

HyperX OMEN 15 inch Gaming Laptop PC



Key Experiences and Product Specs

Key Product Experiences

Performance on your terms: Total platform power up to 170W, powered by NVIDIA® GeForce RTX™ 50 Series GPUs and Intel® Core™ or AMD Ryzen™ processors that pushes your performance farther than ever thanks to OMEN Unleashed Mode, that allows you to manually overclock your device. Then with a single click, OMEN AI lets you play your favorite AAA games with optimized settings and maximizes your FPS without the hassle.

Never slow down: With OMEN Tempest Cooling, your HyperX OMEN 15 stays strong all day. Fan Cleaner keeps your laptop dust-free with no maintenance needed. To support your performance, OMEN 15's design features dual side fans with fewer rear ports, enlarged vents, and additional bottom vents to maximize airflow and heat dissipation.

Faster moves for when it matters: Sharper visuals help you follow the moment and with our refined QHD display you're getting a 3ms response time and 180Hz refresh rate for sharp, fluid movement or go OLED for bold contrast and rich colors. And combined with our newest 8000 Hz high polling rate keyboard that gives you the competitive edge with up to 34% faster inputs, for faster reaction times when you need to lock in.

Your style in RGB Colors: With up to a 4-zone RGB keyboard, you can customize each zone with its own lighting effect. Whether you want to match your lighting to your favorite game or to your mood, you can personalize it all in Light Studio through OMEN Gaming Hub.

OMEN AI redefines FPS optimization with a personalized, one-click solution tailored to each game, adjusting operating system settings, hardware settings and game settings eliminating the need for endless troubleshooting

Product Specs:

Operating System	Windows 11 Home
Processor(s) ^{[1][2]}	Intel® Core™ Ultra 9 386H/ Intel® AI Boost (50 NPU TOPS) ^[1] Intel® Core™ Ultra 7 356H/ Intel® AI Boost (50 NPU TOPS) ^[1] Intel® Core™ Ultra 9 275HX/ Intel® AI Boost (13 NPU TOPS) ^[1] Intel® Core™ Ultra 7 255HX/ Intel® AI Boost (13 NPU TOPS) ^[1] Intel® Core™ Ultra 5 235HX/ Intel® AI Boost (13 NPU TOPS) ^[1] Intel® Core™ Ultra 7 255H/ Intel® AI Boost (13 NPU TOPS) ^[1] Intel® Core™ Ultra 5 225H/ Intel® AI Boost (13 NPU TOPS) ^[1] Intel® Core™ 7 240H ^[1] Intel® Core™ 5 210H ^[1] Intel® Core™ i9-14900HX ^[1] Intel® Core™ i7-14650HX ^[1] Intel® Core™ i5-14500HX ^[1] Intel® Core™ i5-14450HX ^[1] Next gen Intel® Processor ^[1] Next Gen AMD Ryzen Processors ^[2]
Graphics	NVIDIA® GeForce RTX™ 5070 Laptop GPU (8 GB GDDR7 dedicated) NVIDIA® GeForce RTX™ 5060 Laptop GPU (8 GB GDDR7 dedicated) NVIDIA® GeForce RTX™ 5050 Laptop GPU (8 GB GDDR7 dedicated)
Memory	Dual channel memory support/ 2 user-accessible 32 GB DDR5-5600 MT/s 24 GB DDR5-5600 MT/s 16 GB DDR5-5600 MT/s 8 GB DDR5-5600 MT/s
Internal Storage	1 TB PCIe® Gen5 NVMe™ M.2 SSD 512 GB PCIe® Gen5 NVMe™ M.2 SSD 1 TB PCIe® Gen4 NVMe™ M.2 SSD 512 GB PCIe® Gen4 NVMe™ M.2 SSD
Display ^{[3][4][5][6]}	16:10 Aspect Ratio 38.9 cm (15.3") diagonal, 3K (2880 x 1800), OLED, up to 120 Hz, 0.2 ms response time, UWVA, micro-edge, BrightView, Low Blue Light, SDR 500 nits, HDR 1100 nits, 100% DCI-P3, Variable Refresh Rate support ^{[3][4][5]} 38.9 cm (15.3") diagonal, 2.5K (2560 x 1600), up to 180 Hz, 3 ms response time, IPS, micro-edge, anti-glare, Low Blue Light, 500 nits, 100% sRGB, Variable Refresh Rate support ^{[4][5]} 38.9 cm (15.3") diagonal, 2K (1920 x 1200), up to 165 Hz, 6.5 ms response time, IPS, micro-edge, anti-glare, 400 nits, 100% sRGB, Variable Refresh Rate support ^{[4][5]} 38.9 cm (15.3") diagonal, 2K (1920 x 1200), up to 165 Hz, 6.5 ms response time, IPS, micro-edge, anti-glare, 300 nits, 62.5% sRGB, Variable Refresh Rate support ^{[4][5]} Flicker-free ^[6]
Keyboard	Full-size, white backlit/ 4-zone RGB backlit keyboard with numeric keypad and 26-Key Rollover Anti-Ghosting Key technology 8000Hz high polling rate (selected SKU only) HP Imagepad
Screen-To-Body Ratio ^[7]	91% ^[7]
Webcam ^[8]	1080p FHD IR camera with HDR auto switch, temporal noise reduction and integrated dual array digital microphones (selected SKU only) ^[8] 1080p FHD camera with HDR auto switch, temporal noise reduction and integrated dual array digital microphones ^[8]
Audio	HyperX Audio Control Dual speakers DTS:X® Ultra HP Audio Boost 1.0
Input/Connectivity ^{[9][10]}	1 USB Type-C® 10Gbps signaling rate (USB Power Delivery 3.1, DisplayPort™ 1.4, HP Sleep and Charge), 2 USB Type-A 10Gbps signaling rate ^{[9][10]} 1x RJ-45

	1x headphone/microphone combo 1x AC smart pin 1x HDMI 2.1
Wired Lan/ Wireless technology ^{[11] [12] [13] [14] [15] [16]}	Integrated 10/100/1000 GbE LAN MediaTek Wi-Fi 7 MT7925 (2x2) and Bluetooth® 6.0 wireless card ^{[11] [12]} Intel SKU: Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card ^{[13] [14]} Realtek Wi-Fi 6 (2x2) and Bluetooth® 5.4 wireless card ^{[15] [16]}
Battery Life & Power ^[17]	150W/ 200W/ 230W/ 280W AC power adapter 4-cell, 70 Wh Li-ion polymer ^[17]
Battery Recharge Time ^[18]	Approximately 50% in 30 minutes ^[18]
Weight and Dimensions ^[19]	TPP 70W versión Wgt: 2216g/4.89 lb ^[19] TPP 160W version Wgt: 2314g/5.10 lb ^[19] Dim: 14.07 x 10.59 x 0.94 in (front); 14.07 x 10.59 x 1 in (rear) ^[19]
Color	Shadow black/iridescent black
Sustainable Impact Specifications ^[20]	Keyboard components contain post-consumer recycled plastic (50% in keycaps, scissors) ^[20]
Sensors	IR thermal sensor
Certification Requirements ^[21]	Military Standard Testing ^[21]
AI Productivity and Tools ^[22]	Co-pilot, OMEN AI ^[22]

Disclaimer:

[1] 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® Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost/> for more information. Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third-party software may have specific configuration or compatibility requirements. Potential NPU inferencing performance varies by use, configuration, software and other factors.

[2] 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. AMD's numbering is not a measurement of clock speed. Max Boost clock frequency performance varies depending on hardware, software and overall system configuration. Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third-party software may have specific configuration or compatibility requirements. Potential NPU inferencing performance varies by use, configuration, software and other factors.

[3] DisplayHDR™ is the high-performance Display Compliance Test Specification from VESA specifying HDR (High Dynamic Range) quality. See <http://displayhdr.org> for more details. All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

[4] TUV Low Blue Light is the Display Compliance Test Specification quality. See <https://www.certipedia.com/?locale=en#search> for more details.

[5] Eyesafe® Display for Low Blue Light is the Display Compliance Test Specification quality. See <https://eyesafe.com> for more details.

[6] The Flicker-free capability is eliminating screen flickering through integrating DC-dimming LED backlights or LED emissions. OLED panel is functional with DC-DIMMING when above 100nits.

[7] Percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk.

[8] Camera resolution refers to the image sensor active pixels. The actual image capture pixels and aspect ratio depend on the app selected.

[9] For best results with HP Sleep and Charge, use a USB charging protocol standard cable or cable adapter with an external device.

[10] For optimal performance and battery chargeability while gaming and rendering, use the power adapter that ships with the PC. You can use the 100W/20V Type-C adapter or power bank when running light loading tasks. System-off charging is only supported on 20V Type-C adapter or power bank.

[11] Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires compatible Windows 11 OS, compatible processor, and separately purchased Wi-Fi 7 router to support backwards compatibility with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported. The specification for 802.11BE is a draft specification and is not final. If the final specification differs from the draft specification, it may affect the ability of the device to communicate with other 802.11BE devices.

[12] Bluetooth® 6.0 operation requires Microsoft OS/Chrome OS support. Until Microsoft OS/Chrome OS support is available, Bluetooth® 6.0 will function as Bluetooth® 5.4 or lower.

[13] 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.

[14] 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.

[15] *Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs.

*Wi-Fi 6 is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.

*Wi-Fi 6 (802.11ax) is not supported in Belarus where Wi-Fi settings will be optimized to local regulatory requirements (802.11ac).

[16] Bluetooth® 5.4 operation requires Microsoft OS/Chrome OS support. Until Microsoft OS/Chrome OS support is available, Bluetooth® 5.4 will function as Bluetooth® 5.3 or lower.

[17] 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.

[18] 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.

[19] Weight and system dimensions may fluctuate due to configuration and manufacturing variances. Rear height is measured without the bump out (1.5 mm)

[20] Keyboard components contain post-consumer recycled plastic. Percentage of post consumer recycled contained in each component varies by product.

[21] Testing is not intended to demonstrate fitness of U.S. Department of Defense (DoD) contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.

[22] Based on all PC AI gaming learning applications. OMEN AI adjusts Operating System, Hardware, and Game settings for supported games. System requirements: OMEN Gaming Hub installed on PC, Windows 10 version 19041.0 or higher. Results may vary based on unique hardware setup on PC.