Installation Manual

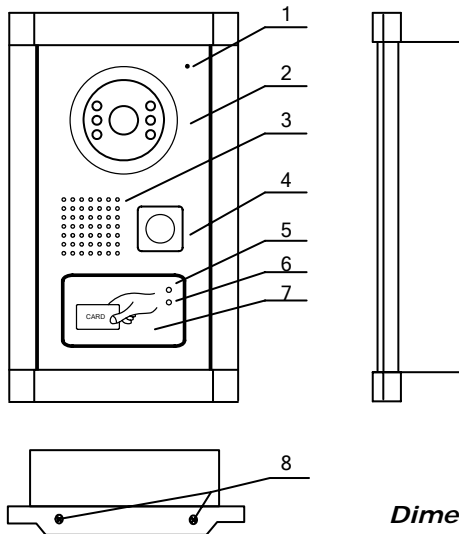### VT-581L Outdoor Station (Door Camera with Card Reader)

Features:
- Suitable for 4-wires Single Entry system, compatible with VT6xx serials of monitors
- Stainless steel panel, connect up to 4 Monitors directly
- Flush mounting, with metal box
- Capable of installing with Rainy Cover in flush mount
- ID card or tags access security

Package List:
- VT581L unit
- 2 Master tags, for add and delete user cards
- 5 user tags (already authorized)
- C3-4P cable to connect Monitor
- 2*C3-3P cable to connect latch, and JS/AP socket on Monitor
- 2*C3-2P cable to connect DC(+12V), and exit button
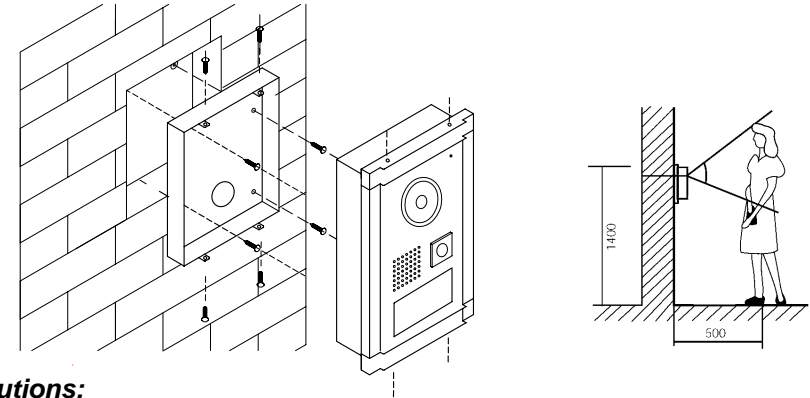
Parts and Functions:

1. Microphone
2. Camera
3. Speaker
4. Call Button
5. Access LED
6. Power LED
7. Card window
8. Fix screws (4)

Dimensions: 220(H)×125(W)×50(D)

Mount Instruction:
- Cut a hole in 200X117X35mm size on the wall, input and fix mounting box with screws.
- Wire the cables, and test the single entry system until it works.
- Put the VT581L body into the box, then tight the screws firmly on top and bottom.
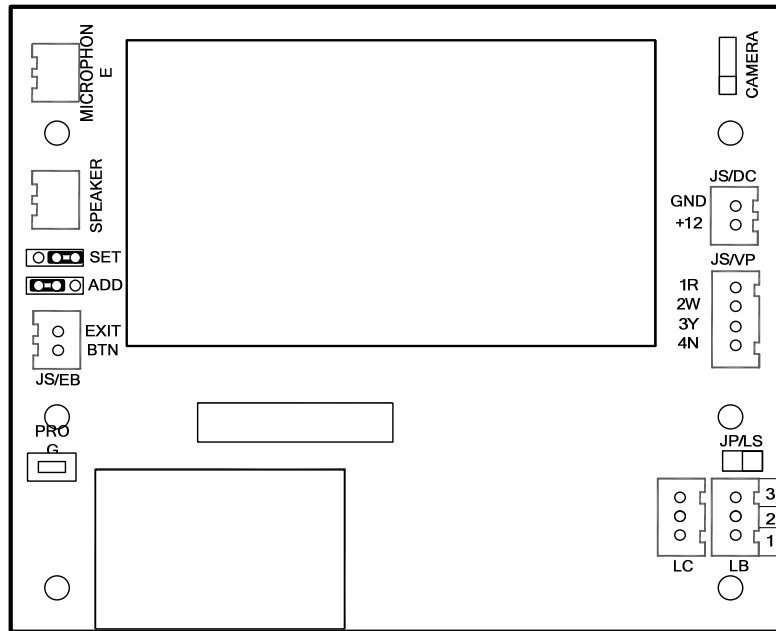

Precautions:
- Do not install in a place where there would be a bright light behind a visitor (or where there would be a bright background), or in a place where the camera lens would be directly exposed to sunlight or a bright light. If light comes in on the unit's screen, the image looks white or silhouetted, this is not a unit malfunction.
- Do not install the unit in places where High or extreme cold temperature, moisture or humidity extremes, Constant vibration or impact, steam or smoke.

Specifications:
- Power Supply: DC 10~12V (Powered by Monitors)
- Power Consumption: 200mA in working state (latch is not included)
- Video Output: 75Ohm Impedance, 1Vp-p, CCIR standard (unless specified)
- Camera: 76 degree, CCD or CMOS camera with IR-LED for night vision
- Working temperature: -10 ~ 40 degree
- ID cards or tags: EM type or compatible
- Cards Capacity: 50 user cards
- Unlock timing: 5 seconds (or controlled by monitors)
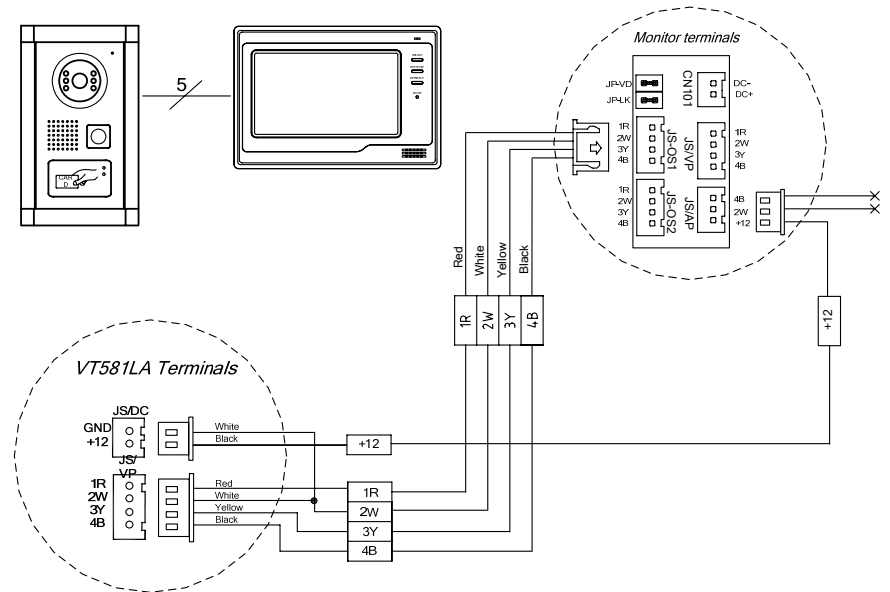
Wiring Terminals on VT581L
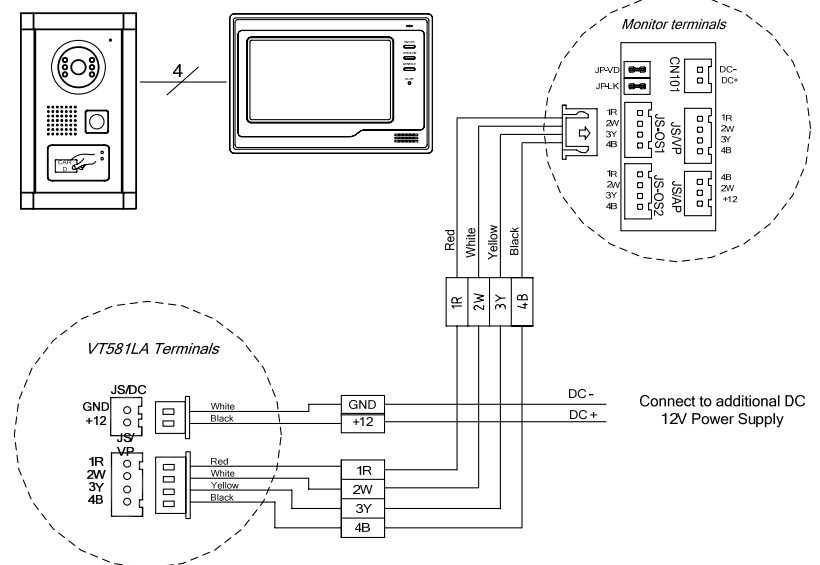
Illustration of VT581L PCB Board

MICROPHONE
SPEAKER
SET
ADD
EXIT BTN
JS/EB
PROG
CAMERA
JS/DC
GND
+12
JS/VP
1R
2W
3Y
4N
JP/LS
3
2
1
LC
LB

Terminals description

- **JS/DC:** Connect to JS/AP on the Monitor, or external +12V Power Supply
- **JS/VP:** Connect to JS/VP on the Monitor
- **JS/EB:** Connect to external Exit Button
- **LB:** Connect to latch (Dry Contact Mode)
- **LC:** Connect to latch (DC output Mode)
- **JP/LS:** Must be taken off if external Power Supply for latch is used
- **SET Jumper:** Reserved, always set to right
- **ADD Jumper:** If two VT581L are installed, set ADD to right for 2nd VT581L
- **PROG Button:** Button used to authorize master cards

Wiring Diagram 1 (VT581L is powered by Monitor)

Monitor terminals

JP-VD
JP-LK
CN101
DC-
DC+
1R 2W 3Y 4B
JS-OS1
JS/VP
1R 2W 3Y 4B
1R 2W 3Y 4B
JS-OS2
JS/AP
4B 2W +12

Red
White
Yellow
Black

1R
2W
3Y
4B

+12

VT581LA Terminals

JS/DC
GND
+12
White
Black
+12

JS/VP
1R
2W
3Y
4B
Red
White
Yellow
Black
1R
2W
3Y
4B

Wiring Diagram 2 (VT581L is powered by Additional +12V Adaptor)

Monitor terminals

JP-VD
JP-LK
CN101
DC-
DC+
1R 2W 3Y 4B
JS-OS1
JS/VP
1R 2W 3Y 4B
1R 2W 3Y 4B
JS-OS2
JS/AP
4B 2W +12

Red
White
Yellow
Black

1R
2W
3Y
4B

VT581LA Terminals

JS/DC
GND
+12
White
Black
GND
+12
DC-
DC+
Connect to additional DC 12V Power Supply

JS/VP
1R
2W
3Y
4B
Red
White
Yellow
Black
1R
2W
3Y
4B

Electronic Latch connecting instructions

● **Mode 1: With Monitor's JP-LK Jumper (Dry contact)**

LB

3
2
1

1,2: Normal-Open Contacts
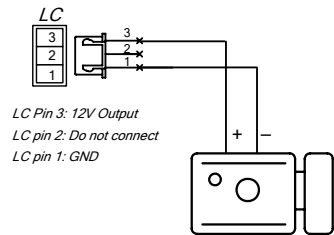3,2: Normal-Closed Contacts

POWER
SUPPLY
for Latch

Extra power supply for latch must be installed, and nearly all kinds of electronic latch can be used.

in this mode, you can continue talking and monitoring during unlock operation.

Note: JP/LS Jumper must be taken off.

● **Mode 2: Without Monitor's JP-LK Jumper (DC output)**

LC

3
2
1

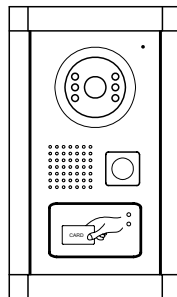LC Pin 3: 12V Output
LC pin 2: Do not connect
LC pin 1: GND

If the latch (normally door Strike) rated voltage is DC 12V, and less than 500mA consumption. The Latch can be directly connect and powered by Monitor.

During unlock operation, the monitor will close screen automatically.

Note: JP/LS Jumper must be reserved.

Operation Instructions

The upper LED is for access indicator, and will light after a valid User card is shown. The bottom LED is for state indicator, normally light in red, and turns to orange during programming.

There is a beeper inside VT581L, in working state:

● If a valid user card is shown, long beep;
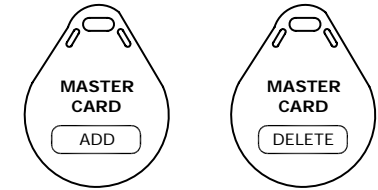
● If a invalid card is shown, three short beep;

In programming state:

● Enter Programming state, long beep with short beep;

● Exit Programming state, two short beep;

● For user cards authorization, long beep if adding successfully, two long beep if repeated, five short beep if the user cards are full (more than 50).
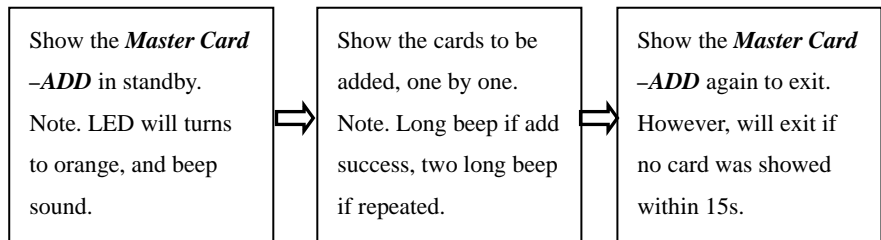
How to Program User Cards

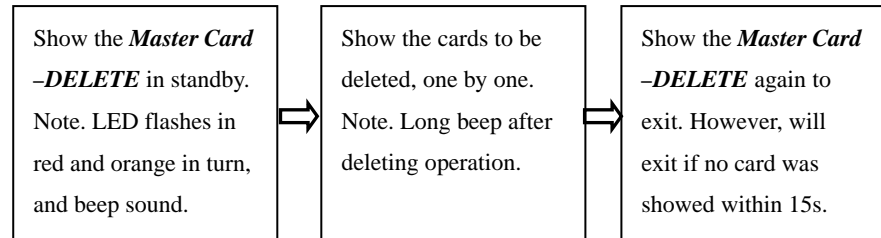The Master cards are necessary when you add or delete user cards.

Please keep the Master cards carefully.

MASTER CARD
ADD

MASTER CARD
DELETE

● **Add user cards**

Show the *Master Card –ADD* in standby. Note. LED will turns to orange, and beep sound.	Show the cards to be added, one by one. Note. Long beep if add success, two long beep if repeated.	Show the *Master Card –ADD* again to exit. However, will exit if no card was showed within 15s.

● **Delete user cards**

Show the *Master Card –DELETE* in standby. Note. LED flashes in red and orange in turn, and beep sound.	Show the cards to be deleted, one by one. Note. Long beep after deleting operation.	Show the *Master Card –DELETE* again to exit. However, will exit if no card was showed within 15s.

● **Delete all user cards(Format operation)**

Show the *Master Card –DELETE* in standby. Note. LED flashes in red and orange in turn, and beep sound.	Show the *Master Card –ADD* to run format operation.	Show the *Master Card –ADD* again to confirm the Format operation.

Program Instructions (Operate through Monitor)

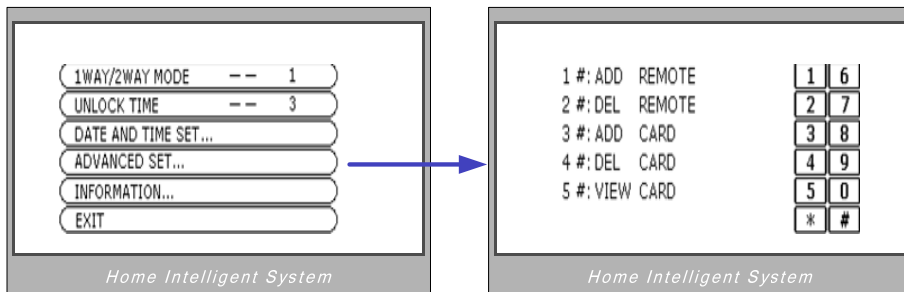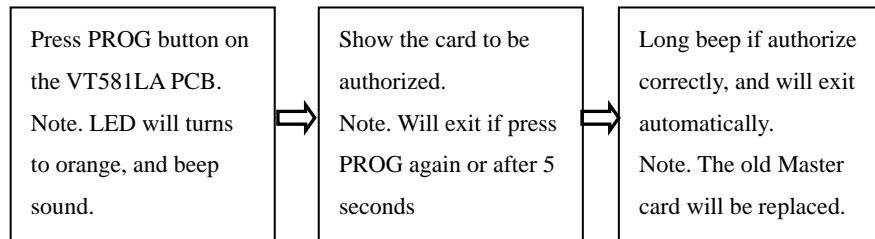● Refer the Monitor manual to enter SETUP MENU, select INSTALLATION..., then input password, you will see the Installation Menu on the Screen.

● Select ADVANCED SET.. to enter, input 3# to add cards, and 4# to delete cards.

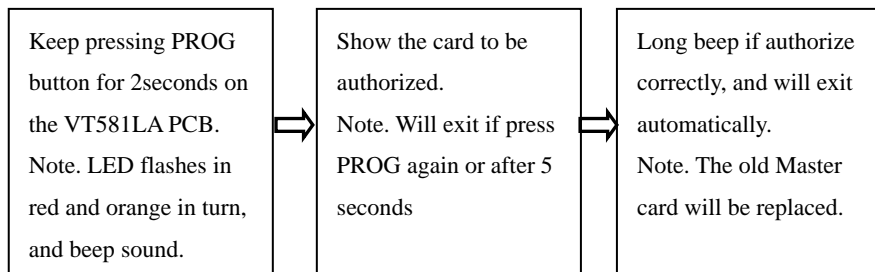● Please note, only 691/TC7, 692/TC7, 693/TC5 Monitors will support this operation.

| 1WAY/2WAY MODE | - - | 1 |
| UNLOCK TIME | - - | 3 |
| DATE AND TIME SET... |
| ADVANCED SET... |
| INFORMATION... |
| EXIT |

Home Intelligent System

```
1 #: ADD   REMOTE        1  6
2 #: DEL   REMOTE        2  7
3 #: ADD   CARD          3  8
4 #: DEL   CARD          4  9
5 #: VIEW  CARD          5  0
                         *  #
```

Home Intelligent System

Program Instructions (Master Cards)

● **Authorize master card-ADD**

| Press PROG button on the VT581LA PCB. Note. LED will turns to orange, and beep sound. | ⟹ | Show the card to be authorized. Note. Will exit if press PROG again or after 5 seconds | ⟹ | Long beep if authorize correctly, and will exit automatically. Note. The old Master card will be replaced. |

● **Authorize master card-DELETE**

| Keep pressing PROG button for 2seconds on the VT581LA PCB. Note. LED flashes in red and orange in turn, and beep sound. | ⟹ | Show the card to be authorized. Note. Will exit if press PROG again or after 5 seconds | ⟹ | Long beep if authorize correctly, and will exit automatically. Note. The old Master card will be replaced. |

VT-EN-581L-V1-2301L