



User Manual

DNAKE E416

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. Android 10 System
- 2. Powered by PoE or power adapter (DC12V/2A)
- 3. Support SIP 2.0 protocol, easy integration with other SIP devices
- 4. Compatible with 3rd party application
- 5. Support monitoring 16 IP cameras

TECHNICAL PARAMETER

System: Android 10 RAM: 1 GB ROM: 8 GB Front Panel: Plastic Power Supply: PoE (802.3af) or DC 12V/2A Standby Power: 3 W Rated Power: 10 W Wi-Fi: IEEE802.11 b/g/n,@2.4GHz (Optional) TF Card Slot: 1 Ethernet Port: 1 x RJ45, 10/100 Mbps adaptive Resolution: 1024 x 600 Working Temperature: -10°C to +55°C Storage Temperature: -40°C to +70°C Working Humidity: 10% to 90% (non-condensing)

PACKAGE CONTENT

MODEL: E416



OVERVIEW



E416 Overview



BASIC OPERATION

1. Call

Go to Call > Dial and enter Building number + Building + Riser number + Riser + Room number + dial icon to call Indoor Monitor (such as 1 + Building + 1 + Riser + 1111 + Dial button).



2. Monitor

Click Monitor icon on Indoor Monitor's homepage to monitor Door Station. You can unlock by clicking door icon or switch to monitor other devices by clicking left and right arrows or the name above.



3. Message

Indoor Monitor can only receive the message sent by the CMS or Master Station. Up to 64 records can be received in SMS.



4. DND

Click DND icon to enable do not disturb function. No calls can call in.



5. Quad Splitter

On the 2nd homepage, click Quad Splitter. Click any screen of IPC to make it full screen. Click left or right arrow to check other pages. Up to 16 IPC can be added.



6. Phonebook

Slide from left to right near the left edge of the screen to wake up phonebook page.



Or go to Call > Phonebook. Select the name on the phonebook and press dial button to call.



7. QR Code

Click QR Code and scan by Smart Life app to add this Indoor Monitor to your phone. Only when the license is filled in Internet-connected Indoor Monitor, QR code will be available.



8. Security

Security is for sensors. The default password is 1234.



8.1. ON/OFF



ON:	Click Out, Home, or Sleep icon to activate the
	scene for alarm sensors, the icon on the main
	interface will light up with a beep sound;
OFF:	Click OFF to disable scene;
	Within Activation Time, click the OFF icon and
	enter password to terminate the alarm sending to
	Master Station (the default password is 1234);

8.2. Zone



Туре:	Normal: Only when the security is on and sensor
	is triggered, alarm will be sent to Indoor Monitor.
	After activation time, Master Station will also
	receive the alarm; (PIR, Door, Window)

	Emergency: once Panic button is triggered, only Master Station will receive alarms secretly; 24 hours standby even if the security is off; (Panic, Pull Cord) 24H: 24 hours standby even if the security is off (Smoke, Gas, Flood);
Mode:	3C: for the sensor with 2.2KΩ resistance; Regardless of the connection to NC or NO, the alarm can be triggered normally; NO: normally open; NC: normally closed; BELL: in BELL mode, Master Station will not receive any alarm. Indoor Monitor is regarded as a doorbell receiver;
Delay:	The delayed time for alarm sending to Indoor Monitor (0s, 5s, 15s, 20s, 25s, 40s, 60s);
Sensor:	Sensor types (Smoke, Gas, PIR, Door, Window, Panic, Flood, Pull Cord);

8.3. Scene



Activation Time:	NONE, 30s, 40s, 60s, 100s, and 300s;
Mode:	Tick to link sensors to Out, Home, or Sleep
	scene;

8.4. Settings



Old:	Current security password of the Device (Default 123456);
New:	New security password of the Device;
Confirm:	Confirm security password of the Device;

9. Concierge

Press the Concierge icon to call Master Station.



10. Elevator

Press the Elevator icon to call control elevator (DNAKE Elevator Control Module is needed).



11. Add More Indoor Monitors

Keep Building, Riser, Apartment No., Sync the same as other Indoor Monitors, and Device number should be different. The Device number can be from 0 to 9. But you must have one Indoor Monitor's Device number is 0 and keep it online because 0 here stands for the main one.



DEVICE SETTING

Connect Indoor Monitor and other devices to a network switch in the same LAN. Go to Settings to configure the device.



1. Display



Brightness level:	Screen brightness adjustment;
Sleep:	Screen sleep time (15s, 30s, 1min, 2mins,
	5mins, 20mins, 30mins);

2. Sounds



Auto Answer:	Pick up automatically when receiving a call;
Ring Vol:	Volume of System can be set from 1 to 6;

Intercom Vol:	Volume of Intercom can be set from 1 to 6;
Button:	The keytone;
Ringtone:	The ringing sound;

3. Date & Time

Display	Automatic date & time	
Sounds	Date	N22/22
Date & Time	Tere and	Sector and
Language	Time Zone	GMT+08:00, China Standard Time
Devices	12H/24H	13:00
Maning	NIP	Automatic

Automatic date time:	Enable to synchronize computer time;
Time Zone:	A region that observes a uniform standard time;
12H/24H:	The format of time;
NTP:	Network Time Protocol (NTP) is a protocol used
	to synchronize computer time;

4. Language

5 Settings	and in state of the
Display	English
	Nederlands(Netherland)
Sounds	Deutach(Deutschland)
Date & Time	עברית
Language	Türkçe
	Français(France)
Devices	Русский
Version	Español(España)
	Polski
More	TIXon Mile

Language:	16 languages supported (简体中文, English, 繁體
	中文, עָבְרִית, Deutsch, Español, Türk, Tiếng Việt,
	Nederlands, Português, Polski, Русский, عربي,
	Français, Italiano, slovenský);

5. Devices

You need to click search icon to add Door Stations to Indoor Monitor and click tick to save before monitoring. Click funnel icon to pin the selected device to the top. Click pen icon to edit devices.



6. Version

5 Settings		
Display	Firmware	907M 0.1.2.2.A. 20220520
Sounds	P	192.168.0.111
Date & Time	WEIP	0000
Language	MAC	bc/R110ec5ed
Devices		
Version		
More		2

Firmware:	Firmware version of the device;
IP:	Current IP address of the device;
Wi-Fi IP:	Current Wi-Fi IP address of the device;
MAC:	MAC address of the device;

7. More > Ethernet

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.



DHCP:	Enable DHCP (Dynamic Host Configuration
	Protocol) to dynamically distributing network
	configuration parameters;
IP:	Configure Static IP address to manually
	distributing 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;
Current IP:	Current IP address of the device;

8. More > Wi-Fi



Wi-Fi: Enable to connect to Wi-Fi;

9. More > Room

5 Settings		~
Ethernet	Building	1
WI-FI	Ree	
Room	Apartment No.	1111
SIP	Device	
Password	Sync	101111
Арре	CMS IP	192.168.2.102
Reset	Password	

Build:	Number of the building (Building range: 1-999);
Riser:	Number of the unit (Unit range: 1-99);
Apartment No.:	Number of the room;
Device:	Number of the device (Unit range: 1-9);
Sync:	A number used to synchronize to other Indoor
-	Monitors;
CMS IP:	Server address of CMS;

Password:	Password you set for this device's CMS
	registration;

10. More > SIP



SIP enable:	Enable to use SIP;
Proxy:	SIP Server Host of SIP; the default port is 5060;
Realm:	Realm of SIP; the default port is 5060;
Username:	Username of SIP;
Password:	Password of SIP;

11. More > Password

5 Settings		/
Ethernet	Ord	
W-R	New	
Room	Confirm	
SIP		
Password		
Арря		
Reset		

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

12. More > Apps



Apps: 3rd party apps can be managed here;

13. More > Reset



Reset: Reset to factory settings;

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.

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

1. Main

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

Main			
Notwork			Smart Home And Intercom Syster
Roomfie.			
Advanced	Framework	c 1.9.0 20220520	
Webkit	Voin	907M.1.1.2.8 GA 20220901	
Others	Security	1.0.5 20170412 (std)	
License	Smart	10420161102 (std)	
system	011101.0	there are the fordy	
rogoai	100		

Framework:	Framework of the device;
Voip:	Firmware version of the device;
SIP:	Status of SIP registration of the device;

2. Network

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

	Streaming	Media Solution	
Main	Network S	ttings	
Network		2011 C	
RoomNo.	DHCP:		
VOIP			
Advanced	IP:	192.168.68.90	
Webkit	Mask:	255.255.255.0	
Others	Gateway	192,168,68,1	
License	DNS	9 8 9 9	
system	0143.	0.0.0.0	
Logout	eth & wifi:	2	

DHCP:	Enable DHCP (Dynamic Host Configuration Protocol) to dynamically distribute network configuration parameters;
IP:	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;
Eth & wifi:	Enable to activate the network port and Wi-Fi of
	the device to work simultaneously.

3. RoomNo.

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 Indoor Monitors when more than one Indoor Monitor is in one building.

	Streaming	Media Solution	
Main	Room No.	Settings	
Network	- 22		
RoomNo.	Build:	1	
VOIP	Unit:	1	
Advanced	Room:	1111	
Webkit	Device:	0	
Others	Sume	378266	
License	Syrn.	570200	
system			
Logout	Server	192.168.12.40	
	Password:	123456	

Build:	Number of the building (Building range: 1-999);
Unit:	Number of the unit (Unit range: 1-99);
Room:	Number of the room;
Device:	Number of the device (Unit range: 1-9);
Sync:	A number used to synchronize to other Indoor
	Monitors;
Server:	Server address of CMS;
Password:	Password you set for this device's CMS
	registration;

4. VOIP

The SIP column concerns SIP registration, Proxy, Realm, Outbound, User,

Password, Timeout, Voice Multicast, etc.

	Streaming	n Media Solution
analas -	SIP Setting	1 5
Network	Terrer Mary	
RoomNo.	SIP enable;	U
VOIP		
Advanced	Proxy;	sip:192.168.12.40
Webkit	Realm:	192.168.12.40
Others	Outbound:	sip:
Ucense		and the second se
system	(Lease)	100
Logout	User:	100
	Password:	*****
	Timeout:	300s *
	Voice	
	Multicast	224.0.2.1:50001
	Land Land	

SIP enable:	Enable to use SIP;
Proxy:	SIP Server Host of SIP; the default port is 5060;
Realm:	Realm of SIP; the default port is 5060;
Outbound:	Outbound Proxy of SIP; the default port is 5060;
Username:	Username of SIP;
Password:	Password of SIP;
Timeout:	The call will be ended automatically after a
	period of time (120s, 300s, 600s, 1200s, 1800s);
Voice Multicast:	Used to broadcast;

5. Advanced

sīm	Advanced Setting	ß
twork omNo.	Ex Phone:	Disable 🗸
vanced	Auto Pickap:	0
ebkit	ONU Pass:	
hers	Deaf Mode:	
ense		
nout	Quick Call:	0
<u>girax</u>	URL:	sip:911@192.168.12.40
	RTSP Feed:	Disable 🗸
	Local Relay Delay:	15 ¥
	Local Relay Type:	Open Door 🖌
	Unlock Button 1:	Disable Y
	Name:	Lock 1
	Type:	Local Relay V
	Unlock Button 2:	Disable
	Name	Lock 2
	Type:	DTMF Y
		#
	Unlock Button 3	Dicable
	Name	Lock 3
	Type:	HTTP V
	2000	http://192.168.1.63/coi-bio/ext/control.col

Ex Phone:	Add other brand's IP Phone as SIP extension (4
	devices supported);
Auto Pickup:	Pick up automatically when receiving a call;
ONU Pass:	Enable to prevent ONU from banning multicast;

Quick Call & URL:	URL of the concierge button;
RSTP Feed:	The video source for Indoor Monitor when call
	another Indoor Monitor.
Local Relay Delay:	The length of unlock delay time (1-9s);
Local Relay Type:	Type of local relay (Open Door is for lock/Chime Bell is for doorbell):
Liplook Puttop 1 2:	Enable or disable releve for unlock buttons:
UTIOCK BULLOIT 1-3.	Ellable of disable relays for unlock bullons,
Name:	Customize name for unlock button;
Type:	Type 1-3: 3 types of unlock way are optional
51	(Local Relav/DTMF/HTTP)
	HTTP—the format is http://192.168.1.63/cgi-
	bin/ext/control.cgi?op=unlock;
	IP here is an example of Door Station's IP:
	DTMF——Dual-tone multi-frequency signaling,
	Relay1: #, Relay2:0, relay3: *;
Install Third-party App:	Install 3rd-party apps on Indoor Monitor. Click
	Choose File to select apk file and install.

6. Webkit

The webkit column is designed for advertising.

tain	Webkit Setti	ngs	
Network	1.4		
RoomNo.	Advertising:		
/01P	Url:	http://192.168.12.40/ad.html	
Advanced			
Vebkit	Browser	about:home	
Others	Mall:	about:home	
Icense	GOV:	about: home	
ystem	Cook	about home	
agout	MAP:	about:home	

Advertising:	Enable to display advertisements when Indoor Monitor is in the screensaver;
Url:	The URL of advertisement;

7. Others

The others column is designed for rebooting the device.

Main Network RoomNo.	
RoomNo.	
OIP	Click button to reboot the system!
Advanced	Reboot
Webkit	Reader and Annual A
Others	
license	
system	
logout	

Reboot: Reboot the device;

8. License

The license column will be hidden in the near future.

Streamin	g Media Solution			
License Settings				
-				
SN:	1C000141D0652888			
Status:	LICENSE			
LICENSE:				
		1		
[C.L.W]				
Submit				
	Streamin Licease Set SN: Statua: LICENSE: Submit	Streaming Media Solution License Settings SN: 1C000141D0652888 Status: LICENSE LICENSE:	Streaming Media Solution License Settings SN: IC000141D0652888 Statax: LICENSE LICENSE:	

9. System

The system column is designed for packet capture and logs capture.

	Streaming Media Solution
Main	
Network	Tepdump
RoomNo.	
VOIP	start export
Advanced	
Webkit	
Others	Leave the second s
License	Logcat
system	
Logout	start export

Tcpdump:	Capturing packets can help developers reproduce positioning problems;
Logcat:	Device logs;

10. Logout

The logout column is designed for logout.

	Streaming Media Solution
Main	User Logout
Network	
RoomNo.	Please click [Submit] to logout user
VOIP	
Advanced	Submit
Webkit	
Others	
License	
system	
Logout	

SYSTEM DIAGRAM



DEVICE WIRING



Network PoE Power/Relay Output/RS485(11PI									
	+12V	GND	/	NO	сом	NC			
	V+	GND	485+	485-	/	Ϊ			
Siren/Alarm(10PIN)									
11PIN 10PIN	V+	GND		AL1~	AL8				

Dual Port

1. Network (PoE)

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

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



2. Power

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



3. Relay Output



Relay Output

4. RS485

Single Port

Enable to connect equipment with RS485 interface. RS485 interface can output 12V/100mA power supply. If RS485 equipment to be connected doesn't require the power supply, there is no need to connect to +12V.



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. Siren/Alarm

Interface of alarm zones connects with normally-open or normally-closed switch.

When the alarm zone is triggered, it will output 12V/100mA power.



Normally-closed sensor

INSTALLATION

Surface Mounting-86 Mounting Box





bracket into the groove on the rear cover. 161m r 161 Align the edge of the silica gel pad with the lower edge of the casing, and paste the pad. 6 Unit:mm

Assemble the books on two sides of the



Product size: 195 × 130 × 14.5 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.



