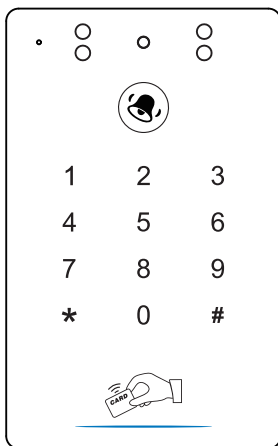


# Installation and Operation manual

NT-IP-DR2



## ■ Remark

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

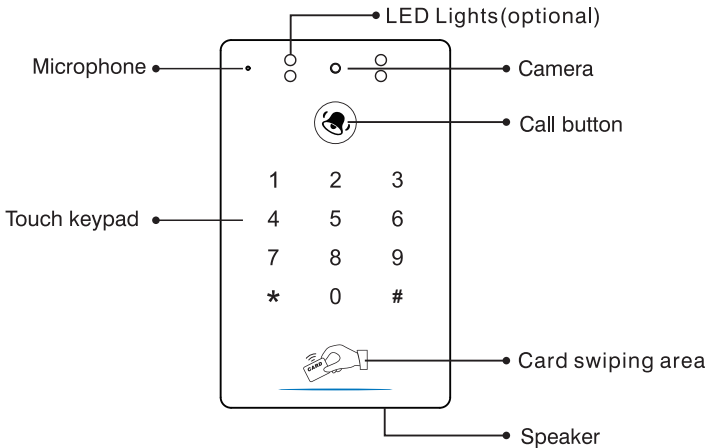
*Our company applies ourselves to reformation and innovation of our products. No extra notice for any change. The illustration shown here is only for reference. If there is any difference, please take the actual product as the standard.*

# CATALOG

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# Pictures

NT-IP-DR2



## Basic Function

- 1.Support entering password in touch keypad; support video intercom with indoor monitor and management center
- 2.Optional IC/ID card reader, maximum 20,000 cards unlocking
- 3.Use password or Exit button to unlock the door and support door magnetic detection function
- 4.Support 4G or WiFi (optional)
- 5.Support bluetooth (special orders)

### Note:

- 1.Support night vision(optional).
- 2.It is recommended to install the product on the position with more than 40 lumens of light.
- 3.The type of device can be set by the WEB, including person panel, unit panel and wall panel (the default type is unit panel).

## Technology Parameters

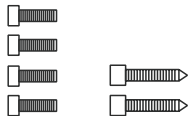
- 1. Working voltage:** DC12V
- 2. Rated power:** without 4G NIC/WiFi: 3W  
4G NIC/WiFi: 5W
- 3. Standby power:** without 4G NIC/WiFi: 1.5W  
4G NIC/WiFi: 2W
- 4. Camera:** 1280x720
- 5. Working temperature:**  $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$   
 $-10^{\circ}\text{C} \sim +70^{\circ}\text{C}$  (Heating membrane)
- 6. Humidity:** 20%~80%
- 7. CPU:** 1.2GHz
- 8. Memory:** 64MB
- 9. Flash:** 128GB

## Package Contents

Model: NT-IP-DR2



Expansion pipe



Screws

## Basic Operation

### Person Panel(Villa Outdoor panel)

When the device is set as person panel:

**Call Indoor Monitor:** press the key "☉" on outdoor panel to call indoor monitor

**Password unlocking:** enter the password on outdoor panel (the default password is "0000") and then press "#" key, then the door will be unlocked.

**Unlocking by card:** put the registered ID or IC card close to card swiping area on outdoor panel. If the card has been registered, the door will be unlocked after the card is swiped. Otherwise, it will emit a beep.

### Uni Panel/Wall Panel

When the device is set as unit panel or wall panel:

Call management center: enter the management center No. (default: "0000") and then press the key "#" on the panel.

**Note:** press the key "☉" to call management center directly. During the ringing, press the key "\*" to cancel the call.

**Unit panel calls indoor monitor:** Enter floor No. + room No.. For example, if floor No. is 13 and room No. is 12, you can enter "1312" and then press the key "#" on unit panel to call indoor monitor.

**Wall panel calls indoor monitor:** enter building No. + "#" + unit No. + "#" + floor number + room number + "#". For example, if building No. is 0001, unit No. is 01, floor No. is 13 and room No. is 12, you can input "1 + # + 1 + # + 1312" and then press the key "#" to call.

**Unlocking by password:** Press the key "#", enter the password (Default one is 0000), and press the key "#" again on unit panel/wall panel. Then the door will be unlocked.

**Note:** please refer to "4 Access Settings" to change the password.

**Unlocking by card:** put the registered ID or IC card close to card swiping area on outdoor panel. If the card has been registered, the door will be unlocked after the card is swiped. Otherwise, it will emit a beep.

# Web Settings

Connect outdoor panel and PC in the network switch and make them in the same LAN. Input IP address of outdoor panel in the web browser of PC, The default IP address is 192.168.68.90, then input the user name and password (the default name is admin, the password is 123456) to enter into the following interface:



## 1. Network setting:

Click "Network" icon on the interface to enter into the following interface:



**IP:** IP address should be unique in the same Network.

**Mask:** the default Mask is 255.255.255.0.

**Gateway:** it depends on IP address.

**DNS:** it depends on Network.

**Server IP:** it is the same as the IP address of management PC.

Access password: it manages the software IP access password.

Usually, management center, indoor monitor and outdoor panel are in the same LAN for communication; if they are not in the same Network, you need to set SIP server to support the communication.

Click "Submit" icon to confirm settings.

## 2. WiFi Settings:

Click the icon "WiFi " on the left side of the page to enter the following interface:

Streaming Media Solution

WiFi Settings

Enable:

SSID: TP-LINK\_0305

Password: 123456789

DHCP:

IP: 192.168.1.27

Mask: 255.255.255.0

Gateway: 192.168.1.1

DNS: 8.8.8.8

Submit

**Enable WiFi:** check the box to enable WiFi (optional).

**SSID:** WiFi name for current port.

**Password:** WiFi password for current port.

**IP address:** IP address cannot be repeated for the same system on the same network segment.

**Subnet mask:** the original subnet mask is 255.255.255.0, which normally doesn't need to be changed.

**Default gateway:** IP address assigned by the segment of project site.

**DNS:** the IP address of the DNS server.

Once you've set it up, click the icon "Submit" to enable the settings.

## 3. Device setting:

Click "Device" icon on the interface to enter into the following interface:

Streaming Media Solution

Device Settings

DeviceID: 5

LanID: 5

No.: 5

Password: \*\*\*\*\*

Mode: LAN

Portrate: 256

Flowrate: 1.00

Language: English

Volume: 50

Video: 1280x720

Power: Smart

Format: Auto by end

Submit

The settings of Building and Unit No. should be the same as that of corresponding outdoor panel.

**No.:** It is unique number for the outdoor panel. You can have max.9 outdoor panels in one house, and you need to distinguish their numbers from 1 to 9.

**password:** you can change the login password as you like (the default password is 123456).

**Panel mode:** unit panel, wall panel or personal panel for selection.

- ① Unit panel: Used in one unit, it can call residents in the unit and management center;
- ② Wall panel: Used in the entrance of community, it can call all outdoor panels in the community and management center;
- ③ Person panel: It is reserved.

You can choose different ringtone and language, and can also adjust the ringing volume.

Click "Submit" icon to confirm settings.

#### 4. Access setting:

Click "Access" icon on the interface to enter into the following interface:

The screenshot shows a web interface for 'Access Settings'. On the left is a green sidebar menu with options: Home, Network, WIFI, Device, Access, VCIIP, Equipment, Administration, Others, and Logout. The main content area has a title 'Access Settings' and the following fields:

- Unlock Timeout: [00] [v]
- Unlock Delay: [00] [v]
- Elev. refer: [01]
- Address Card: [2011110]
- Security ON/OFF: [x]
- Unlock Password: A grid of 8 input fields (2 rows by 4 columns) for setting passwords.

A 'Submit' button is located at the bottom of the form.

Unlock Timeout is used for controlling the unlocking time ranging from 1 to 9 seconds.

Unlock Delay refers to the delayed opening time ranging from 0 to 9 seconds.

Elev refer is used for setting the floor of outdoor panel ranging from 01 to 99.

**Security ON/OFF:** arming/disarming by card is only effective for villa outdoor panel; unit panel only supports disarming by card.

**Unlock Passwd:** it's used for unlocking the door. The system default is 0000. Eight unlock passwords can be added.

## Card Registration:

The Admin Card is used for registering user card. There are two ways of registering the admin card:

1. The user enters card No. of the admin card in the box after “Admin Card” and then click the key “Submit”. In this case, the admin card is registered successfully.
2. If the user isn't aware of admin card No., please enter 0 in the box first and click the key “Submit”. Then place the admin card close to the swiping area. When the system gives an indication tone, it means that it is registered successfully.

Then register the user card. The user shall swipe the admin card first. The system emits a beep. Then place the card to be registered near the swiping area within 10 seconds. When the system gives an indication tone, it means that the user card is registered successfully. When registering the user card, the card to be registered shall be swiped 10 seconds after the admin card is swiped. Once a user card is registered, it will postpone for 10 seconds. When there is no activity for 10 seconds, the system will exit from registration status automatically. To register a new user card, the user shall swipe the admin card again.

## 5. VOIP:

Click “VOIP” icon on the interface to enter into the following interface:



The screenshot shows a web interface for 'SIP Settings'. On the left is a green navigation menu with the following items: Home, Network, WiFi, Device, Account, SIP, Infrared, Advanced, Others, and Logout. The main content area is titled 'SIP Settings' and contains the following fields:

- Host: [ ]
- Proxy: [sip:122.146.68.3]
- Domain: [002.99.98.]
- User: [000]
- Password: [\*\*\*\*\*]
- Display Name: [002]
- SIP URI: [sip:99.98.]
- STUN Host: [000]

At the bottom of the form is a 'Submit' button.

**Proxy:** URL of SIP proxy server in format: sip:ip or sip: domain name.

**Realm:** realm of the device, generally the same as IP or domain name.

**User name:** refers to the name of the sip proxy server provided by the sip proxy server administrator.

**Password:** refers to the password that is connected to the sip proxy server, provided by the sip proxy server administrator.

STUN IP and Port refer to the IP and port of public server for NAT traversal of audio and video.

Once this is set up, click the key “Submit” to enable new settings.

## 6. Forward (Call transfer):

Click “Forward” icon on the interface to enter into the following interface:



Room No. can be bound with phone number. When the visitor calls on the outdoor panel but there is no answer within 25 seconds, the system will forward the call to the phone. Please follow the detailed steps:

1. Enter the room No. and then enter the account phone number to be bound;
2. To delete this account, check the box;
3. Once this is set up, click the key “Submit” to enable new settings.

(Note: This item requires support of extension module or local SIP service provider).

## 7. Advanced

Click "Advanced" icon on the interface to enter into the following interface:



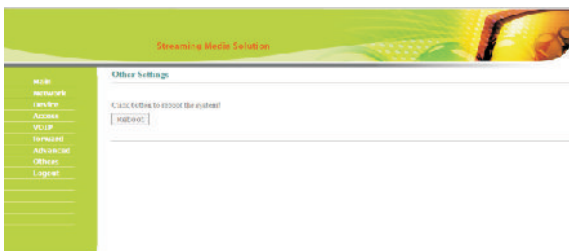
**Quick call:** Check the box to enable this function. It refers to the call to management center. Enter the SIP address of specified management center device in the box after URL. The device can be indoor monitor or SIP phone of other manufacturers.

In the box after the voice gateway, select the appropriate voice gateway, and the voice gateway setup is as follows:

1. Connect LAN port of voice module to the computer through the switch, set the computer's IP address to 192.168.2.\*, open IE browser, and enter http://192.168.2.1 and default password "admin" to the setup interface;
  2. According to the situation of used internet, assign appropriate IP address to WAN port of voice module (IP of WAN port cannot be on the same network segment as the one of LAN port. If WAN port is set to 192.168.2.\*, the gateway of LAN port will be adjusted automatically rather than 192.168.2.1). Enable the access permission of WAN port and click "Apply".
  3. FXO port settings: set the SIP user ID of the port, set DTMF mode to RFC2833 and click "Apply".
  4. IP address of WAN port for voice gateway is the one of URL for system development module of outdoor panel. The final port No. is default port of the system. The format of URL bar is: [SIP user ID of FXS port] @ [IP of WAN Port]: 5062.
  5. When you're done setting, click the "apply" icon, and the Settings take effect.  
Speed Dial: press a digital key to call directly.  
ONU pass: check out the ONU settings.  
4G Dongle: check the box to enable 4G Internet.  
RTSP Feed: check the box to bind media address of third-party video network management.
- Once you've set it up, click the icon "Submit" to enable the settings.

## 8. Other Settings

Click on the icon "Others" on the left side to enter the following interface:  
interface shown below:



Clicking the icon "Reboot" will restart the system.

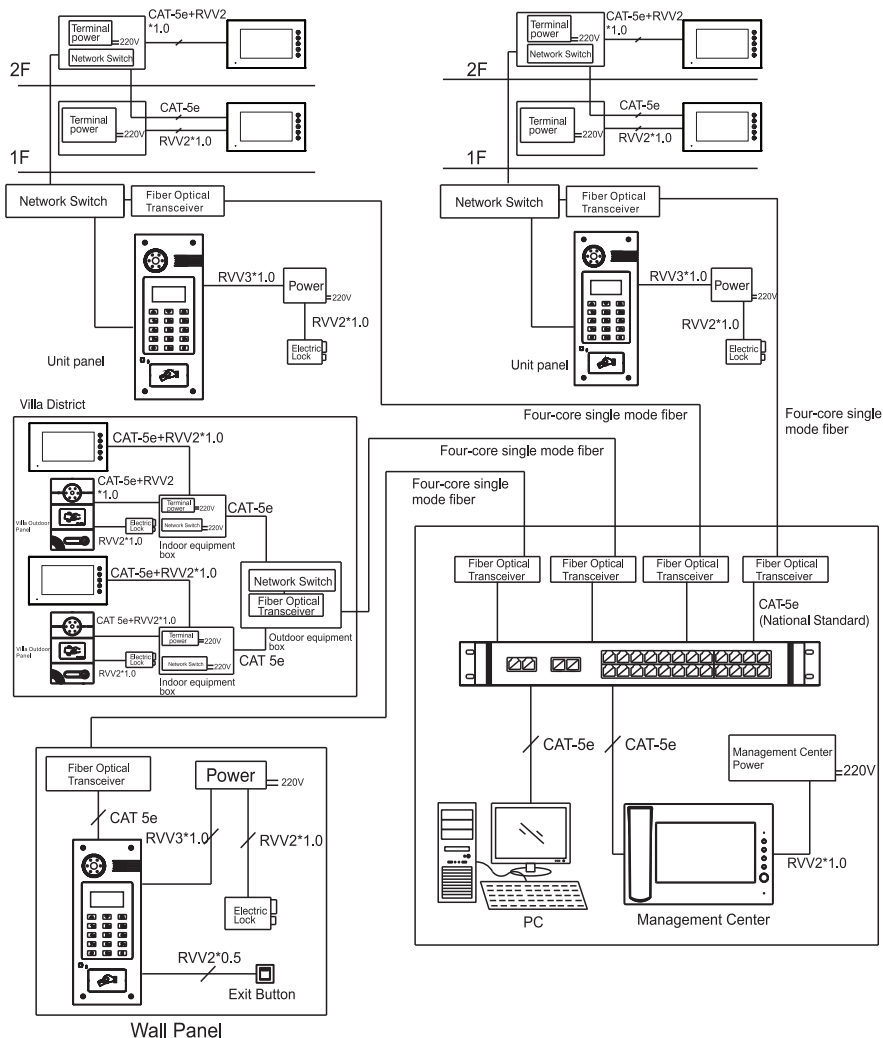
## 9. Logout

Click "Logout" icon on the interface to enter into the following interface:

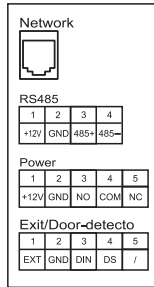


Click "Submit" icon to log out the system.

# System Configuration

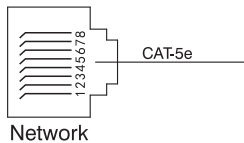


# System Diagram



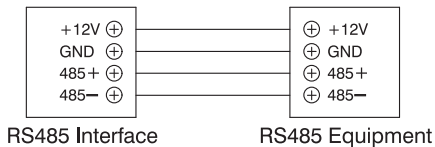
## 1. Network

Standard RJ45 interface connects with management unit, indoor monitor or other network equipment by network switch.



## 2. RS485

It can connect to equipment with RS485 interface. RS485 interface can output 12V/100mA power. +12V isn't required for wiring if it is unused.



### 3. Power/ Unlock Signal Output

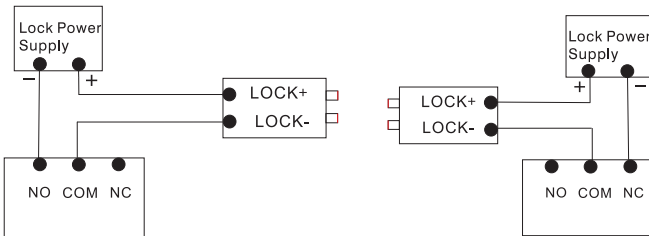
Connect power interface of outdoor panel to 12V DC power. Wiring diagram is as follows:



### 4. Switching Value Output

Switching value output interface is available. Independent power supply for the lock is required.

The electric lock can be connected in two ways including normally-open connection and normally-closed connection. Wiring diagram is as below:



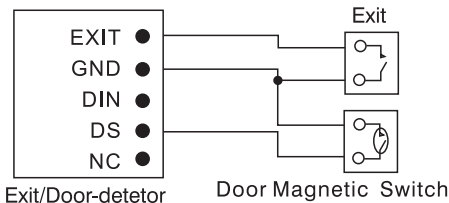
Switching Value Output :  
Normally open connection

Switching Value Output :  
Normally closed wiring

Note: the current in R3 relay should be less than 1A.

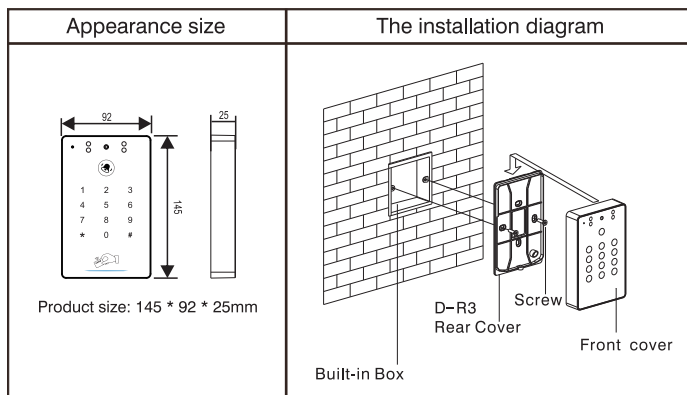
### 5. Exit/ Door-detector

Connect with exit /door-detector.

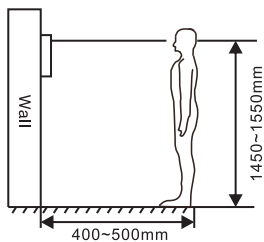


# Installation

Model:R3



Installation considerations:



**【suggestion】** During the installation, the display screen should be 1450~1550mm from the ground.

# Notes

## Maintenance of devices

- 1.Keep the surface clean and use soft dry cloth to clean the dust of the product.
- 2.Please power off indoor unit during cleaning.
- 3.If there is stubborn stains which cannot be cleaned with dry cloth, please use the soft towel dipped in the neutral diluted detergent to clean the machine and then wipe it with dry cloth.
- 4.Do not use benzene, thinner or organic solvents such as gasoline to clean. These solvents may cause damage to the machine casing or the surface of machine and change colors.

## Matters need to be noticed

- 1.Read the instructions in this manual carefully. Be sure to keep it for future reference.
- 2.Be sure to use only the power adapter whose power source matches the rating listed for it. If you are not sure, check with your dealer or with your local power company.
- 3.Avoid strong hits or shocks. Do not use the power adapter if it has received any hard knocks or looks damaged in any way; Please immediately contact an authorised service center.
- 4.The product should be placed where is stable, ventilated, air-dry, non-sunshine, non strong magnetic and non dusty.
- 5.Don't clean the surface with chemicals but with soft and clean dry cloth.
- 6.Don't press several buttons at the same time.
- 7.The outdoor and indoor unit must be matched with appointed specified models and cannot match with others that are not our products.
- 8.Don't disassemble the machine without authorization. For the need of fault repairing, please contact the distributors or the company's tech-supporting department.



