

ASUS FX608JHR-DS74

ASUS TUF Gaming F16 (2025) Gaming Laptop User Manual

Model: FX608JHR-DS74

1. INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your ASUS TUF Gaming F16 (2025) Gaming Laptop. Please read this guide thoroughly to ensure proper use and to maximize the performance and longevity of your device.

2. PACKAGE CONTENTS

Verify that all items are present in your product package:

- ASUS TUF Gaming F16 (2025) Gaming Laptop (Model: FX608JHR-DS74)
- Power Cord and Adapter
- User Guide (this document)

If any items are missing or damaged, contact your retailer or ASUS support immediately.

3. PRODUCT OVERVIEW

The ASUS TUF Gaming F16 (2025) is a high-performance gaming laptop designed for demanding applications and immersive gaming experiences. It features a 16-inch FHD+ 165Hz IPS-Level 16:10 display, powered by an Intel Core i7 14650HX Processor and an NVIDIA GeForce RTX 5050 Laptop GPU. The system includes 16GB of DDR5 memory and a 1TB PCIe Gen4 SSD for fast loading and multitasking. It operates on Windows 11 Home and incorporates advanced cooling solutions and military-grade durability.



Image: The ASUS TUF Gaming F16 laptop showcasing its core specifications including Windows 11 Home, Intel Core i7 14650HX Processor, NVIDIA GeForce RTX 5050 Laptop GPU, 16GB Memory, and 1TB PCIe 4.0 SSD storage.

4. SETUP

4.1 Initial Power-On

1. Unpack the laptop and power adapter from the box.
2. Connect the power adapter to the laptop's ASUS Slim Power Jack.
3. Plug the power cord into a wall outlet.
4. Open the laptop lid and press the power button, typically located on the top-right of the keyboard.
5. Follow the on-screen instructions to complete the Windows 11 Home setup process. This includes selecting your region, connecting to a Wi-Fi network, and creating a user account.

4.2 Connecting Peripherals

Your ASUS TUF Gaming F16 offers various ports for connecting external devices:

NEXT-GENERATION POWER

Powered by DLSS 4 with Multi-Frame Generation and advanced Ray Tracing, the F16 lets you enjoy ultra-smooth and lifelike gameplay.

Intel® Core™
i7 14650HX
Processor

NVIDIA® GeForce
RTX™ 5050
Laptop GPU

NVIDIA®
Advanced
Optimus



Image: A detailed diagram illustrating the various ports available on both sides of the ASUS TUF Gaming F16 laptop, including USB, HDMI, LAN, and audio jacks.

- **USB Ports:** Connect USB devices such as mice, keyboards, or external storage drives to the USB 3.0 ports or USB3.2 Gen2 Type-A ports.
- **Display Output:** Use the HDMI 2.1 FRL port or the Thunderbolt™ 4 Type-C port (with DisplayPort 2.1 support) to connect external monitors or projectors.
- **Network Connection:** For a stable internet connection, plug an Ethernet cable into the RJ45 LAN port. Alternatively, use the integrated Wi-Fi 6E for wireless connectivity.
- **Audio:** Connect headphones or external speakers to the audio jack (Mic-in & Headphone combo).

5. OPERATING INSTRUCTIONS

5.1 Keyboard and Touchpad



Image: A top-down view of the ASUS TUF Gaming F16 keyboard, highlighting its RGB backlighting, full-size layout with number keys, and large touchpad.

The laptop features an RGB backlit, full-size keyboard with a numeric keypad and a 10% larger touchpad for enhanced navigation. Specific hotkeys are available for quick access to functions like volume control, display brightness, and performance modes.

5.2 Display Settings



Image: The ASUS TUF Gaming F16 display showcasing its FHD+ resolution, 165Hz refresh rate, 300 nits typical brightness, 100% sRGB color accuracy, 16:10 aspect ratio, and NVIDIA G-Sync technology.

The 16-inch FHD+ (1920x1200) IPS-Level display offers a 165Hz refresh rate and 100% sRGB color coverage. NVIDIA G-Sync technology ensures smooth, tear-free visuals during gaming. Adjust display settings via Windows Display Settings or the NVIDIA Control Panel for optimal performance and visual quality.

5.3 Audio Configuration

Experience enhanced audio with Dolby Atmos and Hi-Res Audio support. Configure audio settings through the Windows Sound settings or the dedicated Dolby Access application for personalized sound profiles.

5.4 Power Management

Game Changer

GeForce RTX 50 Series Laptops

Powered by NVIDIA Blackwell and AI

 The central image shows an ASUS TUF Gaming F16 laptop with a black keyboard and a screen displaying a vibrant game scene. The laptop is surrounded by a collage of various game covers, including titles like 'Fortnite', 'Darktide', 'Pr', 'Rivals', 'Alan Wake II', 'Stellar Blade', 'Clash Royale', 'Despicable Me', 'The Sims 4', 'The Sims 5', 'The Sims 6', 'The Sims 7', 'The Sims 8', 'The Sims 9', 'The Sims 10', 'The Sims 11', 'The Sims 12', 'The Sims 13', 'The Sims 14', 'The Sims 15', 'The Sims 16', 'The Sims 17', 'The Sims 18', 'The Sims 19', 'The Sims 20', 'The Sims 21', 'The Sims 22', 'The Sims 23', 'The Sims 24', 'The Sims 25', 'The Sims 26', 'The Sims 27', 'The Sims 28', 'The Sims 29', 'The Sims 30', 'The Sims 31', 'The Sims 32', 'The Sims 33', 'The Sims 34', 'The Sims 35', 'The Sims 36', 'The Sims 37', 'The Sims 38', 'The Sims 39', 'The Sims 40', 'The Sims 41', 'The Sims 42', 'The Sims 43', 'The Sims 44', 'The Sims 45', 'The Sims 46', 'The Sims 47', 'The Sims 48', 'The Sims 49', 'The Sims 50'.

Supreme Speed. Superior Visuals.

DLSS 4 massively increases performance and improves image quality for top games using the power of AI.

Game-Winning Responsiveness

NVIDIA Reflex 2 with Frame Warp gives you the ultimate responsiveness, enhancing target acquisition, reaction time, and aim precision.

True-to-Life Graphics

Experience cinematic quality visuals at unprecedented speed with full ray tracing and breakthrough neural rendering technologies.

GEFORCE RTX
Powering Advanced AI

Image: The ASUS TUF Gaming F16 laptop highlighting its 90Wh battery, 100W Type-C charging capability, and fast charging technology that reaches 50% in 30 minutes.

The laptop is equipped with a 90Wh battery. It supports 100W Type-C charging and fast charging technology, allowing it to reach 50% charge in approximately 30 minutes. Adjust power plans in Windows settings to optimize for performance or battery life.

6. MAINTENANCE

6.1 Cleaning Your Laptop

- **Screen:** Use a soft, lint-free cloth lightly dampened with water or a screen cleaner. Do not spray liquid directly onto the screen.
- **Keyboard and Chassis:** Use a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used. Avoid harsh chemicals.
- **Vents:** Periodically use compressed air to clear dust from the cooling vents to maintain optimal airflow.

6.2 System Updates

Regularly update your Windows operating system, NVIDIA graphics drivers, and ASUS utilities to ensure optimal performance, security, and compatibility.

6.3 Storage and Memory Upgrades



Image: An internal view of the ASUS TUF Gaming F16 laptop, indicating the locations of the dual SSD and RAM slots for potential upgrades, along with the installed 16GB DDR5-5600 MHz Memory and 1TB PCIe 4.0 SSD storage.

The ASUS TUF Gaming F16 is designed with dual SSD and RAM slots, allowing for future upgrades to expand storage or memory capacity. Consult a qualified technician for hardware upgrades to avoid voiding your warranty.

6.4 Cooling System

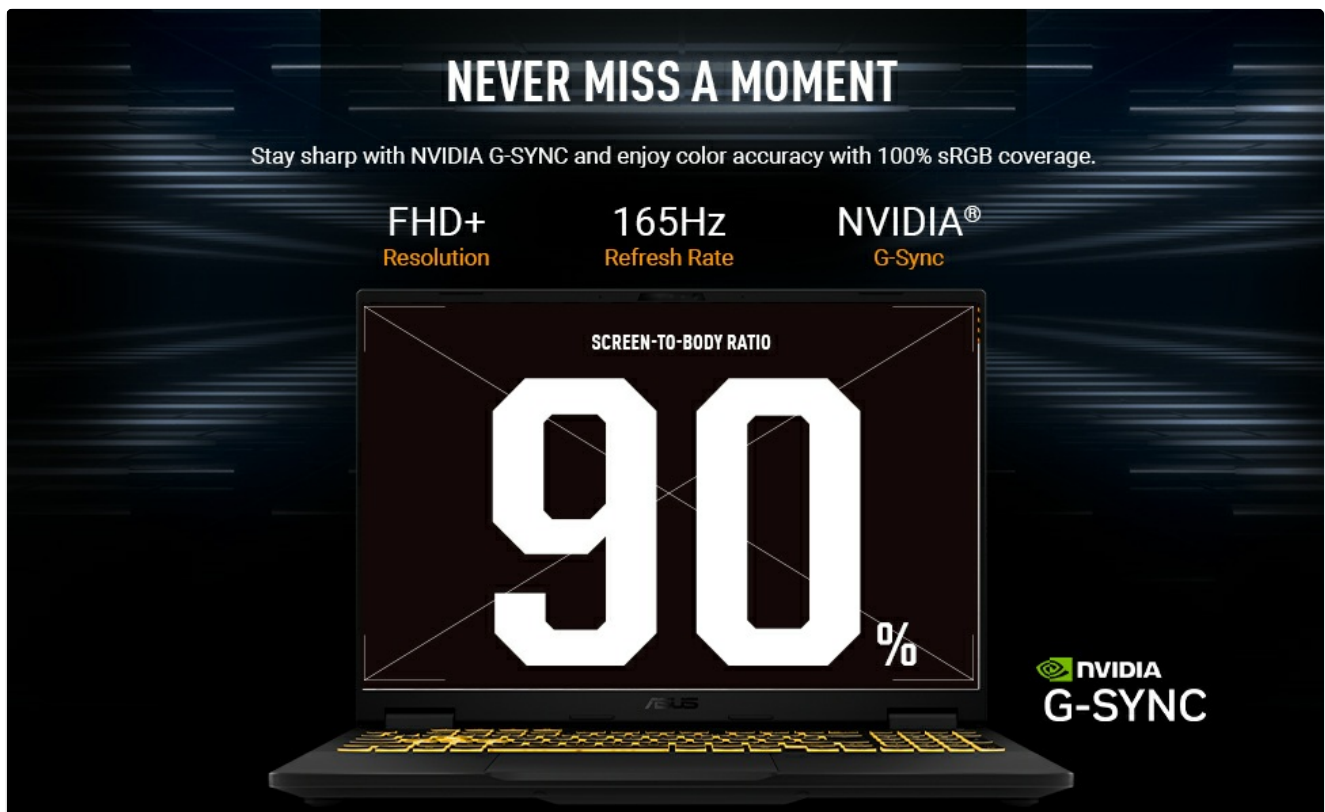


Image: An internal diagram of the ASUS TUF Gaming F16's cooling system, highlighting the 2nd Gen Arc Flow Fans, full-width heatsink, and full-width exhaust vent, designed for efficient heat dissipation while maintaining a quiet 38dB in Performance Mode.

The laptop features 2nd Gen Arc Flow Fans, a full-width heatsink, and a full-width exhaust vent to optimize cooling performance. Ensure these vents are not obstructed during use to prevent overheating.

7. TROUBLESHOOTING

- **Laptop not powering on:** Ensure the power adapter is securely connected to both the laptop and a working power outlet. Try a different outlet. If the battery is completely drained, it may take a few minutes to show signs of life after plugging in.
- **Display issues (no image, flickering):** Check external monitor connections if applicable. Try restarting the laptop. Update graphics drivers.
- **Performance slowdowns:** Close unnecessary applications. Check for background processes consuming high resources. Ensure cooling vents are clear. Update drivers and operating system.
- **Wi-Fi connectivity problems:** Restart your router and modem. Check if Wi-Fi is enabled in Windows settings. Update Wi-Fi drivers.
- **Audio not working:** Check volume levels and mute settings. Ensure headphones/speakers are properly connected. Update audio drivers.

For persistent issues, refer to the ASUS support website or contact customer service.

8. SPECIFICATIONS

Feature	Specification
Model Name	FX608JHR-DS74
Processor	Intel® Core™ i7 Processor 14650HX (5.2 GHz)
Graphics Card	NVIDIA® GeForce RTX™ 5050 Laptop GPU (8 GB Dedicated)
Display	16-inch FHD+ (1920x1200) IPS-Level, 165Hz, 16:10 Aspect Ratio, 300 nits, 100% sRGB, NVIDIA G-Sync
RAM	16GB DDR5 RAM
Storage	1TB PCIe Gen4 SSD
Operating System	Windows 11 Home
Wireless Connectivity	Wi-Fi 6E (802.11ax)
Ports	1x Audio jack (Mic-in & Headphone), 1x USB3.2 Gen2 Type A, 1x USB3.2 Type-C (DisplayPort 1.4, Gsync, Power Delivery 3.0), 1x Thunderbolt™ 4 Type-C (DisplayPort 2.1), 1x HDMI 2.1 FRL, 1x RJ45 LAN port, 3x USB 3.0 Ports
Battery	90Wh, 100W Type-C Charging, Fast Charging (50% in 30 min)
Dimensions (LxWxH)	13.94 x 0.7 x 10.59 inches

Weight	9.4 pounds
Color	Jaeger Gray

9. WARRANTY AND SUPPORT

9.1 Standard Warranty

Every ASUS TUF laptop includes a **12-month standard warranty**. This warranty covers manufacturing defects and provides access to expert support, thorough diagnostics, and genuine parts for any necessary repairs. Additionally, a **90-day warranty** is provided on all warranty replacement parts.

9.2 Accidental Damage Protection (ADP)

ASUS offers **one year of free Accidental Damage Protection (ADP)** for new laptops. This protection covers liquid spills, drops, and electrical surges. To activate ADP, you must register your new laptop within 60 days of purchase. This ensures you are covered in case of unforeseen accidents.

9.3 Contacting Support

For technical assistance, warranty claims, or further information, please visit the official ASUS support website or contact their customer service department. Keep your product model number (FX608JHR-DS74) and serial number ready when contacting support.