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> NNHUNYI X99 H5 Motherboard Set Kit User Manual

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Model: X99 H5 (Motherboard+CPU+RAM)

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your NNHUNYI X99 H5 Motherboard Set Kit. This kit includes the X99 H5 motherboard, an LGA2011-3 Xeon E5 2630 V4 CPU, and 16GB DDR4 REG ECC Memory. Please read this manual thoroughly before proceeding with installation to ensure proper setup and optimal performance.

1. SETUP AND INSTALLATION

Follow these steps to correctly install your motherboard, CPU, and RAM.

1.1 Motherboard Overview

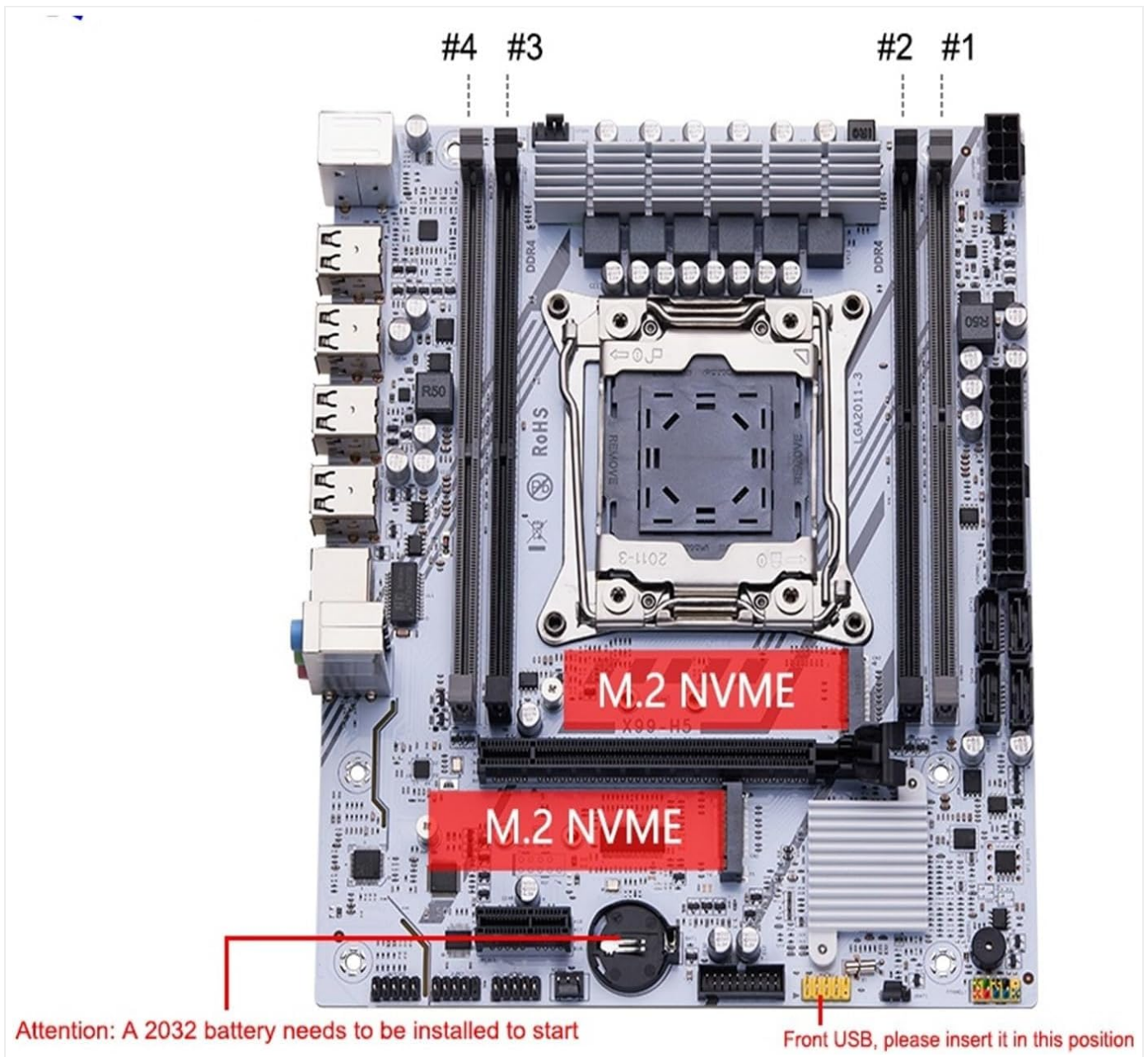


Figure 1.1: Overview of the NNHUNYI X99 H5 Motherboard with key component locations. Note the numbered DDR4 memory slots (#1, #2, #3, #4) and the M.2 NVMe slots, along with the CR2032 battery holder.



Figure 1.2: Angled view of the NNHUNYI X99 H5 Motherboard, showcasing its layout and cooling armor.

1.2 CPU Installation (LGA2011-3)

Carefully align the Xeon E5 2630 V4 CPU with the LGA2011-3 socket on the motherboard. Ensure the triangular markers on the CPU and socket match. Gently lower the CPU into the socket without forcing it. Once seated, close the CPU retention levers to secure the processor.

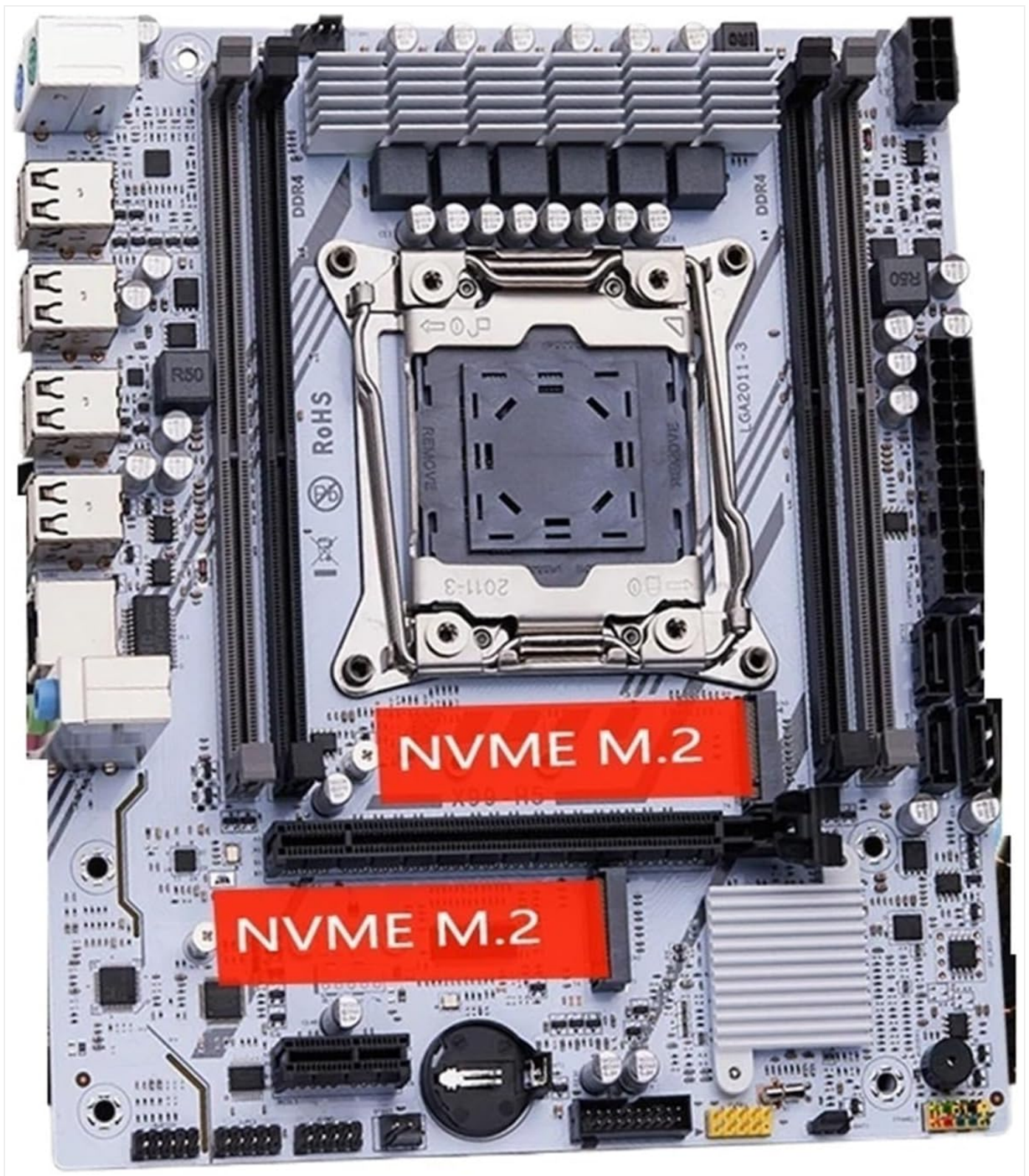


Figure 1.3: Top-down view highlighting the LGA2011-3 CPU socket area on the motherboard.

After CPU installation, apply thermal paste and install a compatible CPU cooler (not included in this kit) to ensure proper heat dissipation.

1.3 RAM Installation (DDR4)

The motherboard supports DDR4 memory. This kit includes 16GB DDR4 REG ECC Memory. The motherboard has 4 memory slots. For dual-channel operation, install memory modules into matching colored slots or as indicated in Figure 1.1 (slots #1 and #3, or #2 and #4). Open the clips at both ends of the DIMM slot, align the memory module notch with the slot key, and press down firmly until the clips snap into place.

1.4 Power Connections

Connect the 24-pin ATX power connector and the 8-pin CPU power connector from your power supply unit (PSU) to the corresponding ports on the motherboard. Refer to Figure 1.4 for power connector locations.

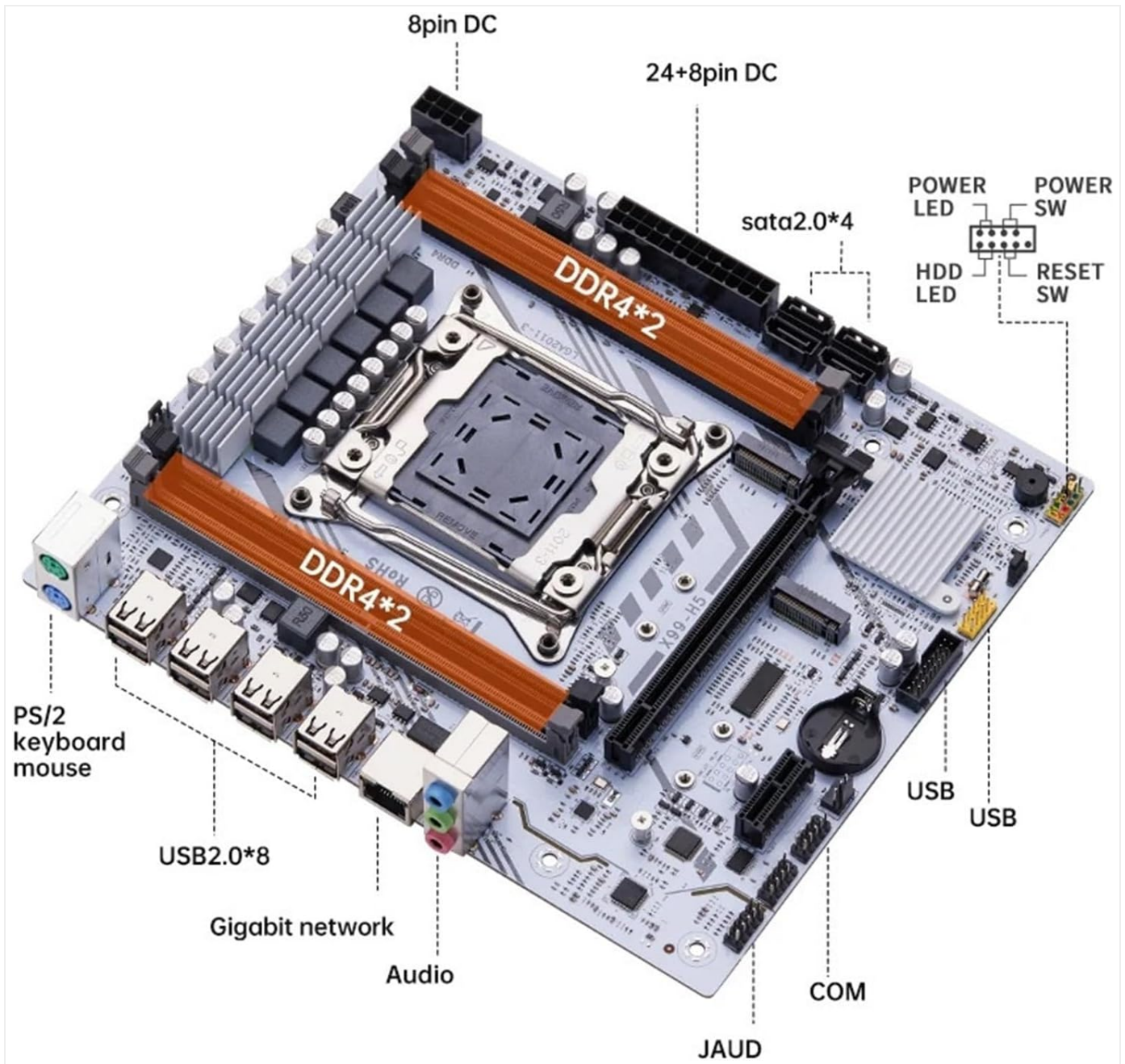


Figure 1.4: Power connectors (8pin DC, 24+8pin DC) and front panel headers on the motherboard.

Connect the front panel headers (Power LED, Power SW, HDD LED, Reset SW) to the motherboard as indicated in Figure 1.4. Ensure correct polarity for LED connections.

1.5 Storage Device Installation

The motherboard features two M.2 NVMe slots and four SATA 2.0 ports. Install your M.2 NVMe SSDs into the designated slots (refer to Figure 1.1). For SATA drives, connect them to the SATA 2.0 ports using SATA data cables and connect power from your PSU.

1.6 Rear I/O Panel Connections

Connect your peripherals to the rear I/O panel. This includes USB devices, PS/2 keyboard/mouse, Gigabit network cable, and audio devices.



Figure 1.5: Rear I/O panel showing PS/2 ports, USB ports, RJ45 network port, and audio jacks.

Important: A CR2032 battery needs to be installed in the battery holder on the motherboard for the system to start and maintain BIOS settings. (Refer to Figure 1.1 for battery location).

2. OPERATING INSTRUCTIONS

Once all components are installed and connected, you can power on your system.

2.1 First Boot

After assembly, connect your monitor, keyboard, and mouse. Power on the system. The system should display the BIOS/UEFI screen. You may need to press a specific key (e.g., DEL, F2) during startup to enter the BIOS settings.

2.2 BIOS/UEFI Configuration

In the BIOS/UEFI, you can configure boot order, enable/disable integrated peripherals, and monitor system status. Ensure your storage drive is recognized and set as the primary boot device for operating system installation.

2.3 Operating System Installation

Insert your operating system installation media (USB drive or DVD) and follow the on-screen prompts to install your preferred operating system. After installation, install all necessary drivers for the motherboard chipset, network, audio, and any other installed components.

3. MAINTENANCE

Regular maintenance helps ensure the longevity and stable performance of your system.

- **Dust Removal:** Periodically clean dust from inside your computer case, especially from fans and heatsinks, using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS Updates:** Check the manufacturer's website for BIOS/UEFI updates. Updates can improve compatibility, stability, and performance. Follow the update instructions carefully to avoid damaging the motherboard.
- **Driver Updates:** Keep your system drivers updated. Outdated drivers can lead to performance issues or instability.
- **Component Checks:** Occasionally check all cable connections (power, SATA, front panel) to ensure they are secure.

4. TROUBLESHOOTING

If you encounter issues, refer to the following common troubleshooting steps:

- **No Power/No Boot:**

- Ensure all power cables (24-pin ATX, 8-pin CPU) are securely connected.
- Verify the PSU is switched on and connected to a working power outlet.
- Check front panel connections (Power SW).
- Confirm the CR2032 battery is installed correctly.

- **No Display:**

- Ensure your monitor is connected to the correct graphics output (integrated or dedicated GPU).
- Reseat the RAM modules. Try booting with one RAM stick at a time.
- Reseat the CPU.

- **System Instability/Crashes:**

- Check CPU and GPU temperatures. Ensure adequate cooling.
- Run memory diagnostic tools to check for RAM errors.
- Update drivers and BIOS to the latest versions.

- **Storage Not Detected:**

- Check SATA data and power cable connections.
- Ensure M.2 SSDs are fully seated in their slots.
- Verify storage devices are enabled in BIOS/UEFI.

If problems persist, consult the manufacturer's support resources or a qualified technician.

5. SPECIFICATIONS

Feature	Detail
Product Name	X99 Motherboard Set Kit (Motherboard+CPU+RAM)
Brand	NNHUNYI
Model	X99 H5
Socket Type	LGA 2011-3
Processor Compatibility	Xeon, Xeon E Series (Kit includes Xeon E5 2630 V4 CPU)
Memory Type Supported	DDR4 (Kit includes 16GB REG ECC Memory)
Number of Memory Slots	4
Maximum RAM Capacity	128 GB
Memory Channel	Double
Storage Interfaces	2x M.2 (NVMe), 4x SATA 2.0
PCIe Slots	1x PCIe x16, 1x PCIe x1 (PCI-E 3.0 standard)
Back I/O Ports	1x RJ45 (Gigabit LAN), USB ports, Audio jacks, PS/2 ports
Form Factor	Micro-ATX

Special Features	Cooling Armor
Item Weight	1.1 pounds
Country of Origin	China

6. WARRANTY AND SUPPORT

For warranty information and technical support, please contact NNHUNYI directly through their official website or the retailer from whom you purchased the product. Extended protection plans may also be available for purchase, offering additional coverage beyond the standard warranty.

Please retain your proof of purchase for any warranty claims.

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