



A L I E N W A R E™



Alienware Area-51m

A New Era Begins

Reviewer's Guide – December 2018

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Platform Overview

Reborn with an invigorated engineering approach and a sculpted, classic, new design, Alienware is excited to reintroduce the Area-51m – a gaming laptop with true desktop overclocking performance and graphics upgradability.

- » The world's most powerful gaming laptop.
- » The world's first gaming laptop with 9th generation Intel processors.
- » The world's most upgradeable gaming laptop.
- » The world's only gaming laptop with upgradeable internal NVIDIA GeForce RTX graphics.
- » The world's only laptop supporting desktop processors and desktop graphics with the Alienware Graphics Amplifier.



Overview

The Alienware Area-51m is the world's most powerful gaming laptop. Designed around our new "Legend" industrial design language, the Area-51m is a *Return to Form*, that is, a sculpted and iconic gaming system that reaches performance and upgradability levels previously only imagined within gaming desktops.

Our new flagship notebook supports the upgradability of its discrete NVIDIA GeForce RTX graphics as well as 9th generation Intel Core i7 and i9 processors. Overclocking tools available within Alienware Command Center enable the Area-51m to accelerate the performance of its graphics and processors independently allowing gamers to unleash even higher levels of performance.

Complete with Intel's Z390 desktop chipset, Area-51m becomes our first notebook with the capability to support 8-core processors. It is also our first notebook to support 2.5Gbit Ethernet wired-networking, 64GB of memory, and a 3-sided narrow-bezel display capable of 144Hz G-SYNC technology.

Incredible overclocking performance and real upgradability within a new brand experience is the power of the Area-51m. Gaming and megatasking performance is delivered with up to 9th generation Intel Core i9K processors and up to NVIDIA GeForce RTX 2080 graphics.

Available in two colors: Lunar Light and Dark Side of the Moon
Max weight: 3.87 Kg. (8.54 Lbs.)
Dimensions: 42 mm. x 402.6 mm. x 410 mm.
Battery spec: Lithium Ion 90Wh

The Alienware Difference

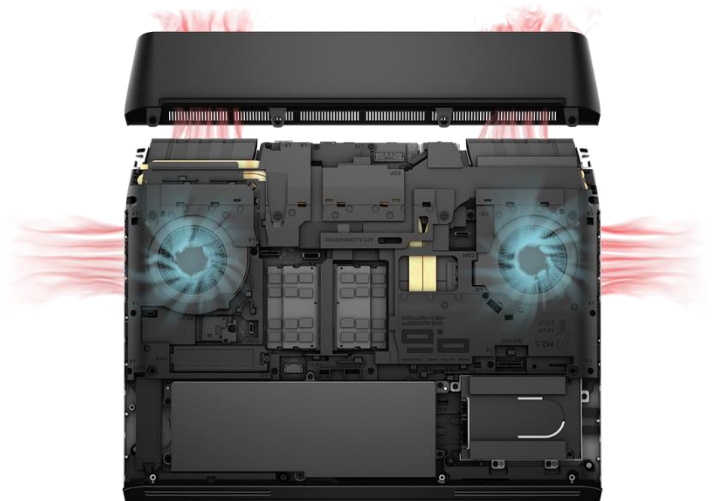
- AlienFX customizable lighting available across various zones including the power button, LCD cover Alien head, and a new infinite loop.
- Engineered for full support for Alienware Command Center technology enabling the management of system settings, game profiles, AlienFX, and with integrated special features in over 150 game titles.
- Enables full support for the Alienware Graphics Amplifier enabling dedicated PCI-Express bandwidth for desktop graphics cards from NVIDIA or AMD.
- Magnesium alloy construction enables the Area-51m to conserve on weight while maintaining structural rigidity and relative thinness.
- Alienware's Advanced Cryo-Tech 2.0 technology platform on the Area-51m is our most robust notebook cooling solution yet moving more CFM of ambient air than any previous Alienware notebook.
- Designed with our premium Alienware TactX keyboard featuring 2.2mm of travel, anti-ghosting technology, per-key RGB LED lighting, N-Key rollover technology, and a steel backplane for rigidity and uniform feedback.
- Our new three-sided narrow-bezel display is offered with the 5th generation Tobii Eye Tracking technology, built with competitive gaming in mind.



Advanced Cryo-Tech

Our advanced thermal technology, Alienware Cryo-Tech v2.0, optimizes component cooling, which maximizes overall performance and keeps your laptop cool to the touch. Here's a closer look at our innovative cooling solution.

- **Dual-Intake, Dual-Exhaust Airflow Design:** Our chassis prioritizes performance with a dual fan design that pulls in cool air from the bottom and top vents while exhaling with plenty exhaust area along the rear and side vents optimizing cooling for the core components.
- **High Voltage Driving Fan:** The fire resistant, liquid-crystal polymer fan is built with 0.2mm blades, sleeve bearings and 3-phase fan control to create less friction and circulate air more efficiently. The Area-51m fans occupy an area of 95x105mm with a thickness ranging from 19mm to 21.5mm and can push over 25 CFM in open air conditions—something normally seen only in desktops.
- **Load balancing Heat Pipes:** The dynamics of thermal activity across critical components like the GPU and the CPU are intelligently discharged across various dedicated and shared 8mm and 6mm copper-composite heat pipes. The highest-end configurations carry 8 total heat pipes.
- **Copper Fin Stacks:** The Area-51m features best-in-class surface temperatures, largely due to a thermal module, including four 0.15mm copper fins. Heat is drawn away from the most critical components to prioritize system performance and longevity.
- **Thermal control:** Cryo-Tech v2.0 ensures that 100% of the system's GPU thermal design power is enabled while ensuring CPU-intensive games benefit as well with high-performance.
- **Whisper-quiet:** The cooling system of the Area-51m is so powerful, virtually no noise is heard while engaged in daily tasks.

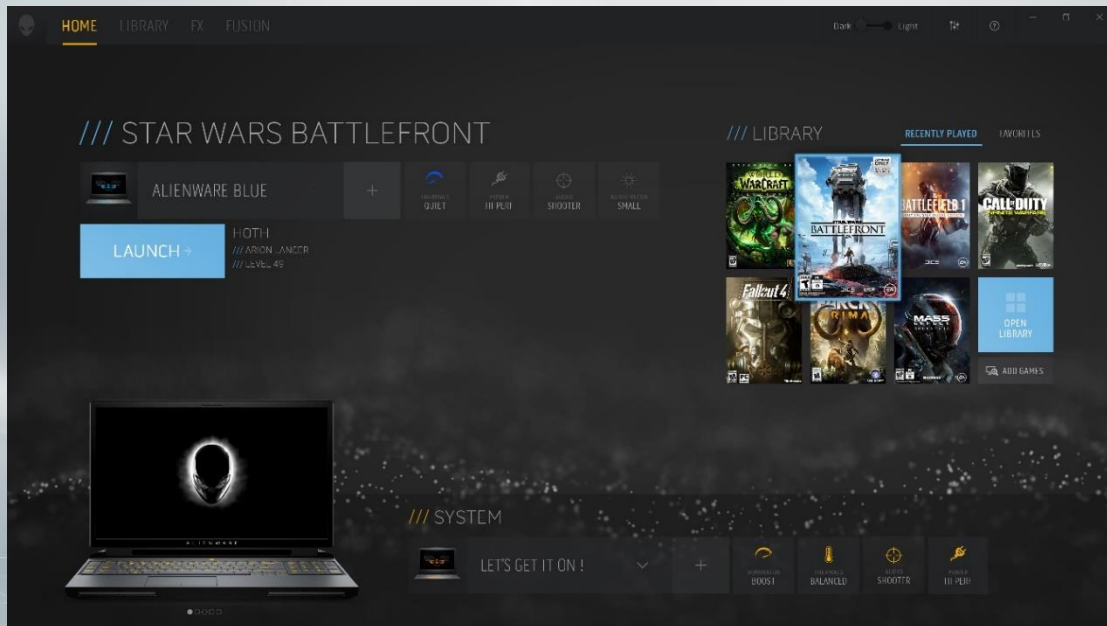


Technical Specifications

Feature	Technical Specification	Feature	Technical Specification
Model Number¹	Area-51m R1	Ports	1 Alienware Graphics Amplifier Port 2 DC Power Input Ports 1 Thunderbolt™ 3 with DisplayPort 1 RJ-45 Realtek 2.5Gbps Ethernet Port 2 USB 3.1 1 USB 3.1 with PowerShare 1 HDMI 2.0 Port 1 Mini-display 1.4 Port 1 Audio Out 1 Global headset
Processor Options¹	9th Generation Intel® Core™ i7-8700 (6-Core, 12MB Cache, up to 4.6GHz w/ Turbo Boost) 9th Generation Intel® Core™ i7-9700K (8-Core, 12MB Cache, up to 4.9GHz w/ Turbo Boost) 9th Generation Intel® Core™ i9-9900HK (8-Core, 16MB Cache, up to 5.0Ghz w/Turbo Boost)	Slots	4 SODIMMs Wedge-shaped lock slot
Operating System^{1,2}	Microsoft® Windows® 10 Home 64-bit Microsoft® Windows® 10 Pro 64-bit	Chassis Materials	Magnesium alloy
Chipset¹	Intel® Z390 Chipset	Color Options	Lunar Light Dark Side of the Moon
Memory Options^{1,2,3}	8GB (1x8GB) DDR4 2400MHz* 16GB (2x8GB) DDR4 2400MHz* 32GB (2x16GB) DDR4 2400MHz* 64GB (4x16GB) DDR4 2400MHz*	Keyboard	Alienware TactX keyboard with per-key RGB LED AlienFX lighting, anti-ghosting, and N-Key rollover technology 2.2mm key travel, programmable macro keys, alphanumeric keys
Storage Options^{1, 5}	Single Storage Configurations 1TB (+8GB SSHD) Hybrid Drive 256GB PCIe M.2 SSD 512GB PCIe M.2 SSD 1TB PCIe M.2 SSD Dual Storage Configurations 128GB PCIe M.2 SSD + 1TB (+8GB SSHD) Hybrid 256GB PCIe M.2 SSD + 1TB (+8GB SSHD) Hybrid 512GB PCIe M.2 SSD + 1TB (+8GB SSHD) Hybrid 1TB PCIe M.2 SSD + 1TB (+8GB SSHD) Hybrid 116GB Intel Optane SSD + 1TB (+8GB SSHD) Hybrid Dual Storage Configurations 512GB RAID0 (2x 256GB PCIe M.2 SSDs) 1TB RAID0 (2x 512GB PCIe M.2 SSDs) 2TB RAID0 (2x 1TB PCIe M.2 SSDs) 236GB RAID0 (2x 116GB Intel Optane SSDs) Triple Storage Configurations 512GB RAID0 (2x 256GB PCIe M.2 SSDs) + 1TB (+8GB SSHD) Hybrid Drive 1TB RAID0 (2x 512GB PCIe M.2 SSDs) + 1TB (+8GB SSHD) Hybrid Drive 2TB RAID0 (2x 1TB PCIe M.2 SSDs) + 1TB (+8GB SSHD) Hybrid Drive 236GB RAID0 (2x 116GB Intel Optane SSDs) + 1TB (+8GB SSHD) Hybrid Drive	Camera	Alienware HD (1280x720 resolution) camera with dual-array integrated microphones
Graphics^{1,11}	NVIDIA® GeForce® RTX 2060 with 6GB GDDR6 NVIDIA® GeForce® RTX 2070 with 8GB GDDR6 NVIDIA® GeForce® RTX 2080 with 8GB GDDR6	Connectivity Options¹	10/100/1000/2.5Gbps RJ-45 Ethernet network Killer Wireless 1550 2x2 AC and Bluetooth 5.0
Display¹	17.3" FHD (1920 x 1080) 60Hz Anti-Glare IPS Display 17.3" FHD (1920 x 1080) 60Hz Anti-Glare IPS Display with NVIDIA G-SYNC technology 17.3" FHD (1920 x 1080) 144Hz Anti-Glare IPS Display with Tobii eyetracking technology 17.3" FHD (1920 x 1080) 144Hz Anti-Glare IPS Display w/ NVIDIA G-SYNC + Tobii eyetracking technology Additional Display Specifications (all options) <ul style="list-style-type: none"> • Three-sided narrow border displays • 300-nits brightness • 72% color gamut 	Battery Options¹	Lithium Ion (90 Wh) Battery, ExpressCharge capable, Integrated
Audio and Speakers	2.0 Speaker configuration Alienware Sound Center via Alienware Command Center 7.1 Digital Audio out using HDMI out connection	Power	Dual A/C adapter Options 180W + 180W adapters 180W + 240W adapters 180W + 330W adapters
Optical Drive Options	Yes External options only	Dimensions & Weight^{1,14}	Width 16.1 inches (410 mm) Height 1.23 inches (31.2 mm) [rear] Height 1.7 inches (42 mm) [peak] Height 1.09 inches (27.65 mm) [front] Length 15.85 inches (402.6 mm) Max Weight 8.54 lbs. (3.87 Kg)
		Software	Alienware Command Center including AlienFX lighting, Game Library, and Alienware Adrenalin, Alienware Mobile Connect
		Peripheral Ecosystem¹	Alienware 34 Curved Gaming Monitor – AW3418DW, Alienware Graphics Amplifier, Alienware Wireless Gaming Headset – AW988, Alienware Pro Gaming Keyboard – AW768, Alienware Elite Gaming Mouse – AW959, Alienware 25 Gaming Monitor – AAW2518H



Alienware Command Center



Alienware Command Center provides a single interface to transform your Windows PC in to an enhanced gaming environment.

Create profiles for Power, Thermal Management, Sound, Lighting, Macros, and more. Link a Profile to a game and its settings will automatically apply whenever the game is launched, no matter where it's launched from.

Alienware Command Center now features a unique audio utility. Sound Center is a set of gaming-focused audio features, which can be individualized for specific games and applications. The Audio Recon feature is a unique gaming overlay showing a visual representation of where sounds are coming from in relation to the player.

Seamlessly manage your Alienware ecosystem and manage settings for Alienware mouse, keyboard, headset, etc.

Alienware Command Center now offers complete performance control over CPU, GPU, RAM, Voltage, and Fan performance settings to completely optimize the system. Using profile management assign performance profiles to the system at start up.

Keep your content together and easily accessible in the Game Library. An easy place to manage and launch any game installed.



Ports



Rear Ports

1. HDMI 2.0 Output
2. Mini-Display 1.4 Output Port (NVIDIA G-SYNC capable)
3. RJ45 10/100/1000/2500 Base-T, IPv6 Ethernet Port
4. Alienware Graphics Amplifier Port
5. Dual DC Power Inputs



Right Side Ports

6. SuperSpeed USB 3.1 Type-A Port
7. SuperSpeed USB 3.1 Type-A Port



Left Side Ports

8. Thunderbolt™ 3 Port
9. SuperSpeed USB 3.1 Type-A with PowerShare Technology
10. Global Headset jack
11. Headphone/MIC Retaskable jack



About



About Alienware

Alienware, Dell's premier high-performance PC gaming brand, offers unique and award-winning computers that incorporate innovative engineering and are designed with state-of-the-art components.

Alienware, Dell's high performance PC gaming brand, offers unique and award-winning PCs that incorporate innovative engineering, aggressive design and the most advanced components in the industry. Credited as being one of the first PC gaming hardware manufacturers, Alienware remains committed to creating industry-leading trends in high-performance gaming and being an active and influential member of the gaming community, connecting, fans, developers and manufacturers for the advancement of PC gaming. Learn more at <http://www.alienware.com/>.

System Information

Alienware, under the guidance of Dell Inc., provides this equipment for evaluation purposes only.

All equipment must be returned to Dell Inc. in good working condition. Equipment must be in its original box, including all packaging, documentation, cables, and diskettes. This equipment remains the property of Dell Inc. unless paid for in full by the evaluator. Dell Inc. reserves the right to collect from the evaluator the full retail value of the equipment if not returned promptly and in good working condition on or before the due date. An online shipping return label will be provided.

