ASUS G712LW-ES74

ASUS ROG Strix G17 Gaming Laptop User Manual

Model: G712LW-ES74
Brand: ASUS

PRODUCT OVERVIEW

The ASUS ROG Strix G17 is a high-performance gaming laptop designed for serious gaming and multitasking. It features advanced components and intelligent cooling solutions to deliver an exceptional user experience.

Image: Front view of the ASUS ROG Strix G17 Gaming Laptop, showcasing its display and keyboard.

Key Features

- **NVIDIA GeForce RTX 2070 8GB GDDR6 with ROG Boost:** Delivers powerful graphics performance for demanding games and applications.
- **10th Gen Intel Core i7-10750H Processor:** Provides high processing power for smooth multitasking and gaming.
- **17.3" 144Hz 3ms Full HD IPS-Type Display:** Offers a fast and vibrant visual experience with a high refresh rate.
- **16GB DDR4 3200MHz RAM:** Ensures efficient memory performance for various tasks.
- **512GB PCIe NVMe M.2 SSD:** Provides fast storage and quick boot times.
- **Windows 10 Home:** Pre-installed operating system for immediate use.
- **Gig+ Wi-Fi 6 (802.11ax):** Offers ultra-fast wireless connectivity.

SETUP

Initial Power On

Before first use, ensure the laptop is connected to the power adapter.

1. Connect the power adapter to the laptop's power input port.
2. Plug the power adapter into a wall outlet.
3. Open the laptop lid.
4. Press the power button located on the top-right of the keyboard deck to turn on the laptop.
5. Follow the on-screen instructions to complete the Windows 10 setup process. This includes setting up your user account, network connection, and privacy settings.

Connecting Peripherals

The ROG Strix G17 provides various ports for connecting external devices.

Image: Side view of the laptop, highlighting the USB and audio ports.

- **USB Ports:** Connect USB devices such as mice, keyboards, external hard drives, or USB flash drives.
- **HDMI Port:** Connect an external monitor or TV for extended display.
- **Audio Jack:** Connect headphones or external speakers.
- **Ethernet Port:** Connect to a wired network for stable internet access.

OPERATING THE LAPTOP

Keyboard and Touchpad

The laptop features a full-sized keyboard with customizable RGB lighting and a precision touchpad.

Image: Top-down view of the laptop's keyboard and touchpad.

- **Function Keys (Fn):** Use in combination with F1-F12 keys for quick access to system functions like volume control, brightness adjustment, and Wi-Fi toggle.
- **ROG Key:** Dedicated key to launch the ASUS Armoury Crate software for system monitoring and performance tuning.
- **Touchpad Gestures:** Supports multi-touch gestures for navigation, zooming, and scrolling. Refer to Windows settings for customization.

Display Settings

Optimize your visual experience with the 17.3" 144Hz display.

- **Refresh Rate:** The display is set to 144Hz by default for smooth visuals. You can verify or change this in Windows Display Settings.
- **Brightness:** Adjust screen brightness using the Fn + F7 (decrease) and Fn + F8 (increase) keys.
- **External Display:** To connect an external monitor, use the HDMI port. Press Fn + F9 to cycle through display modes (PC screen only, Duplicate, Extend, Second screen only).

MAINTENANCE

Cleaning

- **Screen:** Use a soft, lint-free cloth slightly dampened with water or a screen cleaner. Avoid harsh chemicals.
- **Keyboard and Chassis:** Use a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, ensuring no liquid enters the components.
- **Vents:** Periodically clean the air vents with compressed air to prevent dust buildup, which can affect cooling performance.

Software Updates

Regularly update your operating system and drivers to ensure optimal performance and security.

- **Windows Updates:** Access Windows Update settings to check for and install the latest operating system updates.
- **Driver Updates:** Use the pre-installed ASUS Armoury Crate or MyASUS application to check for and install the latest drivers for your hardware components, including graphics drivers.

Battery Care

To prolong battery lifespan:

- Avoid fully discharging the battery frequently.
- Store the laptop in a cool, dry place if not used for extended periods.
- For long-term storage, charge the battery to about 50-60%.

TROUBLESHOOTING

Common Issues and Solutions

Problem	Solution
Laptop does not power on	Ensure the power adapter is securely connected to both the laptop and a working power outlet. Try a different outlet. If battery is completely drained, allow it to charge for a few minutes before attempting to power on.
No display on screen	Check screen brightness (Fn + F8). Ensure no external monitor is set as the primary display (Fn + F9). Restart the laptop.
Wi-Fi connection issues	Check if Wi-Fi is enabled (Fn + F10). Restart your router/modem. Update Wi-Fi drivers via MyASUS or ASUS support website.
Overheating during use	Ensure air vents are clear and unobstructed. Use the laptop on a hard, flat surface. Adjust fan profiles in Armoury Crate. Consider cleaning internal components if dust buildup is suspected (professional service recommended).

System Recovery

In case of severe software issues, you may need to perform a system recovery.

- **Windows Recovery Environment:** Access through Windows Settings > Update & Security > Recovery. Options include Reset this PC (keep files or remove everything) or Advanced startup for more recovery

tools.

- **ASUS Recovery Partition:** Some models may have a dedicated recovery partition. Consult ASUS support for specific instructions if needed.

SPECIFICATIONS

Feature	Detail
Model	G712LW-ES74
Processor	10th Gen Intel Core i7-10750H (12M Cache, up to 5.0GHz)
Graphics	NVIDIA GeForce RTX 2070 8GB GDDR6 with ROG Boost
Display	17.3" 144Hz 3ms Full HD (1920x1080) IPS-Type
RAM	16GB DDR4 3200MHz
Storage	512GB PCIe NVMe M.2 SSD
Operating System	Windows 10 Home
Wireless Connectivity	Gig+ Wi-Fi 6 (802.11ax)
Dimensions (LxWxH)	15.7 x 11.6 x 1 inches
Weight	6.28 pounds

WARRANTY AND SUPPORT

ASUS provides warranty coverage for its products. For detailed warranty information, please refer to the warranty card included with your product or visit the official ASUS support website.

- **Online Support:** For drivers, manuals, FAQs, and troubleshooting guides, visit the ASUS Support Website.
- **Contact Support:** If you require further assistance, you can contact ASUS customer service through their website or the MyASUS application.
- **MyASUS Application:** The pre-installed MyASUS application offers system diagnostics, software updates, and direct access to customer support.

Related Documents - G712LW-ES74

[ASUS Dual GeForce RTX 4060 Ti SSD Motherboard Compatibility List](#)

This document provides a comprehensive list of compatible ASUS motherboards for the Dual GeForce RTX 4060 Ti SSD, detailing PCIe lane configuration requirements and BIOS settings for optimal performance.

[ASUS TUF GAMING B560M-PLUS WIFI Motherboard Technical Specifications and Manual](#)

Comprehensive technical specifications, installation guide, and BIOS information for the ASUS TUF GAMING B560M-PLUS WIFI motherboard, featuring Intel B560 chipset, LGA1200 socket, DDR4 memory support, PCIe 4.0, Wi-Fi 6, and 2.5Gb Ethernet.

[ASUS NUC 14 Performance: Powerful Mini PC for Business, AI, and Creators](#)

Explore the ASUS NUC 14 Performance, a compact and powerful mini PC featuring Intel® Core™ Ultra processors and NVIDIA® GeForce RTX™ 40 series graphics. Ideal for AI, business, STEM, and creative professionals, offering high performance, multiple 4K display support, and extensive connectivity.

[ASUS ZenBook Duo 14 (UX482) and ASUS Product Guide](#)

Discover the latest ASUS laptops and computing devices, including the innovative ZenBook Duo 14 (UX482), VivoBook, ExpertBook, and ProArt series. This guide provides product details, specifications, warranty, and service information.

[ASUS Product Guide 2020: ZenBook, VivoBook, and Laptop Series | Specs & Warranty](#)

Explore the ASUS Product Guide for October-December 2020, featuring the latest ZenBook, VivoBook, and Laptop series. Discover detailed specifications, features, warranty information, and store locations for ASUS's innovative range of notebooks.

[ROG STRIX Z590-E GAMING Series Motherboard Manual](#)

Comprehensive guide for the ASUS ROG STRIX Z590-E GAMING Series motherboard, covering installation, BIOS settings, and software features.