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ASUS G635LX-RW158WS

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ASUS ROG Strix SCAR 16 G635LX-RW158WS Gaming Laptop User Manual

Model: G635LX-RW158WS

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1. INTRODUCTION

Welcome to the user manual for your new ASUS ROG Strix SCAR 16 G635LX-RW158WS gaming laptop. This document provides essential information for setting up, operating, maintaining, and troubleshooting your device. The ROG Strix SCAR 16 is engineered for high-performance gaming, featuring an Intel Core Ultra 9 processor, NVIDIA GeForce RTX 5090 graphics, and a high-refresh-rate display.



2. WHAT'S IN THE BOX

Upon unboxing your ASUS ROG Strix SCAR 16, please verify that all the following items are included:

- ASUS ROG Strix SCAR 16 Gaming Laptop
- Power Adaptor
- User Guide (this document)
- Warranty Documents

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3. PRODUCT OVERVIEW

The ASUS ROG Strix SCAR 16 is designed for peak gaming performance and productivity. Key features include:

- **Processor:** Intel Core Ultra 9 275HX with Intel AI Boost NPU
- **Graphics:** NVIDIA GeForce RTX 5090 Laptop GPU with 24GB GDDR7 RAM
- **Display:** 16-inch, 2.5K (2560 x 1600) WQXGA, 240Hz Refresh Rate, 1200nits Brightness ROG Nebula HDR Display
- **Memory:** 32GB DDR5 RAM
- **Storage:** 2TB PCIe 4.0 NVMe M.2 Performance SSD
- **Cooling:** ROG Intelligent Cooling with Vapor Chamber, Sandwiched Heatsink, Tri-Fan Technology, and Conductionaut Extreme Liquid Metal
- **Keyboard:** Backlit Chiclet Keyboard Per-Key RGB with Copilot key and Touchpad-based NumberPad
- **Connectivity:** Wi-Fi 7, 2.5G LAN, Thunderbolt 5, HDMI 2.1, USB 3.2 Gen2 Type-A
- **Audio:** Smart Amp Technology, 5.1.2 Channel Virtual Surround Sound, Two-Way AI Noise Cancellation

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3.1 Core Components

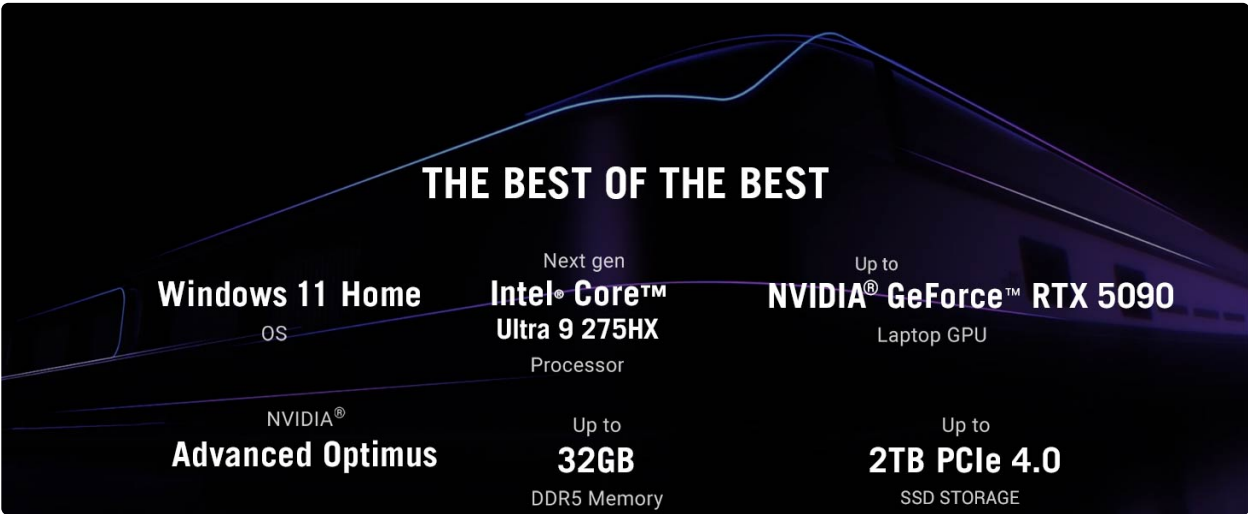


Figure 3.1: Overview of the laptop's core specifications.

3.2 Cooling System

The ROG Intelligent Cooling system ensures optimal thermal performance, even during intense gaming sessions. It features an end-to-end Vapor Chamber, a sandwiched heatsink design, Tri-Fan Technology, and Conductionaut Extreme Liquid Metal for efficient heat dissipation.



Figure 3.2: ROG Intelligent Cooling system components.

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3.3 Display Technology

Experience stunning visuals with the ROG Nebula HDR display. This 16-inch Mini LED panel offers over 2000 dimming zones, 1200 nits peak brightness, a 240Hz refresh rate with 3ms response time, and 100% DCI-P3 color gamut coverage. It supports Dolby Vision, NVIDIA G-SYNC, and is VESA Certified DisplayHDR 1000.



Figure 3.3: ROG Nebula HDR Display specifications.

3.4 Connectivity and Ports

The laptop offers comprehensive connectivity options for all your peripherals and networking needs, including Wi-Fi 7, 2.5G Ethernet, Thunderbolt 5, HDMI 2.1, and multiple USB ports.

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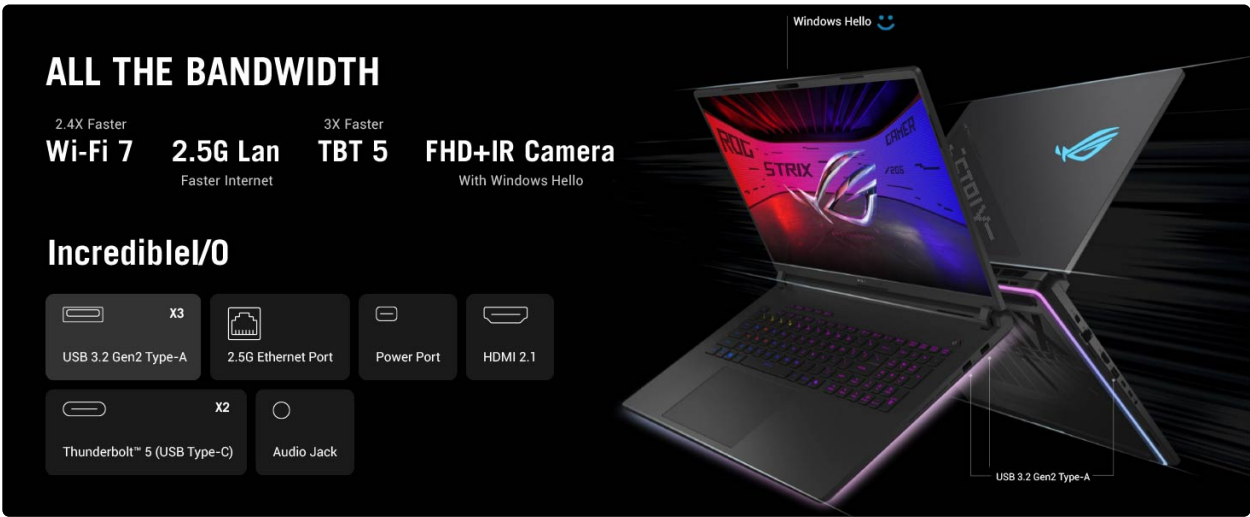


Figure 3.4: Port layout and connectivity options.

3.5 Audio System

Enjoy immersive audio with Smart Amp Technology, 5.1.2 Channel Virtual Surround Sound, and Two-Way AI Noise Cancellation for clear communication.



Figure 3.5: Studio-quality sound features.

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3.6 Keyboard and Touchpad

The full-size Chiclet keyboard features Per-Key RGB backlighting, dedicated gaming hotkeys, and a touchpad with an integrated NumberPad for enhanced functionality.

3 MONTHS XBOX GAME PASS FOR PC



*Terms and exclusions apply. Offer only available in eligible markets for Xbox Game Pass for PC. Eligible markets are determined at activation. Game catalog varies by region, device, and time

Figure 3.6: Keyboard and touchpad with NumberPad.

3.7 Upgradability

The laptop features a tool-less access design, allowing for easy upgrades. It supports up to 64GB 5600MHz DDR5 memory and up to 4TB PCIe 4.0 storage in RAID 0 configuration.

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Figure 3.7: Internal components for upgradability.

4. SETUP

4.1 Initial Power On

1. **Connect Power:** Plug the power adaptor into the laptop's power port and then into a wall outlet. Ensure the power indicator light illuminates.
2. **Open Display:** Carefully open the laptop display to a comfortable viewing angle.
3. **Power On:** Press the power button, typically located on the top right of the keyboard deck.
4. **Initial Setup:** Follow the on-screen instructions to complete the Windows 11 Home setup, including language selection, network connection, and user account creation.

4.2 Connecting Peripherals

Connect external devices such as a mouse, keyboard, external display, or storage devices to the available USB, HDMI, or Thunderbolt ports as needed.

5. OPERATING INSTRUCTIONS

5.1 Power Management

- **Sleep Mode:** Close the lid or press the power button briefly to enter sleep mode.
- **Shut Down:** Click the Start button, then Power > Shut down.
- **Restart:** Click the Start button, then Power > Restart.

5.2 Keyboard Functions

Utilize the function keys (F1-F12) in combination with the **Fn** key for quick access to system controls such as volume, brightness, and wireless settings. The dedicated gaming hotkeys provide quick access to performance modes and other ROG-specific features.

5.3 Display Settings

Adjust display settings through Windows Settings or the NVIDIA Control Panel for optimal gaming and visual experience. You can configure refresh rate, resolution, and color profiles.

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6. MAINTENANCE

6.1 Cleaning

- **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 cloth.
- **Vents:** Regularly clean the cooling vents with compressed air to prevent dust buildup and maintain airflow.

6.2 Battery Care

- Avoid fully discharging the battery frequently.
- Store the laptop in a cool, dry place if not used for extended periods.
- For optimal battery longevity, consider using battery health management features available in ASUS software.

6.3 Software Updates

Regularly update your operating system, drivers (especially graphics drivers), and ASUS utilities to ensure optimal performance, security, and compatibility.

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7. TROUBLESHOOTING

This section addresses common issues you might encounter. For more complex problems, refer to the ASUS support website or contact customer service.

7.1 Power Issues

- **Laptop does not turn on:** Ensure the power adaptor is securely connected to both the laptop and a working power outlet. Check if the power adaptor's LED is lit. Try a different outlet.
- **Battery not charging:** Verify the power adaptor connection. Check for any physical damage to the adaptor or charging port.

7.2 Display Issues

- **No display on screen:** Connect an external monitor to check if the issue is with the laptop's internal display. Ensure the display cable (if external) is properly connected. 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.

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7.3 Performance Issues

- **Slow performance:** Close unnecessary applications. Check for background processes consuming high CPU/RAM. Ensure adequate ventilation and clean cooling vents. Update drivers.
- **Overheating:** Ensure the laptop is on a hard, flat surface to allow proper airflow. Clean the cooling vents. Consider using a laptop cooling pad.

8. SPECIFICATIONS

Detailed technical specifications for the ASUS ROG Strix SCAR 16 G635LX-RW158WS.

Feature	Specification
Brand	ASUS
Model Name	ROG Strix SCAR 16
Model Number	G635LX-RW158WS
Processor	Intel Core Ultra 9 275HX (2.7 GHz, up to 5.4 GHz, 24 cores, 24 Threads)
Graphics	NVIDIA GeForce RTX 5090 Laptop GPU, 24GB GDDR7 RAM
Display	16-inch, 2.5K (2560 x 1600) WQXGA, 16:10, 240Hz, 1200nits, ROG Nebula HDR
Memory	32GB DDR5 RAM (Max 64GB)
Storage	2TB PCIe 4.0 NVMe M.2 Performance SSD
Operating System	Windows 11 Home
Keyboard	Backlit Chiclet Keyboard Per-Key RGB, Copilot key
Webcam	1080P FHD IR Camera for Windows Hello

Feature	Specification
Ports	Thunderbolt 5 (USB Type-C), HDMI 2.1, USB 3.2 Gen2 Type-A, 2.5G Ethernet, Audio Jack
Battery	90 Watt Hours Lithium Ion
Dimensions (L x W x Thickness)	35.4L x 26.8W x 2.3Th Centimeters
Item Weight	2.8 Kilograms

9. WARRANTY AND SUPPORT

9.1 Warranty Information

This genuine ASUS laptop comes with a 1-year Global Warranty and Onsite Domestic Warranty from ASUS, covering manufacturing defects. Physical damage is not covered. To activate your warranty, please register on the ASUS brand website.

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9.2 Customer Support

For product-related queries or immediate assistance, you can contact ASUS customer support:

- **Toll-Free Number:** 18002090365 (Monday - Saturday, 09:00 AM - 06:00 PM)
- **Email:** rc_india@asus.com
- **Online Support:** Visit the official ASUS support website for service centers and further assistance: www.asus.com/in/support

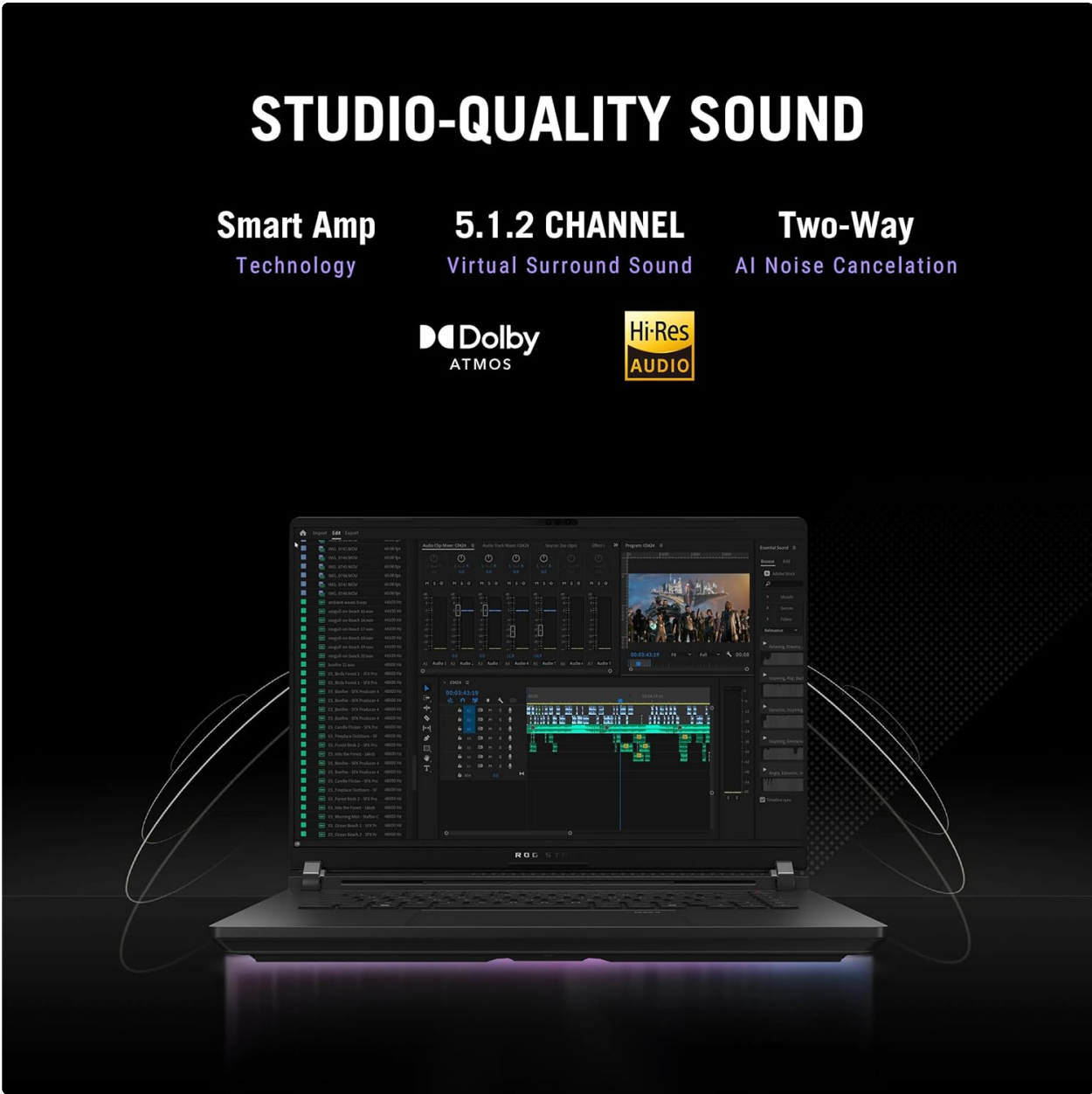


Figure 9.1: ASUS 4A Guarantee and support contact details.

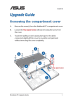
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10. IMPORTANT NOTES

No official product videos were available in the provided data for embedding in this manual.

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Related Documents - G635LX-RW158WS

	ASUS TUF Gaming GeForce RTX 5090 32GB GDDR7 Graphics Card Specifications Detailed specifications for the ASUS TUF Gaming TUF-RTX5090-O32G-GAMING NVIDIA GeForce RTX 5090 graphics card, featuring the NVIDIA GeForce RTX 5090 GPU with 32 GB of GDDR7 memory. Includes processor, memory, ports, performance, design, power, and packaging details.
	Ghid Electronic ASUS ROG Strix SCAR 18 (2023) G834 - Manual Complet Explorați manualul electronic complet pentru notebook-ul ASUS ROG Strix SCAR 18 (2023) G834. Descoperiți ghiduri detaliate despre configurarea hardware, utilizarea sistemului Windows, sfaturi de întreținere și soluții de depanare.
	ASUS ROG Strix G17/SCAR 17 Service Guide: Disassembly and Component Replacement This service guide provides detailed instructions for disassembling, repairing, and replacing components in ASUS ROG Strix G17 (G713) and ROG Strix SCAR 17 (G733) series laptops. It includes component identification, screw specifications, and step-by-step procedures.
	ASUS ROG STRIX SCAR 15 (G533Z) Series Service Guide Official service and disassembly guide for the ASUS ROG STRIX SCAR 15 (G533Z) series notebook. Includes safety precautions, component removal, and assembly instructions.
	ASUS ROG STRIX G15 & SCAR 15 Series Service Guide Comprehensive service guide for ASUS ROG STRIX G15 (G513) and STRIX SCAR 15 (G533) series gaming laptops, detailing disassembly, assembly, component identification, safety, and tools.
	ASUS Notebook PC Upgrade Guide: RAM and M.2 Card Installation A comprehensive guide from ASUS detailing the steps for upgrading your Notebook PC by installing a RAM module and an M.2 card. Includes screw maps and important safety warnings.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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KEEP EXPLORING MANUALS, GUIDES, AND SUPPORT DOCS.

Search model numbers, browse help resources, and jump straight into the next PDF manual or troubleshooting page without losing your place.

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