Huawei Mesh 3 AX3000

Huawei Mesh 3 AX3000 WiFi Mesh System User Manual

Model: WS8100-33

Introduction

The Huawei Mesh 3 AX3000 is a powerful whole-home mesh WiFi system designed to provide seamless and stable internet connectivity throughout your living space. It leverages WiFi 6 Plus technology to deliver high speeds and extensive coverage, supporting numerous devices simultaneously. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Huawei Mesh 3 system.



Figure 1: Huawei Mesh 3 AX3000 WiFi Mesh System (3-pack)

Setup

Setting up your Huawei Mesh 3 system is designed to be straightforward. Follow these steps for initial installation:

1. **Unpack the Devices:** Carefully remove all Huawei Mesh 3 units and accessories from the packaging.
2. **Connect the Main Unit:**
   Connect one of the Mesh 3 units to your internet modem or router using the provided Ethernet cable. Plug the power adapter into the main Mesh 3 unit and then into a power outlet.



Figure 2: Rear ports of Huawei Mesh 3 unit

3. **Power On:** Wait for the indicator light on the main unit to turn stable, indicating it's ready.
4. **Place Additional Units:** Position the other Mesh 3 units in different areas of your home to extend coverage. Ensure they are within range of each other or the main unit for optimal mesh connectivity. Plug them into power outlets.
5. **Initial Configuration (AI Life App):**
   Download the Huawei AI Life app on your smartphone. Open the app and follow the on-screen instructions to detect and configure your Mesh 3 system. The app will guide you through setting up your Wi-Fi network name (SSID) and password.



Figure 3: Easy Home Setup via AI Life App

6. **NFC Quick Connect:** For compatible Android devices, simply tap your phone on the NFC sensing area on top of a Mesh 3 unit for instant Wi-Fi connection without needing to enter the password.

Operating

The Huawei Mesh 3 system is designed for high-performance and seamless operation across your home network.

- **Whole Home Coverage:** The system provides extensive Wi-Fi coverage, up to 600 square meters, ensuring a strong signal in every room. This is achieved through 4 high-performance power amplifiers.
- **High-Speed Connectivity:** With Wi-Fi 6 Plus technology, the Mesh 3 delivers combined speeds of up to 3000 Mbps (2402 Mbps on 5GHz and 574 Mbps on 2.4GHz), ideal for 4K streaming, online gaming, and large file downloads.
- **Multiple Device Support:** The system can handle connections for up to 250 devices simultaneously, maintaining stable performance even with numerous connected gadgets.

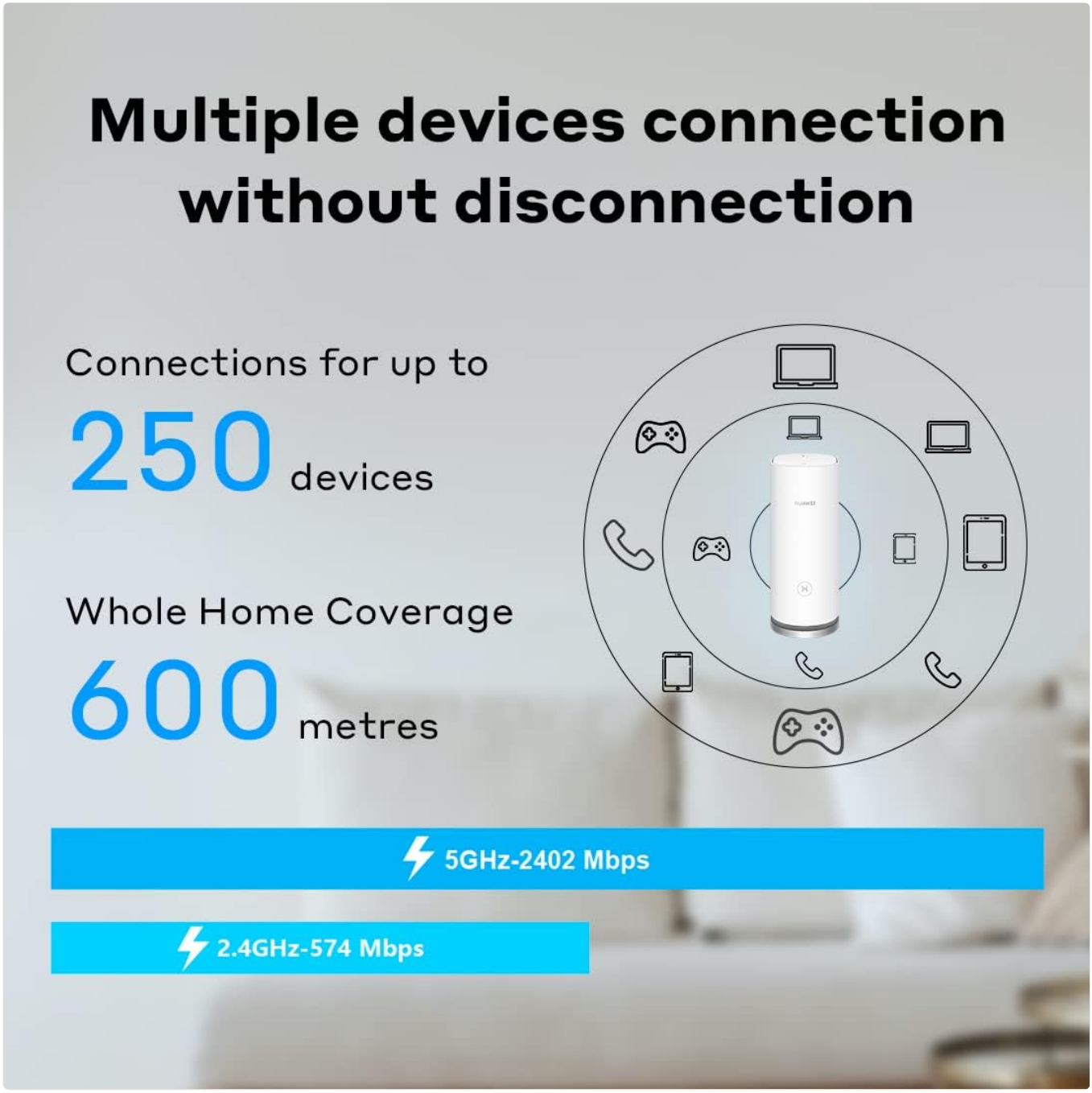


Figure 4: Multi-device connectivity and coverage

- **HarmonyOS Mesh+:** This feature ensures your devices automatically connect to the optimal Wi-Fi signal as you move around your home, providing continuous and stable high-speed network access.
- **Dual-Band Operation:** The Mesh 3 creates a single mesh network utilizing both 5GHz and 2.4GHz bands simultaneously, optimizing speed and network efficiency.
- **Signal Penetration:** The signal remains strong and smooth, even when encountering obstacles like walls, ensuring a more stable connection throughout your home.

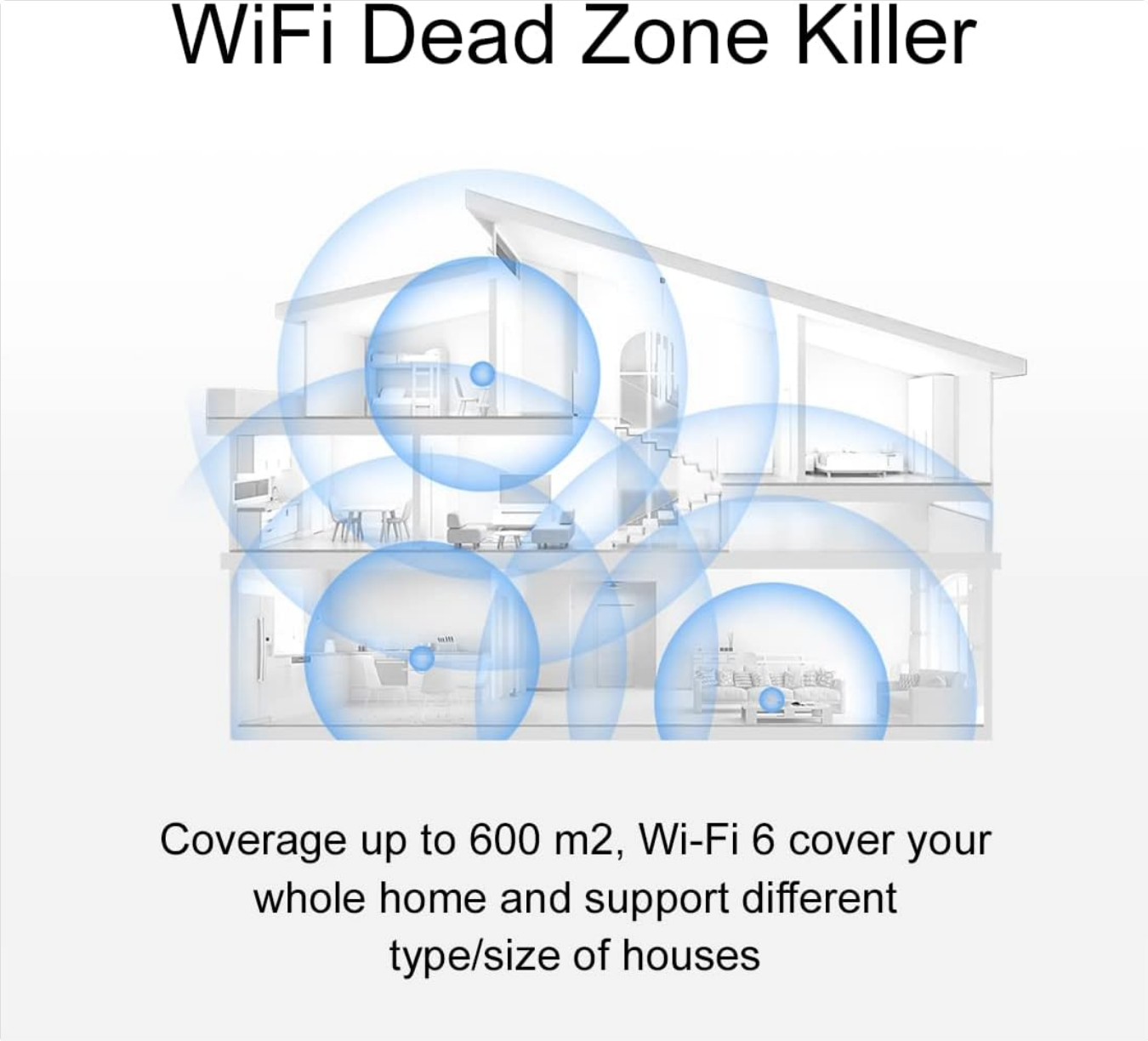


Figure 5: Wi-Fi Dead Zone Killer - Extensive Coverage

Maintenance

Regular maintenance ensures optimal performance and security of your Huawei Mesh 3 system.

- **Huawei AI Life App:** Use the AI Life app to fully manage your home Wi-Fi network. This includes monitoring connected devices, setting parental controls, and managing guest Wi-Fi.
- **Firmware Updates:** Periodically check for and install firmware updates through the AI Life app. Updates often include performance improvements, new features, and security enhancements.
- **Network Security:** The Mesh 3 system includes HUAWEI HomeSec™ protection, featuring anti-brute force, anti-ARP spoofing, and one-click stranger removal to secure your network.



Figure 6: HUAWEI HomeSec™ Network Protection

- **Physical Cleaning:** Keep the units clean and free from dust to prevent overheating and maintain optimal performance. Use a soft, dry cloth for cleaning.

Troubleshooting

If you encounter issues with your Huawei Mesh 3 system, refer to the following common troubleshooting steps:

- **No Internet Connection:**
  - Check if the main Mesh 3 unit is properly connected to your modem/router and powered on.
  - Verify that your modem/router is working correctly and has an active internet connection.
  - Restart your modem/router and the Mesh 3 units.
- **Weak Wi-Fi Signal or Dead Zones:**
  - Ensure all Mesh 3 units are powered on and their indicator lights are stable.
  - Adjust the placement of the satellite Mesh 3 units to ensure optimal coverage and minimize interference from physical obstacles.

    - Consider adding more Mesh 3 units if your home is very large or has many signal-blocking structures (e.g., concrete walls).

- **Devices Not Connecting:**
    - Verify that you are using the correct Wi-Fi network name (SSID) and password.
    - Restart the problematic device.
    - If using NFC quick connect, ensure NFC is enabled on your phone and you are tapping the correct area.
- **Network Management Issues (AI Life App):**
    - Ensure your smartphone is connected to the Mesh 3 Wi-Fi network.
    - Update the AI Life app to the latest version.
    - The app provides a one-step fault detection and repair function to identify and resolve network problems.
- **Factory Reset:** If issues persist, you may need to perform a factory reset. Locate the reset button on the back of the unit (refer to Figure 2) and press and hold it for approximately 10 seconds until the indicator light changes, then release. Note that this will erase all custom settings.

Specifications

Feature	Detail
Model Name	Mesh 3 (WS8100-33)
Dimensions	17.4 x 7 x 10.7 cm
Weight	437 grams
Wireless Standard	802.11ax/ac/n/a (5GHz), 802.11ax/n/b/g (2.4GHz)
Frequency Band	Dual-Band (2.4GHz & 5GHz)
Max. Speed	Up to 3000 Mbps (2402 Mbps on 5GHz, 574 Mbps on 2.4GHz)
WAN Connection Methods	PPPoE/DHCP/Static IP
Special Features	802.11kvr protocol, HarmonyOS Mesh+, Wi-Fi timer, Guest Wi-Fi, Device speed limit, Wi-Fi access control, Parental control, VPN passthrough, DMZ/Virtual server
Compatible Devices	Tablets, Smart TVs, Personal Computers, Laptops
Recommended Use	Gaming, Home Network

Package Contents

The Huawei Mesh 3 AX3000 package typically includes the following items:

- 3 x Huawei Mesh 3 Units

- 1 x Power Adapter
- 1 x Quick Start Guide
- 1 x Warranty Card
- 1 x Ethernet Cable

Warranty and Support

Your Huawei Mesh 3 system comes with comprehensive warranty and technical support.

- **Warranty:** A two-year technical support and warranty are provided with Life Wire / iPhones. Please refer to the included warranty card for specific terms and conditions.
- **Technical Support:** For technical assistance, troubleshooting, or any product-related inquiries, please contact the authorized service center or refer to the official Huawei support channels.

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Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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