▶ Technical parameters of outdoor station

| Product Material | aluminium alloy |
|---|---|
| Transmission Mode | digital transmission |
| Working voltage | DC12V |
| Operating temperature | -20℃ ~ +55℃ |
| Operating current | 60-80mA |
| Standby current | 10-20mA |
| Installation Method | wall mounting type |
| Installation Dimension | 130x54x40mm |

▶ Technical parameters of Indoor unit

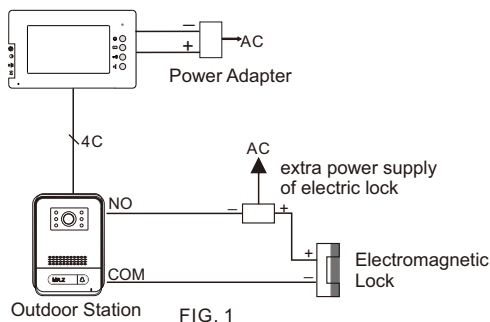| Working voltage | DC12V |
|---|---|
| Call duration | 120s |
| Call way | two-way communication |
| Operating temperature | -20℃ ~ +55℃ |
| Operating current | 60-80mA |
| Standby current | 10-20mA |
| Display Screen | seven-inch color LCD screen |
| Resolution | 800×480 |

# 4WIRES INTERCOM SYSTEM MANU

## Video Door Phone

# OPERATING AND
#         INSTALLATION GUIDE

## model:RA302125F-H

Plesse read this manual before using it and save it for future reference.

## 4-wire villa intercom system diagram1

▶ Standard Set Diagram
(1 outdoor station for 1 indoor monitor):



Power Adapter

4C

AC

extra power supply
of electric lock

NO

COM

Electromagnetic
Lock

Outdoor Station          FIG. 1

（4C:The diameter of the RVVP wire is 0.5mm square）

▶ Detailed conection diagram



AC
input

Power Adapter

indoor monitor backview

audio gnd v+ video

CN1          CN2

Indoor monitor

4wires connection detail
red  blue
yellow white

extra power supply
of electric lock

magnetic lock

CN1

audio gnd v+ video

NC  COM  NO

CN2

outdoor station backview

FIG. 2

4C

Outdoor Station
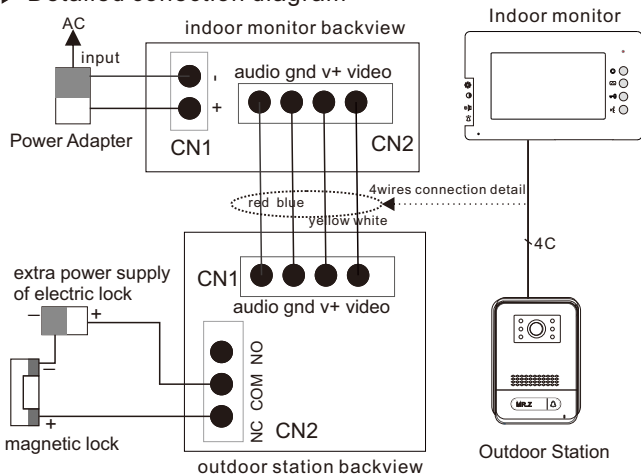
▶ Ringtones Selection on the monitor (7 ringtones cyclical selection):

When the monitor is standby, press the talk button till the "BI"sound, then press the monitor button till the "BI" sound, the setting mode starts( for10 seconds,the indicator flashing), press the monitor button for ringtones cyclical selection. Press the talk button to confirm and exit.

▶ Ring time/quantity selection on the monitor ( "dingdong" ring quantity for 3-10 times, other ringtones -example"beep"-ring time for 6-20 seconds ring):

When the monitor is standby, press the talk button till the "BI" sound, then press the intercom call button till the "BI" sound, the setting mode starts( for 10 seconds, the indicator lamp flashing), press the monitor button for increasing ring quantity/time, press the unlock for decreasing the ring quantity/time. Pressthe talk button to confirm and exit.

▶ Unlocking time seoction on the monitor(2s-20s):

When the monitor is standby, press the talk button till the "BI" sound, then press the unlock button till the "BI" sound, the setting mode starts( for 10 seconds, the indicator flashing), press the monitor button for increasing the unlock time2s-20s, press the unlock for decreasing the unlock time2s-20s,(every press increase/decrase by one second). Press the talk button to confirm and exit.

▶ Restore factory setting on the monitor:

Press the talk button till the power on, a long beep will sound, the restore factory setting finish.

▶ Indoor monitor:



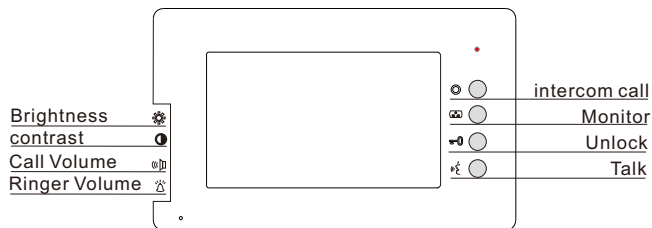FIG. 6  front view

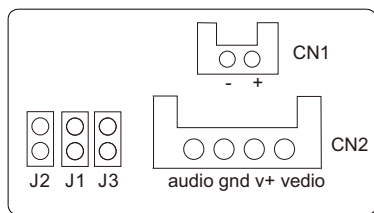- Brightness
- contrast
- Call Volume
- Ringer Volume

- intercom call
- Monitor
- Unlock
- Talk



CN1

- +

CN2

J2  J1  J3      audio gnd v+ vedio

FIG. 7  back view

▶ Notes for indoor monitor:

◆ CN1 is for a power，the  negative"-" and the positive"+".

◆ The indoor monitor CN2 (audio、gnd、V+、video) is accordingly wired
with the outdoor station CN1(audio、gnd、V+、video).

◆ J1 plug in when the outdoor station need the power from indoor monitor.

◆ J2 is a video jumper Pin, at the time of two or more indoor monitors
connection, The J2 on the furthest indoor monitor need plug in, the J2
on the other monitors is unplugged.

◆ J3 is a ringtone selection jumper Pin, at the time of two or more indoor
monitors connection, the J3 on the one of the monitors need plug in,
other monitors J3 is unplugged.

▶ Extension Connection Diagram
(1 outdoor station for max 4 indoor monitors):



Power
Adapter

Power
Adapter

Power
Adapter

Power
Adapter

4C

AC

NO

COM

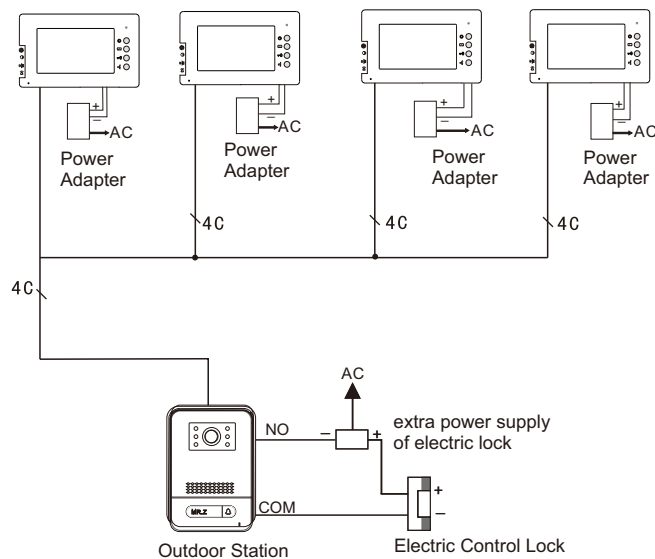extra power supply
of electric lock

Outdoor Station

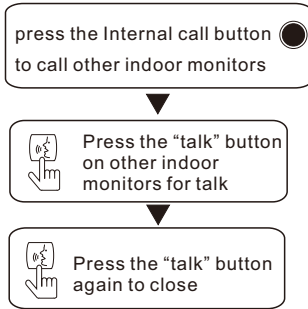Electric Control Lock

FIG. 3

（4C:The diameter of the RVVP wire is 0.5mm square）

▶ Visitors call:

Visitors press the "call"
button on the outdoor station

▼ Indoor unit rings

Indoor unit displays visitor image automatically

▼

Press "talk" button

▼ light flashing

talking…. ▶ Press "call" key

▼ ▼ The light stops flashing

Press "unlock" button  Each conversation up to two minutes  End of the conversation

▼ The light stops flashing

After the outdoor station is unlocked,
the indoor monitor automatically
close in 5 seconds. And the call is over.

▶ Monitoring:

press (📷) to preview the
door station image

▼

Press the "talk" button
on indoor monitor to
talk with door station

▼

Press the "talk" button
again to close

▶ Internal communication:

press the Internal call button ●
to call other indoor monitors

▼

Press the "talk" button
on other indoor
monitors for talk

▼

Press the "talk" button
again to close

-4-
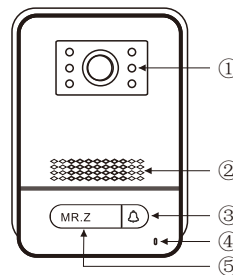
▶ Outdoor station:



FIG.4 outdoor station backview

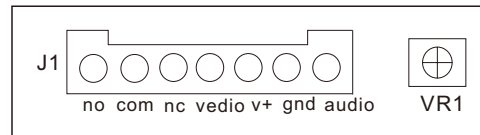| No. | Function Description |
|---|---|
| ① | camera |
| ② | horn hole |
| ③ | call button |
| ④ | microphone |
| ⑤ | nameplate |



J1   no com nc vedio v+ gnd audio   VR1

FIG.5 Rear view of outdoor station

▶ Notes for outdoor station:

◆ The outdoor station (audio,gnd,V+,video) is accordingly wired
with the indoor monitor CN2 (audio,gnd,V+,video) .

◆ NC,NO and COM is a dry contact of a relay , NC and COM are
connected to magnetic lock, NO and COM are connected to electronic
lock.

◆ VR1 is a switch to adjust the volume, clockwise for up, anticlock for down.

-5-