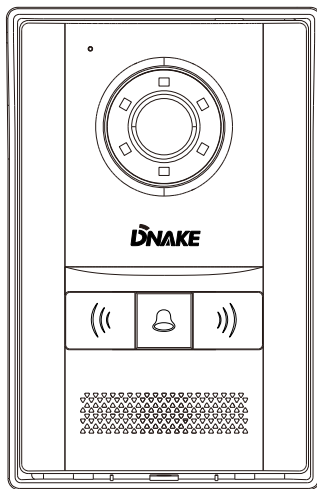# DNAKE

DOOR STATION

MODEL:

280SD-C12
280SD-R2
280SD-R5
280SD-R5-A

QUICK START GUIDE

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

For specific operation instructions, please scan the following QR code to obtain the full version of the User Manual.

PACKAGE CONTENTS

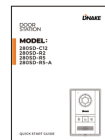**Please make sure the package contains the following items：**

MODEL: 280SD-R2

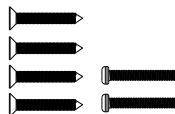| Door Station	Expansion tube	Screw	Screw Wrench	Quick Start Guide

MODEL: 280SD-R5

Door Station	Expansion Tube	Screw	Quick Start Guide

MODEL: 280SD-R5-A
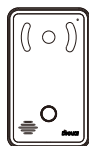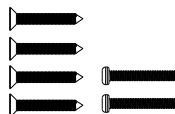
Door Station	Expansion Tube	Screw	Quick Start Guide

MODEL: 280SD-C12(Surface Mounting)
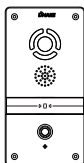
Door Station	Screw	Quick Start Guide

MODEL: 280SD-C12(Flush Mounting)

Door Station	Screw	Screw Wrench	Quick Start Guide

PICTURES

MODEL: 280SD-R2

Microphone

LED light

Camera

Card reader area

Call button

Speaker

MODEL: 280SD-R5

Microphone
LED light
Camera
Card reader area
Call button
Speaker

MODEL: 280SD-R5-A

Microphone
LED light
Camera
Call button
Speaker

MODEL: 280SD-C12

LED light •

Speaker•

• Camera

• Card reader area

• Call button

Microphone •
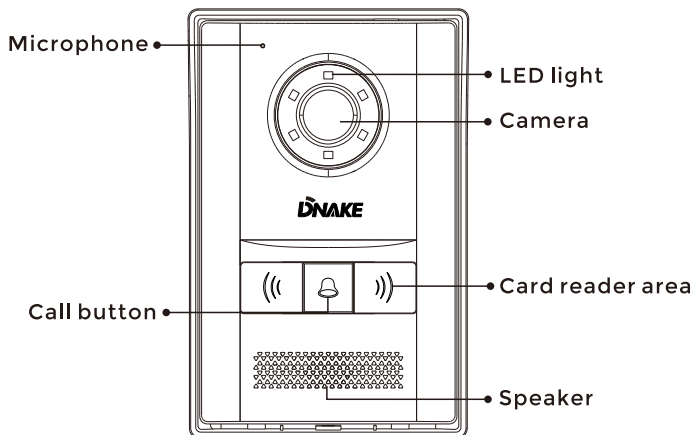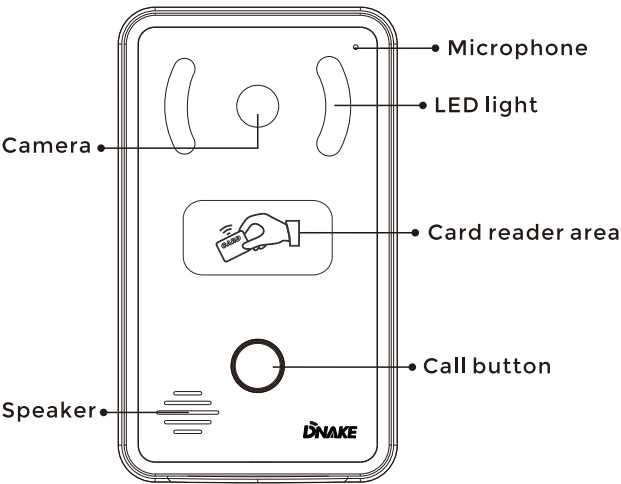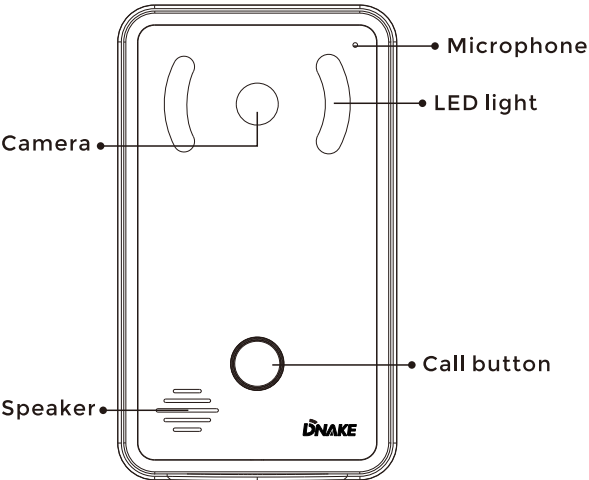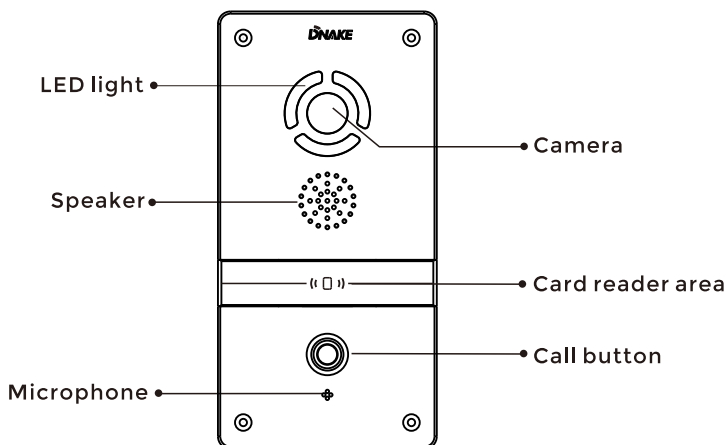
BASIC OPERATION

1. Call indoor monitor

In standby mode, press the call button on door station to call indoor monitor. During the call, press the call button on door station again to end the call. If the call fails or indoor monitor is busy, door station will emit a beep.

2. Unlocking by card

Put the registered IC card on card reader area of the door station. If IC card has been authorized, after unlocking the door by card, the system will issue a voice message that "the door has been opened", otherwise it will emit a beep.

SYSTEM CONFIGURATION

2F

1F

Terminal Power =220V
Network Switch
CAT-5e+RVV2 *1.0
CAT-5e
Audio extension (optional)
Audio extension (optional)
RVV2*0.5
Terminal Power =220V

Terminal Power =220V
CAT-5e
RVV2*1.0
CAT-5e
Audio extension (optional)
Audio extension (optional)
RVV2*0.5
Terminal Power =220V

Network Switch
Fiber Optical Transceiver

RVV2*1.0
Power =220V

RVV2*1.0
Electric Lock
Lock Power

Door Station

RVV2*0.5
Exit Button

2F

1F

Terminal Power =220V
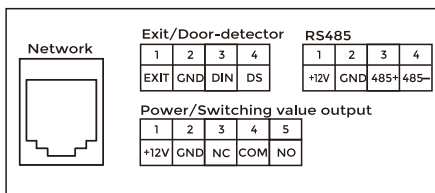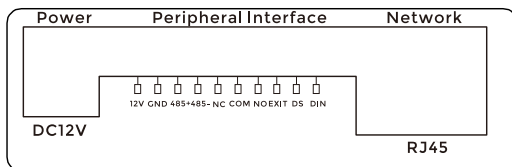Network Switch
CAT-5e+RVV2 *1.0
CAT-5e
Audio extension (optional)
Audio extension (optional)
RVV2*0.5
Terminal Power =220V

Terminal Power =220V
CAT-5e
RVV2*1.0
CAT-5e
Audio extension (optional)
Audio extension (optional)
RVV2*0.5
Terminal Power =220V

Network Switch
Fiber Optical Transceiver

RVV2*1.0
Power =220V

RVV2*1.0
Electric Lock
Lock Power

Door Station

RVV2*0.5
Exit Button

Villa Area

CAT-5e+RVV2*1.0
Flat Camera
CAT-5e+RVV2 *1.0
RVV2*1.0
RVV2*0.5
Exit Button
Terminal Power =220V
Indoor equipment box
CAT-5e
CAT-5e+RVV2*1.0
Network Switch
Fiber Optical Transceiver
CAT 5e+RVV2*1.0
Flat Camera
RVV2*1.0
RVV2*0.5
Exit Button
Terminal Power =220V
Network Switch =220V
Outdoor equipment box
CAT 5e
Indoor equipment box

Four-core single mode fiber
Four-core single mode fiber
Four-core single mode fiber
Four-core single mode fiber

Fiber Optical Transceiver
Fiber Optical Transceiver
Fiber Optical Transceiver
Fiber Optical Transceiver

CAT-5e (National Standard)

CAT-5e   CAT-5e

Fiber Optical Transceiver

CAT 5e

RVV2*1.0
Power

RVV2*1.0
Electric Lock
Lock Power

RVV2*0.5
Exit Button

Wall Door Station

CAT-5e   CAT-5e

Master Station Power =220V

RVV2*1.0

PC

Master Station

SYSTEM DIAGRAM

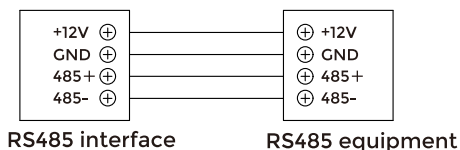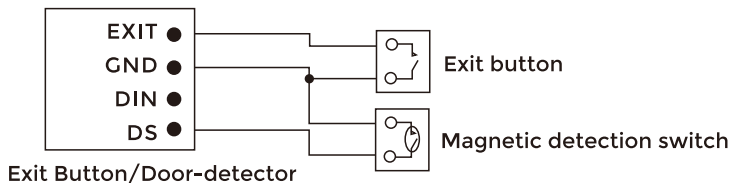### 280SD-R2/280SD-R5/280SD-R5-A

280SD-C12

1. RS485

It can connect to the equipment with RS485 interface.

RS485 interface can output 12V/100mA power. Connection of +12V isn't require if it is unused.
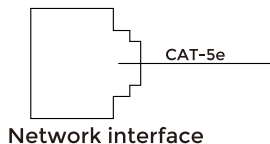

RS485 interface   RS485 equipment

2. Exit/Door-detector

Connect with Exit button and door-detector switch; DIN is reserved terminal, please don't connect it.

```
  EXIT ●
  GND  ●          ⌐○—○⌐      Exit button
  DIN  ●
  DS   ●          ⌐○—⊘⌐      Magnetic detection switch
```
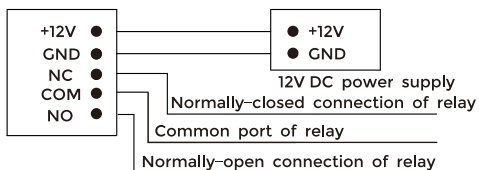
Exit Button/Door-detector

3. Network

Connect to management center, indoor monitor or other network device through.

```
   [====]
        ——— CAT-5e ———
```
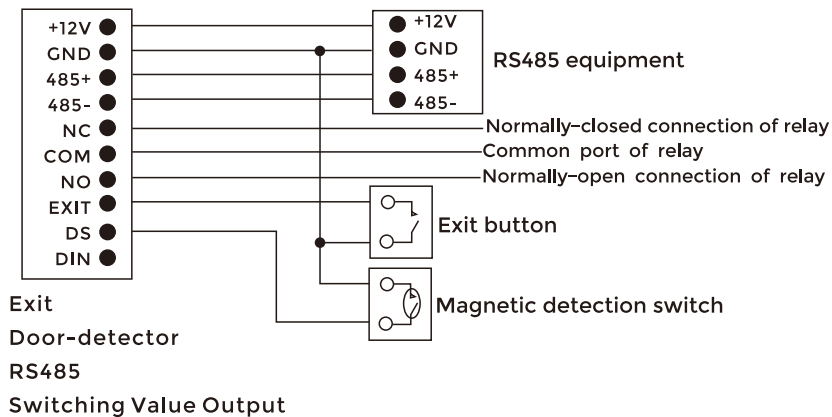
Network interface

4. Power/Switching value output

Connect power interface of door station to 12V DC power. Switching value output connects with electric lock. Independent power supply is required for the lock.
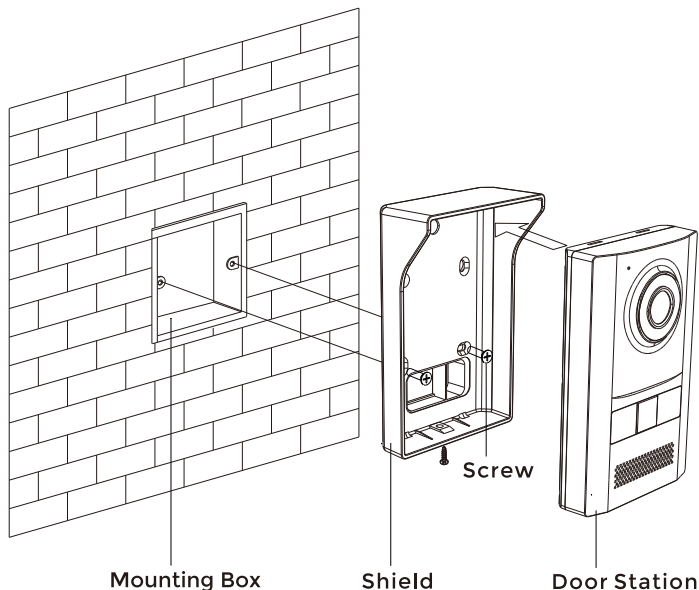
```
  +12V ●                    ● +12V
  GND  ●                    ● GND
  NC   ●
  COM  ●                  12V DC  power  supply
  NO   ●          Normally–closed  connection of  relay

                  Common  port  of  relay

                  Normally–open  connection  of  relay
```

5. RS485/Switching Value Output/Exit/Door-detector

+12V
GND
485+
485-
NC
COM
NO
EXIT
DS
DIN

+12V
GND
485+
485-

RS485 equipment

Normally–closed connection of relay
Common port of relay
Normally–open connection of relay

Exit button

Magnetic detection switch

Exit

Door-detector

RS485

Switching Value Output

INSTALLATION

MODEL: 280SD-R2

Screw

Mounting Box   Shield   Door Station

Product size: 170.5x111x38.6mm

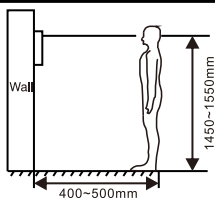## Installation Instructions：

Wall

1450~1550mm

400~500mm

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

MODEL: 280SD-R5/280SD-R5-A

Mounting Box

Rear Cover   **M4 screw**

Front Cover Combination

Product size: 153x90x24mm

Installation Instructions:

Wall

1450~1550mm

400~500mm

[Suggestion]: The camera should be 1450~
1550mm above the ground. The camera at this
height can capture human face perfectly.
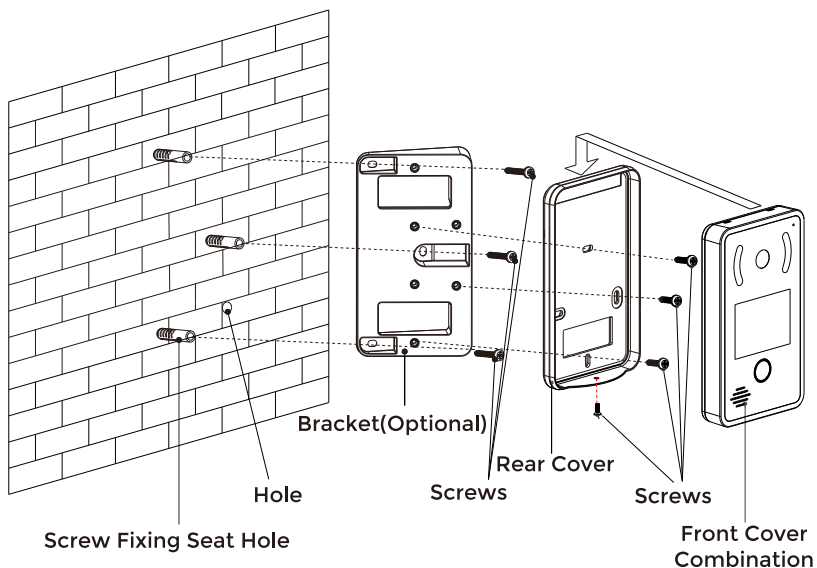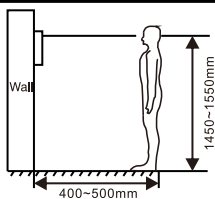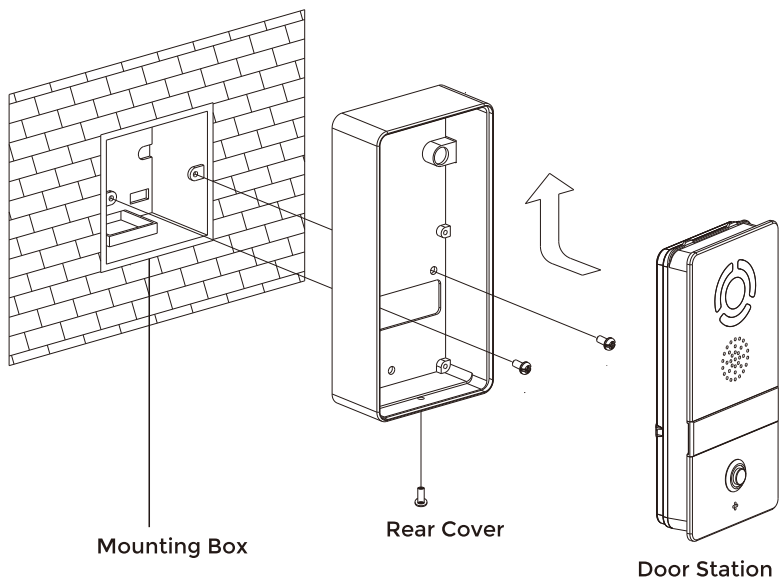
MODEL: 280SD-R5/280SD-R5-A

Bracket(Optional)

Hole

Screw Fixing Seat Hole

Rear Cover

Screws

Screws

Front Cover Combination

Product size: 153x90x24mm

Installation Instructions:

Wall

1450~1550mm

400~500mm

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

MODEL: 280SD-C12(Surface Mounting)

Mounting Box

Rear Cover

Door Station

Product size: 170x84.5x31mm
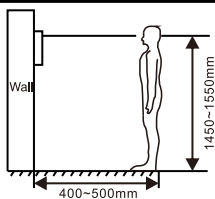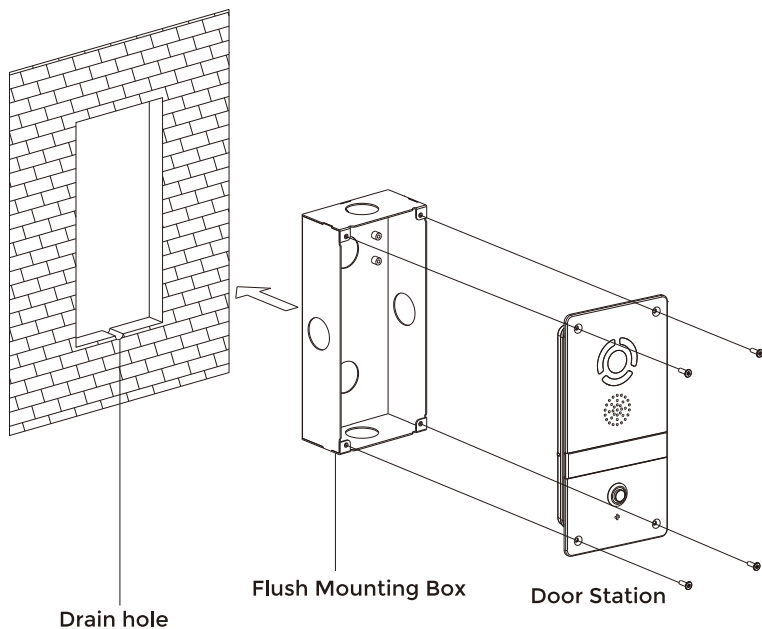
Installation Instructions:

Wall

1450~1550mm

400~500mm

[Suggestion]:The camera should be 1450~1550mm above the ground. The camera at this height can capture human face perfectly.
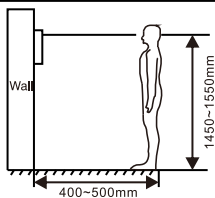
MODEL: 280SD-C12(Flush Mounting)

Flush Mounting Box   **Door Station**

Drain hole

Product size: 190x95x27mm
Flush mounting box size:180X85X45mm
Trepanning size：185x90x52mm

Installation Instructions：

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

SAFETY INSTRUCTIONS

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.

EASY & SMART
INTERCOM SOLUTIONS

DNAKE