

ASUS FA507NUR-AS73

ASUS TUF Gaming A15 Gaming Laptop User Manual

Model: FA507NUR-AS73

1. SETUP GUIDE

This section provides instructions for the initial setup of your ASUS TUF Gaming A15 laptop.

1.1 Unboxing and Initial Inspection

Carefully remove all components from the packaging. Verify that all items listed in the 'What's in the Box' section are present and inspect the laptop for any physical damage.

- ASUS TUF Gaming A15 Laptop (FA507NUR-AS73)
- Power Cord and Adapter
- User Guide (this document)

1.2 Connecting the Power Adapter

Before first use, ensure the laptop is fully charged. Connect the power adapter to the laptop's power input port and then plug the power cord into a wall outlet.



Image: The ASUS TUF Gaming A15 laptop, showcasing its design and illuminated keyboard.

1.3 Initial Boot and Windows 11 Setup

Press the power button to turn on the laptop. Follow the on-screen prompts to complete the Windows 11 initial setup, including language selection, network connection, and user account creation.

1.4 Connecting Peripherals

The laptop features various ports for connecting external devices. Refer to the diagram below for port identification.

SAFE PORT IN A STORM

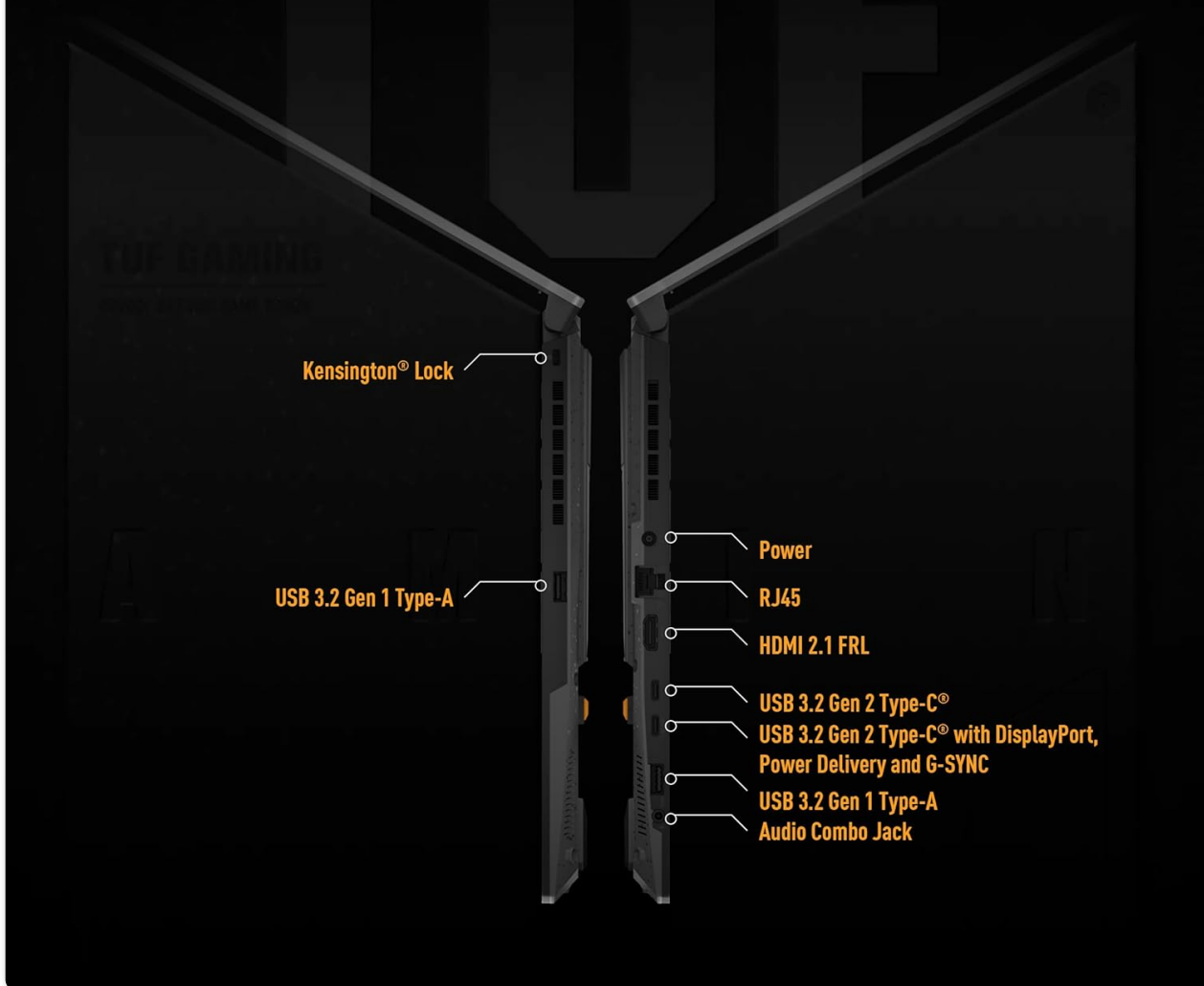


Image: Detailed view of the laptop's side ports, including USB 3.2 Gen 1 Type-A, Kensington Lock, Power, RJ45, HDMI 2.1 FRL, USB 3.2 Gen 2 Type-C with DisplayPort, Power Delivery and G-SYNC, and Audio Combo Jack.

- **USB Ports:** Connect USB devices such as mice, keyboards, or external storage drives.
- **HDMI Port:** Connect an external monitor or TV.
- **RJ45 Port:** For wired Ethernet network connection.
- **Audio Combo Jack:** For headphones or headsets.

2. OPERATING INSTRUCTIONS

This section covers the basic operation of your ASUS TUF Gaming A15 laptop.

2.1 Keyboard and Touchpad Usage

The laptop features a full-sized keyboard with a one-zone RGB backlight and a responsive touchpad. The keyboard includes 4 hotkeys for quick access to common functions.

READY FOR ANYTHING

Windows 11
OS

AMD
Ryzen™ 7 7435HS
Processor

NVIDIA® GeForce
RTX™ 4050
Laptop GPU

MUX Switch
with NVIDIA Advanced Optimus

512GB SSD
PCIe® Gen 4x4

16GB DDR5
4800MHz RAM



Image: A detailed view of the laptop's keyboard, highlighting the one-zone RGB lighting and 1.7mm key travel distance.

2.2 Display Features

The 15.6-inch FHD (1920 x 1080) display offers a 144Hz refresh rate and 100% sRGB color coverage. Adaptive Sync technology reduces screen tearing and stuttering for a smoother visual experience.

THE WORLD AT YOUR FINGERTIPS

4 Hotkeys

One-zone RGB

Mini-LED RGB Backlight
Keyboard

1.7mm
Travel Distance

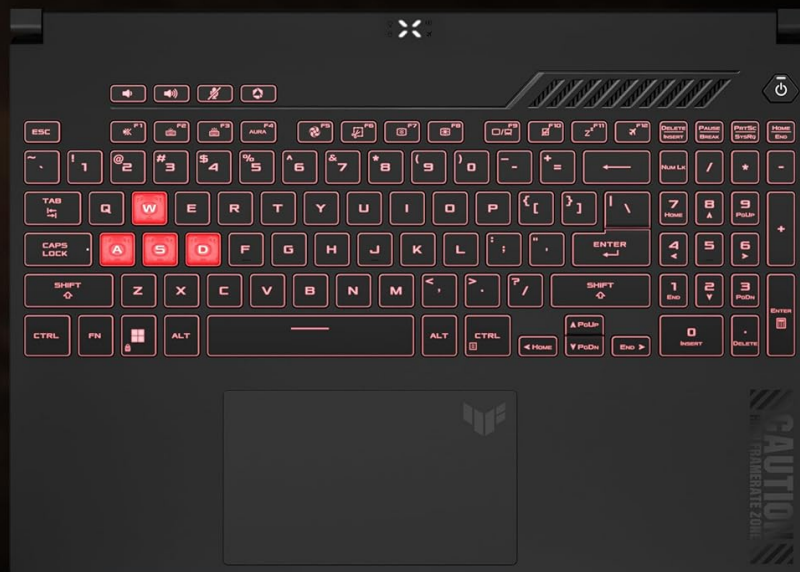


Image: The laptop's display showcasing vibrant graphics from a racing game, emphasizing the FHD 144Hz and 100% sRGB features.

2.3 Audio System

Experience immersive audio with Dolby Atmos support and Hi-Res Audio certification. The Two-way AI Noise Cancellation technology enhances communication by filtering out background noise.

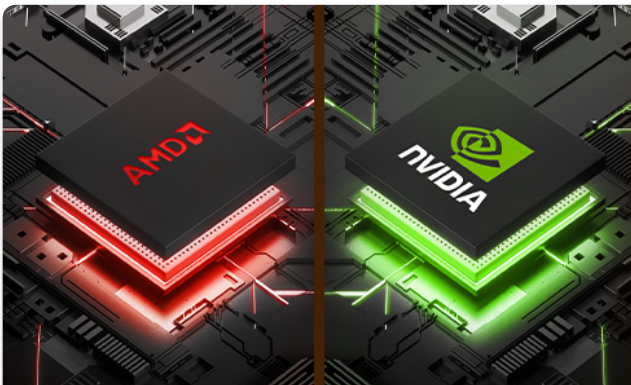
MILITARY GRADE TOUGHNESS



Image: The laptop with visual representations of sound waves, highlighting Dolby Atmos, Hi-Res Audio, and Two-way AI Noise Cancellation features.

2.4 Performance Management (MUX Switch & Cooling)

The laptop features a MUX Switch with Advanced Optimus, allowing the system to automatically switch between the integrated GPU (iGPU) and dedicated GPU (dGPU) based on the task, optimizing performance and battery life. The cooling system includes a pair of 84-blade Arc Flow Fans for efficient heat dissipation.



READY FOR ANYTHING

Stream and multitask with an AMD Ryzen™ 7000 Series processor and NVIDIA® GeForce RTX™ 40 Series Laptop GPU. Swift 4800MHz DDR5 RAM allow for fast multitasking while PCIe 4x4 SSD decrease loading times. An extra M.2 NVMe slot enables easy upgradeability.

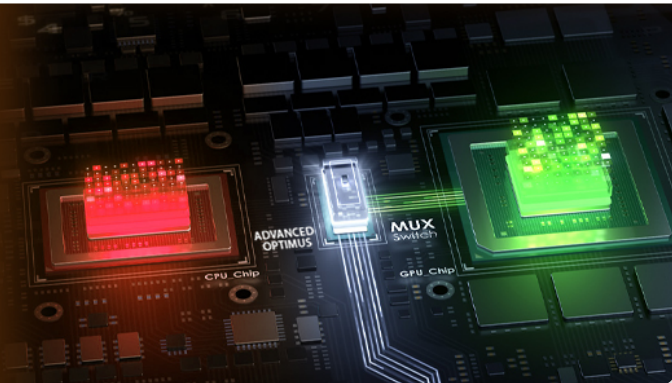
WINDOWS 11
OS

AMD
Ryzen™ 7 7435HS
Processor

NVIDIA® GeForce
RTX™ 4050
Laptop GPU

MUX SWITCH WITH NVIDIA ADVANCED OPTIMUS

A GPU MUX switch lets the GPU route frames directly to the display, increasing performance and decreasing latency. Without a MUX switch, the GPU is forced to go through the CPU's integrated graphics first before reaching the display, which hurts gaming performance. With Advanced Optimus enabled, the system can automatically switch between GPU modes based on the task to optimize performance and battery life.



ADVANCED OPTIMUS

MUX Switch

CPU Chip

GPU Chip

Image: A diagram illustrating the MUX Switch with NVIDIA Advanced Optimus technology, showing how it routes GPU frames directly to the display for improved performance.

NEVER MISS A MOMENT

FHD 144Hz

100% sRGB

Smooth
NVIDIA® G-SYNC
Technology



Image: An internal view of the ASUS TUF Gaming A15, highlighting the dual 84-blade Arc Flow Fans designed for enhanced cooling performance.

2.5 Battery Management

The laptop is equipped with a 90Wh battery. Fast charging technology allows the battery to reach 50% charge in approximately 30 minutes.

TAKE CHARGE

90Wh
Battery

50% in 30 mins
Fast Charging Technology



Image: The laptop displaying battery information, indicating a 90Wh battery and 50% charge in 30 minutes with Fast Charging Technology.

3. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your ASUS TUF Gaming A15 laptop.

3.1 Cleaning the Laptop

- **Screen:** Use a soft, lint-free cloth slightly dampened with water or a screen cleaner. Avoid harsh chemicals.
- **Keyboard and Chassis:** Use a soft cloth to wipe surfaces. For dust in crevices, use compressed air.
- **Vents:** Regularly check and clean the cooling vents to prevent dust buildup, which can impede airflow and cause overheating.

3.2 Software Updates

Keep your operating system (Windows 11) and device drivers updated. Regular updates improve system stability, security, and performance. You can check for updates through Windows Update and ASUS Armoury Crate software.

3.3 Storage Management

The laptop comes with a 512GB PCIe 4.0 SSD. Regularly manage your storage by deleting unnecessary files, uninstalling unused applications, and backing up important data to external storage or cloud services.

4. TROUBLESHOOTING

This section provides solutions for common issues you might encounter with your ASUS TUF Gaming A15 laptop.

4.1 General Troubleshooting Steps

- **Restart:** A simple restart can resolve many temporary software glitches.
- **Check Connections:** Ensure all cables (power, peripherals) are securely connected.
- **Update Drivers:** Outdated drivers can cause performance issues. Ensure your graphics, chipset, and other drivers are up to date.
- **Run Diagnostics:** Utilize built-in Windows diagnostic tools or ASUS support software to identify hardware issues.

4.2 Common Issues and Solutions

- **Laptop not powering on:** Ensure the power adapter is connected and the battery is charged. Try a hard reset (hold power button for 15 seconds).
- **No display:** Connect an external monitor to check if the issue is with the laptop's screen. Ensure graphics drivers are installed correctly.
- **Overheating:** Ensure vents are clear of obstructions. Use the laptop on a hard, flat surface. Consider adjusting fan profiles in Armoury Crate.
- **Poor performance:** Check for background applications consuming resources. Ensure MUX Switch is configured correctly for demanding tasks.

4.3 Military-Grade Toughness

The ASUS TUF Gaming A15 has undergone rigorous MIL-STD-810H tests, ensuring its durability against drops, vibration, humidity, and extreme temperatures. This robust design contributes to its reliability in various conditions.



Image: The ASUS TUF Gaming A15 laptop with icons representing its MIL-STD-810H military-grade durability tests, including drop, shake, heat, cold, and humidity resistance.

5. SPECIFICATIONS

Detailed technical specifications for the ASUS TUF Gaming A15 (FA507NUR-AS73).

Feature	Specification
Model Name	FA507NUR-AS73
Operating System	Windows 11 Home
Processor	AMD Ryzen 7 7435HS (4.5 GHz)
Graphics Coprocessor	NVIDIA GeForce RTX 4050 (6 GB GDDR6)

RAM	16GB DDR5-4800MHz
Storage	512GB PCIe 4.0 SSD
Screen Size	15.6 Inches
Screen Resolution	1920 x 1080 pixels (FHD)
Refresh Rate	144Hz
Color Gamut	100% sRGB
Wireless Type	802.11ax (Wi-Fi 6)
USB 3.0 Ports	2
Item Weight	4.85 pounds
Product Dimensions	13.94 x 0.88 x 9.88 inches
Battery	90Wh Lithium Ion (included)
Color	Mecha Gray

6. WARRANTY AND SUPPORT

Information regarding the warranty coverage and available support for your ASUS TUF Gaming A15 laptop.

6.1 Standard Warranty

Every ASUS TUF laptop includes a **12-month warranty** as standard. This warranty covers manufacturing defects and provides access to expert support, thorough diagnostics, and genuine parts for repairs.

6.2 Replacement Parts Warranty

ASUS provides a **90-day warranty** on all warranty replacement parts, ensuring continued reliability after service.

6.3 Accidental Damage Protection (ADP)

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

6.4 Customer Support

For further assistance, technical support, or warranty claims, please refer to the official ASUS support website or contact their customer service. Keep your product's serial number (FA507NUR-AS73) readily available when seeking support.

