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ASUS FA507NU-DS74

ASUS TUF Gaming A15 (2023) Gaming Laptop User Manual

Model: FA507NU-DS74

Brand: ASUS

1. INTRODUCTION

The ASUS TUF Gaming A15 (2023) is a high-performance gaming laptop designed for demanding tasks and immersive gaming experiences. Featuring a Windows 11 operating system, an AMD Ryzen 7 7735HS CPU, and an NVIDIA GeForce RTX 4050 Laptop GPU, it delivers exceptional power and reliability. This manual provides essential information to help you set up, operate, maintain, and troubleshoot your device.



2. SETUP GUIDE

2.1 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 undamaged. The package should include the FA507NU-DS74 laptop, power cord & adapter, and this user manual.

2.2 Connecting Power

Connect the power adapter to the laptop's power input port and then plug the power cord into a wall outlet. Ensure the connection is secure. The laptop can be used while charging.

2.3 First Boot

Open the laptop lid. The system may automatically power on or you may need to press the power button located on the keyboard deck. Follow the on-screen instructions to complete the Windows 11 setup process, including language selection, network connection, and user account creation.

3. OPERATING YOUR LAPTOP

3.1 Display Features

The ASUS TUF Gaming A15 features a 15.6-inch Full HD (1920x1080) 144Hz display with 100% sRGB color coverage and NVIDIA Adaptive Sync technology. This combination ensures ultra-smooth and lifelike visuals, reducing lag, minimizing stuttering, and eliminating visual tearing during fast-paced gaming.

NEVER MISS A MOMENT

FHD 144Hz

100% sRGB

Smooth
NVIDIA® G-SYNC
Technology



Figure 2: High-refresh rate display with Adaptive Sync for smooth gameplay.

3.2 Keyboard and Input

The laptop is equipped with a comfortable keyboard featuring one-zone RGB backlighting and 1.7mm key travel distance for responsive typing and gaming. Dedicated hotkeys provide quick access to essential functions.

READY FOR ANYTHING

Windows 11

OS

AMD
Ryzen™ 7 7735HS

Processor

NVIDIA® GeForce
RTX™ 4050

Laptop GPU

MUX Switch

with NVIDIA Advanced Optimus

1TB SSD

PCIe® Gen 4x4

16GB DDR5

4800MHz RAM



Figure 3: Keyboard layout with hotkeys and customizable RGB backlighting.

3.3 Performance Overview

Experience powerful performance with the AMD Ryzen 7 7735HS processor and NVIDIA GeForce RTX 4050 Laptop GPU (140W Max TGP). Multitask efficiently with 16GB of DDR5-4800MHz memory and enjoy fast loading times with the 1TB PCIe 4x4 SSD.

SAFE PORT IN A STORM

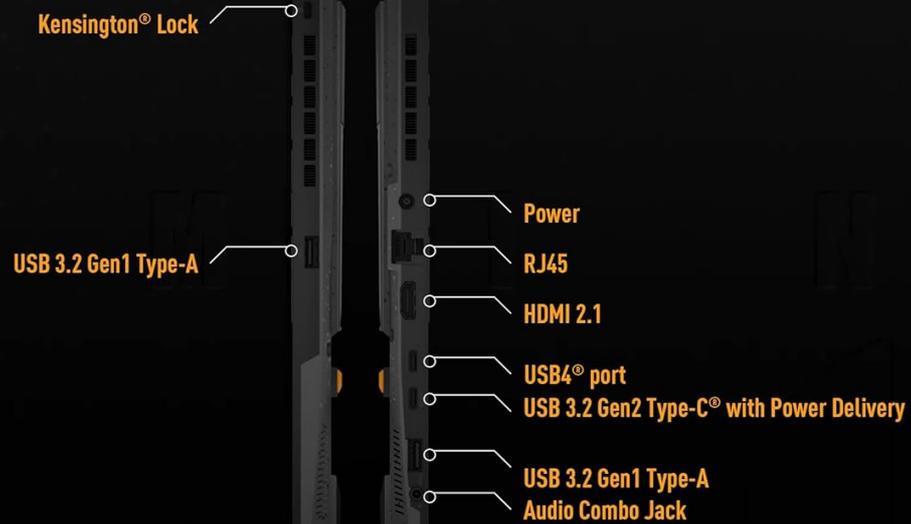


Figure 4: Key performance specifications including CPU, GPU, RAM, and storage.

3.4 Cooling System

The TUF Gaming A15 is equipped with a pair of 84-blade Arc Flow Fans™ designed to improve cooling performance and maintain optimal temperatures during intense usage, all while minimizing noise.

BLOW AWAY THE COMPETITION

<46dB
In Turbo Mode

Dual 84-blade
ARC FLOW FANS™

ODB AMBIENT COOLING



Figure 5: Internal view highlighting the dual Arc Flow Fans for efficient cooling.

3.5 Audio Features

Immerse yourself in rich audio with speakers powered by Dolby Atmos. The laptop also features Hi-Res Audio certification and Two-way AI Noise Cancellation Technology, ensuring clear communication and an enhanced listening experience.

MILITARY GRADE TOUGHNESS



Figure 6: Visual representation of Dolby Atmos and AI Noise Cancellation features.

3.6 Connectivity Ports

The laptop offers a variety of ports for versatile connectivity, including USB 3.2 Gen1 Type-A, USB 3.2 Gen2 Type-C with Power Delivery, USB4 port, HDMI 2.1, RJ45, and an Audio Combo Jack. A Kensington® Lock slot is also provided for security.

TAKE CHARGE

Up to
90Wh
Battery

50% in 30 mins
Fast Charging Technology



Figure 7: Side view illustrating the various input/output ports.

3.7 Battery and Charging

Equipped with a 90Wh battery, the TUF Gaming A15 provides ample endurance. It also supports Fast Charging Technology, allowing the battery to reach 50% charge in just 30 minutes.

HEAR IT ALL



Dolby Atmos



Hi-Res Audio

Certification

Two-way AI Noise

Cancellation Technology



Figure 8: Battery capacity and fast charging capability.

4. MAINTENANCE

To ensure the longevity and optimal performance of your ASUS TUF Gaming A15, regular maintenance is recommended:

- **Cleaning:** Regularly clean the screen with a soft, lint-free cloth and a screen-safe cleaner. Use compressed air to clear dust from the keyboard and cooling vents.
- **Cooling System:** Ensure the laptop's cooling vents are unobstructed to allow for proper airflow. Avoid using the laptop on soft surfaces that can block the vents.
- **Software Updates:** Keep your operating system and drivers updated to the latest versions to ensure stability and performance.
- **Battery Care:** For optimal battery health, avoid consistently draining the battery completely or keeping it at 100% charge for extended periods.

4.1 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 military-grade toughness makes it capable of withstanding the accidental bumps and knocks of everyday life.

**DISCOVER YOUR NEXT FAVORITE GAME.
3 MONTHS OF PC GAME PASS INCLUDED.***



XBOX GAME PASS

*Terms apply

Figure 9: Durability features tested under MIL-STD-810H standards.

5. TROUBLESHOOTING

If you encounter issues with your ASUS TUF Gaming A15, consider the following basic troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the laptop and a working power outlet. Try a different outlet.
- **Display Issues:** If the screen is blank, try connecting an external monitor to verify if the issue is with the laptop's display. Ensure display drivers are updated.
- **Performance Slowdown:** Close unnecessary applications, check for background processes, and ensure adequate ventilation to prevent overheating.
- **Software Problems:** Restart the laptop. If issues persist, check for Windows updates or consider reinstalling problematic software.

For more detailed troubleshooting, please refer to the official [Troubleshooting Guide \(PDF\)](#) provided by ASUS.

6. SPECIFICATIONS

Feature	Specification
Standing screen display size	15.6 Inches
Screen Resolution	1920 x 1080 pixels
Max Screen Resolution	1920x1080 Pixels
Processor	4.7 GHz ryzen_7 (AMD Ryzen 7 7735HS)
RAM	16 GB DDR5
Memory Speed	4800 MHz
Hard Drive	1 TB SSD (PCIe 4x4)
Graphics Coprocessor	NVIDIA GeForce RTX 4050
Graphics Card Ram Size	6 GB
Wireless Type	Bluetooth, 802.11ax (Wi-Fi 6E)
Number of USB 3.0 Ports	2
Item model number	FA507NU-DS74
Operating System	Windows 11 Home
Item Weight	8.75 pounds
Product Dimensions	13.94 x 0.88 x 9.88 inches
Color	Mecha Gray
Batteries	1 Lithium Ion batteries required (included)

7. WARRANTY AND SUPPORT

Every ASUS TUF laptop includes a 12-month warranty as standard, offering expert support, thorough diagnostics, and genuine parts if a repair is needed. ASUS also provides a 90-day warranty on all warranty replacement parts, ensuring hassle-free repairs and commitment to your complete satisfaction. Additionally, 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. For further assistance, you can refer to the comprehensive [User Manual \(PDF\)](#) available online.

