

## MSI GE77HX 12UHS-074

# MSI Raider GE77HX 17.3" Gaming Laptop User Manual

Model: GE77HX 12UHS-074

## INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your MSI Raider GE77HX 17.3" FHD 360Hz Gaming Laptop. Please read this guide thoroughly to ensure proper use and to maximize the performance and longevity of your device.

The MSI Raider GE77HX is a high-performance gaming laptop featuring an Intel Core i7-12800HX processor, NVIDIA GeForce RTX 3080 Ti graphics, 16GB DDR5 RAM, and a 1TB NVMe SSD, running on Windows 11. It is designed for demanding gaming and professional applications.

## SETUP

### 1. Unpacking and Initial Inspection

Carefully remove the laptop and all accessories from the packaging. Verify that all components listed in the "What's in the Box" section are present and undamaged.

- Laptop
- Power Adapter

### 2. Connecting the Power Adapter

Connect the power adapter to the laptop's DC-in port and then plug the power cord into a wall outlet. It is recommended to fully charge the battery before the first use.



Image: Rear view of the MSI Raider GE77HX laptop showing the power input port and other connectivity options.

### 3. First Boot and Windows Setup

Press the power button to turn on the laptop. Follow the on-screen instructions to complete the Windows 11 setup process. This includes selecting your region, language, accepting terms, and setting up user accounts.

### 4. Connecting Peripherals

Connect any external devices such as a mouse, keyboard, or external monitor to the available ports. The laptop features various ports including USB 3.2 Gen 1, USB 3.2 Gen 2, Thunderbolt 4, HDMI, and an SD card reader.



Image: Left side view of the MSI Raider GE77HX laptop, highlighting USB-A, USB-C, and audio jack ports.



Image: Right side view of the MSI Raider GE77HX laptop, showing additional USB-A ports.

## OPERATING YOUR LAPTOP

### 1. Power On/Off

- **Power On:** Press the power button located on the keyboard deck.
- **Power Off:** Click the Start button in Windows, then select Power > Shut down.
- **Sleep Mode:** Close the lid or select Power > Sleep from the Start menu.

### 2. Keyboard and Touchpad

The laptop features a SteelSeries RGB gaming keyboard. You can customize the lighting effects using the MSI Center or SteelSeries GG software.



Image: The MSI Raider GE77HX laptop displaying its customizable RGB keyboard and front light bar. The precision touchpad supports multi-touch gestures for navigation. Refer to Windows settings for customization options.

### 3. Display and External Monitors

The 17.3-inch FHD display offers a 360Hz refresh rate. For connecting external monitors, use the HDMI port (supports 8K@120Hz) or the Thunderbolt 4 port (USB-C with DisplayPort 1.4 support).



Image: The MSI Raider GE77HX laptop demonstrating its ability to connect to multiple external displays via Matrix Display technology.

## 4. Audio

The laptop features Dynaudio speakers with Duo Wave Woofer technology and Nahimic audio enhancements. A 3.5mm audio combo jack is available for headphones and microphones.



Image: Visual representation of the MSI Raider GE77HX laptop's audio system, highlighting Dynaudio, Duo Wave Woofer, Hi-Res Audio, and Nahimic features.

## 5. Network Connectivity

The laptop supports Wi-Fi 6E (802.11ax) for high-speed wireless internet and features a Killer Ethernet port for wired connections.

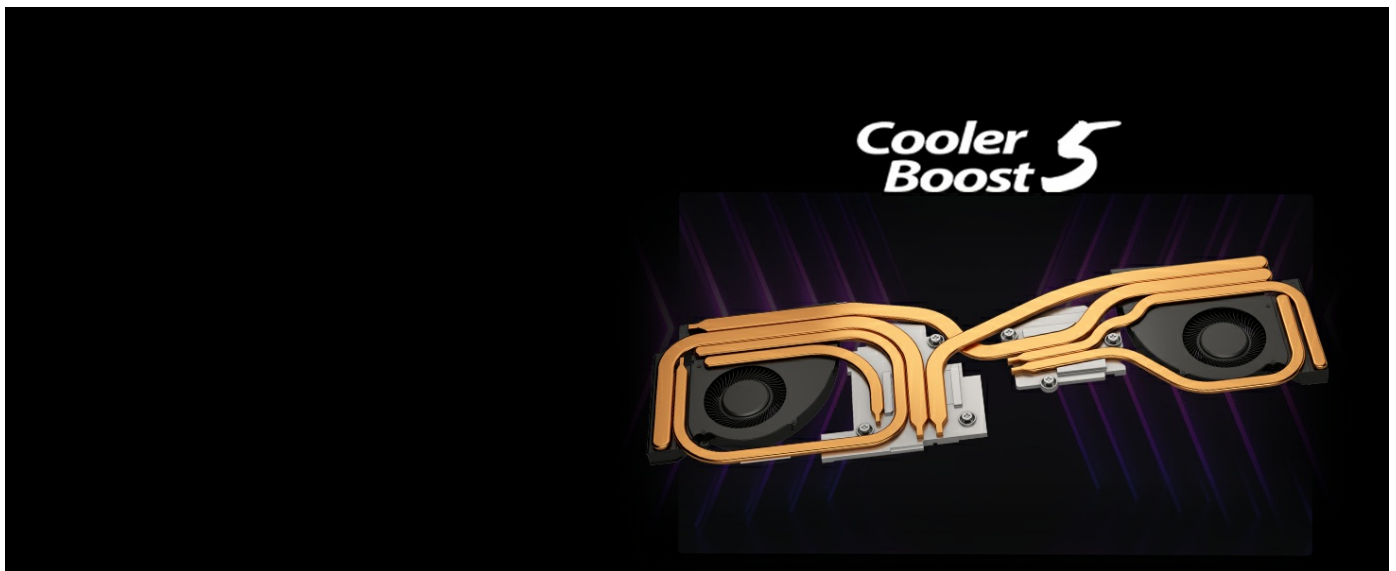


Image: The "Cooler Boost 5" logo, indicating advanced cooling performance features.

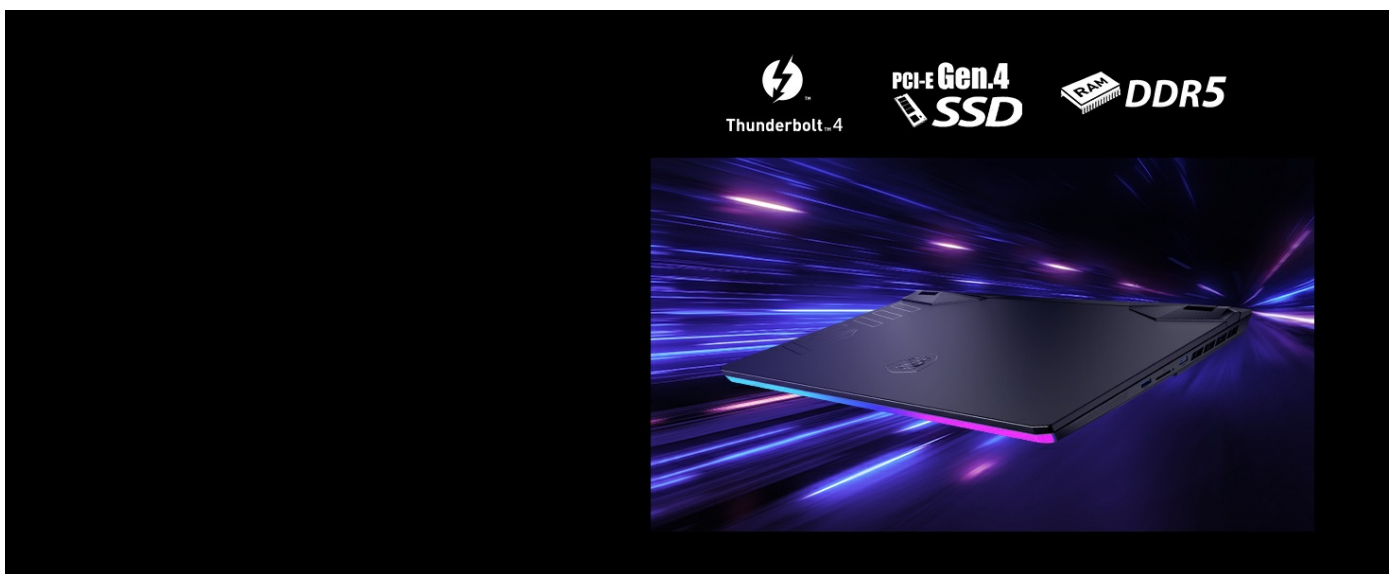


Image: The "Wi-Fi 6E" logo, signifying support for the latest wireless networking standard.

## MAINTENANCE

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### 1. Cleaning Your Laptop

- Use a soft, lint-free cloth to clean the screen and chassis.
- For stubborn smudges, dampen the cloth with a small amount of water or a screen-safe cleaner.
- Avoid spraying liquids directly onto the laptop.
- Regularly clean the keyboard and touchpad to remove dust and debris.

### 2. Battery Care

To prolong battery life:

- Avoid extreme temperatures.
- Do not fully discharge the battery frequently.
- If storing the laptop for an extended period, charge the battery to about 50-60%.
- The laptop uses a 99.9 Whr Lithium Ion battery.



Image: The MSI Raider GE77HX laptop with an overlay indicating its 99.9 Whr battery capacity.

### 3. Software Updates

Regularly update your operating system (Windows 11), graphics drivers (NVIDIA), and MSI utilities (MSI Center) to ensure optimal performance and security.



Image: The "MSI Center" logo, representing the utility software for system management and customization.

### 4. Cooling System

The laptop features Cooler Boost 5 technology. Ensure the ventilation grilles are not obstructed to maintain efficient cooling, especially during intensive tasks.



Image: Diagram illustrating the Cooler Boost 5 cooling system with multiple heat pipes and fans within the MSI Raider GE77HX laptop.

## TROUBLESHOOTING

### Common Issues and Solutions

Problem	Possible Solution
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Problem	Possible Solution
Laptop does not power on.	Ensure the power adapter is securely connected and the wall outlet is functional. Try a different outlet. If the battery is completely drained, it may take a few minutes to show signs of life after plugging in.
Screen is blank or black.	Check if the laptop is powered on. Try connecting an external monitor to see if there is output. Press Fn + F2 (or the appropriate function key for display toggle) to cycle through display modes.
System is slow or unresponsive.	Close unnecessary applications. Check Task Manager for processes consuming high CPU/RAM. Ensure Windows and drivers are up to date. Consider running a virus scan.
Wi-Fi connection issues.	Restart your router and modem. Check Wi-Fi settings in Windows. Ensure Wi-Fi drivers are updated. Try disabling and re-enabling Wi-Fi.
Laptop gets excessively hot.	Ensure ventilation grilles are clear. Use the laptop on a hard, flat surface. Adjust fan settings in MSI Center. Consider using a cooling pad for prolonged heavy use.

SPECIFICATIONS

Feature	Detail
Model Name	Raider GE77HX 12UHS-074
Processor	Intel Core i7-12800HX (4.8 GHz)
Graphics Card	NVIDIA GeForce RTX 3080 Ti (16 GB GDDR6)
Display	17.3 Inches, FHD (1920 x 1080 pixels), 360Hz
RAM	16 GB DDR5 RAM
Storage	1 TB NVMe SSD (PCI-e Gen 4)
Operating System	Windows 11
Wireless Connectivity	802.11ax (Wi-Fi 6E), Bluetooth
Wired Connectivity	Killer Ethernet
Ports	USB 3.0 (x1), USB 3.2 Gen 1, USB 3.2 Gen 2, Thunderbolt 4, HDMI (8K@120Hz), SD Card Reader, Audio Combo Jack
Battery	99.9 Whr Lithium Ion
Dimensions (LxWxH)	20.47 x 14.02 x 4.13 inches
Item Weight	9.9 pounds

Feature	Detail
Color	Dark Grey

## WARRANTY AND SUPPORT

For warranty information, technical support, and driver downloads, please visit the official MSI website or contact MSI customer service. Keep your purchase receipt and product serial number handy for warranty claims. You can find more information and support resources on the [MSI Brand Store on Amazon](#).