D，Z
D，Z，H

WRT®

A7S-801ZCD8S7

Thank you for using our company's "building (video) intercom system,"
Please read this manual before using and keep it for future reference.
WRT reserves the right to change specifications or designs described
in this manual without notice and obligation.

Content

1 System feature：

801 intercom systems is composed by building gate station, user door phone, PC and other equipments, which is based on TCP/IP. The system is with the technology of multichannel, each channel can work independently.

Feature:

11.Suit for large community.

2.Wall hanging install, Touch operation .

3.7.0'LCD Display, monitor the situation of the entrance, remote unlock

4.Can call the Control Center, send the emergency to Control Center

5.Call the other tenant for intercom, Bidirectional video

6.Ringtone Download and Silent Mode.

7.Function for lift

8.Call Divert

9.Eight arm/disalarm zones

10.Wireless home furnishings control(For version of D,Z,H)

11.Check pictures, SMS etc.

12.Service for the convenience of the customers from the Control Center is supported.

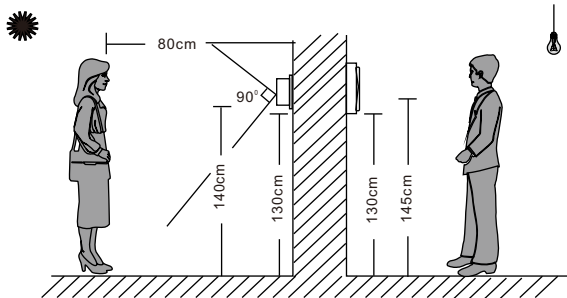13.Parallel Operation is allowed, at most 4 indoor Monitors can be work together

14.Remote update

2 Appearance

Front view

Back view
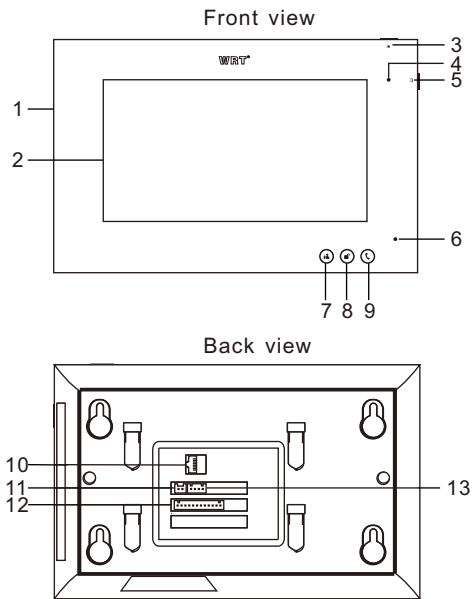
1. Speaker   2.Screen   3.Alarm button   4.Status indicator light
5.Lift   6. Microphone   7. Call button   8. Unlock／Monitor
9. Hand free   10. LAN port   11. Connect Socket for input of
+ 18VDC   12. Socket of Alarm Sensor   13. External Socket
for manual doorbell and the button of emergency and alarm

3 Caution

1. Do not install it in any of the following locations, extremely temperature area, under direct sunlight,subject toenvironmental conditions, such as oil, dust, chemicals, salt, etc.

2. Installing at the height of 145cm above the ground is highly recommended.

3. Be sure to cut off the power during installation.

4. Put wires in wire tube and separate it from other wires to avoid the interference. All wire connector should beoutside and water-proofed, for better maintenance.

5. Make sure wires are connected properly before plugging in power supply.

6. When malfunction happens, cut off the power till the problem is solved.

7. If the system is found of any malfunction, please cut off the power and inspect according to the TroubleShooting. If it is unable to find the causes, please con-tact the sales agent or the manufacture's after-sales service department.Do not repair or replace the parts by yourself, otherwise the system might be damaged.

4 Installation：

1. Make a hole at the height of 145cm and make sure it's fit for the bottom case. (Figure 1)

Wall

Hole

Wire

Figure 1

Wall

Wall box

2. Open a wiring hole in the bottom of the wiring box an insert the wires through the wiring hole, and fix the bottom case into the hole ,embed cement.(Figure 2)
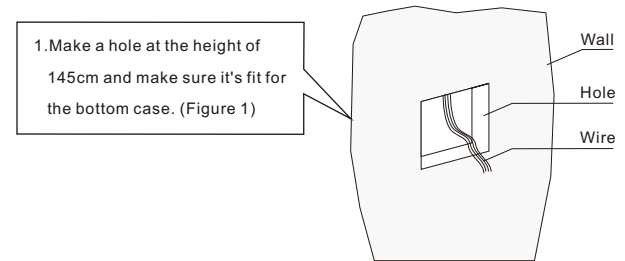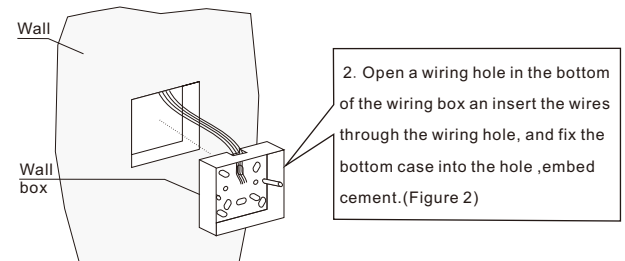
Figure 2

3. Make 4 holes according to instruction of locating paper, with plastic expansion plug and leave screws outside about 5mm.(Figure 3)
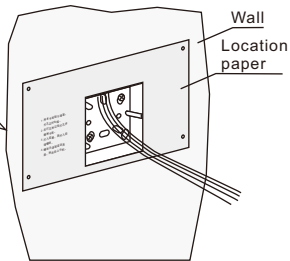
Wall

Location paper

Figure 3

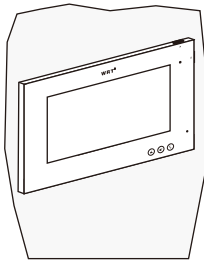4.Connecting the wires, then fix the door phone with four screws.(Figure 4)

Figure 4

5 Description：

This station is operated by touching the key.Click on the icon or text once to enter the next level menu or perform functions.

It will boot normally after 30 seconds when it is energized.

Touch the screen when it is in standby state, and can operate it.

There are Home/ Outside/Maintenance/Lift/Smart home/Service/Setting/ Message/Call/Monitor icons in homepage, click on the icon to enter the next step. Click " ✕ " can turn off the screen, it will turn in screen saver or shut down if there is no operating after 3 mins.
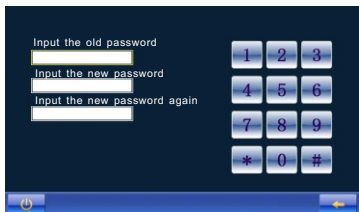
5.1 Setting:

Specification of the door phone must be setted after connecting well. Press "settings" icon, turn to the interface where you can set password, room number and so forth.
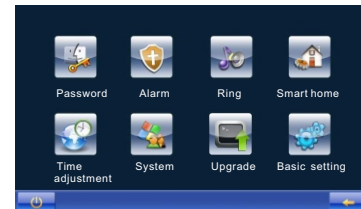
5.1.1 Password：Modify password

Touch the icon of "Password":

Input the old password(input the "88888888" for first usage), and press "#" to confirm it. If wrong, the display will prompt, then click "Ok" to re-enter the old password, and click "cancle" to return to the main menu. In the case of right old password can automatically activate the new password input box. Tenant may be prompted to enter a new password continuously, and press "#" to confirm, click "Ok" to change the password for the new password, press "←" to previous menu.

Note: 1 Please keep in mind a new password, and shall not be divulged.

2 If tenants forget the password, the password can be restored to the initial password "88888888."
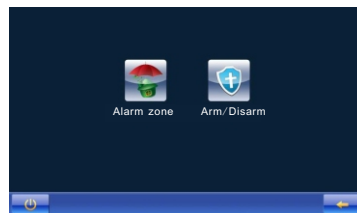
5.1.2 Alarm：Enable/Disable/Arm/Disarm the zones

There is a line of alarm LEDs show on the up right side of the main interface. The arm is turned off when it is gray; arm zones are not set up when it is blue; arm zones are set up when it is yellow; there is a new alarm when it is red(main interface is "Default style", the zone indicator light is on the downside of main interface, Disable/Disarm/Arm/Alarm indications are Black/Green/Yellow/Red).

8 Alarm Zones in all, Zones 1 to 4 are for fire, gas, FIR and door sensor, 5 to 8 would be set by your own.

You have to set up the arm zones first. Touch the "Alarm" icon, input the password and press "#" to confirm, enter the interface as bellowed:

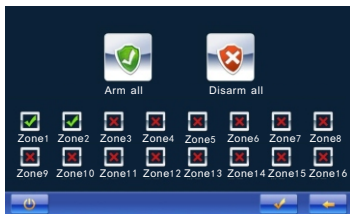a.Arm: Touch the "Alarm" icon, input the password, enter the interface as bellowed:

Touch "Alarm Zone" icon, click the zones to arm them and click " √ " to confirm Click " √ " again to disarm them, click "←" to return to previous menu.
Note: The disable zones can not arm.
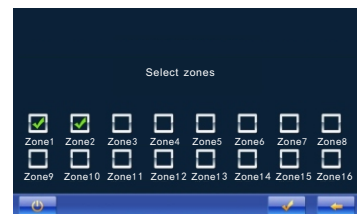
b.Arm/Disarm: It works only if it is "home" mode, click the "Arm/Disarm" icon, the display shows:

Click the arm zone you need, and press " √ ", " √ " means arm is enable, "✕" means arm is disable, click √ again to confirm. If "toot" sound is heard, the alarm LED turns to be yellow.

Click again the armed zone(s) you want to disarm and click " √ " to confirm for disarm purpose.

　Alarm all: Click "Alarm all" and click "Ok" to confirm.

　Disarm all: Click "Disarm all" and click "Ok" to confirm.

Note: Smoke and Gas zones will turn to arming status after setup.

5.1.3 Ring: Set ringtones for guard station, gate station, entrance station, intercommunication indoor monitors, alarm, message etc. Click "Ring"
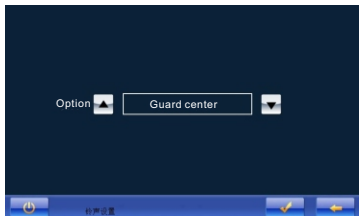
Select the call in locations by " ▲ " or " ▼ ", and press " √ " confirm.

" 🔲 ": Delete all ringtones (except for the default ring and locking ring)

" 🔲 ": Delete the selected ringtones (locked ringtones can't be deleted)

" 🔲 ": Play the selected ringtone. A dialogue box will; show after click to remind user whether to set it.

" ▲ " and " ▼ " : Slip up/down to check other ringtones.

Lock/Unlock the selected ring tones, the selected ring tone can not be deleted)

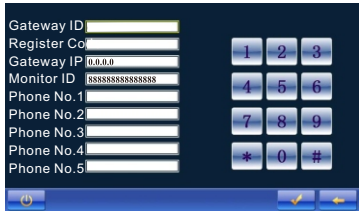5.1.4 Smart home：Set for home automation function

The door phone can be used to set for Scene settings in wireless home auto-mation system, but you should deploy the furnishings before using this function.

Touch " Home" , input the password and press "#" key:
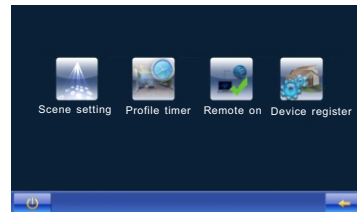
You should deploy the furnishings before using this function.

a.Device register: Touch "Device Register"

Gateway ID: Master station ID while setting Home system software

Register code: Control password while setting Home system software

Gateway IP: Destination address while setting Home system software

Room ID: Tablet ID while setting Home system software

Input correct parameters to entry boxes, and press " √ "to confirm。

Note:While input the parameters, press "*" to delete the former word , press "# " to input". "

b.Scene setting：

Touch"Scene setting":

For example, select "Guest"：
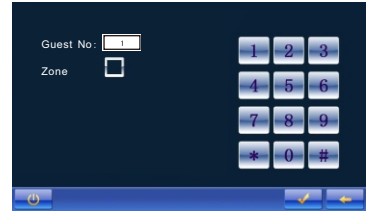
Select any mode you want(the selected one would turn to be yellow),

press "*" to delete the former information, press number to input new data.

When tenant input scene NO. which should be the same as while setting Home system software.

If tenant need zone arm, select it and select the zones which are enabled among the pop-up zone options:
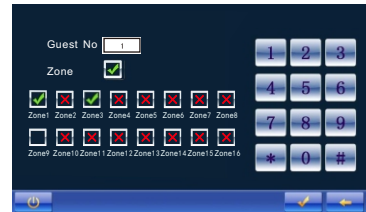
After completed, press " √ " to confirm then zone arm will execute appropriate actions.

c.Profile Timer: Set one scene for the time point of everyday(except weekend)

Click"Profile timer", it will show：
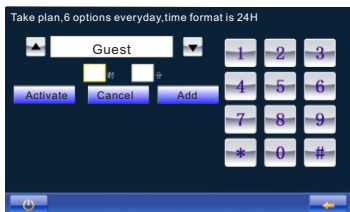
Press "▲" or "▼" to choose Scene Mode (Home ,Outside, Night light ,Get up, and User-defined mode), input activate time (click the entry box before hour/ minute, it means be selected when become yellow, then input thenumber), click "Add" can add scene mode. Click "activate" can make the scene mode enable automatically oncertain time everyday.

Click " activate" again,"activate" become"stop" , click"stop" can stop the scene mode.

Tenant can add several scene modes (≤6) at one time, then click "activate".

Click "Cancel All" can eliminate all scene modes which are added.

Remote on: set if remote control home furnishing. Click "Remote on/ Remote off", open/close remote control.

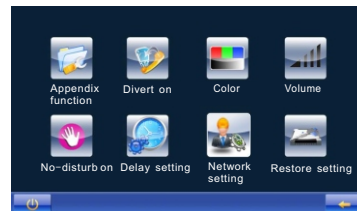When remote control is on, tenant can control home furnishing by Control Center.

5.1.5 Time adjustment: Adjust time to keep in accordance with center unit.

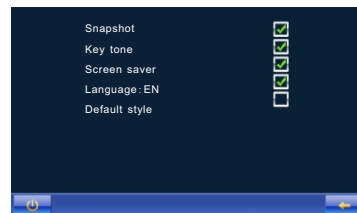5.1.6 System: Check IP address and functions current status.

5.1.7 Upgrade： Under developing

5.1.8 Basic setting：

Click "Basic Setting":

a. Appendix function: User can set snapshot, screen saver, key tone, connection with analog monitor etc.

Touch the function you want to set," ❌ " means turn on ," ✅ " means turn off, press "←" to save the data and go back to previous.

The station will snapshot after 5 seconds while the station is calling the indoor monitor under the snapshot is on. It alsosnapshot after 5s while the Front Door Station is calling, and the photo will upload to the Center for recording.

When key tone is on, there will be an accompanying sound when every time touch the screen.
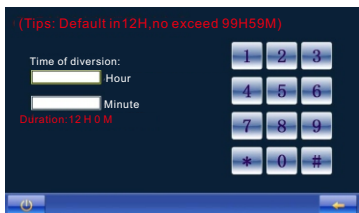
When screen saver is on, the indoor monitor will be auto- screensaver.

Touch"Language", interface will transform between CH-EN.

Select "Default Style", change interface mode：

b.Divert on：

Touch "Divert on", input the time of it, and press "#" to confirm.

Directly click "#" without any input of time, it will turn to be default "Divert on" time 12 hours.

When there is a vistor, the system will transfer the call to the Control Center under divert on.

Note: Cancel divert on status: Click "Cancel divert on" and click confirm icon in divert on status.

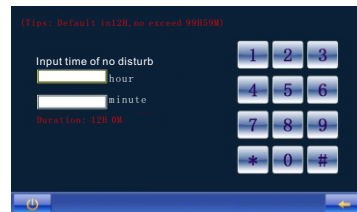c.Color：Touch "Color" to adjust brightness, contrast and saturation

There are totally 100 levels, press "+" can turn up,or "—" to turn down, press "←" to save the data and go to the previous.

d.Volume：Adjust the volume of ringtone, call,alarm and microphone
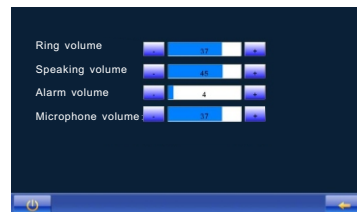
There are 5 levels of volume, press "+" to turn up the volume, and "—" to turn down, press "← " to save the data and go to the previous.

e.No disturb：

Touch "No-disturb on". Input the time (Beyond 100hours), and press "#" and "OK" to confirm it. Directly click "#" and "OK" without any input of time,it will turn to be default No-disturb time 12 hours.

Note:The bell will not ring after successful setting. The divert on setting will shut down when No-disturb on.

Cancel No-disturb on: The icon will turn to cancel No-disturb on status after setting successfully. User click "Cancel No-disturbion" and confirm it to cancel No-disturb on function.

f.Delay setting: Set the time of ringtone,arm delay, upload delay and alarm bell.
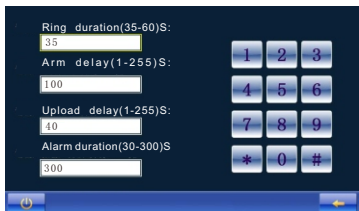
Click the time box, and input the time, and press "*" to delete the words of box; Input the setting time, press "#" and "Ok" to confirm.

Same way to set time of arm delay, report delay time and alarm time.

g.Network settings: Only operation by engineers, can be setted according to the community network layout.
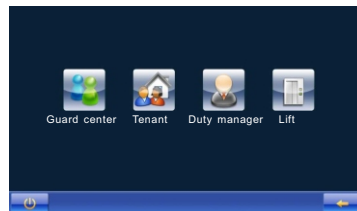
h. Restore settings: Default setting, input password and click "#" to confirm. Be cautions of this step!

Please restart the device after setting all above.

5.2 Call:

Touch "Call" icon

5.2.1 Call Guard center:This function is calling the Control Center. If no answer, it will cut off automatically, or else the call can be kept in 2 mins, and click " " to hang up.

5.2.2 Call the tenant: Set dail format or intercommunication with other tenants with one LAN internet.

Click "call the tenant " icon:

Dial format Setting: Set the length of the NO. Input "RULE", and press "#" to confirm.
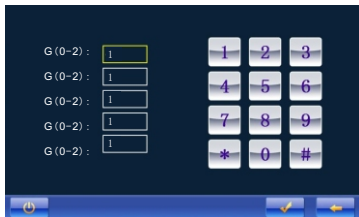
Click the input box(it turns to be yellow when selecting it) Input the NO. according to the tips, and press " √ " to save the data.

Call the tenant：Input the Room NO. and press "#" button according to the dial formal you have set for the tenant. If no one answers, it will cut off automatically, or else the call can be kept in 2 mins. Click " 📞 " to hang up when busy line.

You can also add new contacts by inputting the Room NO. of the tenant,and press "Add Contacts" to save. You can check the numbers by touching "Check Contacts". Select Room NO. ,then click " 📞 " to call the selected tenant.

5.2.3 Duty Manager: Click it and call to duty manager.

5.2.4 Lift: Click lift icon to call the lift when system is connected with lift.

5.3 Monitor：

The station can monitor 30 seconds. Touch " Monitor " icon:
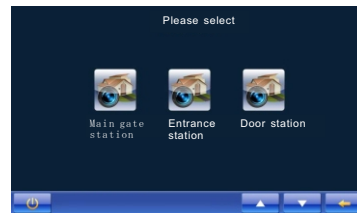
Touch " Monitor " to select " Gate Station ", " Sub Gate Station " or "Entrance Station" for monitoring , and click " USG " to exit, or click " ▲ "and " ▼ " to turn the pages and touch " USG " to exit.
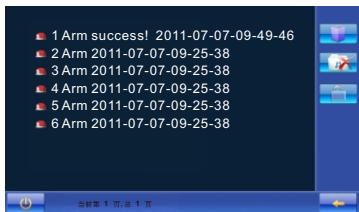
Note: Need deployment before multiple-monitoring, then download the deployment information and upload into the door phone.

5.4 Message:

Touch"Message"
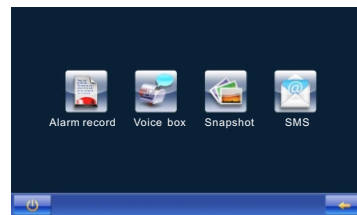
5.4.1 Alarm Record: Touch "Alarm Record" to check the records, the screen will show while touched:
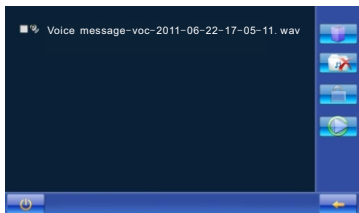
" ▦ ": Dlete all the records(except for the locking one);

" ▦ ": Delete the records which have been selected(the selected one would turn to yellow);

" ▦ / ▦ ": Lock / Unlock the records which have been selected.

Use " ▲ " and " ▼ " for page turning when there are lots of records.

5.4.2 Voice Box: Check records of gate station, front door station and video door phone, Touch "Voice Box" to check the records, the screen will show wen touching it:
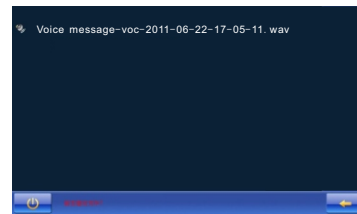

" ▦ ": Delete all the voice records(except for the locking one)

" ▦ ": Delete the voice records which have been selected(the selected one would turn to yellow);

" ▦ / ▦ ": Lock / Unlock the voice records which have been selected;
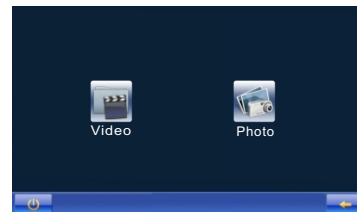
" ▦ ": Play and voice records which have been selected.

Press"←"to the previous menu.

Use " ▼ " and " ▲ " for page turning when there are lots of records.

Note: The status will turn to be red when have new messages.

5.4.3 Picture snapshot：Touch"Picture"to check snapshot pictures, the screen will show while touched:
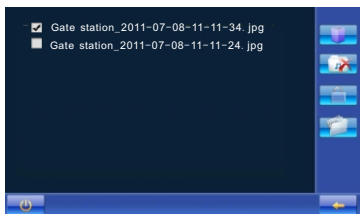

a.Video：

" ![icon] ": Delete all the video records(except for the locking one);

" ![icon] ": Delete the video records which have been selected(the selected one would turn tobe yellow) ;

" ![icon] / ![icon] ": Lock / Unlock the selected video records;

" ![icon] ": Play the video records which have been selected;

Video door phone can save max 20 video records, users can press " ![icon] ",

" ![icon] " for page turning when there are lots of video records.

   When playing video records, click anywhere of the screen can stop playing and return to the video records list interface.

On the video records list interface, c l i c k " ![icon] "o r " ![icon] " can export video records to SD card or USB device.

b,Photo:

" ![icon] ": Delete all the photos(except for the locking one);

" ![icon] ": Delete the photos which have been selected(the selected one would turn to be yellow);

" ![icon] / ![icon] ": Lock / Unlock the photos which have been selected.
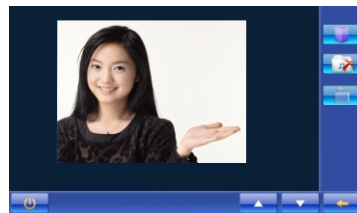
Use" ![icon] "and" ![icon] " for page turning when there are lots of photos.

Note: The status will turn to be red when have new photoes.

5.4.4 Message：

Touch"Message"to check the records, the screen will show while touched
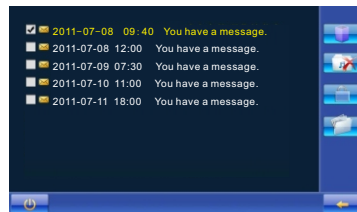
" ![icon] ": Delete all the message(except for the locking one);

" ![icon] ": Delete the message which have been selected (the selected one would turn to be yellow);

" / ": Lock / Unlock the messages which have been selected;

" ": Open the selected message.
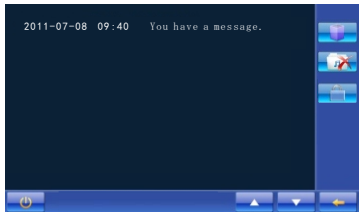
Use " "and" " for page turning when there are lots of photos.

Note:The status indicator lights will turn to be red when have new messages.

5.5 Home/ Outside

Express mode, one-key arm/disarm, convenient for users to control arm zones.

Click"Outside"icon, then confirm it to set arm for all arm zones, they will start to work after delay time.

Click "Home" icon, input password and click"#"to confirm, and disarm for the armed zones.

5.6 Service:

All the service items will not work until the function are all activated.

Click "Service" icon in main interface, it will display:
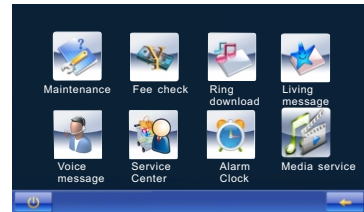
There are "Maintenance" " Fee check" " Ring download" " Living message" " Voice message" " Service Center" icons.

5.6.1Maintenance:

All the public system problems such as power supply problems, water supply problems, Kitchen problems and gas supply problems etc.
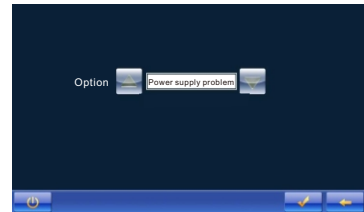
User clicks" "or" "to choose the type of helping service, then click " √ " to send t he signal to the guard center. If succeed, you will see a message box, click"ok"confirm.

5.6.2 Fee check: You can check the fee for water, electricity, gas, management, drinking water and heating bills.

Click" ▲ " or" ▼ " to choose the type of bill, and then click " √ " to check the

bill.

5.6.3 Ring download：To download the ring-tone offered from the guard center,

please click the icon and you will see the following screen:
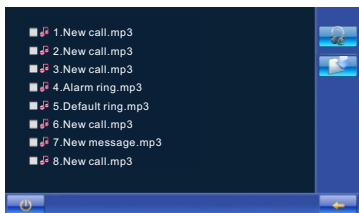
" 🖼 ": Download the ring- tone from the center to buffer and play.

" 🖼 ": To download the ring-tone from the center to the door

phone. You can set the ring-tone downloaded in Ring Setting.

 When there are many ring- tones, press" ▲ "and" ▼ "to turn the pages.

5.6.4 Living message:Ask for handy service from the center(Only when the

center offer this service)
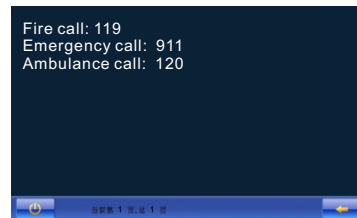
5.6.5 Voice message: Leave a message
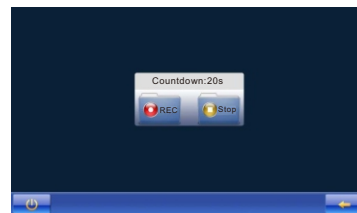
Click"REC"to leave a message. The voice message can last 20s. Click "Stop"

to recording.

5.6.6 Service Center: Users can call the service center to get services.To

realize this function, an IP telephone server and the telephone traffic platform.

5.6.7 Alarm Clock: Users can set alarming time under this menu.

5.6.8 Media Services：Under devoping

5.7 Smart Home

Touch "Smart Home"
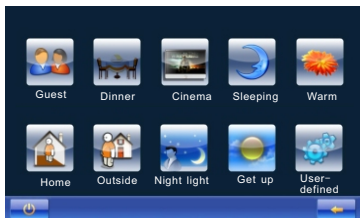
Select the scene you want by touching the icon:
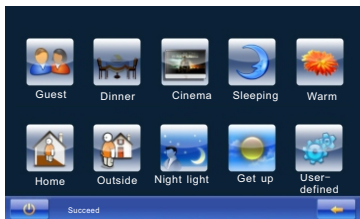
5.8 Being Called

1 When the Gate Station or Sub Gate Station or Front Door Station is calling, the station rings and the screen shows the situation of the doorway. Snapshot every 5s when in snapshot mode. User presses " 🔵 " to have a 2min's conversation with the visitor. Press " 📷 " to take a photo; press " 📹 " to record a video until call end; Press " ❌ " to shut down the rings; Press " 📞 " to end the call; Press " 📲 " can switch to the divert on mode; Press " ▭ " while talking can release the lock.

2 When the Control Center is calling, the station rings and the screen turns on. Press " 🔵 " to have 2min's conversation with theper-sonnel;Press " ❌ " to shut down the rings; Press " 📞 " to end the call.

3 When the other Indoor Monitor is calling,the station rings and the screen shows turns on. Press " 🔵 " to have a 2min's conversation with the visitor; Press " ❌ " to shut down the rings; Press " 📞 " to end the call.

4 The tenant can press the " 👥 " to call the guard center or other tenants, press " 🔓 " to unlock or monitor the entrance, and press " 📞 " to intercom with the visitors.

5.9 Alarm process：

When there is alarm happened, the door phone will alarm during setting time. LCD turns on and the status indicator will be red at the same time. The indicator of the alarm zone will be red, and it will shows the red fonts to prompt this alarm zone:
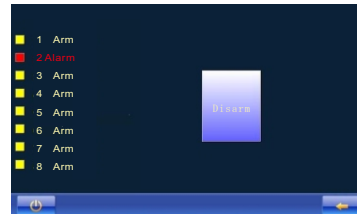
Tenants can check and remove alarm by door phones.

Press "disarm" on the arm interface, if it is fast mode, then do it by the fast mode;if it is separate control zone, then disarm by that.

1.Fire, Gas

If there dangerous, it will alarm under the "armed" state, and send the message to the Guard Center at the same time.

2.PIR,Door Contact.

After armed, if don't handle the alarm during the arm delay time; then start checking, if there is arm happened, if don't disarm within delay time, then it will send the information to the Guard Center.

3.Zone 5,Zone 6

It will check after armed, if there is dangerous, the site will alarm, if don't disarm within delay time, it will send the message to Guard Center.

4.Zone 7, Zone 8

It will check after armed, if there is dangerous, the site will alarm, it will send the message to Guard Center.

5.10 Alarm:

Press " 🔔 " or external alarm switch if you needed, it will alarm and send the message Guard Center.

5.11 Lift:

There are two ways for you to select. Press " ▯ " under the "call" menu if the system is connecting the lift linkage.When the door phone has connected to the lift, or press"lift "directly.

5.12 Extension door phones

The system supports a Main Door Phone can link with 3 Sub Door Phones. The NO. of the main door phone must be 01, and the Sub Door Phones are 02-04

1.No-disturb on/off, Divert on/off, you can set ringing time on any one of them.

2.Any one of the door phones can call or monitor separately.

3.All the phones can receive calls at one time. You can use and only use any one of them to answer. The other three door phones can receive other calls at this time. In a word, three door phones can receive calls from three different ways.

4.Door phones can connect with each other: input R1 (stand for the main door phone)/R2/R3/R4+"#", can call the relevant door phone. For example, call 01 door phone, input"R1#".

5.The door phones which have snapshot function will capture the image and save it.

5.13 Others:

1. Door phones Alarm Sensor connection: door phone can connect eight groups Alarm Sensor. Some are NC(Detectors close if have no alarms, and open if alarms happen), some are NO(Detectors open if have no alarms, and close if alarms happen).when the way of alarm sensor is NO. should cascade a 2.2Kresistance on the connection of alarm sensor. When the way of alarm sensor is NC, should connect a 2.2K resistance.You must choose right option according to specific condition when installing these socket; the socket which don't need to connect the Alarm Sensor should insert shock block,or it will alarm all the time; the pin block which need the alarm probe should unplug the short circuit block, or it will don't handle the alarm.There are open circuit and short circuit in the alarm sensors, But must be aware of the total current should not be over 400mA,you have to add another power supply if more than 400mA.
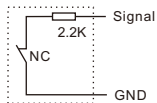
Figure 1
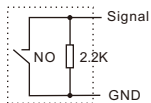
Figure 2
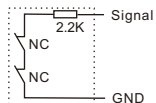
Figure 3
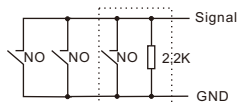
Figure 4

2.Indoor monitor provide 2 groups of 12V/0.5A voltage output. One is non-controlled output, provide power supply to alarm sensor. The other one is controlled output for smoke sensor. When there is a smoke alarmpower will be cut off for 2s to reset the sensor.

3.When there is no power on the plug, the door phone cannot work normally, add a storage battery is suggested.

4.There are sockets for connect external alarm input, Alarm output often be connected with GND, if the alarm input disconnect to GND, the station alarm.

5.External calling bell is possible to connect with indoor monitor, press it and "Dingdong"sound will ring out three times.

6.Tenants can arm/disarm the indoor monitors through the guard center.

7.Tenants can disarm the indoor monitors when unlock the door by password and IC card.

8.Press " [] " for 3s and release, it will start the function of screen calibration.

9.The icons in top right comer of monitor reflect its functional status, the icons will show if monitor network connection is stable, not disturb function opens, new unread message or recording voice, there is an alarm from arm zones if alarm sensor is enabled.

10.There are a line of small icons in the main interface of indoor monitor when in specific mode. Click responding icons and enter the corresponding interface.

6 Specification

Voltage Input	+18VDC/+28VDC
Humidity	45%~95%
LCD	7.0"Color LCD
Sensitivity	≤20mV
Distortion	≤5%
Back Light	Build-in
Standby Current	≤250mA(LCD close)
Working Current	≤300mA
S/ N Ration	≥70dBA
Operating Temperature	-10° C~+55° C
Visual Angle	70/75/75/75
Signal Input	MP4/H. 264/G. 711 Streaming Media
Power output	≥500mW
Number of Pixels	800(H)×3(RGB)×480(V)
Screen Size	Diagonal17.5cm(7.0")
Monitoring time	30s
Communication time	Maximum120s
Network Port	Rj45
Way of Transmission	TCP/IP
Transfer Distance	Decoder or router with100m, add a fiber optical transceiver beyond 100m
External Dimensions	250×160×28mm

7 Terminal Description

TerminalMarks		Description
Socket of Power Supply Input	+18V	+18VDCVoltage Input
	GND	Ground Wire
Socket of External Alarm and Doorbell	External Doorbell	Manual Doorbell Button
	GND	Ground Wire
	GND	Ground Wire
	External Alarm	External Emergency Button
Socket of External Sensor and Alarm Signal Output	1	Fire Sensor switch signal input
	2	Gas Sensor switch signal input
	3	PIR Sensor switch signal input
	4	Magnetic Sensor switch signal input
	5~8	Costumed switch signal input
	GND	Ground Wire
	PIR	Door Phone supplies 12V/0.5A Voltage Input
	Smoke	Door Phone supplies 12V/0.5A Voltage Input
	Alarm Output	External Alarm

8 Trouble Shooting:

Description	Check	Solution
Door Phone does not work	Check the power supply wire and the indicator LED	Connect the wires correctly and restart the door phone after 30s
Door Phone can not call & alarm to Guard Center	Check connection of the network wire. Check the specification	Connect the network wire correctly and set the specification correctly
Door Phone does not ring when Gate Station call	Check the wire connection Check the volume Check if it is no-disturb mode	Connect the network wire correctly, reset the ring tones and quit the No- disturb mode
Door Phone shows no image	Check the specification of network	Reset all the IPs
Detectors can not alarm	Check the defense zones. Check the connection of the detectors	Connect all the sensors correctly and reset door phones
Door Phones can not call each other	Check if input correct number	Input the room numbers correctly

9 Wiring

Video door phone

To LAN internet — Cable

Power supply PD-V18

RVV2X1.0mm

External Alarm
External doorbell

Arm zone8 | Arm zone7 | Arm zone6 | Arm zone5 | Door contact | PIR | GAS | Smoke

NC/NO GND | NC/NO GND | NC/NO GND | NC/NO GND | NC/NO GND | NC/NO GND +12V | NC/NO GND External supply | NC/NO GND +12V

12V
GND   External doorbell

OUT +
GND −

Speaker
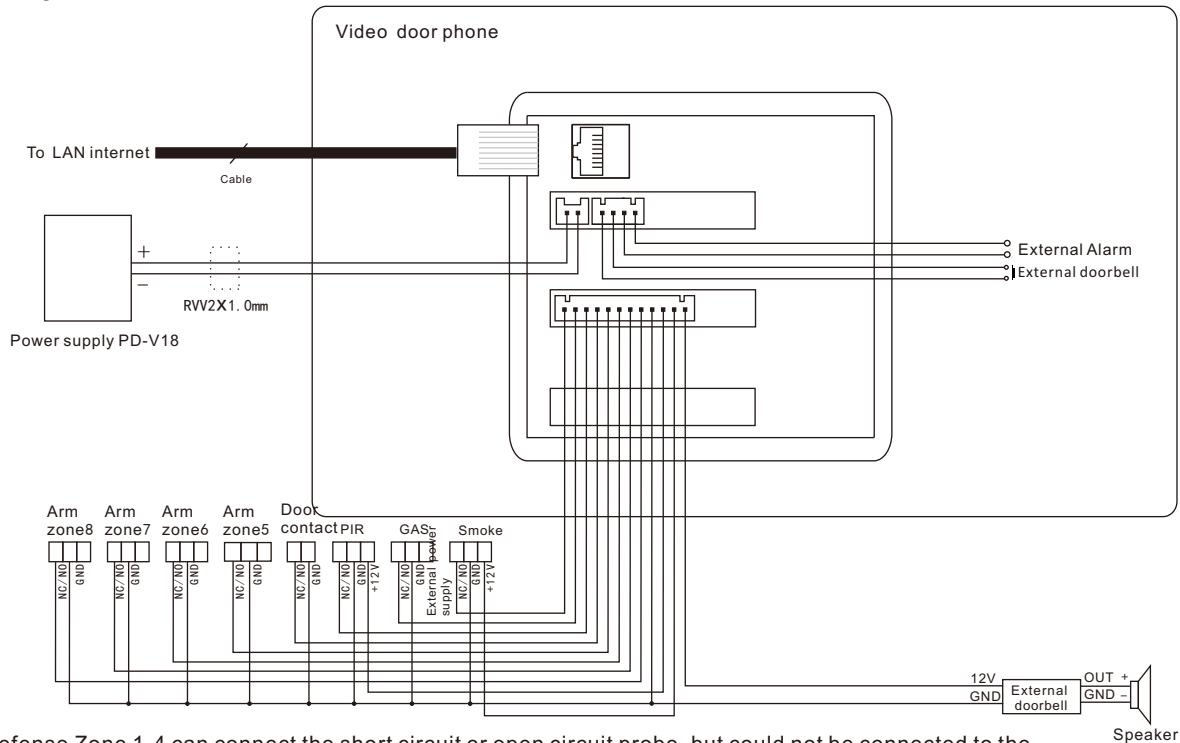
1.Defense Zone 1-4 can connect the short circuit or open circuit probe, but could not be connected to the pulse signal probe as the switching signal time is more than 200 millisecond.

2 . There are two ways of connection: NO mode and NC mode. Please connect correctly by reading the operation pages in this instruction.

Manufacturer

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