

DNAKE



User Manual

DNAKE RIM08

REMARK

Please follow the user manual for correct installation and testing. If there is any doubt please call our tech-supporting and customer center.

Our company applies ourselves to reformation and innovation of our products. No extra notice for any change. The illustration shown here is only for reference. If there is any difference, please take the actual product as the standard.

The product and batteries must be handled separately from household waste. When the product reaches the end of service life and needs to be discarded, please contact the local administrative department and put it in the designated collection points in order to avoid the damage to the environment and human health caused by any disposal. We encourage recycling and reusing the material resources.

CATALOG

PRODUCT FEATURE	1
TECHNICAL PARAMETER ..	1
OVERVIEW	2
WEB SETTING.....	3
DEVICE SETTING.....	10
SYSTEM DIAGRAM	12
DEVICE WIRING.....	13
INSTALLATION.....	18
SAFETY INSTRUCTION	20

PRODUCT FEATURE

1. Control different devices, such as lights, heating, natural gas, curtains, water valves, etc.
2. Support different control entrances including relay module, indoor monitor, and APP
3. Powered by PoE or power adapter (DC12V/2A)
4. Support remote control of device
5. Rail mounting

TECHNICAL PARAMETER

Power Supply: PoE (802.3af) or DC 12V/2A

Rated Power: 5 W

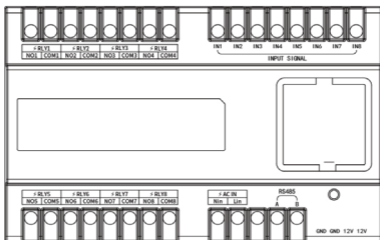
Working Temperature: -10°C to +55°C

Storage Temperature: -40°C to +70°C

Working Humidity: 10% to 90% (non-condensing)

Installation: Rail mounting

OVERVIEW

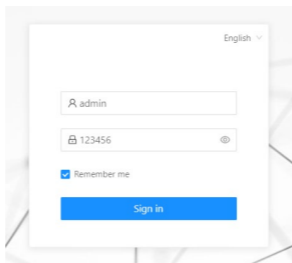


WEB SETTING

1. RIM08 web settings

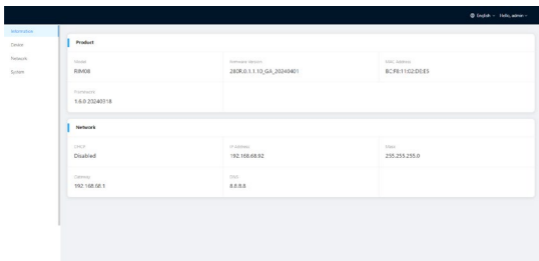
Connect RIM08 and PC to a network switch in the same LAN. You can enter the IP address of RIM08 in the web browser search bar and log in with the default account (admin) and password (123456). This is where you can configure the device.

For getting the IP address, you can search by DNAKE Remote Upgrade Tool which is installed in the same LAN with the devices. And it's recognized as a Villa station on tool.



1.1 Information

When you first log in to the web interface, you can find basic information displayed in this dashboard.



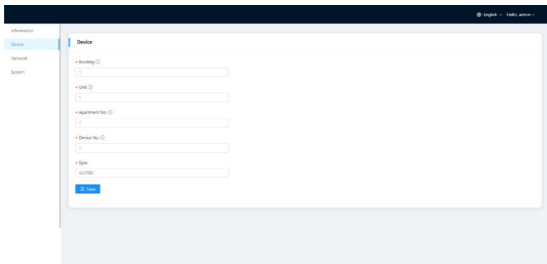
Model:	Model of the device;
Firmware Version:	Firmware version of the device;
MAC Address:	MAC address of the device;
Framework:	Framework of the device;
DHCP:	Status of DHCP;
IP Address:	Current IP address of the device;
Mask:	Subnet mask of the device;
Gateway:	Gateway of the device;
DNS:	Domain Name Server of the device;

1.2 Device

Numbers here are basic settings to relate RIM08 with Indoor Monitor. The Building, Unit, Apartment, and

Sync number should be the same as those in Indoor Monitor.

The device number here is to distinguish different RIM08.

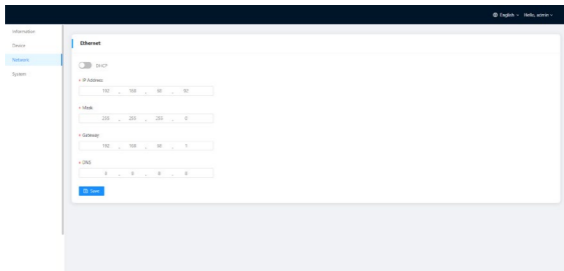


The screenshot shows a web application interface with a dark header and a light sidebar. The sidebar has a menu with 'Device' selected. The main content area is titled 'Device' and contains a form with five fields, each with a plus sign and a dropdown arrow: 'Building', 'Unit', 'Apartment No.', 'Device No.', and 'Sync'. The 'Sync' field has the value '01000' entered. A blue 'Save' button is located at the bottom left of the form.

Building:	Number of the building (Range: 1-999);
Unit:	Number of the unit (Range: 0-99);
Device No:	Number of the device (Range: 1-9);
Sync:	A number used to synchronize to Indoor Monitors;

1.1 Network

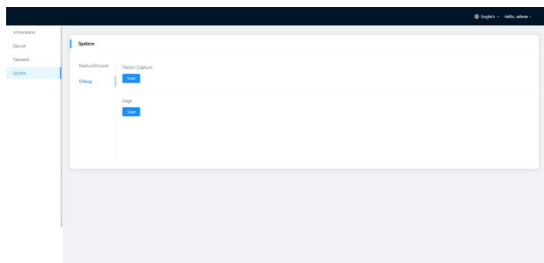
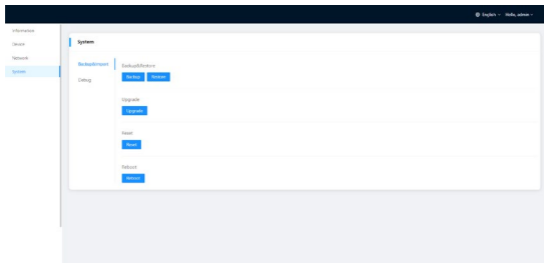
The device network can be set to either DHCP or a static IP address.



DHCP:	Enable DHCP (Dynamic Host Configuration Protocol) to dynamically distribute network configuration parameters;
IP Address:	Configure Static IP address to manually distribute network configuration parameters;
Mask:	Subnet mask;
Gateway:	A component that is part of two networks, which use different protocols;
DNS:	Domain Name Server of the device;

1.3 System

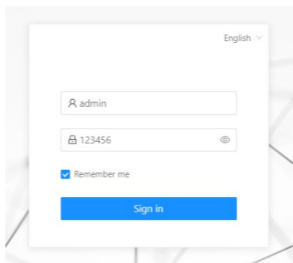
The system column is designed for data backup and restore, firmware upgrade, factory default, device reboot, packet capture, logs capture, and obtaining UI screenshots.



Backup&Restore:	Backup all setting and restore settings;
Upgrade:	Upgrade equipment;
Reset:	Reset to factory settings;
Reboot:	Reboot the device;
Packet Capture:	Capturing packets can help developers reproduce positioning problems;
Logs:	Device logs;

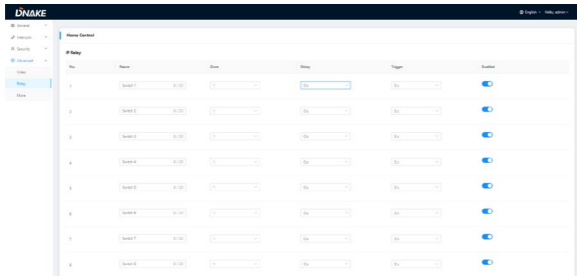
2. Indoor Monitor web setting

Connect Indoor Monitor and PC to a network switch in the same LAN. You can enter the IP address of Indoor Monitor in the web browser search bar and log in with the default account (admin) and password (123456). This is where you can configure the device.



1.1. Advanced > Relay

The Relay settings of RIM08 can be found in the Indoor Monitor's web page.



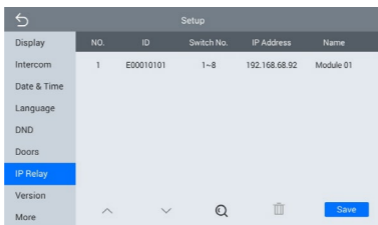
Name:	Customize name for switch button;
Zone:	The zone of Indoor Monitor;
Delay:	The length of trigger delay time (0-9s);
Trigger:	The length of the trigger time;
Enabled	Enable or disable switch on RIM08;

DEVICE SETTING

1. Search RIM08

Connect RIM08 and Indoor Monitor in the same LAN. After setting Building, Unit, Apartment and Sync number with Indoor Monitor on the web, you can find RIM08 on the Indoor Monitor here.

Note: The Building, Unit, Apartment and Sync number of RIM08 and Indoor Monitor should be the same.



The screenshot shows a mobile application interface titled "Setup". On the left is a vertical menu with options: Display, Intercom, Date & Time, Language, DND, Doors, IP Relay (highlighted in blue), Version, and More. The main area displays a table with the following data:

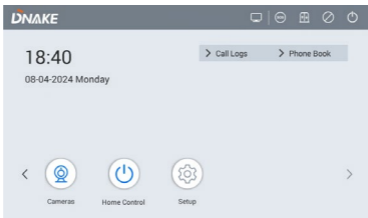
	NO.	ID	Switch No.	IP Address	Name
Intercom	1	E00010101	1~8	192.168.68.92	Module 01

At the bottom of the screen, there are navigation icons: an upward arrow, a downward arrow, a magnifying glass, a trash can, and a blue "Save" button.

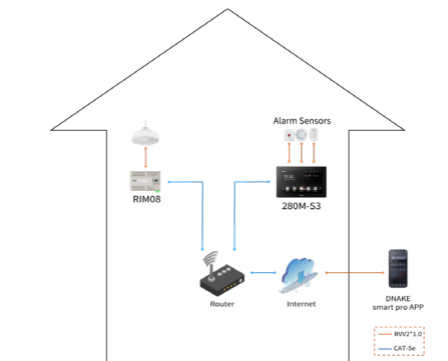
2. Home Control

After saving the RIM08 on Indoor Monitor, you will find home control button and its interface here. The relay will be triggered when you press the corresponding switch.

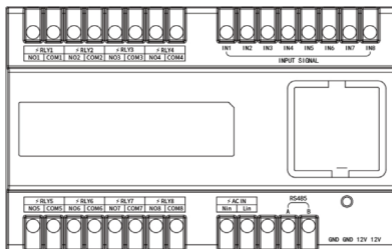
If you set the zone in the Advanced > Relay on indoor monitor's web page, when the zone is triggered, the relay which is connected to the RIM08 will also be triggered automatically. They are linked.



SYSTEM DIAGRAM



DEVICE WIRING

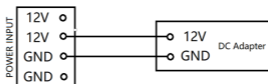


No.	Interface Name	Interface Function	Note
1	RLY_ NO_ COM_	Relay interface	Support 8 relays on one RIM08
2	INPUT SIGNAL IN	Input	Dry contact input
3	AC IN Nin Lin	Zero Crossing Detection (ZCD) interface	ZCD function when module connect with AC device
4	RS485 A B	RS485	RS485 input
5	GND GND 12V 12V	Power interface	DC 12V input
6	Ethernet (PoE)	Network interface	PoE (802.3af) 10/100 Mbps adaptive
7	Indicator light- -PWR	Power indicator light- -RED	On: Normal power supply Off: No powered or the power is faulty

8	Indicator light--SYS	System indicator light--RED	On: System running properly Off: System is starting or the system is faulty
9	Indicator light--NET	Network indicator light--GREEN	On: Network connected Off: Network disconnected
10	Indicator light--RLY	Relay indicator light--GREEN	Flash once: Relay is triggered once
11	Button--RESET	Reset	Keep press more than 5s to reset device

1. Power Interface

The power interface of Indoor Monitor connects to 12V DC power



2. Network (PoE)

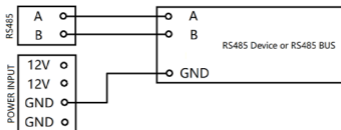
Standard RJ45 interface is for the connection with PoE switch or other network switch.



3. RS485 Interface

RS485 interface can connect to the equipment with RS485 interface;

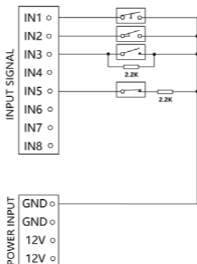
RS485 port can output 12V/100mA power supply, and +12V doesn't need to be connected when it's not in use;



4. Input Interface

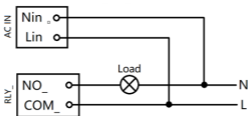
Each input interface can be separately connected to the warping switch, self-reset switch, normally open or normally closed sensor switch;

Each trigger control corresponds to relay action. For example, RLY1 will work after IN1 is triggered.



5. AC IN Interface

If you connect an AC device to RIM08, you can connect a 220V AC 50Hz/60Hz input to AC IN interface.



Q & A:

1. Q: What is the function of the AC IN interface?

A: This interface is used for Zero Crossing Detection (ZCD) function when you connect a AC device to the RIM08.

It can reduce the electrical shock caused by power-on of the connected device, and extending the life of the relay interface. It can ensure user safety and protect device security.

2. Q: Can I connect with AC device but don't connect to AC IN?

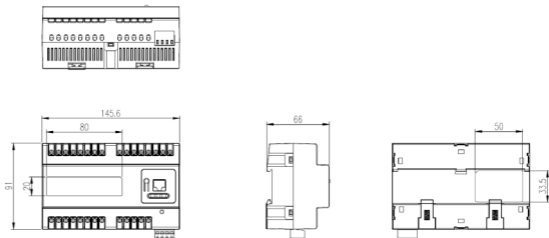
A: The RIM08 can work normally, but the life of relay interface will be reduced and device security will be degraded. We suggest you connect to AC IN when you connect with AC device.

3. Q: Whether the AC IN interface is required for connecting with DC device?

A: No.

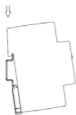
INSTALLATION

Three views of the product:



Installation procedure:

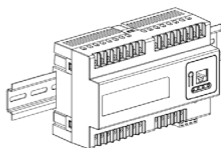
1. Clamp the upper end of the module to the guide rail.



2. Lift the spring stop by a flat-head screwdriver, and mount the module into the guide rail.



3. Installation complete



SAFETY INSTRUCTION

In order to protect you and others from harm or your device from damage, please read the following information before using the device.

- Do not torque too much.
- Do not install the device in the following places:
- Do not install the device in high-temperature and moist environment or the area close to magnetic field, such as the electric generator, transformer or magnet.
- Do not place the device near the heating products such as electric heater or the fluid container.
- Do not place the device in the sun or near the heat source, which might cause discoloration or deformation of the device.
- Do not install the device in an unstable position to avoid the property losses or personal injury caused by the falling of device.

Guard against electric shock, fire and explosion:

- Do not use damaged power cord, plug or loose outlet.
- Do not touch the power cord with wet hand or unplug the power cord by pulling.
- Do not bend or damage the power cord.
- Do not touch the device with wet hand.
- Do not make the power supply slip or cause the impact.

- Do not use the power supply without the manufacturer's approval.
- Do not have the liquids such as water go into the device.

Other Tips

- In order to prevent damage to the paint layer or the case, please do not expose the device to chemical products, such as the diluent, gasoline, alcohol, insect-resist agents, opacifying agent and insecticide.
- Do not knock on the device with hard objects.
- Overexertion might cause flopover or damage to the device.
- Please be careful when standing up from the area under the device.
- Do not disassemble, repair or modify the device at your own discretion.
- The arbitrary modification is not covered under warranty. When any repair required, please contact the customer service center.
- If there is abnormal sound, smell or fume in the device, please unplug the power cord and the devices connected to the module immediately and contact the customer service center.
- When the device isn't used for a long time, you can remove the power on device, and make sure all the devices (Including the AC IN interface) connected to the module are power off.

- When the device isn't used for a long time, the adaptor and memory card can be removed and placed in dry environment.
- When moving, please hand over the manual to new tenant for proper usage of the device.

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