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> [ASUS ROG Strix Scar 16 \(2024\) Gaming Laptop User Manual - Model G634JYR-XS97](#)

ASUS G634JYR-XS97

ASUS ROG Strix Scar 16 (2024) Gaming Laptop User Manual

Model: G634JYR-XS97

Brand: ASUS

INTRODUCTION

This manual provides essential information for setting up, operating, and maintaining your ASUS ROG Strix Scar 16 (2024) Gaming Laptop, model G634JYR-XS97. Please read this guide thoroughly to ensure optimal performance and longevity of your device. This laptop is designed for high-performance gaming and demanding applications, featuring advanced components and cooling solutions.

Your browser does not support the video tag.

Video: An overview of the 2024 ROG Strix SCAR 16 and 18 series, showcasing their design and key features for gaming enthusiasts.

SAFETY INFORMATION

- **Power Supply:** Use only the power adapter provided with your laptop. Using an incompatible adapter may damage the device and void your warranty.
- **Ventilation:** Ensure proper ventilation by keeping the air vents clear. Do not operate the laptop on soft surfaces like beds or sofas that can block airflow.
- **Liquid Exposure:** Keep the laptop away from liquids. Spills can cause electrical shorts and damage internal components.
- **Temperature:** Avoid exposing the laptop to extreme temperatures (hot or cold) or direct sunlight for extended periods.
- **Cleaning:** Disconnect the power adapter before cleaning. Use a soft, dry cloth. Avoid liquid cleaners or aerosols.
- **Battery:** Do not attempt to replace the battery yourself. Contact authorized service personnel for battery replacement.

WHAT'S IN THE BOX

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

- ASUS ROG Strix Scar 16 Laptop (Model: G634JYR-XS97)
- 1 Customizable Armor Cap
- User Guide (this document)
- Power Cord and Adapter

PRODUCT OVERVIEW

The ASUS ROG Strix Scar 16 (2024) is a high-performance gaming laptop engineered for an immersive experience. It combines cutting-edge hardware with advanced cooling and display technologies.



Image: The ASUS ROG Strix Scar 16 laptop highlighting its core performance features: Windows 11 Pro, 14th Gen Intel Core i9-14900HX CPU, NVIDIA GeForce RTX 4090 Laptop GPU with Advanced Optimus, and up to 175W Max TGP.

Key Features:

- **Pinnacle of Performance:** Equipped with Windows 11 Pro, a 14th Gen Intel Core i9-14900HX processor, and NVIDIA GeForce RTX 4090 Laptop GPU at 175W Max TGP for superior gaming and multitasking.
- **Blazing Fast Memory and Storage:** Features 32GB of DDR5-5600MHz memory and a 2TB PCIe 4x4 SSD for rapid data access and smooth operation.
- **ROG Nebula HDR Display:** A 16-inch Nebula HDR Mini LED display with QHD (2560x1440) resolution, 240Hz/3ms refresh rate, 1100 nits brightness, 2000 dimming zones, 100% DCI-P3 color, and Pantone Validation.
- **ROG Intelligent Cooling:** Advanced cooling system with upgraded liquid metal on both CPU and GPU, and a third auxiliary fan to maintain sustained performance.
- **MUX Switch with Advanced Optimus:** Enhances gaming performance by routing frames directly from the dGPU to the display and optimizes battery life by automatically switching between integrated and discrete graphics.

Your browser does not support the video tag.

Video: This video demonstrates the rigorous quality testing processes for ROG laptops, including vibration, panel pressure, twisting, mechanical shock, keyboard durability, port plugging, hinge rotation, drop tests, acoustic testing, humidity, extreme temperature, and high altitude simulations, ensuring the device is built to last.

SETUP

1. Initial Power-On

1. **Connect Power:** Plug the power adapter into the laptop's power port and then into a wall outlet.
2. **Open Lid:** Gently open the laptop lid. The laptop may power on automatically. If not, press the power button located on the top right of the keyboard.
3. **Windows Setup:** Follow the on-screen instructions to complete the Windows 11 Pro setup. This includes selecting your region, connecting to a network, and creating a user account.

2. Connecting Peripherals

Your ROG Strix Scar 16 offers various ports for connecting external devices:



Image: The side of the ASUS ROG Strix Scar 16 laptop, illustrating the available ports including power, 2.5G LAN RJ-45 jack, HDMI (2.1), USB 3.2 Gen2 Type-C with Thunderbolt 4 (support DisplayPort), USB 3.2 Gen2 Type-C (support DisplayPort & PD Charger), USB 3.2 Gen2 Type-A, and Audio jack.

- **USB Devices:** Connect USB mice, keyboards, or external drives to the USB 3.2 Gen2 Type-A ports or USB 3.2 Gen2 Type-C ports.
- **External Display:** Use the HDMI 2.1 port or a USB 3.2 Gen2 Type-C port with DisplayPort support to connect an external monitor.
- **Network:** For a stable wired internet connection, use the 2.5G LAN RJ-45 jack. For wireless, connect via Wi-Fi 6E.
- **Audio:** Plug headphones or external speakers into the audio jack.

OPERATING YOUR LAPTOP

Keyboard and Touchpad



Image: A detailed view of the ASUS ROG Strix Scar 16's full-size keyboard, featuring Aura Sync RGB lighting, gaming hotkeys, and a touchpad-based NumberPad for enhanced functionality.

- **Full-Size Keyboard:** The laptop features a full-size keyboard with per-key RGB lighting customizable via Aura Sync technology.
- **Gaming Hotkeys:** Dedicated hotkeys provide quick access to essential functions.
- **Touchpad with NumberPad:** The large touchpad integrates a virtual NumberPad for convenient numeric input.

Display Features



Image: The ASUS ROG Strix Scar 16 showcasing its Nebula HDR Mini LED display, highlighting features like up to 2000 dimming zones, 240Hz/3ms QHD resolution, 100% DCI-P3 color space, VESA Certified DisplayHDR 1000, and NVIDIA G-SYNC support.

The ROG Nebula HDR display offers an exceptional visual experience:

- **Mini LED Panel:** Provides superior contrast and brightness with up to 1100 nits and 2000 dimming zones.
- **High Refresh Rate:** Enjoy smooth visuals with a 240Hz refresh rate and 3ms response time at QHD resolution.
- **Color Accuracy:** 100% DCI-P3 color gamut with Pantone Validation ensures accurate and vibrant colors.
- **NVIDIA G-SYNC:** Synchronizes the display's refresh rate with the GPU for tear-free gaming.



Image: The ASUS ROG Strix Scar 16 laptop illustrating its studio-quality sound system, featuring 4x Smart Amp Speakers, 5.1.2 Channel Virtual Surround Sound, Two-Way AI Noise Cancellation, Dolby Atmos, and Hi-Res Audio support.

Experience immersive audio with:

- **4x Smart Amp Speakers:** Delivers powerful and clear sound.
- **5.1.2 Channel Virtual Surround Sound:** Creates a rich, spatial audio experience.
- **Two-Way AI Noise Cancellation:** Enhances voice clarity for communication.
- **Dolby Atmos & Hi-Res Audio:** Supports high-fidelity audio standards.

Performance and Cooling

DESIGNED TO WIN

Customizable
Armor Caps

Rear & Bezel Glow

**Anti-Fingerprint
Coating**

Semi-Translucent
Keyboard Deck

Laser-Etched
Styling



Image: An internal view of the ASUS ROG Strix Scar 16's Intelligent Cooling system, showing full-surround vents, Tri-Fan Technology, full-width heatsink, Conductionaut Extreme liquid metal, and 0dB Ambient Cooling.

The ROG Intelligent Cooling system ensures peak performance during intense gaming sessions:

- **Liquid Metal Thermal Compound:** Conductionaut Extreme liquid metal on both the CPU and GPU improves heat transfer.
- **Tri-Fan Technology:** Multiple fans work in conjunction with a full-width heatsink and full-surround vents for efficient heat dissipation.
- **0dB Ambient Cooling:** Fans can switch off during light loads for silent operation.
- **MUX Switch:** Manually or automatically switch between integrated and discrete graphics for performance or battery life optimization.

MAINTENANCE

Cleaning Your Laptop

- **Exterior:** Use a soft, lint-free cloth slightly dampened with water or a mild cleaning solution. Avoid harsh

chemicals.

- **Screen:** Use a microfiber cloth specifically designed for screens. For stubborn smudges, use a screen cleaner spray applied to the cloth, not directly to the screen.
- **Vents:** Periodically use compressed air to clear dust from the cooling vents to maintain optimal airflow.

Battery Care

- **Charging:** For optimal battery health, avoid constantly keeping the laptop at 100% charge or letting it fully discharge frequently.
- **Storage:** If storing the laptop for an extended period, charge the battery to about 50-60% before turning it off.
- **Rapid Type-C Charging:** Utilize the Type-C port for convenient and fast charging when needed.

Software Updates

Regularly update your operating system, drivers, and ASUS software (e.g., Armoury Crate) to ensure system stability, security, and performance. These updates often include performance enhancements and bug fixes.

TROUBLESHOOTING

- **Laptop Not Powering On:**
 - Ensure the power adapter is securely connected to both the laptop and a working power outlet.
 - Try a different power outlet.
 - If the battery is completely drained, it may take a few minutes of charging before the laptop can power on.
- **Screen is Blank or Flickering:**
 - Check if the laptop is connected to an external monitor. Disconnect it to see if the internal display works.
 - Restart the laptop.
 - Update your graphics drivers.
- **Overheating:**
 - Ensure all ventilation vents are clear of obstructions.
 - Use the laptop on a hard, flat surface.
 - Adjust fan profiles in Armoury Crate to a more aggressive setting if needed.
- **Poor Wi-Fi Connection:**
 - Ensure your Wi-Fi router is working correctly.
 - Move closer to the router or reduce interference from other devices.
 - Update your Wi-Fi drivers.
- **Keyboard or Touchpad Not Responding:**
 - Restart the laptop.
 - Check for any physical obstructions.
 - Ensure drivers are up to date.

For more detailed troubleshooting or persistent issues, please refer to the ASUS support website or contact customer service.

SPECIFICATIONS

Feature	Specification
Model Name	G634JYR-XS97
Operating System	Windows 11 Pro
Processor	Intel Core i9-14900HX (5.8 GHz)
Graphics	NVIDIA GeForce RTX 4090 Laptop GPU (16 GB GDDR6, 175W Max TGP)
Display	16-inch Nebula HDR Mini LED, QHD (2560x1440), 240Hz/3ms, 1100 nits, 100% DCI-P3, G-SYNC
RAM	32 GB DDR5-5600MHz
Storage	2 TB PCIe 4x4 SSD
Wireless Connectivity	Wi-Fi 6E, Bluetooth
Ports	2x USB 3.2 Gen2 Type-A, 2x USB 3.2 Gen2 Type-C (Thunderbolt 4, DisplayPort, PD Charger), HDMI 2.1, 2.5G LAN RJ-45, Audio Jack
Battery	90W Lithium Ion (included)
Dimensions (LxWxH)	13.94 x 0.89 x 10.39 inches
Weight	11.09 pounds

WARRANTY AND SUPPORT

Your ASUS ROG Strix Scar 16 (2024) Gaming Laptop comes with a manufacturer's warranty. For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official ASUS support website. For technical assistance, driver downloads, or service inquiries, please visit www.asus.com/support or contact ASUS customer service in your region.