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ASUS G615LP-XS97

ASUS ROG Strix G16 G615LP-XS97 Gaming Laptop User Manual

1. Introduction

This manual provides essential information for the setup, operation, maintenance, and troubleshooting of your ASUS ROG Strix G16 (2025) Gaming Laptop, model G615LP-XS97. Designed for high-performance gaming and creative tasks, this laptop features advanced hardware and cooling solutions to deliver a premium user experience.

Figure 1: Front-left view of the ASUS ROG Strix G16 Gaming Laptop.

2. What's in the Box

Please check that all the following items are included in your product package:

- ASUS ROG Strix G16 Gaming Laptop (Model: G615LP-XS97)
- Power Cord and Adapter
- User Guide (this document)

3. Initial Setup

1. **Connect Power:** Plug the power adapter into the laptop's power input port and then into a wall outlet. Ensure the power indicator light illuminates.
2. **Power On:** Open the laptop lid and press the power button, typically located on the keyboard deck.
3. **Initial Windows Setup:** Follow the on-screen instructions to complete the Windows 11 Pro setup, including language selection, network connection, and user account creation.

4. **Software Updates:** After initial setup, connect to the internet and allow Windows to download and install any pending updates. It is also recommended to check for ASUS driver updates via the MyASUS application or the official ASUS support website.

Figure 2: ASUS ROG Strix G16 Gaming Laptop ready for initial setup.

4. Key Features

4.1 Performance

- **Processor:** Intel® Core™ Ultra 9 275HX Processor
- **Graphics:** NVIDIA® GeForce RTX™ 5070 Laptop GPU with NVIDIA Blackwell architecture, DLSS 4, and Max-Q technologies
- **Memory:** 32GB DDR5-5600MHz RAM
- **Storage:** 2TB PCIe Gen 4 SSD
- **Operating System:** Windows 11 Pro

Figure 3: Overview of the laptop's core performance components.

4.2 ROG Nebula Display

Experience stunning visuals on the 16-inch ROG Nebula Display, featuring:

- **Resolution:** 2.5K (2560 x 1600 pixels)
- **Refresh Rate:** Ultra-fast 240Hz with 3ms response time
- **Color Accuracy:** 100% DCI-P3 coverage
- **Brightness:** 500 nits peak brightness
- **Technology:** ACR film for enhanced contrast and reduced glare, Dolby Vision HDR, NVIDIA G-SYNC support

Figure 4: Key features of the ROG Nebula Display.

4.3 ROG Intelligent Cooling

The advanced ROG Intelligent Cooling system ensures optimal performance and thermal management:

- End-to-end Vapor Chamber
- Tri-Fan Technology
- Sandwiched Heatsink design
- Capable of achieving up to 15°C cooler CPU temperatures

Figure 5: Components of the ROG Intelligent Cooling system.

4.4 Keyboard and Lighting

- Full-size keyboard with Per-Key RGB lighting
- Customizable full-surround RGB light bar that syncs with your keyboard and ROG peripherals
- Stealth Mode to turn off all lighting for professional settings

Figure 6: The RGB-lit keyboard and light bar of the laptop.

4.5 Audio

- Smart Amp Technology
- 5.1.2 Channel Virtual Surround Sound
- Two-Way AI Noise Cancellation
- Dolby Atmos support
- Hi-Res Audio certification

Figure 7: Audio technologies integrated into the laptop.

4.6 Connectivity and Ports

The laptop offers comprehensive connectivity options:

- Wi-Fi 7 for fast wireless networking
- 2.5G LAN for high-speed wired internet
- Thunderbolt 4 (TBT 4) port
- FHD+IR Camera with Windows Hello support
- Multiple USB 3.0 ports
- HDMI output
- Ethernet port

Figure 8: Left side ports including USB and audio jack.

Figure 9: Right side view with cooling vents.

Figure 10: Rear ports for display and network connectivity.

4.7 Upgradability

The laptop features a tool-free design and Q-Latch System for easy access to internal components, facilitating memory and storage upgrades.

Figure 11: Internal layout for component upgrades.

5. Operating Your Laptop

5.1 Power On/Off

- **To Power On:** Press the power button.
- **To Shut Down:** Click the Windows Start button, then Power > Shut down.
- **To Restart:** Click the Windows Start button, then Power > Restart.
- **To Sleep:** Click the Windows Start button, then Power > Sleep, or close the laptop lid.

5.2 Keyboard and Touchpad

The full-size keyboard provides a comfortable typing experience. The touchpad supports multi-touch gestures for navigation. Refer to Windows settings for customizing touchpad gestures.

6. Maintenance and Care

- **Cleaning:** Use a soft, lint-free cloth to clean the screen and chassis. Avoid harsh chemicals.
- **Ventilation:** Ensure the cooling vents (located on the sides and bottom) are clear of obstructions to prevent overheating.
- **Battery Care:** For optimal battery longevity, avoid consistently discharging the battery completely or keeping it at 100% charge for extended periods.
- **Software Updates:** Regularly update your operating system, drivers, and applications to ensure system stability and security.

Figure 12: Bottom view highlighting cooling vents.

7. Troubleshooting

7.1 Common Issues and Solutions

- **Laptop does not power on:** Ensure the power adapter is securely connected and the wall outlet is functional. Try a different outlet. If using battery, ensure it is charged.
- **Screen is blank:** Check if the laptop is powered on. Press Fn + F7 (or the corresponding display toggle key) to ensure the display is not turned off. Connect an external monitor to check if the issue is with the laptop's display.
- **Overheating:** Ensure all cooling vents are unobstructed. Use the laptop on a hard, flat surface. Update graphics drivers. Adjust power settings to a cooler profile if available in Armoury Crate.
- **Wi-Fi connectivity issues:** Restart your router and modem. Ensure Wi-Fi is enabled on the laptop (Fn + F10 or via Windows settings). Update Wi-Fi drivers.
- **Slow performance:** Close unnecessary applications. Check for background processes consuming high resources (Task Manager). Ensure sufficient free storage space. Run a virus scan.

8. Specifications

Feature	Specification
Model Name	ROG Strix G16 (G615LP-XS97)
Processor	Intel® Core™ Ultra 9 275HX (5.4 GHz)
Graphics Coprocessor	NVIDIA® GeForce RTX™ 5070 (8 GB GDDR6)
RAM	32 GB DDR5-5600MHz
Hard Drive	2 TB PCIe Gen 4 SSD
Operating System	Windows 11 Pro
Screen Size	16 Inches
Screen Resolution	2560 x 1600 pixels (2.5K)
Refresh Rate	240Hz
Wireless Type	Wi-Fi 7 (802.11ax)
USB 3.0 Ports	3
Item Weight	5.84 pounds
Product Dimensions	13.94 x 0.9 x 10.55 inches
Color	Eclipse Gray
Special Features	Backlit Keyboard, Numeric Keypad

9. Warranty and Support

9.1 Manufacturer's Warranty

Every ROG laptop includes a 12-month warranty as standard. This warranty offers expert support, thorough diagnostics, and genuine parts if a repair is needed. Additionally, ASUS provides a 90-day warranty on all warranty replacement parts.

9.2 Accidental Damage Protection (ADP)

ASUS provides one year of free Accidental Damage Protection (ADP) against liquid spills, drops, and electrical surges on new laptops registered within 60 days of purchase. This ensures coverage for common accidents.

9.3 Contact Support

For technical assistance, warranty claims, or further information, please visit the official ASUS support website or contact their customer service.

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