

# Fast operation of Analogue Villa System

V 1.0

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# 1 System Structure

Power for VTO is DC24V/2.5A

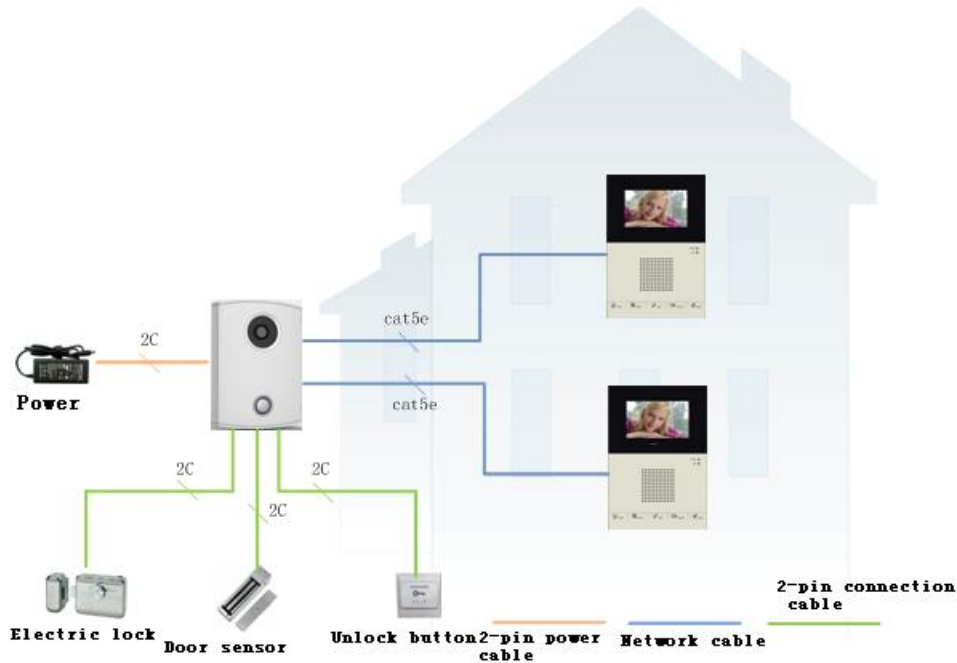


Figure 1-1

# 2 Operation Steps

Wait until system connection is complete. Plug VTO to power and wait about 1 second. VTH's power indicator turns on, and press monitor button on VTH. You will see scene in front of VTO and this means test is complete. If there are more than one VTH, please test them one by one.

# 3 Install lock and unlock button

## 3.1 VTO5x00C

Definition of VTO5x00C ports:

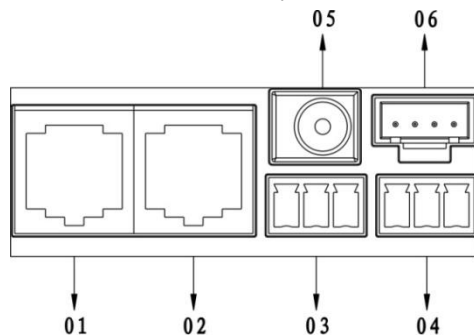


Figure 3- 1

- 01. Port 1: to VTH 1
  - 02. Port 2: to VTH 2
  - 03. 3-pin 1: to lock control end 1
  - 04. 3-pin 2: to lock control end 2
  - 05. Power port: to input DC+24V power
  - 06. Test port: to test device port
- See Figure4-1.

General types of lock in market are unlocking with power and unlocking without power. Here make electric lock and Magnetic lock as example.

### 3.1.1 Install electric lock and unlock button

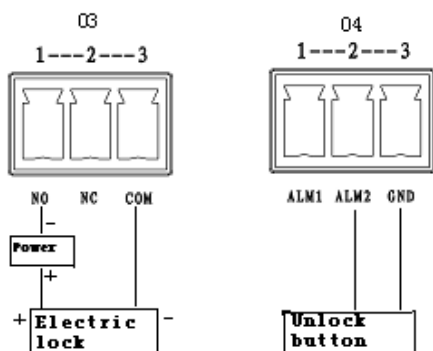


Figure 3-2

1. When connect VTO to electric lock, make electric lock + toward VTO NO-end (03.3-pin 1) and electric – toward VTO COM-end (03.3-pin 3).
2. When connect VTO to unlock button, make unlock button's one end toward VTO (04. 3-pin 2) ALM 2-end and unlock button's other end toward VTO (04.3-pin 3) GND-end.  
See Figure4-2.

### 3.1.2 Install Door sensor

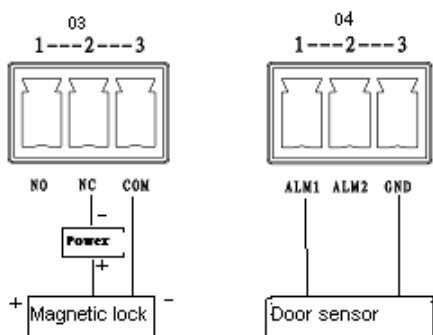


Figure 3-3

1. When connect VTO to magnetic lock, make magnetic lock + toward VTO (03.3-pin 2) NC-end and magnetic lock – toward VTO (03. 3-pin 3) COM-end.
2. When VTO is connected to door sensor of magnetic feedback, make door sensor's one end toward VTO (04. 3-pin 1) ALM2-end to unlock and make door sensor's other end toward VTO (04. 3-pin 3) GND-end. See Figure4-3.

## 3.2 VTO5110B

Definition of VTO6110B ports:

VTH can be connected to any port on VTO.

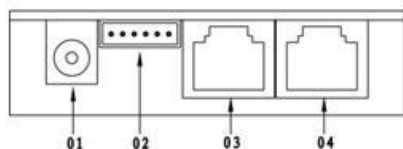


Figure 3- 4

01. Power port: to input DC +24V.
  02. Lock port:
  03. Port 1: to VTH 1
  04. Port 2: to VTH 2
- See Figure4-4

### 3.2.1 Install electric lock and unlock button

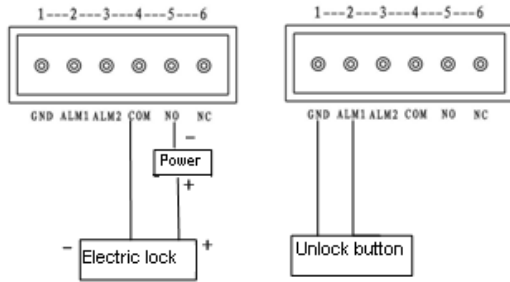


Figure 3-5

1. When VTO connects to electric lock, make electric lock + end toward VTO (03. 3-pin 1) NO end, and make electric lock – end toward VTO (03. 3-pin 1) COM end.
2. When VTO connects to unlock button, make unlock button's one end toward VTO (04. 3-pin 2) ALM 1 end, and make unlock button's other end toward VTO (04.3-pin 2) GND end. See Figure 4-5.

### 3.2.2 Install door sensor

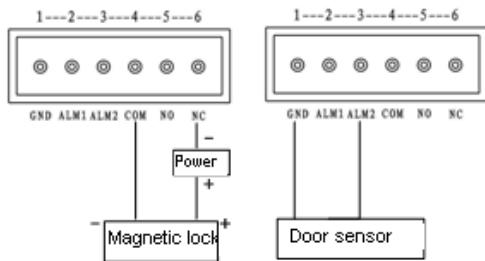


Figure 3-6

1. When connect VTO to magnetic lock, make magnetic lock + end toward VTO (03.3-pin 2) NC end and magnetic lock – end toward VTO (03. 3-pin 3) COM end.
2. When VTO is connected to door sensor of magnetic lock, make door sensor's one end toward VTO (04. 3-pin 1) ALM1 end to unlock and make door sensor's other end toward VTO (04. 3-pin 3) GND end. See Figure4-6.

## 4 Issue Card

The device supports IC card with frequency 13.56MHz.

Press menu button on VTH to issue card. Press SOS button to switch menu and select to issue card. VTH will then enter issuing card mode, and you will see prompt saying issuing card on screen. Now swipe card at card reading area until you hear a beep which means you have successfully issued card. Press touch button on VTO to exit.