ALIENWARE m15 R4

Reviewer's Guide – January 2021

ALIENWARE™

Alienware m15 R4
Lean Gets Legendary

Introducing the thinnest, lightest, and most powerful 15-inch Alienware laptop, ever.

Based on the Legend industrial design, the new Alienware m15 combines features Alienware fans love and new innovations honed to make no compromise on quality, technology, and performance while reducing all of its physical dimensions.

Key Updates and Advantages

Keeping it real thin – at 20.5mm thin or less, Alienware is proud to release its most powerful and most innovative 15-Iinch gaming notebook to date. We've taken all the technologies that gamers have loved and cared for across the generations in our m15 to make the best one yet. We have increased performance without changing dimensions or the visual ID.

The new Alienware m15 R4 debuts and includes the highly anticipated NVIDIA® GeForce RTX™ 30-series mobile graphics. All configurations will now include vapor chamber cooling within their Alienware Cryo-tech™ cooling technology and they will all also include 12-phase graphics voltage regulation. By combining these features, gamers get to enjoy the latest graphics knowing their system is being properly cooled *AND* can enable high performance levels for extended periods of time or marathon gaming sessions. All configurations feature 10th generation Intel® Core™ processors and we've increased memory speed since the R3 generation to 2933Mhz DDR4 with capacities of up to 32GB.

Each system offers our highly regarded AlienFX keyboard and a precision-point glass touchpad and gamers will be able to immediately enjoy a more premium experience the instant they set their hand on the system.   The quality and performance of the platform is also communicated by the lightness and structural rigidity of the magnesium alloy chassis typical of our Legend ID based laptops. Available in two colors, each system (since the R3 generation) is finished with a sophisticated High-Endurance Clear Coat paint formula capable of resisting even the toughest stains

The new R4 generation has even updated its HDMI port to support the HDMI 2.1 standard enabling 4K/120Hz content to stream natively – perfect for gamers connecting to a large display or the Alienware 55 OLED monitor.

Available in two colors: Lunar Light and Dark Side of the Moon
Max weight: 2.5 Kg. (5.5 Lbs.)
Max Dimensions: 20.5 mm. x 276.32 mm. x 360.3 mm.
Battery: Lithium Ion 86 Whr with Alienware Battery Defender Technology

The Alienware Difference

*   HyperEfficient VR (voltage regulation) technology introduces 12-phase graphics voltage regulation and 6-phase processor voltage regulation for maximum performance over extended periods of time. The previous R3 and R2 generations included conditional HyperEfficient VR technology, the R4 generation is all inclusive of this technology.

*   The new edition of Alienware's Cryo-Tech™ cooling technology found on the Alienware m15 R4 and m17 R4 includes CPU vapor chamber technology on all configurations.

*   Designed with our premium Alienware mSeries keyboard with per-key RGB LED AlienFX lighting, now with 1.7mm of travel, anti-ghosting technology, per-key RGB LED lighting, N-Key rollover technology, and a new 0.2mm-dish concave key design.

*   Display options include either a remarkably fast FHD 300Hz sporting an 100% of the sRGB color gamut or a premium 4K OLED display bringing 100% of the DCI-P3 color gamut for gamers who want the richest colors and truest blacks on screen. The OLED display includes an assembly that has built in Tobii Eyetracking technology.

*   Includes the latest Alienware Command Center technology where gamers can manage their lighting through AlienFX as well as managing their Game Library where gamers can create custom shortcuts that make each gaming experience unique.

Alienware m15 R4 / Technical Specifications

Feature	Technical Specification
Model Number	Alienware m15 R4 gaming laptop
Processor Options	❑ 10th Generation Intel® Core™ i7-10870H (8-Core, 16MB Cache, up to 5.0GHz Max Turbo Frequency) ❑ 10th Generation Intel® Core™ i9-10980HK (8-Core, 16MB Cache, up to 5.3GHz Max Turbo Frequency)
Operating System	Microsoft® Windows® 10 Home 64-bit Microsoft® Windows® 10 Pro 64-bit
Chipset[1]	Mobile Intel® HM470 Chipset
Memory Options	❑ 8GB DDR4 2933MHz ❑ 16GB DDR4 2933MHz ❑ 32GB DDR4 2933MHz
Storage Options	**Single Storage Configurations** ❑ 256GB PCIe M.2 SSD ❑ 512GB PCIe M.2 SSD ❑ 1TB PCIe M.2 SSD ❑ 2TB PCIe M.2 SSD **RAID0 Configurations** ❑ 512GB (2x 256GB PCIe M.2 SSD) RAID0 ❑ 1TB (2x 512GB PCIe M.2 SSD) RAID0 ❑ 2TB (2x 1TB PCIe M.2 SSD) RAID0 ❑ 4TB (2x 2TB PCIe M.2 SSD) RAID0 **RAID0 Plus Configurations** ❑ 1TB (2x 512GB PCIe M.2 SSD) RAID0 [Boot] + 512GB PCIe M.2 SSD [Storage] ❑ 2TB (2x 1TB PCIe M.2 SSD) RAID0 [Boot] + 512GB PCIe M.2 SSD [Storage] ❑ 4TB (2x 2TB PCIe M.2 SSD) RAID0 [Boot] + 512GB PCIe M.2 SSD [Storage]
Graphics	❑ NVIDIA GeForce RTX 3070 8GB GDDR6 ❑ NVIDIA GeForce RTX 3080 8GB GDDR6
Alienware Cryo-Tech™ Details	• 66 CPU fan blades • 66 GPU fan blades • 64mm CPU fan blade diameter • 64mm GPU fan blade diameter • 4x copper-alloy heat pipes • 244.5g of copper-alloy material • CPU Vapor Chamber cooling technology
Hyper-Efficient Voltage Regulation Details	All configurations are designed with the following specification • 6-phase CPU voltage regulation • 12-phase GPU voltage regulation
Display	❑ 15.6" FHD (1920 x 1080) 300Hz 3ms 300-nits 100% sRGB color gamut ❑ 15.6" OLED UHD (3840 x 2160) 60Hz 1ms 400-nits 100% DCI-P3 color gamut + Tobii Eyetracking technology • 15" UHD display meets HDR500 "True Black" compliance
Audio Details	2-Way (Woofer/Tweeter) Stereo Speaker Design Includes Discrete Smart Amp Woofer technology
Optical Drive Options	Yes, External options only
Trusted Protection Module	Included and firmware/software based

Feature	Technical Specification
Ports	**Left** (1x) Wedge-shaped lock slot (cable and lock sold separately) (1x) RJ-45 Killer™ Ethernet E3100X 10/100/1000Mbps/2.5Gbps Port (1x) Type-A USB 3.2 Gen 1 Port with PowerShare technology (1x) Audio Out 1/8" Ports (Compatible with inline mic headset) **Right** (2x) Type-A USB 3.2 Gen 1 Port (1x) microSD 5.1, UHS-II HD312 Card Reader **Back** (1x) Power/DC-in Port (1x) Alienware Graphics Amplifier Port (1x) Thunderbolt™ 3 Port (USB Type-C™ with support for USB 3.2 Gen 2 10Gbps, 40Gbps Thunderbolt, and DisplayPort 1.2) (1x) Mini-Display Port 1.4 (certified) Output Port (1x) HDMI 2.1 Output Port
Chassis Materials	Based on Alienware's Legend industrial design language Engineered with Alienware Cryo-Tech™ Cooling technology Engineered with HyperEfficient Voltage Regulation Constructed with a Magnesium Alloy exterior shell and copper alloy thermal components
Color Options	Lunar Light with High Endurance Clear Coat Dark Side of the Moon with High Endurance Clear Coat

Keyboard Options	❑ Alienware mSeries 4-Zone AlienFX RGB keyboard (Standard)
	    1.7mm key travel
	    Includes anti-ghosting technology
	❑ Alienware mSeries per-key AlienFX RGB keyboard (Optional)
	    1.7mm key travel
	    Includes anti-ghosting and N-key rollover technology
	    0.2mm-dish concave key design

Touchpad Details	Multi-touch gesture premium precision-point glass touchpad with integrated scrolling.
Camera	Alienware FHD (1920x1080 resolution) camera with dual-array integrated microphones
Networking Details	Killer™ Ethernet E3100X 10/100/1000Mbps/2.5Gbps NIC (Standard) Killer™ Wi-Fi 6 AX1650i 802.11ax 2x2 Wireless LAN and Bluetooth 5.1 (Standard)
Battery Details	Lithium Ion (86 Whr) Battery with Alienware Battery Defender technology
Power Adapter	240W adapter
Dimensions & Weight	Height (rear): 19.7 mm. (0.776 in.) Height (front): 18.39 mm. (0.7240 in.) with OLED [17.8 mm. (0.701 in.) with the 300Hz display] Height (peak): 20.5 mm. (0.807 in.) with OLED [19.9 mm. (0783. in.) with the 300Hz display] Depth: 276.32 mm. (10.879 in.) with OLED [275.92 mm. (10.863 in.) with the 300Hz display] Width: 360.3 mm. (14.19 in.) Lowest weight: 2.11 Kgs. (4.65 Lbs.) Maximum weight: 2.5 Kgs. (5.5 Lbs.)
Software	Alienware Command Center including AlienFX lighting, Game Library with auto-tune game profile functionality, Fusion (and Alienware Adrenalin, Alienware Mobile Connect
Peripheral Ecosystem	Alienware 34 Curved Gaming Monitor – AW3420DW, Alienware Graphics Amplifier, Alienware 7.1 Gaming Headset – AW510H, Alienware Low-Profile RGB Mechanical Gaming Keyboard – AW510K, Alienware RGB Gaming Mouse – AW510M, Alienware 25 Gaming Monitor – AAW2521HF/L