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**msi B14WGK-016US**

# MSI Katana 15 HX Gaming Laptop User Manual

MODEL: B14WGK-016US

## 1. Introduction

This manual provides essential instructions for setting up, operating, maintaining, and troubleshooting your MSI Katana 15 HX gaming laptop (Model B14WGK-016US). This high-performance laptop features an Intel Core i9-14900HX processor, NVIDIA GeForce RTX 5070 graphics, a QHD 165Hz display, and advanced cooling technology, designed to deliver a superior computing experience.



Figure 1: Front view of the MSI Katana 15 HX Gaming Laptop.

## 2. Setup Guide

## 2.1. Initial Power-On

1. **Connect the Power Adapter:** Plug the power adapter into the laptop's DC-in port and then into a power outlet.
2. **Open the Laptop:** Carefully open the laptop lid.
3. **Power On:** Press the power button, typically located above the keyboard or on the side.
4. **Windows 11 Home Setup:** Follow the on-screen instructions to complete the initial setup of Windows 11 Home. This includes setting up your region, language, network connection, and user account.

## 2.2. Network Connection

- **Wi-Fi 6E:** To connect wirelessly, navigate to the network settings in Windows and select your Wi-Fi 6E network. Enter the password if required.
- **Ethernet (RJ45):** For a stable wired connection, plug an Ethernet cable into the RJ45 port on the side of the laptop.



Figure 2: Side view illustrating the available I/O ports for connectivity.

## 3. Operating Instructions

### 3.1. Display Features

The MSI Katana 15 HX features a 15.6-inch QHD (2560x1440 pixels) display with a 165Hz refresh rate and 100% DCI-P3 color gamut. This ensures sharp visuals, smooth motion, and accurate color reproduction for both gaming and professional tasks.

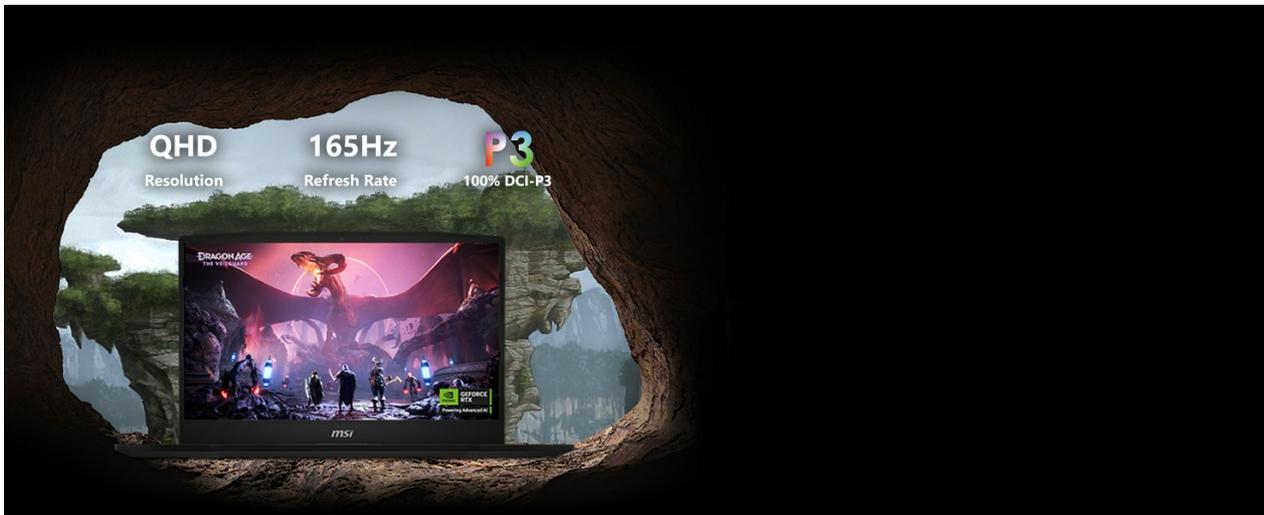


Figure 3: The laptop's display showcasing its QHD resolution, 165Hz refresh rate, and 100% DCI-P3 color accuracy.

### 3.2. Keyboard and Input

The laptop is equipped with a 4-zone RGB gaming keyboard, allowing for customizable backlighting. The WASD keys are highlighted for enhanced gaming control. A full number pad is also integrated for convenience.

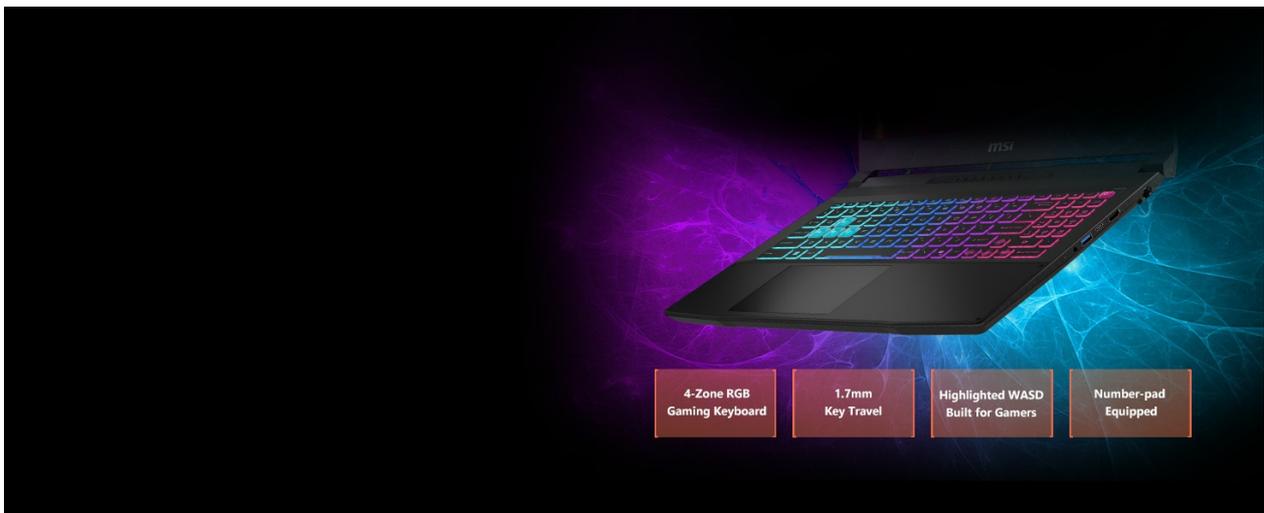


Figure 4: The 4-zone RGB gaming keyboard with highlighted WASD keys.

### 3.3. Performance Management

The MSI Katana 15 HX is powered by an Intel Core i9-14900HX processor and an NVIDIA GeForce RTX 5070 graphics card. Utilize the pre-installed MSI Center software to monitor system performance, adjust power settings, and optimize for gaming or productivity tasks. This software allows for switching between different performance modes to suit your current needs.



Figure 5: Visual representation of the Intel Core i9 processor powering the laptop.

### 3.4. Audio

Experience high-fidelity sound with Hi-Res Audio support. Adjust audio settings through the operating system's sound control panel or dedicated MSI audio software for an optimized listening experience.

## 4. Maintenance

### 4.1. Cooling System (Cooler Boost 5)

The laptop incorporates Cooler Boost 5 technology, featuring dual fans and a 5-heat-pipe shared-pipe design. This system efficiently dissipates heat to maintain stable performance during intensive use. Ensure the vents are clear of obstructions to allow for proper airflow.

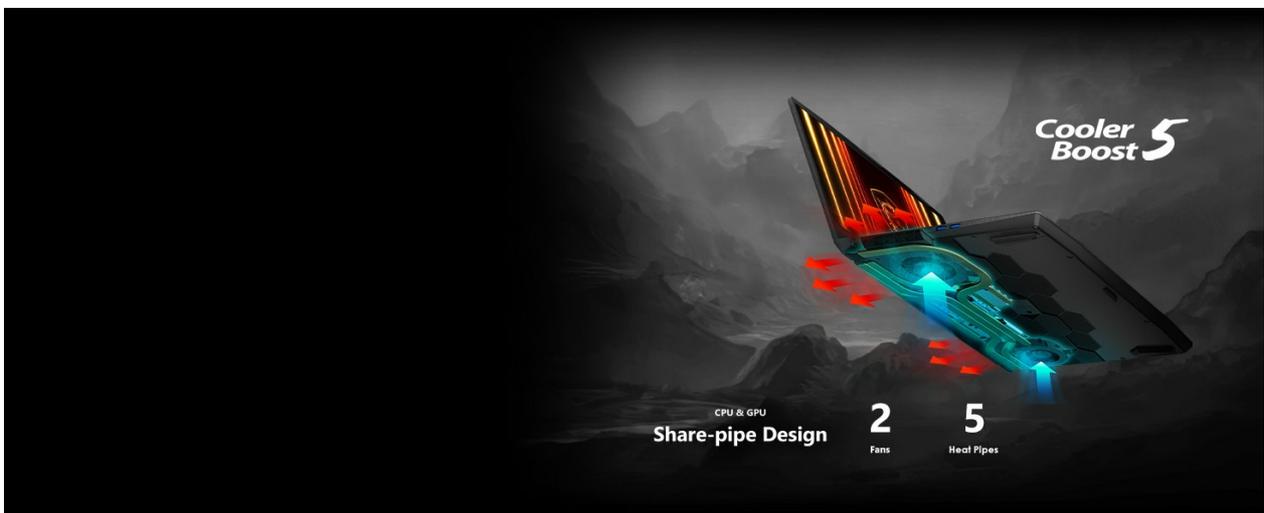


Figure 6: Diagram of the Cooler Boost 5 system, showing dual fans and heat pipe configuration.

### 4.2. Cleaning and Care

- **Screen:** Use a soft, lint-free cloth lightly 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 lead to overheating.

### 4.3. Battery Care

To prolong battery life, avoid fully discharging the battery frequently. For extended periods of storage, ensure the battery is charged to approximately 50-60% and store the laptop in a cool, dry place.

## 5. Troubleshooting

### 5.1. Power Issues

- **Laptop not turning on:** Ensure the power adapter is securely connected and the power outlet is functional. Try a different outlet.
- **Battery not charging:** Verify the power adapter is correctly connected. Check for any damage to the adapter or charging port.

### 5.2. Display Problems

- **No display:** Connect an external monitor to check if the issue is with the laptop's screen. Ensure the display cable is properly connected if using an external monitor.
- **Flickering or distorted image:** Update your graphics drivers. Adjust display resolution and refresh rate in Windows settings.

### 5.3. Performance Lag

- **Slow performance:** Close unnecessary applications. Check for background processes consuming high CPU or RAM. Ensure cooling vents are clear.
- **Overheating:** Activate Cooler Boost mode via MSI Center. Ensure the laptop is on a hard, flat surface to allow for proper ventilation.

## 6. Specifications

Feature	Specification
Brand	msi
Model Name	Katana 15 HX B14WGK-016US
Processor	Intel Core i9-14900HX
Graphics Coprocessor	NVIDIA Geforce RTX 5070 (8 GB GDDR6)
RAM	32 GB DDR5
Hard Drive	1 TB NVMe SSD
Screen Size	15.6 Inches
Screen Resolution	2560 x 1440 pixels (QHD)
Max Screen Resolution	2560x1440 Pixels
Refresh Rate	165Hz
Operating System	Windows 11 Home
Wireless Type	802.11ax (Wi-Fi 6E), Bluetooth
Ports	USB-C Gen 2, HDMI (up to 8K), Multiple USB-A, RJ45, Audio Combo Jack

Item Weight	4.96 pounds
Product Dimensions	14.13 x 0.98 x 10.2 inches
Average Battery Life	2 Hours (usage dependent)
Special Features	Backlit Keyboard (4-zone RGB), HD Audio, Cooler Boost 5

## 7. Warranty and Support

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Your MSI Katana 15 HX laptop may be eligible for various protection plans, including 2-Year, 4-Year, or monthly Complete Protect options. For detailed information regarding the specific warranty coverage for your product, including terms, conditions, and how to claim support, please refer to the documentation included with your purchase or visit the official MSI support website.

**MSI Official Support:** [www.msi.com/support](http://www.msi.com/support)