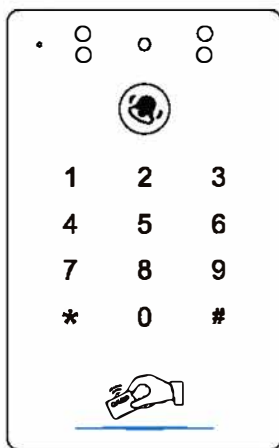


Installation and Operation manual

For TCP/IP With 280 System



280AC-R3

■ 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.

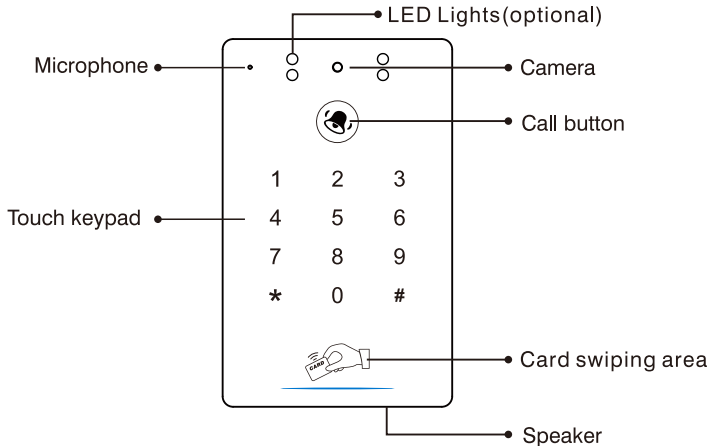
The product and batteries must be handled separately from household waste. When the product reaches the end of service life and needs to be discarded, please contact the local administrative department and put it in the designated collection points in order to avoid the damage to the environment and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

CATALOG

Pictures.....	1
Basic Function	1
Technical Parameters.....	2
Package Contents	2
Basic Operation	3
Web Settings	4
System Configuration	11
System Diagram	12
Installation	14
Notes.....	15

Pictures

Model:R3



Basic Function

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

Note:

- 1.It supports 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 on the WEB interface, including person panel, unit panel and wall panel (the default type is unit panel).

Technical Parameters

1. Working voltage: DC12V
2. Rated power: 3W
3. Standby power: 1.5W
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%~93%
7. CPU: 1GHz

Package Contents

Model: 280AC -R3



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.

Unit 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. When it's 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 by 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:

Streaming Media Solution	
Smart Home And Intercom System	
FW:	1.5.4 20170221
UE:	1.0.0 20170405
SIP:	ERR
wlan:	192.168.1.77

1. Network setting:

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

Streaming Media Solution	
Network Settings	
DISCP:	Refresh
IP:	192.168.68.77
Mask:	255.255.255.0
Gateway:	192.168.68.1
DNS:	8.8.8.8
Server IP:	192.168.68.1
Password:	*****
Submit	

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 PC with management software.

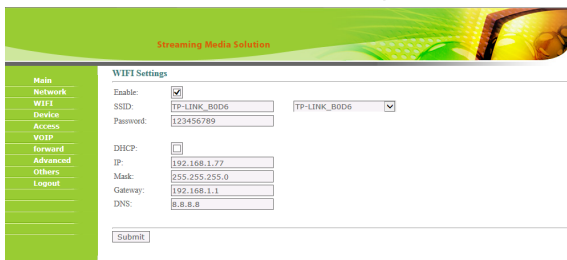
Access password: access password of management software.

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:



The screenshot shows the 'WiFi Settings' page. On the left is a navigation menu with options: Main, Network, WiFi (selected), Device, Access, VoIP, Forward, Advanced, Others, and Logout. The main content area is titled 'WiFi Settings' and contains the following fields:

- Enable:** A checkbox that is checked.
- SSID:** Two text boxes. The first contains 'TP-LINK_8006' and the second contains a dropdown menu with 'TP-LINK_8006' selected.
- Password:** A text box containing '123456789'.
- DHCP:** A checkbox that is unchecked.
- IP:** A text box containing '192.168.1.77'.
- Mask:** A text box containing '255.255.255.0'.
- Gateway:** A text box containing '192.168.1.1'.
- DNS:** A text box containing '8.8.8.8'.

At the bottom of the settings area is a 'Submit' button.

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.

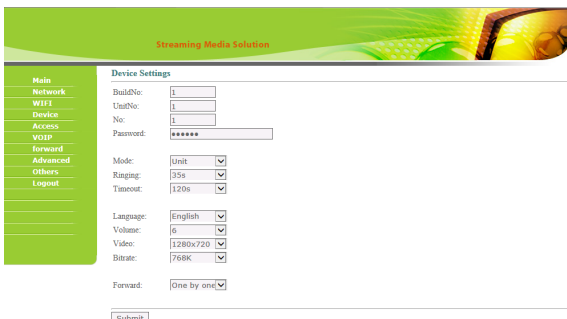
Default gateway: IP address assigned by the segment of project site.

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:



The screenshot shows the 'Device Settings' page. On the left is a navigation menu with options: Main, Network, WiFi, Device (selected), Access, VoIP, Forward, Advanced, Others, and Logout. The main content area is titled 'Device Settings' and contains the following fields:

- BuildNo:** A text box containing '1'.
- UnitNo:** A text box containing '1'.
- No:** A text box containing '1'.
- Password:** A text box containing '*****'.
- Mode:** A dropdown menu with 'Unit' selected.
- Ringin:** A dropdown menu with '35s' selected.
- Timeout:** A dropdown menu with '120s' selected.
- Language:** A dropdown menu with 'English' selected.
- Volume:** A dropdown menu with '6' selected.
- Video:** A dropdown menu with '1280x720' selected.
- Bitrate:** A dropdown menu with '768K' selected.
- Forward:** A dropdown menu with 'One by one' selected.

At the bottom of the settings area is a 'Submit' button.

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.

①Unit panel: Used in one unit, it can call residents in the unit and management center;

②Wall panel: Used in the entrance of community, it can call all outdoor panels in the community and management center;

③Person 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:

Streaming Media Solution

Access Settings

Unlock Timeout: 3s

Unlock Delay: 0s

Elev refer: 12

Admin Card: 9831198

Security ON/OFF: ☐

Unlock Password: 0000

Submit

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 displays the 'Streaming Media Solution' web interface. On the left is a green sidebar menu with options: Main, Network, WiFi, Device, Access, VOIP, forward, Advanced, Others, and Logout. The 'VOIP' option is selected. The main content area is titled 'SIP Settings' and contains the following fields:

- Enable: ☐
- Proxy:
- Realm:
- User:
- Password:
- H.264:
- STUN IP:
- STUN Port:

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

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.

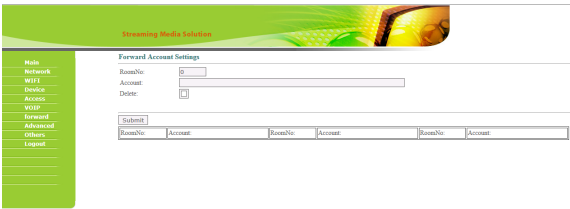
Password: refers to the password that is connected to the sip proxy server, provided by the sip proxy server administrator.

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:

Streaming Media Solution

Advanced Settings

Quick Call: ☐

Url:

Voice GW: ☐

Url:

Speed Dial: ☐

ONU Pass: ☐

4G Dongle: ☐

RTSP Feed: ☒ Dial

Submit

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 in 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 expansion 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. Once the setup is complete, 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.

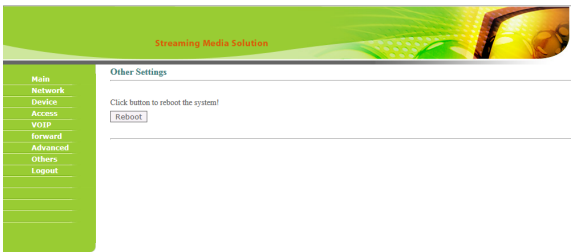
4G Dongle: check the box to enable 4G Internet.

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

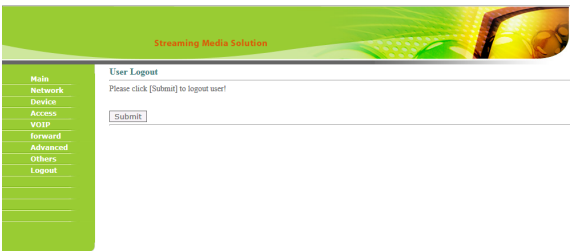
Click on the icon "Others" on the left side to enter the following interface:



Clicking the icon "Reboot" will restart the system.

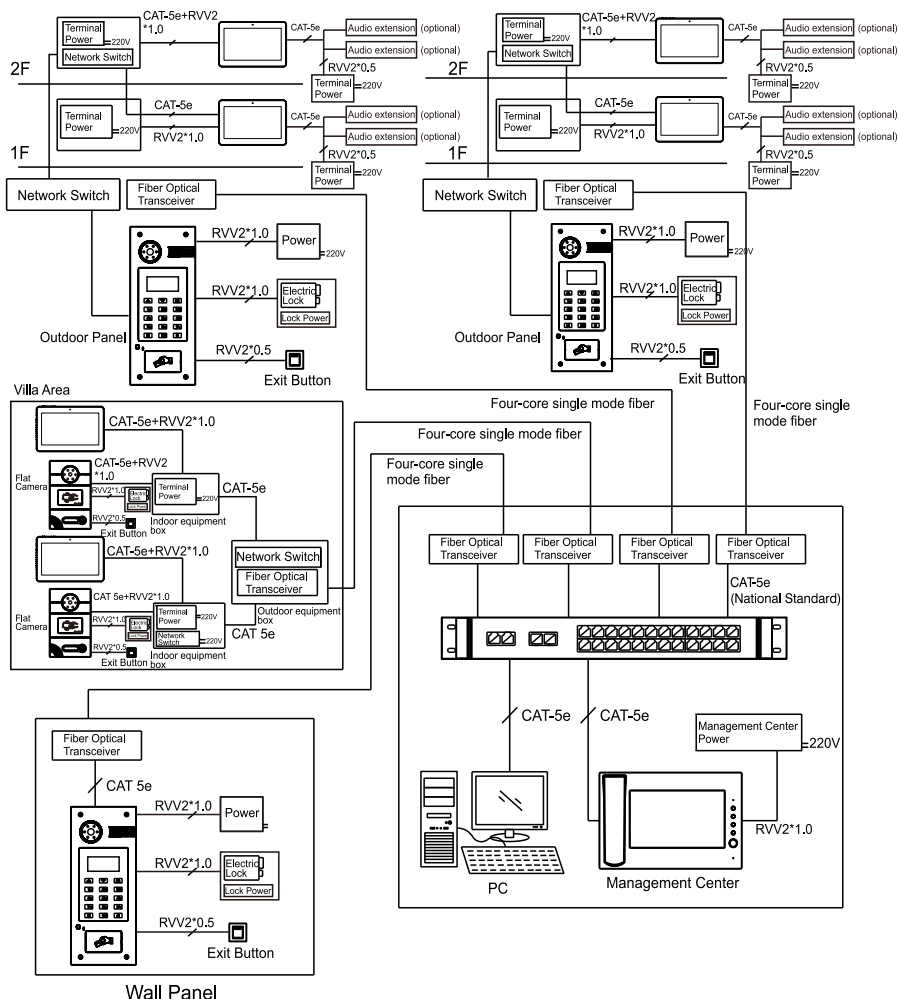
9. Logout

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

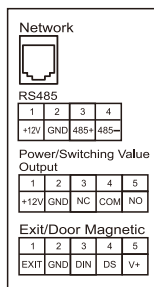


Click "Submit" icon to log out the system.

System Configuration

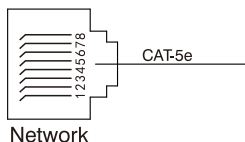


System Diagram



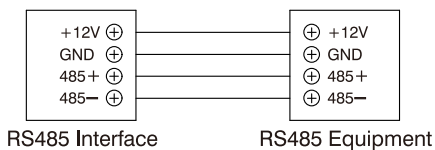
1. Network

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



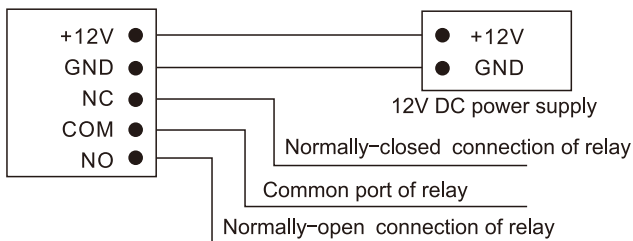
2.RS485

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.



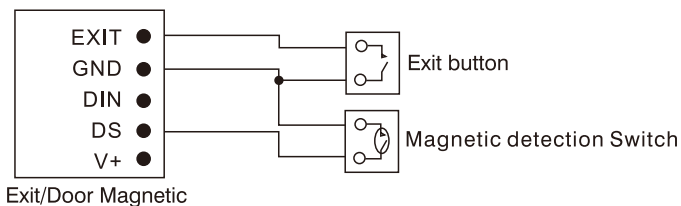
3. Power/Switching Value Output

Connect power interface of outdoor panel to 12V DC power. Switching value output connects with electric lock. Independent power supply is required for the lock.



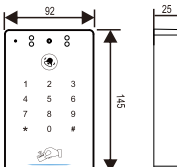
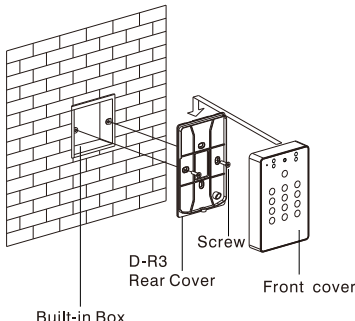
4. Exit/ Door Magnetic

Connect with Exit button and door magnetic switch; DIN and V+ are reserved terminals, please don't connect them.

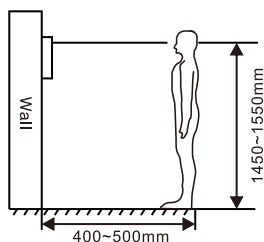


Installation

Model:R3

Appearance size	Installation diagram
 Product size: 145 * 92 * 25mm	 Built-in Box D-R3 Rear Cover Screw Front cover

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 oft 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.

FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the

FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.