



OMEN X by HP 2S Laptop 15-dg0012na

Revolutionary dual-screen design in a gaming powerhouse

You've never seen a laptop like this. Sleek, powerful, and equipped with two displays for twice the advantage, the future of portable gaming starts here. The dual-screen design lets you game at fullscreen while keeping tabs on other applications on a second, keyboard-mounted display. No matter where the game takes you, this beast of a machine is designed to multiply your potential.



Revolutionary dual-screen design

Reap the benefits of a dual-monitor setup from anywhere with a 15.18 cm (5.98") 1080p touchscreen mounted above the keyboard. This second screen lets you display and interact with other applications like Twitch, Discord, Spotify, OMEN Command Center, and more – without interrupting gameplay.



Max settings. Any setting.

When it comes to raw power and performance, the OMEN X 15 Laptop makes no compromises. 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

Crisp gameplay is crucial if you want to play at your best. With a high resolution and fast refresh rate¹, on-screen visuals are swift and smooth, while a micro-edge bezel display delivers edge-to-edge immersion.



Ultra-thin, performance-driven design

Experience a sleek, ultra-thin design engineered with performance and customization at the forefront. With an advanced thermal cooling solution, RGB lighting across the chassis and keyboard, and single-panel access to internals for easy upgradeability, nothing stops you from playing at your best.



¹ All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

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Featuring

Windows 10

Do great things confidently with the familiar feel of Windows - only better.¹

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.

NVIDIA® GeForce® RTX 2080 graphics

Enjoy new levels of gaming realism, speed, power efficiency, and immersion with real-time ray-tracing technologies for cutting-edge, hyper-realistic graphics.

144Hz FHD anti-glare display

Reduce frustrating lag and image ghosting with a display that combines a 144Hz refresh rate and a 1080p resolution for smooth, crisp gameplay.²

HP Wide Vision FHD IR Camera

Easily log in through Windows Hello with the infrared sensor. With an 88-degree, wide-angle field of view, you can video chat with your entire family or group of friends in stunning detail.³

802.11 a/c (2x2) WLAN & Bluetooth® 5.0

Stay connected to Wi-Fi and to Bluetooth® accessories with wireless technology.⁴

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.

USB 3.1 connector

With the world's most popular USB connection, you can easily connect any of your existing USB devices and experience data transfer speeds ten times faster than USB 2.0.

Ethernet port

When you have a spotty wireless connection, you can quickly plug in your Ethernet cable to get a smooth, wired Internet experience that bypasses any wireless issue.

Sleek design

Easily take this thin and light PC from room to room or on the road. When your PC goes wherever you go, staying productive and entertained has never been easier.

Advanced thermal management

The latest in heat management brings you an optimized thermal design and IR sensor, which keeps your laptop cool to touch without affecting sound quality.

Micro Edge display

By squeezing a larger screen into a smaller frame, this ultra-thin, barely visible bezel revolutionizes your display's appearance with a beautifully efficient design.

An exceptionally rich audio experience

With HP Dual 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.

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>.

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

³ Features may require software or other 3rd party applications to provide the described functionality.

⁴ 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 laptop to communicate with other 802.11ac WLAN devices. Bluetooth® is a trademark owned by its proprietor and used by HP Inc. under license.

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Specifications

Performance

Operating system

Windows 10 Home 64

Processor

Intel® Core™ i9-9880H (2.3 GHz base frequency, up to 4.8 GHz base with Intel® Turbo Boost Technology, 16 MB cache, 8 cores)

Processor family: 9th Generation Intel® Core™ i9 processor ^{6,7}

Chipset

Intel® HM370

Memory

32 GB DDR4-2666 SDRAM (2 x 16 GB)

2 user-accessible memory slots; Transfer rates up to 2666 MT/s.

Storage

1 TB PCIe® NVMe™ M.2 SSD

Optical drive not included

Dropbox¹

Graphics

Discrete: NVIDIA® GeForce RTX™ 2080 (8 GB GDDR6 dedicated) ;

Powered by NVIDIA Turing™ GPU architecture

Audio

B&O; dual speakers; HP Audio Boost; Omen Audio Control Support DTS:X® Ultra

Display

39.6 cm (15.6") diagonal FHD 144 Hz IPS anti-glare micro-edge WLED-backlit (1920 x 1080);

15.18 cm (5.98") diagonal FHD IPS BrightView micro-edge WLED-backlit multitouch-enabled edge-to-edge glass (1920 x 1080)

Display Color Gamut

72% NTSC

Brightness(typical)

300 nits

Power

230 W AC power adapter;

Battery type

6-cell, 72 Wh Li-ion polymer;

287 g;

Battery and Power

Connectivity

Network interface

Integrated 10/100/1000 GbE LAN

Wireless connectivity

Intel® Wireless-AC 9560 802.11b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 Combo (Supporting Gigabit file transfer speeds)^{11,12}

MU-MIMO supported; Miracast compatible

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); 3 USB 3.1 Gen 1 Type-A (HP Sleep and Charge); 1 RJ-45; 1 headphone/microphone combo; 1 microphone; 1 AC smart pin

2 M.2 PCIe® x4

Webcam

HP Wide Vision HD Camera with integrated dual array digital microphone

Design

Product color

Shadow black

Sandblasted keyboard frame finish

Software

HP apps

OMEN Command Center; HP 3D DriveGuard; HP Audio Switch; HP JumpStart; HP Support Assistant

Software

Netflix; 1 month trial for new Microsoft Office 365 customers

Service & support

McAfee LiveSafe™ ²

Additional information

Part Number

P/N: 7JZ33EA #ABU

UPC/EAN code: 194441033380

Weight

2.46 kg;

Packed: 5.26 kg

Weight note (metric): Weight varies by configuration

Dimensions

36.21 x 26.17 x 2 cm;

Packed: 36.21 x 26.17 x 2 cm

Dimension note (metric): Measured in Z-height with 20 mm at the thinnest point and 20.8 mm at the center

Warranty

1 year limited parts, labour, and pickup and return service; You can expand the warranty coverage of your product to reach up to 3 years in total; for more information go to the "Options and accessories" web section on hp.com product pages.

Included accessories

USB Type-C™ to VGA adapter

Keyboard

Full-size island-style shadow black RGB backlit keyboard

Touchpad with multi-touch gesture support and NKRO Anti-Ghosting Key technology;

Precision Touchpad Support

Features

NVIDIA G-SYNC™ technology

Recommended accessories

* Not included.



OMEN by HP Mouse 600
1KF75AA



OMEN by HP Headset
800
1KF76AA



OMEN by HP Keyboard
1100
1MY13AA



PC Care pack

3-year pickup and return
UM963E

¹ 25 GB 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 www.dropbox.com. Internet service required and not included.

² McAfee LiveSafe 12-month free trial offer (Internet access required. First 12 months included. Subscription required for live updates afterwards.)

³ 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. Available on select HP products. See <http://store.hp.com> for a full list of product features.

⁴ 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.

⁵ Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost/> for more information.

⁶ 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 160 MHz channels.

⁷ Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited.

