

Mir:ai AI Hub

User Manual

AI NILM Smart Hub DSC-1AA53

Power Input: 5VDC/2A

Operating Temperature: -10~35°C

1. **Supports Multi-brand Devices**

Utilizing the Matter protocol, this device simplifies control by enabling seamless connection with smart home products across various brands.

2. **Stable Wireless Connectivity**

Built-in dual band Wi-Fi (2.4GHz/5GHz) to ensure stable connectivity.

3. **High-speed Processor**

Equipped with a quad-core processor to ensure fast computing and a highly responsive system.

4. **Wired Network Connection**

Features an RJ-45 Ethernet port (10/100M) to provide a more reliable network connection.

5. **Simple Operation**

One-click pairing and setup via the Mir:ai AI Smart APP for easy device management.



Safety Information

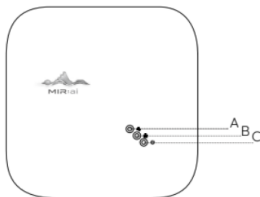
Warnings & Precautions

1. This product is not suitable for children under 8 years old; children must be supervised by an adult when using it.
2. Please avoid placing it in high temperature, humid, or dusty environments to prevent product damage.
3. Do not disassemble or modify the product yourself to avoid malfunction or safety risks.
4. When utilizing wall-mounting, ensure the chosen surface is flat and stable, and that the device is securely fastened.
5. Avoid direct sunlight and keep the device away from sources of fire and high-heat equipment.
6. Any repair or disassembly of the product by non-professionals is strictly prohibited, as it will invalidate the product's warranty and after-sales service.
7. For indoor use only; avoid operating this product outdoors or in wet environments.
8. Maintain the security of the network connection while the device is in use. Only permit access by trusted devices and users.
9. Should the product exhibit unusual behavior (such as strange odors, excessive noise, or overheating), immediately unplug the power, discontinue use, and contact customer service for an inspection.
10. To clean the product, wipe the exterior with a dry cloth only. Avoid using water or any other volatile liquids.
11. When using a wall-mounted method, the installation height must not exceed 2 meters.

General Information	● CPU: Quad-core ARM Cortex-A53, 2.0GHz ● Memory: LPDDR4 4GB; eMMC 8GB ● OS: Linux Yocto 24.1
Radio	● IEEE 802.11a/b/g/n/ac dual band Wi-Fi ● BLE 5.1
Antenna Type	Internal x 3
Ethernet	10/100Mbps (RJ-45) x 1
I/O	● Built-in LED x 3 ● USB-C x 1 (for power input) ● USB-A x 1 (for data only) ● Pairing button x 1 ● Reset button x 1
Power Supply	Input: 100-240VAC; 50/60Hz Output: 5VDC/2A
Operating Conditions	● Temperature: (Device) -10~50°C; (Adapter) -10~35°C ● Humidity: 10 – 90%RH (non-condensing)
Storage Conditions	● Temperature: -20~65°C ● Humidity: 5 – 95%RH (non-condensing)
Dimension	108.5 x 108.5 x 78.7 mm
Weight	● Device: 198g ● Package: 480g

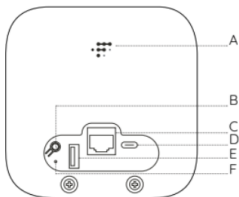


Product Appearance



Front View

- A. Pairing LED
- B. Network LED
- C. Power LED



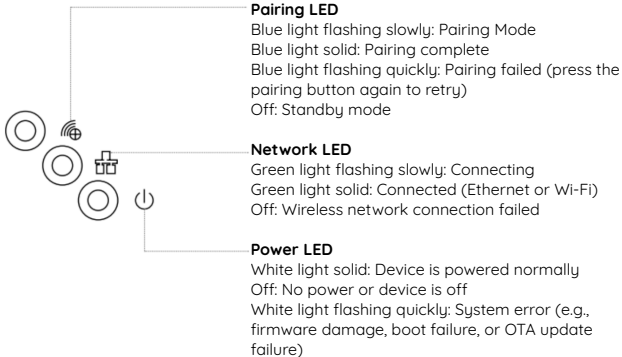
Rear View

- A. Buzzer
- B. Pairing Button
- C. Ethernet Port
- D. Type-C Port
(Power and Data Transmission)
- E. Type-A Port
(Data Transmission)
- F. Reset Button

Please remove the rear stand, then use M3 Countersunk Wood Screw x 2pcs
for wall-mount installation.



Indicator Light Descriptions



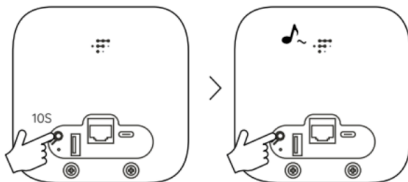


Other Button Descriptions

Pairing Button

Long press for 10 seconds to enter pairing mode.

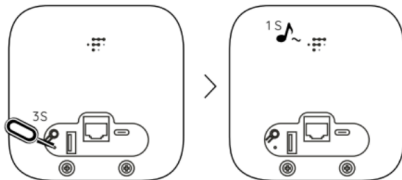
When you hear a "short beep" from the buzzer, it indicates the device has successfully entered pairing mode.



Reset Button

Press with a pin for 3 seconds.

When you hear a "long beep" for about 1 second from the buzzer, it indicates the reset is triggered successfully.





Firmware Upgrade Support

Firmware and software upgrade support will be provided for seven years from the product's first date of sale.

① App Download

Check the operating system of your smartphone.

- iPhone users → App Store
- Android users → Play Store

Search for "Mir:ai" to download and install the Mir:ai AI Smart APP.

Once installation is complete, the app is ready to use.



② Registration & Setup

1. **Choose your login method**
new users can create a Mirai account.
2. **Complete sign-in**
Proceed with the selected login method.
3. **Start Managing**
Once logged in, you can begin to manage your connected home and devices.

③ Add Home

1. **Add Home**
Open the App. If no Home has been created yet, tap "Add Home" on the screen. If a home already exists, tap "+" in the top right corner → "Add Home" to create a new home space.
2. **Name your Home**
Enter a home name, e.g. "My Home" or "Office".
3. **Creation Complete!**
The system will automatically return you to the main screen of your Home.

④ Bind Your Hub

How to Connect and Bind Your Hub

Follow these steps to connect and set up your Hub with the Mir:ai AI Smart APP.

1. **Activate Pairing Mode**

Ensure the Hub is in pairing mode. If the indicator light is not flashing, long-press the pairing button until it starts to flash. (See “Button Descriptions” → “Pairing Button” for details.)

2. **Launch and Log In to the App**

Open the Mir:ai AI Smart APP, tap the “+” icon in the top right corner, and select “Add Device.”

3. **Identify Your Device**

Scan QR Code: Select “Scan QR Code” and point your camera at the QR Code located on the back of the Hub.

Manual Input: Alternatively, select “Enter Pairing Code” and manually enter the 11-digit pairing code found below the QR Code.

4. **Establish Wi-Fi Connection**

Confirm the following network conditions:

- You **must** be using a 2.4GHz Wi-Fi network.
- The Wi-Fi signal is stable and strong.
- Your smartphone and the Hub are connected to the exact same Wi-Fi SSID.

5. **Complete Binding**

Wait for the binding process to finish. Once complete, you will be prompted to name your Hub and assign it to a specific Room.

6. **Setup Complete**

You can now access and utilize your Mir:ai AI smart home services.

Troubleshooting — If Binding Fails:

Check the following:

- Is the Hub still actively in pairing mode? (Refer to “Button Descriptions” → “Pairing Button”).
- Are you using a 2.4GHz Wi-Fi band, and is the signal stable?

Package Contents

Mirai AI Hub

Power Adapter



GF050020B-1

Input: 100-240VAC, 50/60Hz, 1.0A

Output: 5VDC/2A

Need Help?

Email: support@l3homeation.com

Phone: +65 9648 0386

Federal Communications Commission (FCC) Statement

15.105(b)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- *Reorient or relocate the receiving antenna.*
- *Increase the separation between the equipment and receiver.*
- *Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
- *Consult the dealer or an experienced radio/TV technician for help.*

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- 1) this device may not cause harmful interference and*
- 2) this device must accept any interference received, including interference that may cause undesired operation.*

15.21

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement:

This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.