



User Manual

DNAKE S213M

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.



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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
- 6. Multi-button supported (2 or 5 buttons optional)

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: S213M (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. Each button on Door Station is related to the fixed room number as shown in the picture below. 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 Helio, admin 🗸
🖽 General 🔷	Product				
Information					
Basic	S213M	Errmware Version 280D.1.1.3.14_GA_20221117		MAC Address BC:F8:11:0D:89:8C	
Time					
Password	Framework	UI		MCU	
System	1.6.0 20221109	1.3.11 20221116		1.6.3	
J Intercom	1 Hand				
Device	NEWOK				
Network	DHCP	IP Address		Mask	
SIP	Enabled	192.168.0.101		255.255.255.0	
Ring Group	Gateway	DNS			
A Access	192.168.0.1	192.168.98.198			
Access Control					
Person	SIP Account				
Advanced Advanced	Account		Status		
Video	None		Disabled		
More	CMS IP				
	None		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.

<i>ΟΝΛΚΕ</i>		⊕ English ∨ Hello, admin ∨
😫 General 🔷 🔺		
Information	Basic	
Basic	Language	
Time	English v	
Password	Resolution	
System	1280,720 V	
P Intercom	(D) Size	
Device		
Network	Volume	
SIP		
Ring Group	Intercom	
A Access *		
Access Control	System	
Person		
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:	3 resolutions supported (320 × 240, 640 × 480, 1280 × 720);
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 × Helio, admin ×
General ^	Time	
Basic	Auto (lime)	
Time	* DateStTime	
Password		
System	* NTP LRL	
J Intercom	poolntp.org	
Device	Time Zone UTC+08:00 V	
Network	0 Size	
SIP		
Ring Group		
R Access ^	Daylight-saving Time	
Access Control Person	Digitificating Time	
& Advanced ~	Start Time	
Video		
More	April V First V Sunday V 3.00	
	Other Time (Clevel)	
	U SWE	

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.

DNAKE	e traj	lish 🗸 Hello, admin 🗸
General	Password	
Basic	Vice +Old Research	
Time Password	* New Parsnord	
System	Ø * Confirm Passeord	
Device	Ø	
Network	U Sar	
Ring Group		
A Access A		
Person		
Nideo Advanced		
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		Engish v Hello, admin v
General		
Information	System	
Basic		
Time	Backup&mport Backup&Restore	
Password	Debug Res	
System	Upgrade	
J Intercom	Upgrade	
Device		
Network	Reset	
SIP	Nisic	
Ring Group	Reboot	
A Access	Reboot	
Access Control		
Person		
Advanced		
Video		
More		

<i>DNAKE</i>	e	English \vee Hello, admin 🗸
88 General 🔷		
Information	System	
Basic	BrohusAlmont out-of-	
Time	Statt	
Password	Didug	
System	Logs	
∂ Intercom •	Start	
Device	for an and the second se	
Network	Screenhot	
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.

ΰ ΝΛΚΕ	🔮 Englich 🗸 Hotio, admin V
E General	
Information	Device
Basic	+ 8ulding ⊙
Time	1
Password	+ Lost ①
System	1
Jintercom •	• Device Na 🔘
Device	1
Network	© Sive
SIP	
Ring Group	
A Access	
Access Control	
Person	
Advanced Advanced	
Video	
More	

Building:	Number of the building (Range: 1-999);
Unit:	Number of the unit (Range: 1-99);
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.

DNAKE		English v Helio, admin v
SE General ^	Network	
Information	_	
Banic	● DHCP	
Time	* IP Address	
Password		
System	* Mask	
P Intercom		
Device	* Gateway	
Natural		
COD.	"DIG	
SIP		
Ring Group	B Saw	
R Access ^		
Access Control	Register To CMS	
Person		
Advanced ^	CONS CARS	
Video	* CMS IP	
More	0 . 0 . 0	
	* Password	
	<i>Ø</i>	
	(1) Serve	

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			Inglish v Hello, as
SE General ^			
Information	SIP		
Basic	5 8		
Time	Disnlay Name		
Password	1		
System	Register Name		
J Intercom			
Device	Username		
Network			
SIP	Password		
Ring Group	0		
R Access ^	SIP Server Host	* Fort ()	
Access Control		5060	
Person	Outbound Proxy	• Fort ()	
8 Advanced ^		5060	
Video	Transport Protocol		
More	UDP V		
	* Video Payload ①		
	102		
	(D) Save		

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;
Register Name: Username: Password: SIP Server Host: Outbound Proxy:	Register Name of SIP; Username of SIP; Password of SIP; SIP Server Host of SIP; the default port is 5060; 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. The length of the call and ring time can also be configured here.

DNAKE				@ Engli	sh v Hello, admin v
S General ^	Ring Group				
Information	Made: and builded				
Basic	widow: one by one				
Time	+ Add Delete A				Import Export
Password	No.	Room No.	Number	A	tion
System					
P Intercom					
Device					
Network					
SIP	II Save				
Ring Group					
R Access ^	Cattions				
Access Control	Sectings				
Person	Dial Mode				
8 Advanced ^	Normal				
Video	Ring Time				
More	35s				
	Call Time				
	120s				
	D Save				

Mode:	2 modes supported (one by one, all at once);
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.

ΟΝΛΚΕ		English v Hello, admin v
General	Relay	
Information	Relay DTMF Unlock Delay Unlock Time	
Time	e Ds ∨ 3s	
Password System	Relig2 0 ts v 6s	
P Intercom		
Device	Dry Contact Input 1 Exit Button V Relay1 V	
SIP	Dig Contact Input 2 Bit Betron V Betro	
Ring Group	🖸 San	
Access Control		
Person	Card	
Advanced Video	Master Card	
More	Read	
	(D) 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;

3.2. Access > Person

Person column is for access authorization.

DNAKE										🕀 English 🗸 Helko, adı
E General	-									
Information	Person									
Basic	Group	G	Name		Roo	π No.			Card No.	
Time	Ungroup									
Password										Q. Search Rese
System			+ A61 0 D	iete All						Import Expo
lintercom			No.	Name	Room No.	Person Type	Card No.	Relay	Status	Action
Device										
Network										
SIP										
Ring Group										
R Access										
Access Control										
Person										
8 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	🕏 English 🗸 Hello, admin 🗸
B General A	
Information Video	
Basic RTSP Feed	
Time Disabled V	
Password 🔃 Save	
System	
J Intercom A	
Device	
Network	
59	
Ring Group	
8 Access •	
Access Control	
Person	
Advanced	
Video	
Mare	

RTSP Feed:	ed: 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.

Ο ΝΛΚΕ		🕲 English \vee Hello, admin 🗸
🗄 General 🔺		
Information	Tamper	
Basic	Tamper Alarm	
Time		
Password	(3) Save	
System		
lintercom ▲		
Device	Other	
Network	ONU Penetration	
SIP		
Ring Group	(B) 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;

SYSTEM DIAGRAM



DEVICE WIRING

~					
/	+12V	1		1	485+
	GND	2		2	485-
	WD0	3	Network(PoE)	3	NC1
	WD1	4		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





Product size: 88 × 188 × 32.5 mm Surface Mounting size: 88 × 188 × 34 mm



Product size:	88 × 188 × 32.5 mm
Surface Mounting size:	88 × 188 × 34 mm

Flush Mounting



Product size:	88 × 188 × 32.5	mm
Flush Mounting size:	120 × 230 × 48	mm
Hole-cutting size:	98 × 219 × 42	mm



Product size:	88 × 188 × 32.5 r	nm
Surface Mounting size:	88 × 188 × 34 r	nm



Product size: 88 × 188 × 32.5 mm Surface Mounting size: 88 × 188 × 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.



