.5mm travel features RGB backlighting, programmable macros, and 9 distinct keyboard animations.
- **RGB lighting effects:** Customize your OMEN X 2S RGB LED lighting effects through OMEN Command Center. You can set a single color or the pre-programmed lighting animations.
- **DTS:X® Ultra Technology:** Authentic, spatially accurate 3D sound to provide the best entertainment experience.
- **An exceptionally rich audio experience:** HP Dual Speakers, HP Audio Boost, and expert tuning by Bang & Olufsen bring audio perfection to your PC.
- **Single access panel:** Easy access to your PC's internals make upgrades and maintenance simple.
- **Rock-solid connections:** With the latest 802.11 a/c (2x2) Wi-Fi adapter and Bluetooth® 5, all your connections are rock solid and up to 6 times faster than 802.11n 1x1.^{(1)(8)(19a)(25)}
- **Gigabit Wi-Fi:** Ultra-fast Wi-Fi supporting gigabit speeds.^{(7)(19a)}
- **MU-MIMO supported:** Pair with a MU-MIMO router for a smoother online experience in multi-device homes.
- **DDR4-2666 RAM:** With its higher bandwidth, everything from multi-tasking to playing games gets a performance boost.
- **PCIe® NVMe™ SSD storage:** Get up to 30x faster performance than a traditional hard drive.^{(5)(6a)}
- **McAfee LiveSafe™:** Protect your operating system with a free 30-day McAfee LiveSafe™ trial.⁽⁸⁾

Energy efficiency your way

HP is committed to global citizenship and environmental responsibility. Do the environment—and your wallet—favor when you use the OMEN X 2S Laptop that meets strict energy-efficiency and helps reduce your carbon footprint.

- ENERGY STAR® certified⁽⁶⁾⁽²⁾
- Low Halogen⁽⁶⁾⁽¹⁾
- 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.⁽⁵⁾⁽⁶⁾
- **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 hp.com/go/community, on Twitter at twitter.com/HPSupport, and Facebook at facebook.com/HPSupport.⁽⁹⁾

Extend your coverage:

- **SmartFriend, part of HP Care:** Experts are available 24/7 to handle any tech issue, on any device, from any brand. Visit www.hp.com/go/smartfriend to learn more or call toll-free 1-844-814-1800 to get started.⁽⁹⁾⁽⁵⁾
- **Care Packs, part of HP Care:** Extend protection beyond the standard limited warranty. For more info, visit www.hp.com/go/carepack-services or call toll-free at 1-877-232-8009.⁽⁸⁾⁽³⁾



AUDIO BY
BANG & OLUFSEN

Specifications

Operating system	• Windows 10 Home ⁽¹⁾
Processor	• Intel® Core™ i7-9750H ^(2b) • 6-Core
Processor speed	• 2.6 GHz base frequency, up to 4.5 GHz base with Intel® Turbo Boost Technology ^(2d)
Processor cache	• 12 MB cache
Memory	• 16 GB DDR4-2666 SDRAM (2 x 8 GB)
Accessible memory slots	• 2
Video graphics	• NVIDIA® GeForce® RTX 2070 with Max-Q design (8 GB GDDR6 dedicated) ^{(1)(3)(6a)}
Internal storage	• 512 GB PCIe® NVMe™ M.2 Solid State Drive ^{(1)(3)(6a)}
Finish and features	• Top cover: Shadow black metal • Keyboard deck: Shadow black aluminum with a sandblasted finish
Camera	• HP Wide Vision HD Camera with integrated dual array digital microphone ^(6b)
Display	• 15.6-inch diagonal FHD ⁽⁹⁾ 144 Hz IPS anti-glare micro-edge WLED-backlit (1920 x 1080) • 5.98-inch diagonal FHD ⁽⁹⁾ IPS BrightView micro-edge WLED-backlit multitouch-enabled edge-to-edge glass (1920 x 1080)
Network card	• Integrated 10/100/1000 GbE LAN ^(2f)
Wireless connectivity	• Intel® Wireless-AC 9560 802.11 b/g/n/ac (2x2) Wi-Fi ^{(1)(9a)} and Bluetooth® 5 Combo (Supporting gigabit file transfer speeds) ^{(1)(7)(2f)} (MU-MIMO supported)
Sound	• Bang & Olufsen with dual speakers
Integrated keyboard	• Full-size island-style shadow black RGB backlit keyboard and Touchpad with multi-touch gesture support • Additional keyboard features: NKRO, anti-ghosting key technology
External notebook ports	• 1 USB 3.1 Gen 2 Type-C™ with Thunderbolt™ 3 (40 Gb/s signaling rate, Power Delivery 3.0, DisplayPort™ 1.4, HP Sleep and Charge) ⁽⁴⁾⁽²⁾⁽⁵⁾⁽³⁾ • 3 USB 3.1 Gen 1 Type-A (HP Sleep and Charge) • 1 HDMI • 1 AC smart pin • 1 RJ-45 • 1 Headphone/microphone combo (DTS: X® Ultra) ⁽⁴⁾⁽⁷⁾ • 1 Microphone in
Dimensions	• Unpackaged: 14.26 in (W) x 10.30 in (D) x 0.77 in (H) • Packaged:
Weight	• Unpackaged: 5.24 lb ⁽⁷⁾⁽⁵⁾ • Packaged: 11.60 lb
Power	• 6-cell 72 Wh Li-ion polymer • 230W AC adapter
Battery life	• Up to 4 hours and 15 minutes (mixed usage) ⁽⁷⁾⁽⁷⁾ • Up to 3 hours (video playback) ⁽⁷⁾⁽⁵⁾ • Up to 2 hours and 45 minutes (wireless streaming) ^(6b)
Warranty and support	• 1-year limited hardware warranty. Additional information available at www.support.hp.com ⁽⁹⁾ • 90 days limited technical support for software and initial setup (from date of purchase) ⁽⁵⁾⁽³⁾

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 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> ^(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 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. ^(2b) Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost/> for more information. ^(2c) 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. ^(2d) 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. ^(2e) Internet service required and not included. Availability of public wireless access points limited. ^(2f) NVIDIA, GeForce, Surround, and the NVIDIA logo are trademarks and/or registered trademarks of NVIDIA Corporation in the U.S. and other countries. ⁽³⁾ Actual formatted capacity is less. Portion of internal storage is reserved for preloaded content. ⁽⁴⁾ Based on HP internal testing with MP4 playing, clamshell mode, 3 meter distance from wireless access point. Actual results may vary. ⁽⁵⁾ Wireless access point and Internet service required. Availability of public wireless access points limited. The specifications for the 802.11ac Wi-Fi 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 Wi-Fi devices. ⁽⁶⁾ All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. ⁽⁷⁾ 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. Internet service required and not included. ⁽⁸⁾ Detects BIOS damage and recovers last settings. ⁽⁹⁾ Bluetooth® is a trademark owned by its proprietor and used by Hewlett-Packard Company under license. ^(9a) Actual speeds may vary. ^(9b) Full High Definition (FHD) content is required to view FHD images. ^(9c) USB Type-C™ and USB-C™ are trademarks of USB Implementers Forum. ^(9d) 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. ^(9e) DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. ^(9f) Call 1.800.474.6836 or www.support.hp.com for more information on Care Packs available after 90 days. After 90 days, an incident fee may apply. ^(9g) For more information visit <http://www.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. ^(9h) Based on HP internal testing using CrystalDiskMark benchmarking software. Performance is sequentially faster (read only) compared to traditional 5,400 rpm HDD. ⁽⁹ⁱ⁾ External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen. ^(9j) ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency. ^(9k) NVIDIA® Max-Q Design can help reduce system heat and noise in thinner form factor PCs. Overall graphics performance may be lower than thicker graphics card alternatives that do not utilize Max-Q design. ^(9l) 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://bapco.com/products/mobilemark-2014/> for additional details. ^(9m) Battery life tested by HP using continuous FHD video playback, 1080p (1920x1080) resolution, 150 nits brightness, system 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. ⁽⁹ⁿ⁾ Weight and system dimensions may fluctuate due to configuration and manufacturing variances. ^(9o) Battery life tested by HP using continuous Netflix video playback, Windows 10 Netflix app, 150 nits brightness, system audio level 17%, headphone attached, played full-screen, wireless on. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage. ^(9p) Service levels and response times for Care Packs may vary depending on your geographic location. Restrictions and limitations apply. Service starts at date of hardware purchase. HP Care Packs are sold separately. For details, visit www.hp.com/go/carepack-services. ^(9q) Features may require software or other 3rd party applications to provide the described functionality. Internet service required and not included. ^(9r) HP SmartFriend will support any major brand of computer and tablet running Microsoft Windows, OSX, iOS, Android, and Chrome OS. 24x7 support is available in English and in the US & Canada (excluding the Province of Quebec) only. Service availability varies by country/region. Internet connection required for remote support. Remote support not available for tablets. Not all service plans cover support for tablets. HP SmartFriend sold separately or as an add-on feature. Actual product may vary from image shown on datasheet. © Copyright 2019 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. 06/07_r1 tq

Software

HP help and support	• HP BIOS Protection: Get peace of mind knowing your PC BIOS is protected. HP BIOS Protection automatically checks its health and recovers itself. ⁽⁹⁾⁽³⁾ • HP Jumpstart: 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. • 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. ^(6a)
Books, music, photos and videos	• OMEN Audio Control Support DTS:X® Ultra • Netflix: Watch movies and TV online with subscription. ⁽⁹⁾
Productivity and tools	• HP Audio Switch: Easily switch between speaker and microphone sources with intuitive controls and a consistent app experience. • OMEN Command Center: Enhance your dual-screen experience with adaptive touchscreen interface for endless in-game benefits. Dynamic Power automatically allocates CPU and GPU power for optimal performance, while Network Booster sends gaming network traffic to the front of the line. Personalize your machine's look with RGB lighting on the keyboard and chassis. • Dropbox: 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. ⁽²⁾⁽²⁾ • HP Connection Optimizer: Get consistent and reliable Wi-Fi performance with software that automatically switches between the most efficient wireless access points. ⁽⁹⁾
Security and protection	• McAfee LiveSafe™: Protect your operating system with a free 30-day McAfee LiveSafe™ trial. ⁽⁶⁾

Additional Information

Product number	• 6UA82UA#ABA
Ad embargo date	• 07/07/2019
UPC Code	• 193808873423
Country of origin	• China
Tariff number	• 8471300000
Pallet information	• Dimensions: 41.51 in (H) x 47.24 in (W) x 39.37 in (L) • Total weight: 590.80 lb • Layers: 3 • Products per layer: 16
Battery regulatory data	• Transportation or storage regulations: Y • UN# and proper shipping name: UN3481 - Lithium ion batteries packed with equipment • Number of batteries: 1 • Primary battery regulated material: 287g • Primary battery watt hours: 72 • Applicable CPSC regulations: N

