



User Manual

DNAKE S212

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.



PRODUCT FEATURE	1
TECHNICAL PARAMETER	1
PACKAGE CONTENT	2
OVERVIEW	3
BASIC OPERATION	4
WEB SETTING	5
SYSTEM DIAGRAM 10	6
DEVICE WIRING1	7
NSTALLATION19	9
FROUBLESHOOTING2	5
SAFETY INSTRUCTION	6

PRODUCT FEATURE

- 1. Powered by PoE or power adapter (DC12V/2A)
- 2. Support IC (13.56MHz) & ID (125kHz) card, NFC
- 3. 3 Indicator Lights
- 4. 2 relays supported
- 5. Tamper alarm

TECHNICAL PARAMETER

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

Standby Power: 1.5 W

Rated Power: 3.5 W

Resolution: 1280 x 720

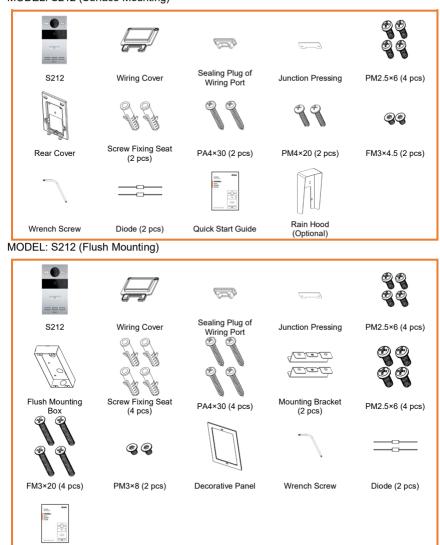
Working Temperature: -40°C to +55°C

Storage Temperature: -40℃ to +70℃

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

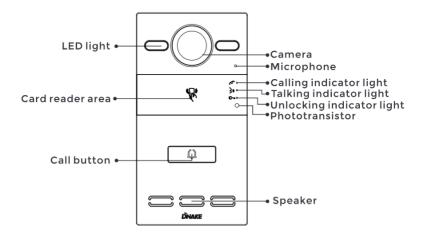
PACKAGE CONTENT

MODEL: S212 (Surface Mounting)



Quick Start Guide

OVERVIEW



Note:

Calling indicator light: The 1st indicator light will activate if the call button is pressed.

Talking indicator light: The 2nd indicator light will activate if the call is picked up or the Door Station is being actively monitored.

Unlocking indicator light: The 3rd indicator light activates for 3 seconds when the door is unlocked.

Relay Outputs: Supports 2 relay outputs.

BASIC OPERATION

1. Call and Monitor

1.1. Call Indoor Monitor

In standby mode, press button on Villa Station to call Indoor Monitor. During the call, press button on Villa Station again to end the call. If the call fails or Indoor Monitor is busy, Villa Station will make a beep sound.

1.2. Monitor Villa Station

Click Doors icon on Indoor Monitor's homepage to monitor Villa Station.

2. Add Cards by Admin Card

2.1. Add other cards

Step 1: Tap the admin card once;

Step 2: And then tap other cards immediately. Other cards you have tapped can be used to open the door:

Step 3: Tap the admin card again to finish.

2.2. Delete other cards one by one

Step 1: Tap the admin card twice;

Step 2: And then tap other cards immediately. Other cards you have tapped will be deleted;

Step 3: Tap the admin card again to finish.

2.3. Delete all other cards

Tap the admin card five times. All the other cards will be deleted.

Tips: The admin card can only be used to manage cards. It cannot be used to open the door.

WEB SETTING

Connect Door Station and PC to a network switch in the same LAN. You can enter the IP address of Door Station 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.

To get the IP address, you can search by DNAKE Remote Upgrade Tool installed in the same LAN with the devices.



1. General

1.1. General > Information

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

DNAKE					🚯 English \vee Hello, admin 🗸
88 General 🔷	Product				
Information Basic Time	Model 5212	Firmware Version 280D.1.1.3.14_GA_20221117		MAC Address BC:F8:11:0D:89:8C	
Password System	Framework 1.6.0 20221109			мси 1.6.3	
	Network				
Network	DHCP Enabled	IP Address 192.168.0.101		Mask 255.255.255.0	
Ring Group	Gateway 192.168.0.1	DNS 192.168.98.198			
Access Control Person	SIP Account				
Advanced Video	Account None		Status Disabled		
More	CMS IP None		status Disabled		

Model:	Model of the device;
Firmware Version:	Firmware version of the device;
MAC Address:	MAC address of the device;
Framework:	Framework of the device;
UI:	UI of the device;
MCU:	MCU 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;
Account:	SIP account of the device;
Status:	Status of SIP registration of the device;
CMS IP:	IP address of CMS;
Status:	Status of CMS registration;

1.2. General > Basic

Language, resolution and volume of the device can be configured in this column.

D ΝΛΚΕ	¢ (r	iglish \vee Hello, admin 🗸
Seneral 🔺		
Information	Basic	
Basic	Language	
Time	English	
Password	Resolution	
System	1280x720 v	
Intercom 🔷	(ii) Sere	
Device		
Network	Volume	
SIP		
Ring Group	Intercom	
A Access 🔹		
Access Control	System	
Person	D Swe	
Advanced Advanced		
Video		
More		

Language:	16 languages supported (简体中文, English, 繁體 中文, עברית, Deutsch, Español, Türk, Tiếng Việt, Nederlands, Português, Polski, Русский, عربی, Français, Italiano, slovenský);
Resolution:	
Intercom:	Volume of Intercom can be set from 1 to 6;
System:	Volume of System can be set from 1 to 6;

1.3. General > Time

Time of the device can be configured. Daylight Saving Time is also supported.

DNAKE		🏶 English 🗸 Hello, admin 🗸
😫 General 🔷 🔨	Time	
Information	Auto (Time)	
Basic	* DateStime	
Time		
Password	* NTP URL	
System	poolintp.org	
P Intercom ^	Time Zone	
Device	UTC+0800 V	
Network	C Save	
SIP		
Ring Group		
R Access ^	Daylight-saving Time	
Access Control	Duylight saving Time	
Person	Start Time	
Advanced ^		
Video	End Time	
More		
	Offset Time	
	C Sow	

Auto (Time):	Enable to synchronize computer time;
Date&Time:	Date and time can be set manually;
NTP URL:	Network Time Protocol (NTP) is a protocol used
	to synchronize computer time;
Time Zone:	A region that observes a uniform standard time;
Daylight-saving Time:	Enable to set DST;
Start Time:	The beginning of DST;
End Time:	The ending of DST;
Offset Time:	The default value is 60 minutes;

1.4. General > Password

The Web password is for the administrator to log in settings on the web. The default password is 123456.

ΟΝ ΔΚΕ		🛢 English \vee Hello, admin 🗸
🗄 General 🔷 🔺		
Information	Password	
Basic	System + Old Password	
Time	@	
Password	Web * New Password	
System	65	
J Intercom	× Confirm Password	
Device	ø	
Network	ID Sore	
SIP		
Ring Group		
A Access *		
Access Control		
Person		
& Advanced		
Video		
More		

Web Old Password:	Current administrator password of the web (Default 123456);
Web New Password:	New administrator password of the web;
Web Confirm Password:	Confirm administrator password of the web;

1.5. General > 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.

DNAKE			English v Hello, admin v
S General			
Information	System		
Basic	Backup&Import		
Time		Backup8.Restore Backup2. Restore	
Password	Debug		
System	[Upgrade	
J Intercom		Upgrade	
Device		Reset	
Network		Repet	
SIP			
Ring Group		Reboot	
A Access		Reboot	
Access Control			
Person			
Advanced Advanced			
Video			
More			

Ο ΝΛΚΕ		\$	English 🗸 🛛 Hello, admin 🗸
🔠 General 🔷 🛧			
Information	System		
Basic			
Time	Backup&Import	Packet Capture	
Password	Debug	Stat	
System		Logs	
J Intercom •		Start	
Device		Screenshot	
Network		Screenshot	
SIP			
Ring Group			
A Access			
Access Control			
Person			
Advanced *			
Video			

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;
Screenshot:	Screenshot device interface;

2. Intercom

2.1. Intercom > Device

Numbers here are basic settings for making a call to Indoor Monitor. For Door Station, the building and unit number should be the same as those in Indoor Monitor. For Villa Station with one button, the building, unit, and room number should be the same as those in Indoor Monitor.

The device number here is to distinguish different Door Stations when more than one Door Station is in one building.

DNAKE	🖨 English 🗸 Helto, admin 🗸
B General	1
Information	Device
Basic	+ Building ()
Time	3
Password	• Unit ①
System	1
J Intercom	• Room O
Device	101
Network	
SIP	1
Ring Group	🗈 Saw
A Access	
Access Control	
Person	
Advanced •	
Video	
More	

Building:	Number of the building (Range: 1-999);
Unit:	Number of the unit (Range: 1-99);
Room:	Number of the room (Range: 0-9899);
Device No:	Number of the device (Range: 1-9);

2.2. Intercom > Network

The device network can be set to either DHCP or a static IP address. CMS parameters should be configured here when you try to register this device to CMS.

ΟΝ ΔΚΕ		
E General 🔷 🗠	Network	
Information	_	
Basic	C DHCP	
Time	* IP Address	
Password		
System	* Masic	
J Intercom		
Device	* Gateway	
Network	192 . 168 . 68 . 1	
SIP	* DNS	
Ring Group		
A Access	III Save	
Access Control		
Person	Register To CMS	
& Advanced ^		
Video	CIII CMS	
More	CMS IP	
More	0,0,0,0	
	* Password	
	ID Save	

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;
CMS:	Enable to use CMS software to manage devices;
CMS IP:	Server address of CMS;
Password:	Password you set for this device's CMS registration;

2.3. Intercom > SIP

The SIP column concerns SIP registration, Display Name, Register Name,

Username, Password, SIP Server Host, Outbound Proxy, Transfer Protocol,

Video Payload, etc.

DNAKE				⊕ English v Hel
General	SIP			
Information	SIP			
Besic	Display Name			
Time	1			
Password	Register Name			
System				
a Intercom	Username			
Device				
Network	Password			
SIP		65		
Ring Group	SIP Server Host	+ Port ①		
A Access		5060		
Access Control	Outbound Proxy	+ Port ①		
Person		5060		
Advanced	Transport Protocol			
Video	UDP			
More	+ Video Payload ① 102			

SIP:	Enable to use SIP;
Display Name:	Display name of SIP;
Register Name:	Register Name of SIP;
Username:	Username of SIP;
Password:	Password of SIP;
SIP Server Host:	SIP Server Host of SIP; the default port is 5060;
Outbound Proxy:	Outbound Proxy of SIP; the default port is 5060;

Transfer Protocol:	Transfer Protocol (UDP, TCP, TLS);
Video Payload:	Video payload range is 96-127;

2.4. Intercom > Ring Group

Ring group is for setting up SIP calls or call mode. Concierge button, the length of the call and ring time can also be configured here.

DNAKE	7		🕲 ánglati v - Hello, admin v
E Deneral A	Ring Group		
internation	Media: one by one		
Ser.	Meeter: one by one		
Time	Add C Delete All		Import Export
Passord	No. Roore No.	Munitary	Action
System			
d transmin .			
Derice			
Network			
10	ID See		
Ring Group			
A Asses	Call Concierge		
Access Control	Carculate		
Person	UK		
O Advanced A			
Video.	(B) Sales		
Mare			
	Settings		
	Dial Mode		
	Normal		
	Ring Time		
	39		
	Califina		
	125		
	· (E) Save		

Mode:	2 modes supported (one by one, all at once);
URL:	URL of the concierge button;
Dial Mode:	2 dial modes supported (Normal, Repeat);
Ring Time:	The ring will be ended automatically after a period of time (10s, 20s, 35s, 45s, 60s, 90s, 120s)
Call Time:	The call will be ended automatically after a period of time (120s, 300s, 600s, 1200s, 1800s);

3. Access

3.1. Access > Access Control

Relays and access cards can be configured here.

DNAKE					🔮 English \vee Helio, admin V
8 General ^	Relay				
Information					
Basic	Relay	DTMF	Unlock Delay	Unlock Time	
Time	Relay1	. e	01 V	34	
Password					
System	Relay2		ti v	68	
Intercom ^					
Device	Dry Contact Input 1				
Network	Evit Button	∨] Belayt			
SIP	Dry Contact Input 2				
Ring Group	Evit Button	V Relay2			
A Access	E Save				
Access Control					
Person	Card				
Advanced	Caro				
Video	Master Card				
More	Read				
	Swipe to arm/disarm				
	ID Save				

Relay 1-2:	2 relays supported;
,	
DTMF:	Dual-tone multi-frequency signaling (Relay1: #,
	Relay2:0, relay3: *);
Unlock Delay:	The length of unlock delay time (1-9s);
Unlock Time:	The length of unlock time (1-9s);
Dry Contact Input 1-2:	3 modes of dry contact inputs are supported
	(Exit Button, Door Sensor, Fire Linkage);
Master Card:	Click read to add Master card to manage cards;
Swipe to arm/disarm:	Enable to let security alarm (on and off) keep
	pace with registered cards (lock and unlock);

3.2. Access > Person

Person column is for access authorization.

DNAKE										🕲 English 🗸 H	lello, ad
8 General 🔺											
Information	Person										
Basic	Group	O Name			Room	No.			Card No.		
Time	Ungroup										
Password										Q. Search	Rese
System		+	Add Delete All							Import	Expo
Intercom ^				Name	Room No.	Person Type	Card No.	Relay	Status	Action	
Device											
Network											
SIP											
Ring Group											
Access *											
Access Control											
Person											
Advanced ^											
Video											
More											

Search:	Fill in text inputs to search;
Reset:	Click reset to clear words in text inputs;
Add:	Add users to Door Station;
Delete All:	Delete all data on the chart;
Export:	Export all data on the chart;

4. Advanced

4.1. Advanced > Video

Real-time video from IP cameras can be obtained by filling in its URL (RTSP). On the talking interface of Indoor Monitor, you can click the little keyboard icon to switch to IP cameras' video. (No.1 on the keyboard stands for Door Station while No.2 to No.5 stands for IP camera)

DNAKE
B General ^
Information
Basic
Time
Password
System
J Intercom
Device
Network
SIP
Ring Group
A Access
Access Control
Person
Advanced
Video
More
MUTE

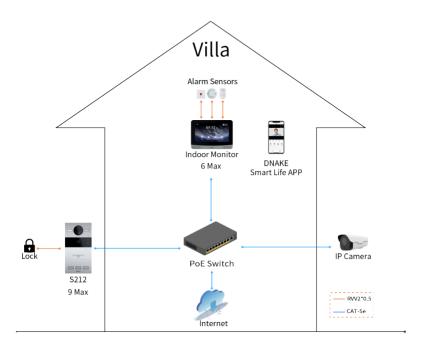
RTSP Feed:	4 IP cameras supported to switch while talking on Indoor Monitor;
URL:	IP camera's URL;

4.2. Advanced > More

More column is for Tamper Alarm and ONU Penetration.

DNAKE	🔁 Englich 🗸 Holio, admin 🗸	
88 General 🔺		
Information	Tamper	
Basic	Tamper Alarm	
Time		
Password	D Sme	
System		
P Intercom		
Device	Other	
Network	ONU Penetration	
SIP		
Ring Group	(2) Save	
A Access		
Access Control		
Person		
Advanced		
Video		
More		

Tamper Alarm:	Enable to use Tamper alarm;
ONU Penetration:	Enable to prevent ONU from banning multicast;



DEVICE WIRING

~							
/	+12V	1				1	485+
	GND	2				2	485-
	WD0	3	Ne	etwork(Pc	E)	3	NC1
	WD1	4			1	4	COM1
	GND	5				5	NO1
	INPUT1	6				6	NC2
	GND	7				7	COM2
	INPUT2	8				8	NO2

1. Network (PoE)

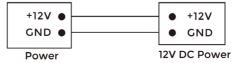
Standard RJ45 interface used to connect to the Master Station, Indoor Monitor and/or other network equipment via network switch.

PSE shall comply with IEEE 802.3at (PoE+) and its output power not less than 30W and its output voltage not less than 50V.

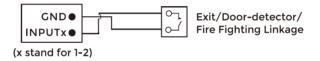


2. Power

The power interface of Door Station connects to 12V DC power.



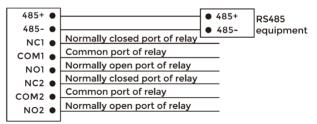
3. Exit/Door-detector/Fire Fighting Linkage



4. RS485/Switching Value Output

Enable to connect equipment with RS485 interface.

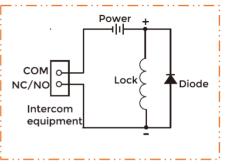
Connect to the lock module (an independent power supply is necessary for the lock).



RS485/Switching Value Output

A Warning!

 When connecting to an inductive load device such as a relay or electromagnetic lock, you are recommended to use a diode 1A/400V (included in the accessories) in antiparallel with the load device to absorb inductive load voltage peaks. The intercom will be better protected in this way.
 The load current of the relay cannot be greater than 2A. See attached picture for more details.



5. Card Reader Interface

The interface can be connected to one IC/ID card reader or be used for reading the information of built-in card reader.



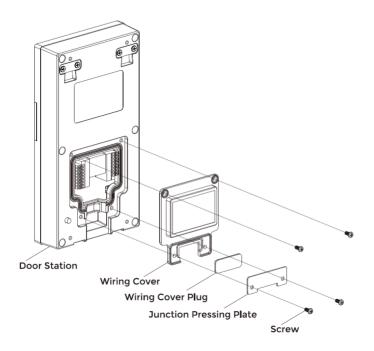
Card Reader Interface

IC/ID Card Reader or Management Device

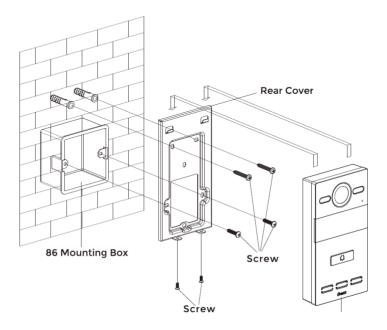
Note: Door Station can only be connected to one card reader or management device at a time.

INSTALLATION

Installation of Wiring Cover

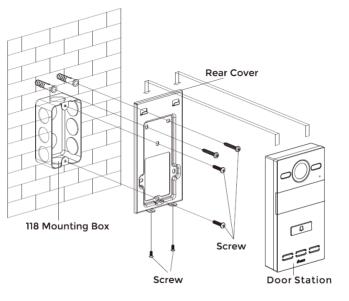


Surface Mounting-86 Mounting Box

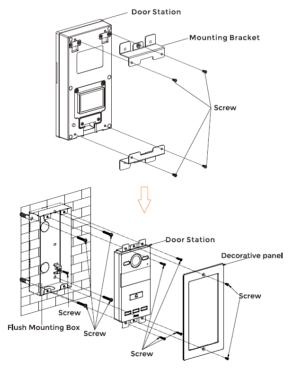


Door Station

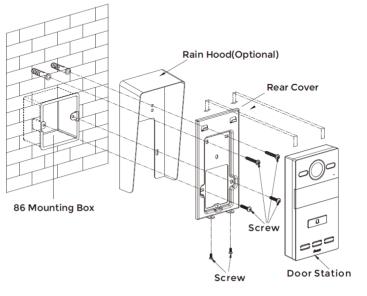
Product size:	88 × 168 × 32.5 mm
Surface Mounting size:	88 × 168 × 34 mm



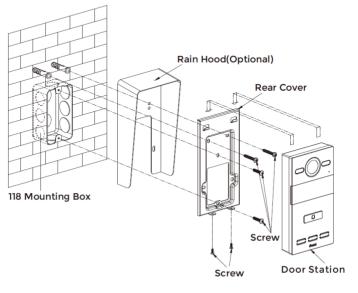
Product size: 88 × 168 × 32.5 mm Surface Mounting size: 88 × 168 × 34 mm



Product size:	88 × 168 × 32.5	5 mm
Flush Mounting size:	120 × 210 × 48	mm
Hole-cutting size:	98 × 199 × 42	mm

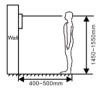


Product size: 88 × 168 × 32.5 mm Surface Mounting size: 88 × 168 × 34 mm



Product size: 88 × 168 × 32.5 mm Surface Mounting size: 88 × 168 × 34 mm

Tips:



The camera should be 1450~1550mm above the ground. The camera at this height can capture human face perfectly.

TROUBLESHOOTING

The Indoor Monitor cannot start up or power off automatically.

Check whether it has power-failure, and power it on again

The Indoor Monitor display screen is too dim.

Check whether the brightness and contrast settings of screen are correct.

No sound during the communication.

 Check whether the Indoor Monitor is set as mute mode, or the volume is set to the lowest.

The Indoor Monitor cannot monitor the Door Station.

 Other user is using the system, so you can use it once he/she finished the operation.

Multimedia files cannot be played normally.

 Check whether the system supports the file format. Please refer to the multimedia setting for details.

No response when clicking Indoor Monitor display screen.

 Press "Unlock" button for 5s, or slowly slide horizontally or vertically on the LCD to make touchscreen calibration. It needs to be calibrated.

Touchscreen responses slowly or cannot make calibration.

- Take down any protective paster, since it may affect identification
- and input for device;
- Ensure the finger is dry and clean when clicking touchscreen;
- Restart the device to clear any temporary software error.

The temperature of device is too high.

 Long-term use leads to high temperature. It's normal and will not affect the device's use life and performance.

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 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.

Clean Device Surface

 Clean the device surfaces with soft cloth dipped in some water, and then rub the surface with dry cloth.

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.
- Do not press the screen surface. 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 immediately and contact the customer service center.
- 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.



