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> ASUS ROG Strix G15 Gaming Laptop User Manual (Model G513RM-IS74)

ASUS G513RM-IS74

ASUS ROG Strix G15 Gaming Laptop User Manual

Model: G513RM-IS74

1. INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your ASUS ROG Strix G15 gaming laptop, model G513RM-IS74. Please read this manual thoroughly before using your device to ensure optimal performance and longevity.



Figure 1.1: Front view of the ASUS ROG Strix G15 laptop, open with the screen displaying a vibrant ROG logo and "THOSE WHO DARE" text. The keyboard is visible with RGB lighting.

The ASUS ROG Strix G15 is designed for a streamlined Windows 11 gaming experience, featuring a powerful AMD Ryzen 7 6800H processor and NVIDIA GeForce RTX 3060 graphics. It includes a 15.6-inch WQHD 165Hz 3ms IPS-Type display for smooth visuals and advanced thermal management to maintain performance.

2. WHAT'S IN THE BOX

Upon unpacking your ASUS ROG Strix G15, ensure all the following items are present:

- ASUS ROG Strix G15 Gaming Laptop (Model G513RM-IS74)
- Power Cord
- Power Adapter

If any items are missing or damaged, please contact your retailer or ASUS customer support.

3. GETTING STARTED (SETUP)

3.1 Unpacking

Carefully remove the laptop and all accessories from the packaging. Retain the packaging materials for future transport or service needs.

3.2 Connecting to Power

1. Connect the power cord to the power adapter.
2. Plug the power adapter into the power input port on the side or rear of your laptop.
3. Plug the other end of the power cord into a wall outlet.

It is recommended to fully charge the laptop before initial use.

3.3 Initial Boot and Windows 11 Setup

1. Open the laptop lid and press the power button, typically located on the keyboard deck.
2. Follow the on-screen instructions to complete the Windows 11 Home setup process. This includes selecting your region, language, connecting to a Wi-Fi network, and creating a user account.
3. Once Windows 11 is set up, ensure all drivers and system updates are installed for optimal performance.

4. OPERATING YOUR ASUS ROG STRIX G15

4.1 Display

Your laptop features a 15.6-inch WQHD (2560 x 1440) IPS-Type display with a 165Hz refresh rate and 3ms response time, providing crisp visuals and smooth motion for gaming and multimedia. While some promotional images may show FHD 300Hz displays, your specific model is equipped with the WQHD 165Hz panel.

COMPETITION HERTZ

FHD
300Hz/3ms

Dolby
VISION

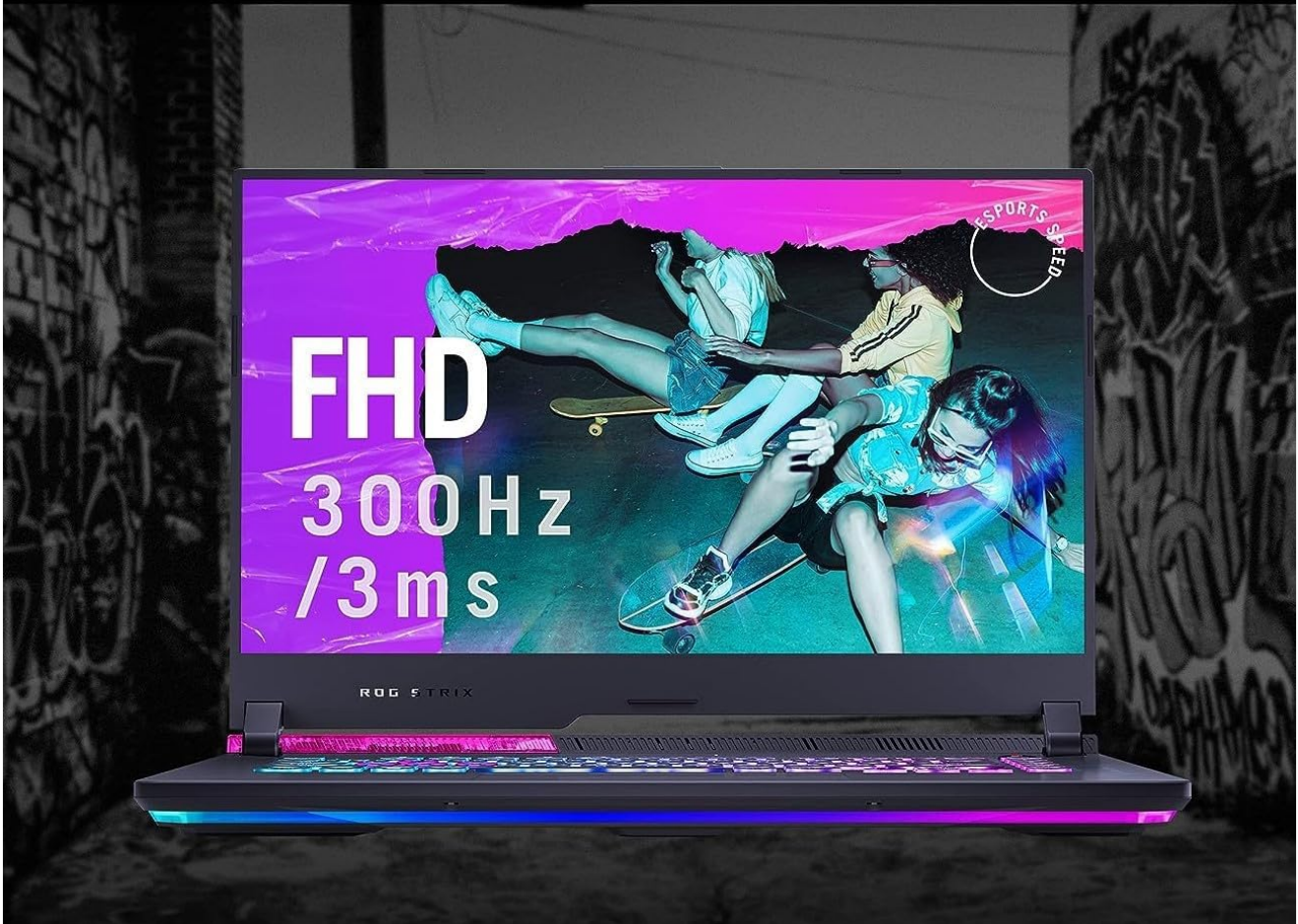


Figure 4.1: The ASUS ROG Strix G15 display showcasing a dynamic gaming scene. This image illustrates the high-refresh-rate display capabilities common to the ROG Strix series.

4.2 Keyboard and Touchpad

The laptop is equipped with a 4-Zone RGB keyboard, allowing for customizable backlighting. The touchpad supports multi-touch gestures for intuitive navigation.



Figure 4.2: Top-down view of the ASUS ROG Strix G15 laptop's keyboard and trackpad. The keyboard features multi-color backlighting, and the trackpad is centrally located below the keyboard.

4.3 Connectivity

The ROG Strix G15 offers comprehensive connectivity options:

- **Wireless:** Wi-Fi 6E with RangeBoost for high-speed wireless internet and Bluetooth 5.2 for peripheral connections.
- **Wired:** 1x RJ45 LAN port for stable wired network connections.
- **USB Ports:** 1x USB 3.2 Gen 2 Type-C, 1x USB 3.2 Gen 2 Type-C with DisplayPort support, and 2x USB 3.2 Gen 1 Type-A ports for various peripherals.

LAG-FREE GAMING

WiFi 6E

2.5G LAN
faster internet speed



Figure 4.3: Rear-side view of the ASUS ROG Strix G15 laptop, emphasizing its connectivity features. Text overlays mention "LAG-FREE GAMING," "WiFi 6E," and "2.5G LAN" for faster internet speed. Various ports are visible on the back.

5. PERFORMANCE AND FEATURES

5.1 Processor and Graphics

The laptop is powered by the latest AMD Ryzen 7 6800H Processor (8 cores, 16 threads, up to 4.7GHz, 20MB cache) and an NVIDIA GeForce RTX 3060 6GB DDR6 GPU with ROG Boost up to 1752MHz at 140W, ensuring high performance for gaming and demanding applications.

5.2 Memory and Storage

Equipped with 16GB DDR5 4800MHz RAM and a 1TB M.2 NVMe PCIe 4.0 SSD, the system provides fast loading times and ample storage for games and applications.

5.3 Cooling System

The ROG Intelligent Cooling thermal system is designed to keep your laptop cool under pressure. It features Thermal Grizzly Liquid Metal thermal compound, Arc Flow Fans with 84 curved blades, and four fan outlets for

efficient heat dissipation.

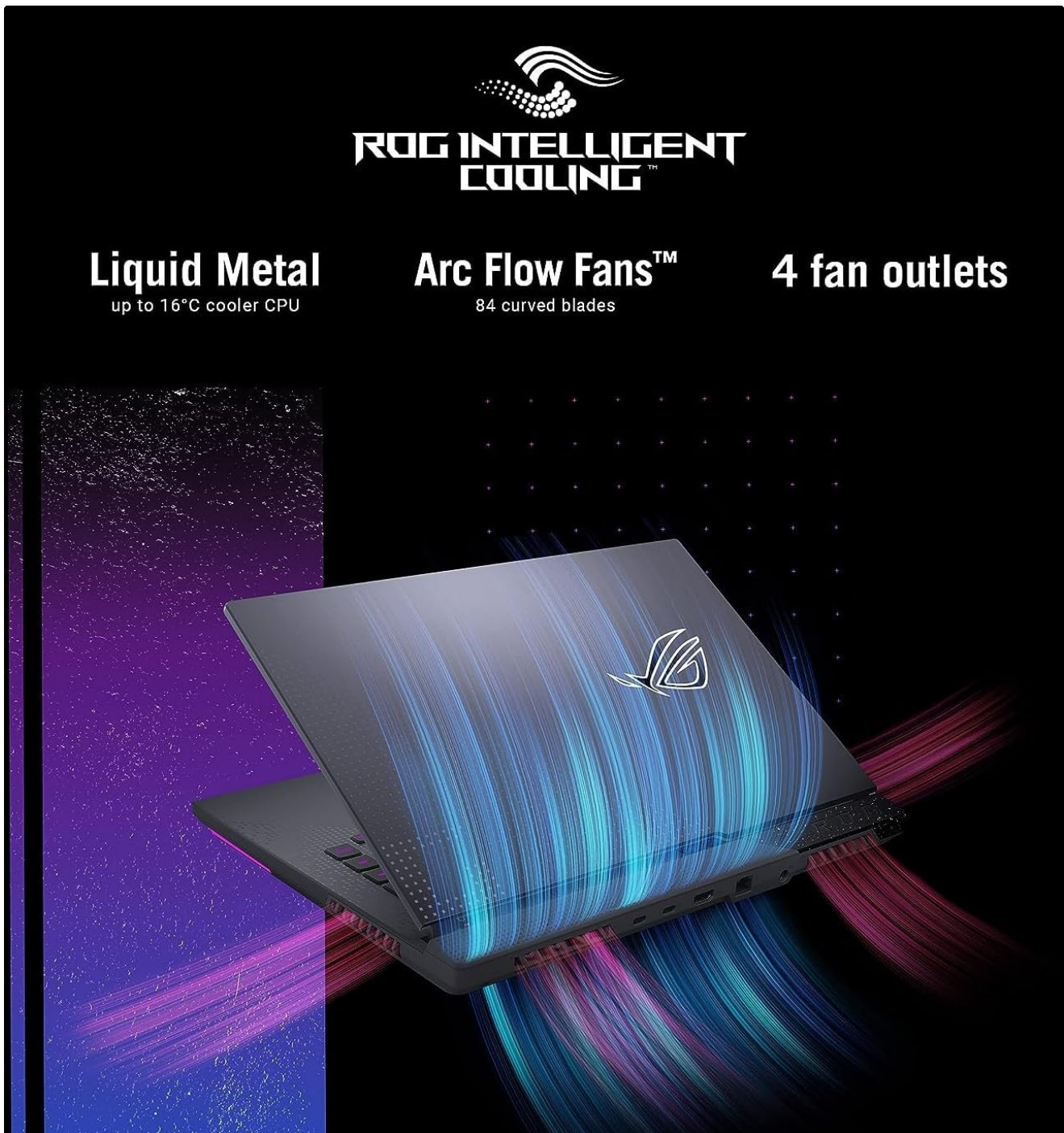


Figure 5.1: Diagram illustrating the ROG Intelligent Cooling system of the ASUS ROG Strix G15. It highlights the use of liquid metal thermal compound, Arc Flow Fans with 84 curved blades, and four fan outlets for efficient heat dissipation.

5.4 ROG Aura Sync Lighting

Customize your laptop's aesthetics with the ROG Aura Sync System, featuring a 4-Zone RGB Keyboard, a white backlit ROG logo, and an RGB light bar. This allows for personalized lighting effects across compatible devices.

LIGHT 'EM UP

Aura Sync
Technology

Per-Key
RGB

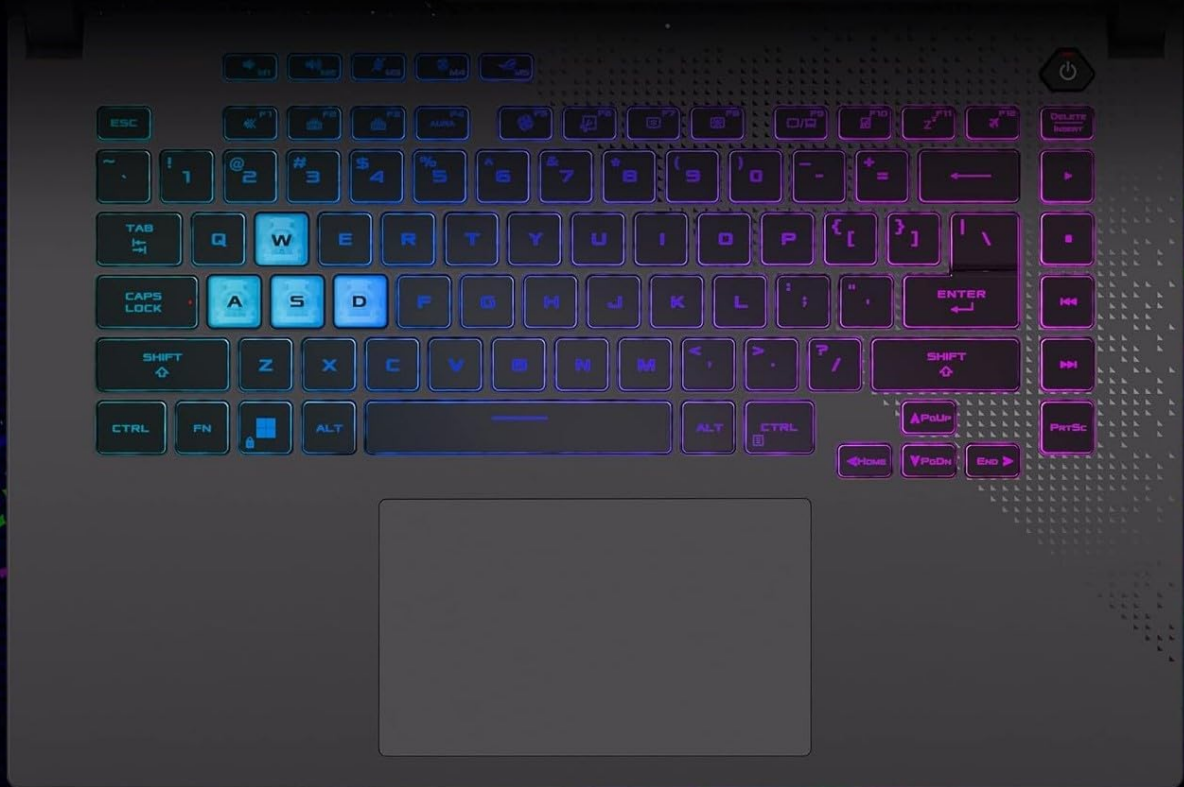


Figure 5.2: Close-up top-down view of the ASUS ROG Strix G15's keyboard, showcasing the "Aura Sync" technology and "Per-Key RGB" lighting. The keys are illuminated with a gradient of colors.

6. BATTERY MANAGEMENT

The ASUS ROG Strix G15 is equipped with a 90W battery, offering up to 12 hours of video playback. It supports rapid Type-C charging for quick power replenishment.

STAY IN CHARGE

90W
Battery

Rapid
Type-C
Charging

Up to
12 Hour
video playback



Figure 6.1: Side view of the ASUS ROG Strix G15 laptop, focusing on its power capabilities. Text overlays state "STAY IN CHARGE," "90W Battery," "Rapid Type-C Charging," and "Up to 12 Hour video playback."

To maximize battery life, consider adjusting power settings in Windows 11, reducing screen brightness, and closing unnecessary applications.

7. MAINTENANCE

7.1 Cleaning Your Laptop

- **Screen:** Use a soft, lint-free cloth lightly dampened with water or a screen cleaner. Avoid harsh chemicals.
- **Keyboard and Chassis:** Use a soft brush or compressed air to remove dust. Wipe surfaces with a slightly damp, soft cloth.
- **Vents:** Regularly clear dust from the cooling vents using compressed air to ensure proper airflow and prevent overheating.

7.2 Software Updates

Regularly check for and install updates for Windows 11, graphics drivers (NVIDIA), and ASUS utilities to ensure system stability, security, and optimal performance.

7.3 Storage Management

Periodically review and manage your 1TB SSD storage. Uninstall unused applications and delete unnecessary files to maintain system responsiveness.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your ASUS ROG Strix G15.

8.1 Power Issues

- **Laptop does not turn on:** Ensure the power adapter is securely connected to both the laptop and a working power outlet. Check if the power adapter's indicator light is on. Try a different outlet.
- **Battery not charging:** Verify the power adapter connection. Check for any damage to the power cord or adapter. Ensure the laptop is not in an extremely hot environment.

8.2 Display Issues

- **No display on screen:** Connect an external monitor to check if the issue is with the laptop's internal display. Try pressing **Fn** + **F8** (or the corresponding display toggle key) to switch display output.
- **Flickering or distorted display:** Update your graphics drivers. Check display cable connections if using an external monitor.

8.3 Connectivity Issues

- **Wi-Fi not connecting:** Ensure Wi-Fi is enabled in Windows settings. Restart your router and modem. Update wireless drivers.
- **Bluetooth device not pairing:** Ensure Bluetooth is enabled on both the laptop and the device. Place devices close to each other. Remove and re-add the device in Bluetooth settings.

For more complex issues, refer to the ASUS support website or contact customer service.

9. SPECIFICATIONS

The following table details the technical specifications of the ASUS ROG Strix G15 (Model G513RM-IS74).

Feature	Specification
Model Name	ROG Strix G15 (G513RM-IS74)
Operating System	Windows 11 Home
Processor	AMD Ryzen 7 6800H (Octo-Core, up to 4.7 GHz)
Graphics Coprocessor	NVIDIA GeForce RTX 3060 (6GB GDDR6)
RAM	16GB DDR5 4800MHz

Feature	Specification
Hard Drive	1TB M.2 NVMe PCIe 4.0 SSD
Screen Size	15.6 Inches
Max Screen Resolution	2560x1440 Pixels (WQHD)
Refresh Rate	165 Hz
Wireless Type	802.11ax (Wi-Fi 6E)
Bluetooth	Bluetooth 5.2
USB Ports	1x USB 3.2 Gen 2 Type-C, 1x USB 3.2 Gen 2 Type-C (DisplayPort), 2x USB 3.2 Gen 1 Type-A
LAN Port	1x RJ45 LAN port
Color	Eclipse Gray
Item Weight	7 pounds
Product Dimensions	13.94 x 0.89 x 10.2 inches
Battery	1 Lithium Ion battery (90W)
Special Feature	Anti Glare Coating

10. WARRANTY AND SUPPORT

10.1 Warranty Information

Your ASUS ROG Strix G15 laptop comes with a manufacturer's warranty. Please refer to the warranty card included with your product or visit the official ASUS website for detailed terms and conditions, including warranty period and coverage.

10.2 Technical Support

For technical assistance, driver downloads, or further troubleshooting, please visit the official ASUS support website. You can also contact ASUS customer service directly for personalized support.

- **ASUS Support Website:** www.asus.com/support/
- **Product Page:** [Amazon Product Page](#)