Video Camera Plus DVR GSM Alarm System

Preface

Thanks for choosing our product.

The system is a creative VAR system with video camera, alarm system and record in Pc facilites all-in-one; it is a perfect combination of alarm and surveillance system; it overcomes the disadvantage of the alarm system that it could not take the evidence as well as the camera that it could not inform of master in real time;

● It is the only one network video recording gsm alarm system, supports 4 cameras; with all the functions of GSM/PSTN alarm system; and at the same time, it could be worked as a PC-DVR recorder;

● The product has voice instruction for every step, easy and convenient to use; it is widely used in shops, villas, schools, buildings, office and small factories.

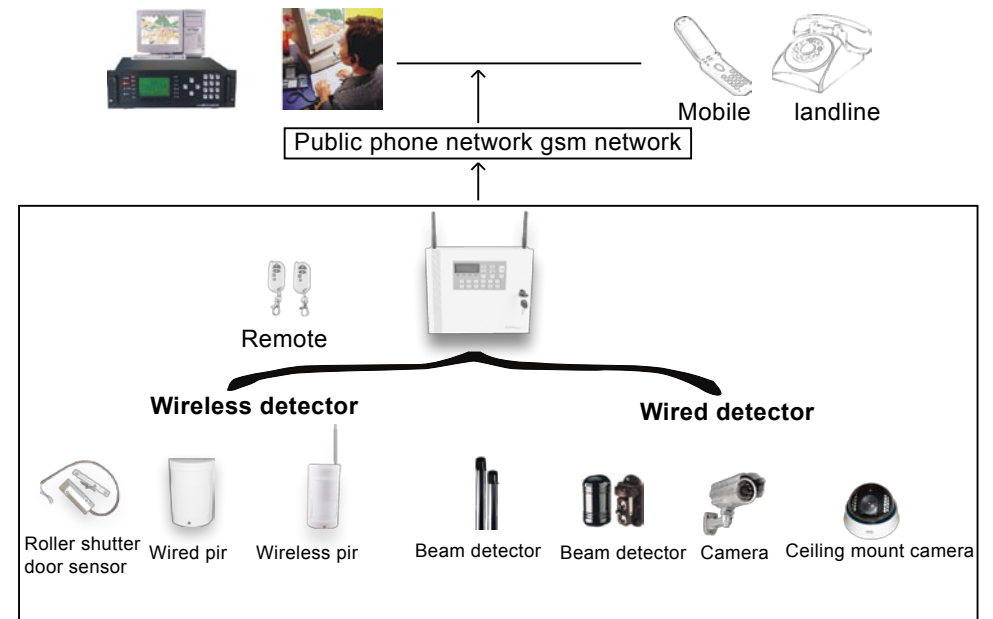# Catalogue

•Functions As An Alarm System•

Overview

1. LCD display everything you want to know about the panel.

2. Full compliance with the International standard protocol--Ademco Contact ID.

3. 85 event log about arming, disarming, and alarming, all viewable directly on the LCD.

4. 12 seconds user recording voice message.

5. Any detector can be doorbell when disarmed, and any detector can be set to locally alarm(do not dial out)in disarmed mode.

6. Monitor the old, the sick and the important place: when the old doesn't move, or the important warehouse hasn't human presence for a period of time, the panel will alarm.

7. Any zone feature programmable (including: watchdog zone, exit/ entry delay, 24 hours zone, sounder/silent when alarming, armed/ part armed zone, sensor/no sensor in the zone).

8. Panel can receive the detector low voltage signal and display zone number and detector number on the LCD and sound a beep.

9. Support wired detectors and alarm output terminals on the back.

10. 6 time points of timed Auto-arm/disarm(24 hour mode).

11. Wireless detector installing test.

12. Speak and listen in function.

13. Away arming with sounder ON.

14. Any zone can be set to arm/disarm separately (except 24-hour zone).

15. Built-in 12V7Ah storage battery, which could power for 8pcs beam detectors; battery backup when main fails.

Basic Principle of Operation

The below chart shows the basic principle of operation of the system. The security system contains alarm panel, remote Key Fob's, PIR detectors, Door/Window magnetic contact and high decibel integral siren.

Also available are some optional devices such as wired/wireless Smoke detectors, Gas detector, Flood detector, water level detector, Temperature detector. All detectors and Control Panel work under correspondong frequency and each detector has an approximate range of 50 metres dependent on the local enviroment.

Mobile   landline

Public phone network gsm network

Remote

Wireless detector   **Wired detector**

Roller shutter door sensor   Wired pir   Wireless pir   Beam detector   Beam detector   Camera   Ceiling mount camera

Component

Number	Name	Quantity	Number	Name	Quantity
1	Control panel (with storage battery)	1	4	Key	2
2	Remote controller	2	5	Fuse	4
3	Antenna	2	6	User manual	1

Wireless Remote(Metal)

Transmitting indicator
Disarm:disarm all detectors or stop alarming.
Away arm: arm all the registered detectors.
Stay arm: arm all the detectors of external zones.
SOS: Ask for assistance in case of robbery or medical help, etc.

Technical parameters

Working voltage	12V DC
Quiescent current	0μA
Working current	<20mA
Transmitting frequency	433MHz±0.5MHz
Wireless transmitting distance (in the open air)	≥50m

Tips

Place it out of children's reach in case of lost and misoperation.

Alarm control panel with 4 channel IP camera

The Front View

Power LED:	ON: AC powered.
	OFF: No AC powered, battery powered.
Alarm LED:	ON: there is alarm happened.
	OFF: No alarm happened yet.
Stay LED:	ON: panel is partially arm the exterior zones only.
	OFF: not stay armed.
Away LED:	ON: panel is armed both interior and exterior zone.
	OFF: not part armed.
	Flash: the delayed arm zone is in the process of delay arming.

PROG VOICE — Program key; press and hold it for 2 seconds to turn on/off voice.

ESC DISARM — Escape from any operation; disarm the panel or disactivate the alarming.

DEL SENSOR — Delete data; program the sensor's feature

EVENT T-SMS — Panel event log info. including: arm\disarm\alarm…;Send the SMS setting info to user by pressing and holding it for 2 seconds.

ARM — Away arm the panel or stay arm the panel by pressing and holding it for 2 seconds.

PANIC — Activate the panic alarm by pressing and holding it for 2 seconds

MEDICAL — Activate medical alarm by pressing and holding it for 2 seconds.

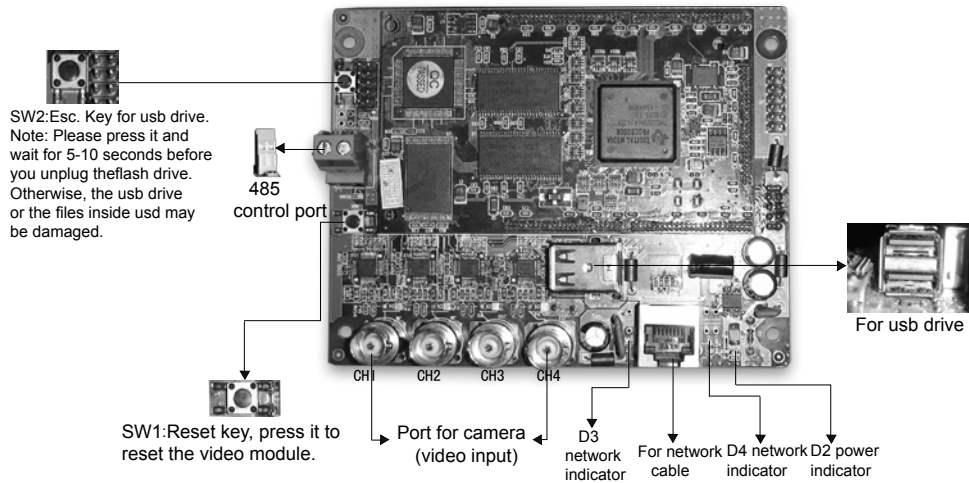**FIRE** — Activate Fire alarm by pressing and holding it for 2 seconds.

* R-SMS — Press and hold it for 2 seconds to go to SMS receiving status, Panel time would auto be updated according to the sms received.

0 OGM — Playback the OGM; press and hold it over 2 seconds into record the OGM.

 # ◄)) — Testing status; press and hold it for 2 seconds to turn the internal siren on/off.
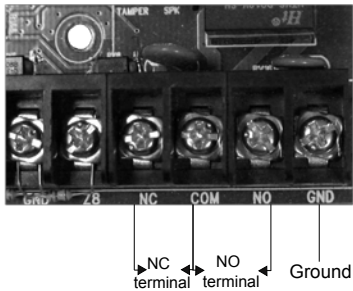
Inside view of the control panel

A、Video module board illustration

SW2:Esc. Key for usb drive.
Note: Please press it and
wait for 5-10 seconds before
you unplug theflash drive.
Otherwise, the usb drive
or the files inside usd may
be damaged.

485
control port

For usb drive

SW1:Reset key, press it to
reset the video module.

CH1 CH2 CH3 CH4

Port for camera
(video input)

D3
network
indicator

For network
cable

D4 network
indicator

D2 power
indicator

B. Main board connection illustration

①GND--NC:

Terminals at the lower left
corner of the board.
Alarm output: Drive the
relay to turn on/off when
panel alarms. it could be
used to control lamp or
other device.

NC
terminal

NO
terminal

Ground

② Z8--Z1:

Wired signal input
terminal.

③ PHONE--AUX:

AUX 12V_A.O.1 GND 12V_A.O.2 TIF RING PHONE

12v output to power
various detectors

output 12v when alarm (if
alarm output is not enabled,
you could text to drive the output)

Incoming phone line
from telecommunication.

Telephone
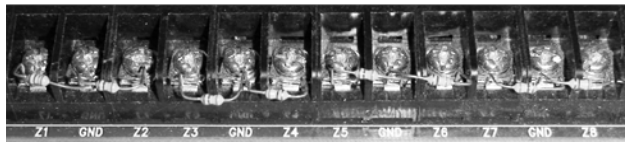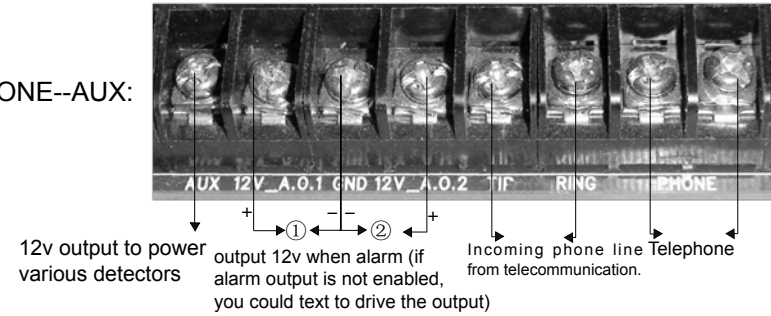
GND terminal: Pleae kindly pay attention to the + and -, otherwise the
device could be damaged.

④ GND--AC:

AC AC BELL GND SW AUX GND

Power in

Siren

12v output
when armed

C.Main power terminal

⚠ Do not touch it.

Fuse

live wire

Ground wire

D.Control Panel Installation

Step 1: Install Antenna

1.Take down protection cap

2.Tighten the antenna

3.Installation completed

1. Push the cover leftward and open the simcard holder.
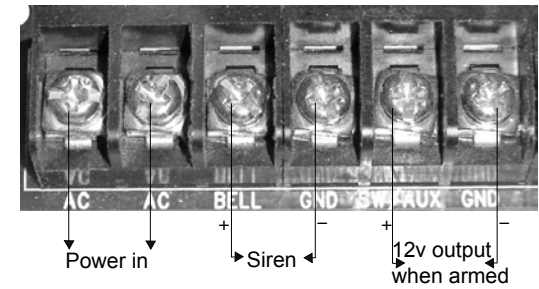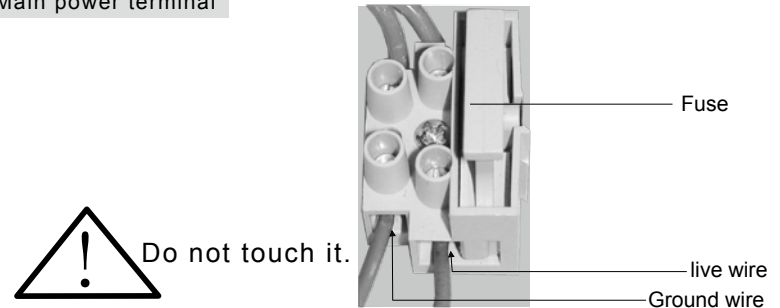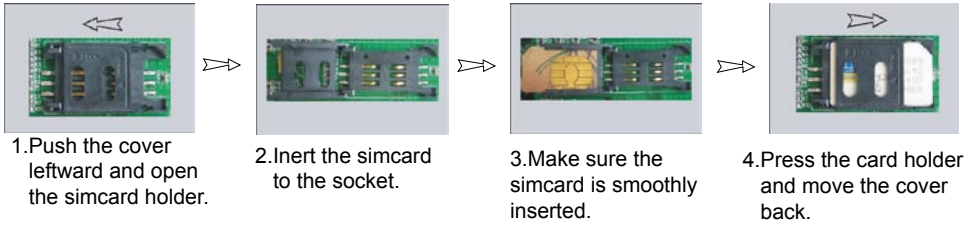
2. Inert the simcard to the socket.

3. Make sure the simcard is smoothly inserted.

4. Press the card holder and move the cover back.

Step 3: Fix the battery

1. The battery's red side is positive, while its black one is negative.

2. Plug the black wire to the battery's black side.

3. Plug the red wire to the battery's red side.

Other optional detector

Camera

Infrared beam detector

roller shutter door sensor

Wired pir

Wireless pir

Smoke/Gas detector

Two ways to connect beam detector

The 2 detectors are used as one zone, so they are suggested to use in the same or adjacent area.

Z1 GND Z2 Z3 GND Z4 Z5 GND Z6 Z7 GND Z8

EOL EOL

DC power Tamper — Beam detector Alarm Receiver — NC
DC power EOL Tamper — Beam detector Alarm Receiver — NO

NC COM NO TAMPER

If you need to use more than 8pcs wired detectors, you could connect 2 wired detectors in series to one terminal. The 2 detectors are used as one zone, so they are suggested to use in the same or adjacent area.

NO
EOL
EOL
COM COM

EOL Standard wired detector terminal

NC COM NO TAMPER

EOL is the end of line resistor, it is installed inside the detector in series (NC) or in parallel (NO) the resistor is used to prevent damages to sensors from remote end; Please kindly refer to the picture to connect the EOL resistor.

NC/NO door sensor connection

AUX
GND

12v power

Multi NC detectors connected in series

Multi NC detectors connected in series
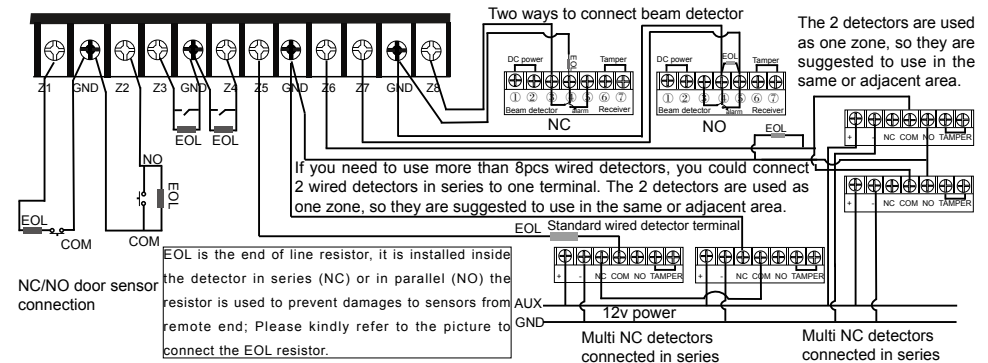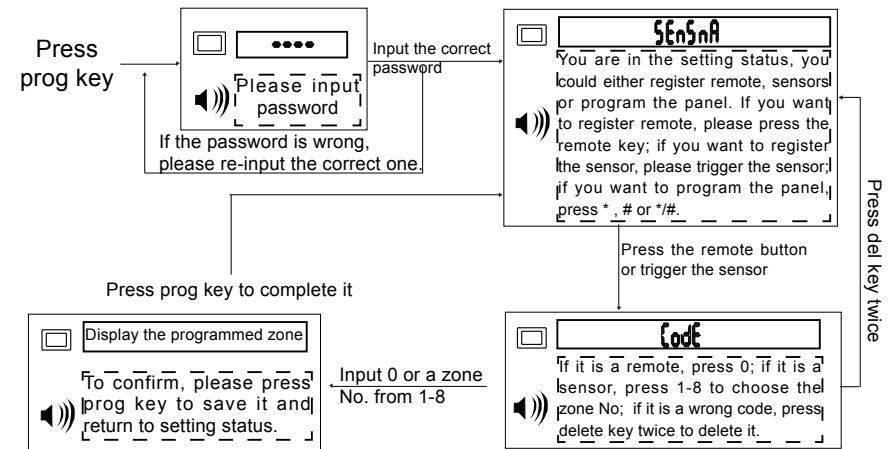
Please kindly refer to page 27 for detailed illustration.

Simple Operation Instruction

A.Remote/detector registration

Note The control panel voice prompt is default off; if necessary you could turn it on by long pressing the prog key for 5 seconds.

Press prog key

Please input password

If the password is wrong, please re-input the correct one.

Input the correct password

SEnSnA

You are in the setting status, you could either register remote, sensors or program the panel. If you want to register remote, please press the remote key; if you want to register the sensor, please trigger the sensor; if you want to program the panel, press * , # or */#.

Press the remote button or trigger the sensor

Press del key twice

CodE

If it is a remote, press 0; if it is a sensor, press 1-8 to choose the zone No; if it is a wrong code, press delete key twice to delete it.

Display the programmed zone

To confirm, please press prog key to save it and return to setting status.

Input 0 or a zone No. from 1-8

Press prog key to complete it

B.Wired detector registration

Various wired detector could be connected to the panel via the N.C contact. 8 wired connections in all, and the contacts for connection are terminals Z1-Z8; GND is the common ground terminal.

Zone setting: After connecting well the wired detector to the panel, press

the PROG key on the keypad, a series of ----- appear on the LCD. Enter the PIN code or press the Disarm key on a registered key fob and the word 'Sensor' will appear on the LCD. Trigger the detector you wish to register, the panel will receive the detectors code and the word 'CODE' will appear on the LCD. Pressing a numeric key 1 to 8 on the Keypad will select the Zone you wish to allocate the detector.

(Also you could first fix two leads to one of Z1 to Z8 and GND, then connect them together. Disconnect them when triggered, and then replace it with a wired detector after registration.)
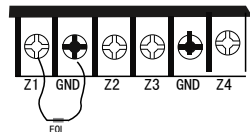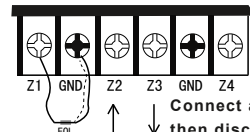
1.Connect the metal/copper wire(with a EOL in series) to Z1.
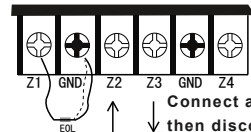
2.Prog key --- password ----- connect the other side of the wire to GND. Disconnect it in one second, and panel shows CODE ---- choose the zone No. 1-8 --- at last, press prog key.

Connect and then disconnect

3.Connect the wire to GND, the panel lcd would show the zone No. detector No, or panel would alarm if it is in armed mode.

Connect and then disconnect
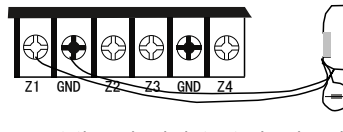
4.Connect the wired detector's signal wire to z1 and gnd, and connect EOL in series inside the detector; so when the burglar cut between the signal wire, panel would also alarm.

C.Check registered Sensor

Press the # key on the keypad, the LCD displays word TEST,; at this time, activate a detector, a bleep noise will be heard confirming the control panel has received the signal from the detector and the LCD will display the Detector registration No and its Zone allocation e.g. Acivate Detector No 2 in
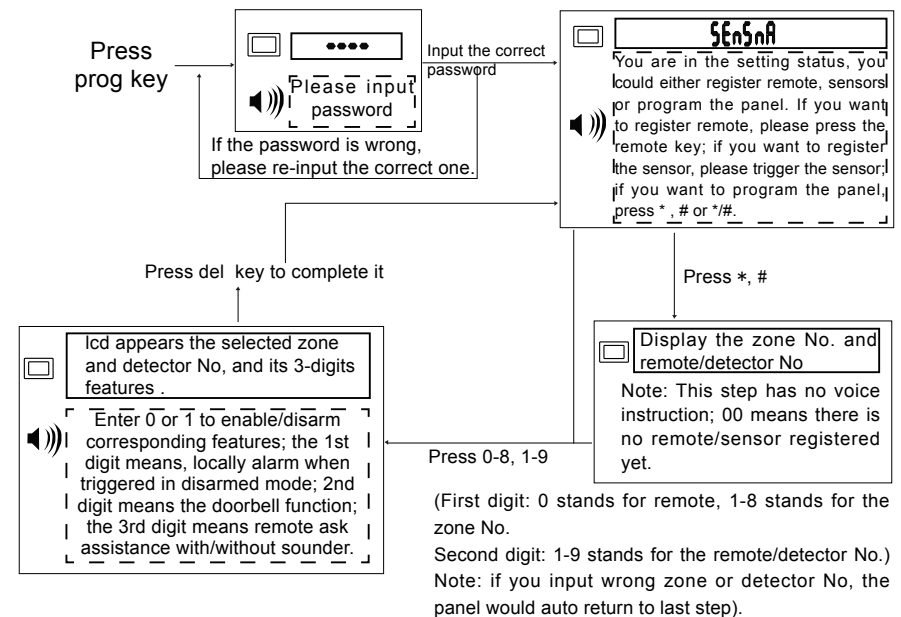
Zone 3 the LCD will display Zone 3   2. Refer to the below figure.

Press the key fob Disarm key will return the control panel back to normal status. Otherwise the Walk Test will Auto extinguish approximately 30 seconds after last test signal was received.

D.Delete registered remotes and detectors

Note   The control panel voice prompt is default off; if necessary you could turn it on by long pressing the prog key for 5 seconds.

Press prog key

Please input password

If the password is wrong, please re-input the correct one.

Input the correct password

SEnSnA

You are in the setting status, you could either register remote, sensors or program the panel. If you want to register remote, please press the remote key; if you want to register the sensor, please trigger the sensor; if you want to program the panel, press * , # or */#.

Press *, #

Display the zone No. and remote/detector No

Note: This step has no voice instruction; 00 means there is no remote/sensor registered yet.

Press del key to complete it

lcd appears the selected zone and detector No, and its 3-digits features .

Enter 0 or 1 to enable/disarm corresponding features; the 1st digit means, locally alarm when triggered in disarmed mode; 2nd digit means the doorbell function; the 3rd digit means remote ask assistance with/without sounder.

Press 0-8, 1-9

(First digit: 0 stands for remote, 1-8 stands for the zone No.
Second digit: 1-9 stands for the remote/detector No.)
Note: if you input wrong zone or detector No, the panel would auto return to last step).

E.Zone setting and allocation

The alarm system has 8 zones which can be configured depending on your requirements. The Factory Default Zone configuration settings are as follows:

No 1 Zone Fire(24 hours) No 5 Zone exterior intruder

No 2 Zone Panic(24hours) No 6 Zone exterior intruder

No 3 Zone entry/exit No 7 Interior Zone

No 4 Zone exterior intruder No.8 zone watchdog

How To Allocate and Set Zones: Press the PROG key on the Keypad, a series of - - - will appear on the LCD. Press the Arming key on any current registered Key Fob or entering the preprogrammed PIN code, and the word 'Sensor' will appear on the LCD. Pressing the * key on the Keypad, the LCD will show the words 'Zone type', pressing No1 to 8 numeric key to select corresponding zone, then pressing the 0 or 1 numeric Keypad to configure all the fields in this zone. At the end, press the PROG key to complete and save operating.
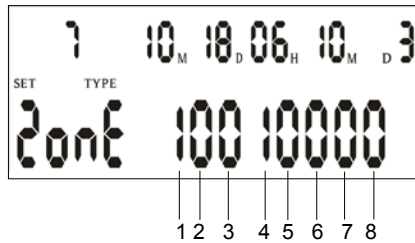
Tips: Try to avoid changing the zone feature and use it as it is.

| 1	1:watchdog zone	0: not a watchdog zone
2	1: exit delay	0: no exit delay
3	1:entry delay	0:no entry delay
4	1:24 hours zone	0: not a 24 hours zone
5	1:sounder when alarming	0:silent when alarming
6	1:exterior zone	0: interior zone
7	1:drive the 2nd relay when alarming	0: not drive 2nd relay when alarming
8	1:drive the 1st relay when alarming	0:not drive the 1st relay when alarming

The above picture suggested Zone 7 selected is a Watchdog Zone programmed without entry or exit time, it's a 24 hour Zone, interior zone and

silent when alarming, N.B. For a more detailed example refer to section Zone Configuration and Explanation.

If no further actions take place the panel will automatically return to normal state after approximately 30 seconds. Otherwise at the end, press the disarm key on a registered Key Fob to return the panel to normal state.
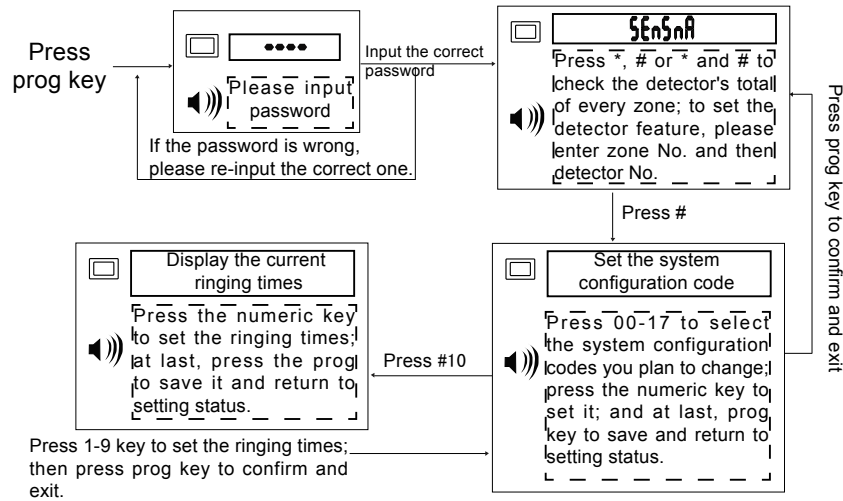
F.Set phone Number

Note The control panel voice prompt is default off; if necessary you could turn it on by long pressing the prog key for 5 seconds.
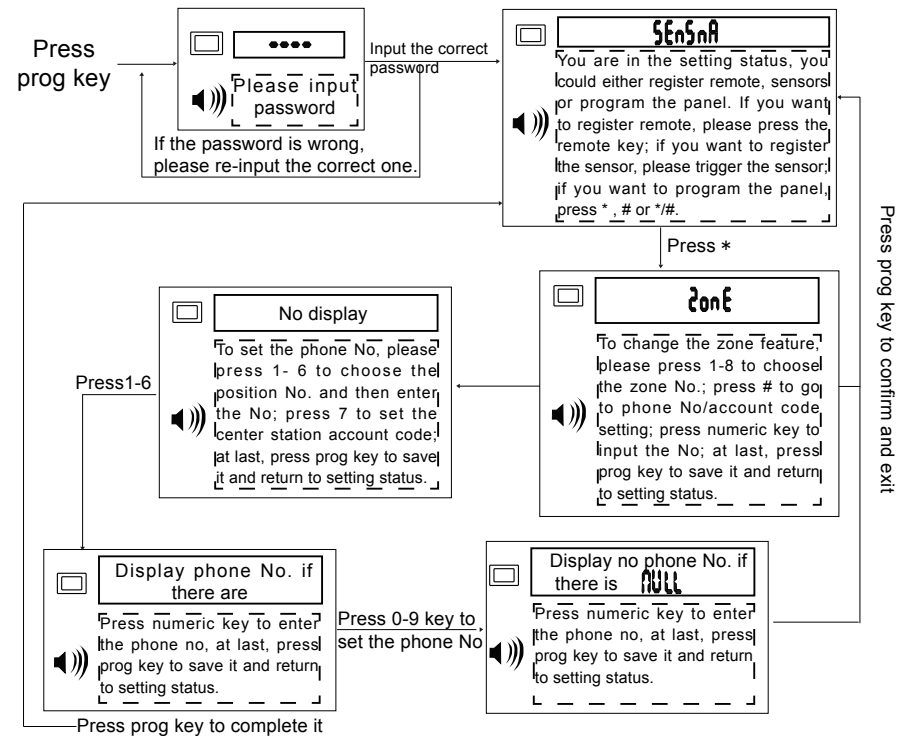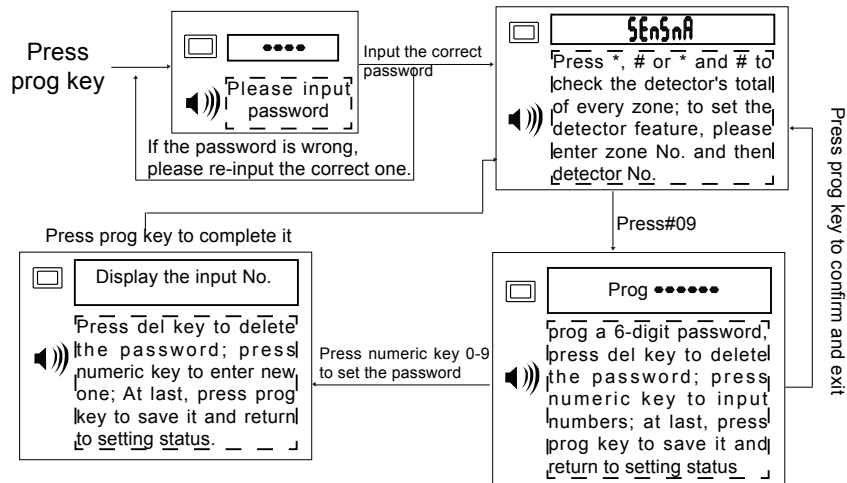
G.Set times of ringing

Note The control panel voice prompt is default off; if necessary you could turn it on by long pressing the prog key for 5 seconds.

Press prog key →

| ●●●● |
| Please input password |

If the password is wrong, please re-input the correct one.

Input the correct password →

SEnSnA

Press *, # or * and # to check the detector's total of every zone; to set the detector feature, please enter zone No. and then detector No.

Press prog key to confirm and exit

Press #

Set the system configuration code

Press 00-17 to select the system configuration codes you plan to change; press the numeric key to set it; and at last, prog key to save and return to setting status.

Press #10

Display the current ringing times

Press the numeric key to set the ringing times; at last, press the prog to save it and return to setting status.

Press 1-9 key to set the ringing times; then press prog key to confirm and exit.

H.Set user password

Note The control panel voice prompt is default off; if necessary you could turn it on by long pressing the prog key for 5 seconds.

Press prog key →

| ●●●● |
| Please input password |

If the password is wrong, please re-input the correct one.

Input the correct password →

SEnSnA

Press *, # or * and # to check the detector's total of every zone; to set the detector feature, please enter zone No. and then detector No.

Press prog key to confirm and exit

Press#09

Prog ●●●●●●

prog a 6-digit password, press del key to delete the password; press numeric key to input numbers; at last, press prog key to save it and return to setting status

Press numeric key 0-9 to set the password

Display the input No.

Press del key to delete the password; press numeric key to enter new one; At last, press prog key to save it and return to setting status.

Press prog key to complete it

Note: The factory default password is 123456; the password could be changed but could not be deleted.Password is used to remotely control the panel, disarm the panel and get access to the panel setting.

I.Voice message recording and playback

Function: When the panel alarms, it will auto dial the user's telephone numbers. When the user picks up the phone, he can listen to the recorded alarming message, which informs the user what happens. The user can press 9 to replay the message.

How to record/play the message: In the disarmed status, press the 0 and hold it for 2 seconds. The panel LCD will display COPY. At this time, you can record the alarming message now. The recording time is 12 seconds.

Press 0, you can hear the recorded message.

J.Program the text of every zone/alarm

Sending the SMS to the panel by the mobile phone, program the SMS: "12345601the first zone fire active"(123456 is the factory default password, if you have already changed it, use the new one),---then press the * key and hold it for about 2 seconds, the U display in the panel---then you send the SMS---the panel will sound 1,2 or 3 when receiving it. 1 means correct, 2 means password is wrong, 3 means serial No is wrong. When panel sounds 1, that means zone 1 text is successfully set. Then when detectors in zone one alarm, you will receive the text "first zone fire active".

Program the sms for other zone/alarm:

xxxxxx01 the first zone fire alarm
xxxxxx02 zone two active, panic alarm
xxxxxx03 zone three active, the exit\entry zone alarm
xxxxxx04 zone four alarming
xxxxxx05 zone five alarming
xxxxxx06 zone six alarming
xxxxxx07 zone seven active, interior zone alarm
xxxxxx08 zone eight activated, watchdog zone alarm
xxxxxx09 remote panic alarm
xxxxxx10 tamper alarm
xxxxxx11 phone line cut alarm
xxxxxx12 main fails alarm
xxxxxx13 pin code input wrong for 3 times
xxxxxx14 main resumes

Note: 1. the above text includes: password + text serial No. + content, no blank space in the text.all the text content are programmed by yourself.

K.Check the text setting status of each zone

Press the event/disarm key and hold it for 2 seconds, the "GSM" on LCD would flash. This indicates the panel is sending all the programmed sms to the phone numbers.

If your mobile receives "01 02 03,set sms ok" -----this indicates: the text of zone 1 2 3 have been set.

If your mobile receives "01 05 13,set sms ok" -----this indicate: the text of zone 01 05 13 have been set.

If your mobile receives "no sms" --- that means you have not set any text.

L.Access the panel from a remote phone (landline or mobile).

The remote control enables the use of the land line phone or mobile phone to remotely control panel. Call the phone number of the simcard/landline No. connected to the alarm panel, and then enter the pre-programmed 6 digit PIN code on the phone keypad to gain access to the Panel.

After entering correct PIN code the panel will follow the instructions given using the DTMF tones from the keypad of the remote phone..

Press 1 to tell the panel to switch to listen in mode
Press 2 to tell the panel to switch to speak mode
Press 3 to tell the panel to switch its sounder ON
Press 4 to tell the panel to switch listening in OFF
Press 5 to tell the panel to terminate the call, dis-engage the phone line
         and re-Arm the system
Press 6 to tell the panel to switch its sounder OFF
Press 7 to tell the panel to ARM
Press 8 to tell the panel to DIS ARM

M.Alarm confirming.

When the panel alarms and dials the user phone number and the user answers the telephone, he can hear the recorded voice message, he presses the * key on USER hand set to confirm the alarm, on doing so, he can hear which zone which detector is alarming and then user can press 1 to listen in, press 4 to turn off the listen in, 2 to speak, 3 to turn on the siren 5 to hang up, 6 to turn off the siren 7 to arm, and 8 to disarm. (same as 4.9)

If after 15 seconds the user does not press the * key to confirm the alarm, the panel will auto-dial next phone number.
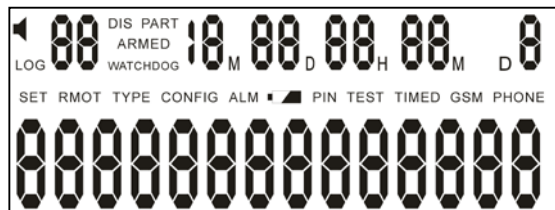
N.LCD Description

Display---audible alarm   Disappear---silent alarm

Character	Meaning	Character	Meaning
Arm	Panel armed	Prog	Display during the programming status
Disarm	Panel disarmed	Zone type	Display during the zone setting
Stay arm	Panel stay armed	System config	Display during the system configuration
Arming	In the arming process	GSM	Flash: texting Keeping on: dialing out
No	Event log	▬	Battery low voltage
Alarm		PIN	Display when the pin is required
		Test	Walking test
		Timed	Timed auto arm/disarm
M D H M	Moth/day/hour/mintue	C.S.	Center station
W	Weekday	No.	Phone no.

LCD display in standby status

} Gsm signal strength: Low

Explanation:

◀   Audible alarm mode
85:   85pcs event log (including arm, disarm and alarm)
10:   The current time 18:52 on 8th, Oct
2:   Tuesday
Timed: Timed auto arm/disarm time has been set
02:   There are 2 new alarm info. Have not be checked yet
1:   Zone 1 is armed in disarmed mode, that means, zone 1 is 24 hours zone

83 ARMED 10.28. 18.35. .6

1234 78 : } Gsm signal strength: Middle

◀ Audible alarm mode

83: 83pcs event log (including arm, disarm and alarm)

1234 78: zone 123478 armed; zone 5.6 are not armed due to no sensors in the 2 zones

LCD display when the panel is alarming

83 10. 18.06. 10. .3
ALM
ZonE 3 2 : } Gsm signal strength: High

It means the detector 2 in zone 3 alarms at 6:19 on 18th, Oct.

Common Operation Guide

A.View The Event Log

Events refer to occurrences taking place within your system, such as, which remote Armed or Dis-Armed the system and when. If an alarm occurred, which detector in which Zone activated the alarm and when.

How To View The Event Record: Press the event key on the keypad, the panel LCD will show the latest event, Use * and # keys to scroll up and down the event log. When all the latest events viewed, the alarm led would go off.

Note: the top line always shows the latest event information.

LCD displays when the remote panic alarms

83 10. 18.06. 10. .3
RMOT ALM
1

It means the 83rd event is: the first remote panic alarmed at 06:10 on 18th Oct.

LCD displays when you arm the panel from the remote

83 ARMED 10. 18.06. 10. .3
RMOT
2

It means the 83rd event is: the 2nd remote away armed the system at 06:10 on 18th Oct.

LCD displays when you arm the panel from the keypad on the panel

83 ARMED 10. 18.06. 10. .3
RMOT
0

It means the 83rd event is: the panel is away armed from the keypad on the panel at 06:10 on 18th Oct.

LCD displays when the phone line is disconnected

83 10. 18.06. 10. .3
ALM
Ln····

It means the 83rd event is: the panel alarmed on the panel at 06:10 on 18th Oct due to telephone line is disconnected.

LCD displays when the panel tamper alarms
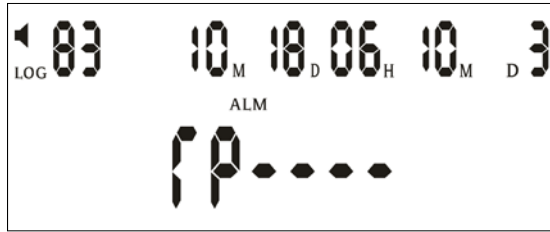
It means the 83rd event is: the panel tamper alarm at 06:10 on 18th Oct.

LCD displays when you main fails
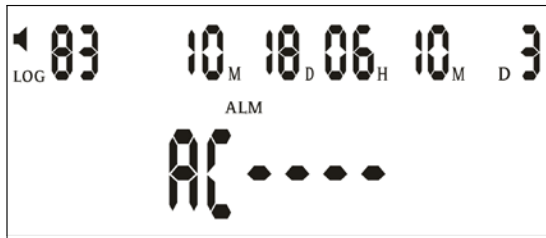
It means the 83rd event is: the panel's main fails at 06:10 on 18th Oct.

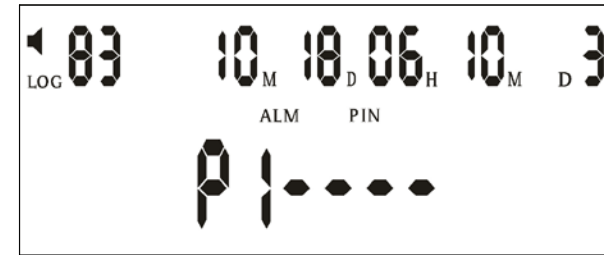## LCD displays when the wireless detector alarms

It means the 83rd event is: the detector No.2 in zone 3 alarmed at 06:10 on 18th Oct.
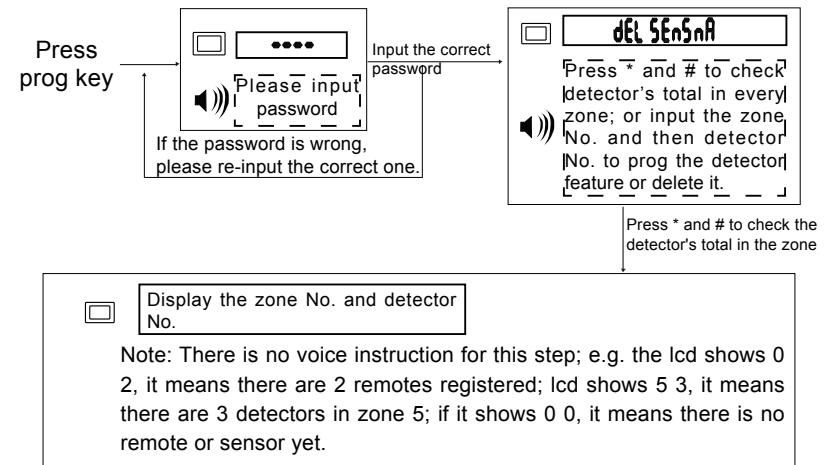
LCD displays when wired detector alarms

It means the 83rd event is: the wired detector No.1 in zone 3 alarmed at 06:10 on 18th Oct.

LCD displays when wrong password is attempted 3 times

It means the 83rd event is: panel alarmed at 06:10 on 18th Oct. due to wrong password is attempted 3 times.

B.View detector's total in every zone

Note The control panel voice prompt is default off; if necessary you could turn it on by long pressing the prog key for 5 seconds.

Note: There is no voice instruction for this step; e.g. the lcd shows 0 2, it means there are 2 remotes registered; lcd shows 5 3, it means there are 3 detectors in zone 5; if it shows 0 0, it means there is no remote or sensor yet.

C.Set detector's feature

Function: You could set any detector to sound the siren locally but (not dial out) in disarm mode; also you could set any detector to sound doorbell sound in disarm mode.

Press prog key → Please input password | Input the correct password → dEL SEnSnA
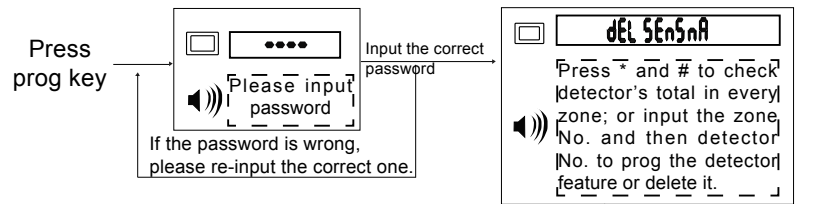
Press * and # to check detector's total in every zone; or input the zone No. and then detector No. to prog the detector feature or delete it.

If the password is wrong, please re-input the correct one.

Press 1-8 to choose the zone No; then 1-9 to choose the detector No.

Icd displays the zone No detector No and 3 digits

Prog the 1st digit to set detector locally alarm when disarm; second to set doorbell feature; and 3rd to set remote require assistant without sounder.

Press prog key to exit ← Input 0 or 1 to set the 3 features

LOG ◀ 83   10 M   18 D   06 H   10 M   D 3

2onE 3 2 000
         1 2 3
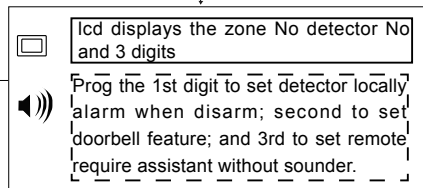
1, 2 are programmable detector features;

Number 3 is a programmable Key Fob feature.

1. 1 = Local alarm only when disarmed;

    0 = normal

2. 1 = Detector will be Door Bell when disarmed;

    0 = Normal

3. 1 = Key Fob Request assistance with sounder;

    0 = Key fob Request assistance no sounder.
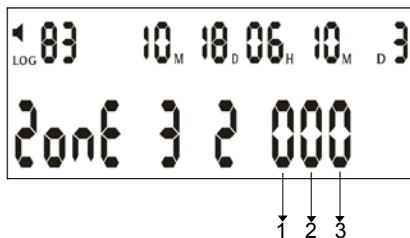
D.Set Audible or Silent alarm

How to set the function: Press the # key for 2 seconds when the panel is in disarmed mode, the symbol of speaker displays or disappears; When it displays, the panel would alarm with sounder ON, while when it disppears, the panel will alarm silently.

Note: 1.Whether the key fob alarms with/without sounder subiects to its own configuration. When the panel is set with silent alarm, the key fob will still be sounder alarm if it is set with sounder alarm.

2. This setting is for the whole system; when this setting is set to be silent, while the zone setting is set to be audible alarm for that zone; when the zone is activated, it is still silent alarming.

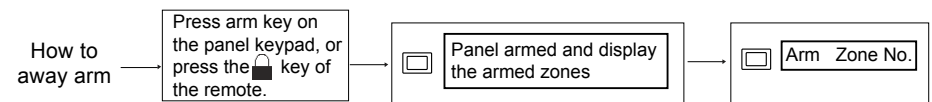## E.Selectable Detector Alarm Local only or Local and auto dial.

This facility allows particular detectors in each Zone to be local alarm only or local alarm and auto dial; Each detector can be configured differently e.g. local Alarm only or local Alarm and auto dial, door bell function.

How to program this function: Press 'Delete' key and - - - appears on the LCD. Press registered Key Fob or entering the programmed password, LCD will display 'DEL Sensor' Use Key pad to select Zone(s) 1 to 8, and then use Key pad to select detector(s) 1 to 9. Program each of the 3 fields of the detector with 0 or 1 to suit. At last, press prog key to save it and exit.
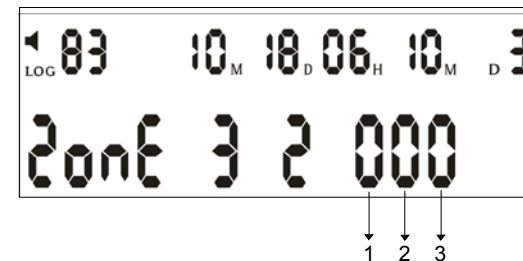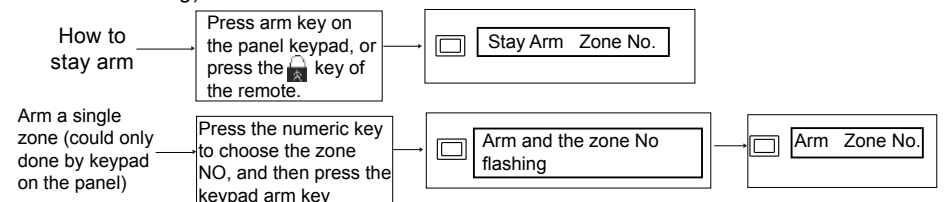
LOG ◀ 83   10 M   18 D   06 H   10 M   D 3

2onE 3 2 000
         1 2 3

1. 1 = Local alarm only when disarmed;   0 = Normal
2. 1 = Detector will be Door Bell when disarmed;   0 = Normal
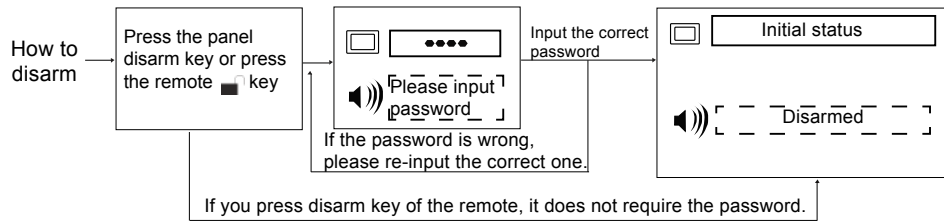3. 1 = Key Fob Request assistance with sounder;   0 = Key fob Request assistance no sounder.

F. How to arm

How to away arm → Press arm key on the panel keypad, or press the 🔒 key of the remote. → Panel armed and display the armed zones → Arm Zone No.

Note   When you away arm the system, siren would sound if you already program the panel to sound siren when away arm. (Please refer to page ? for this setting).
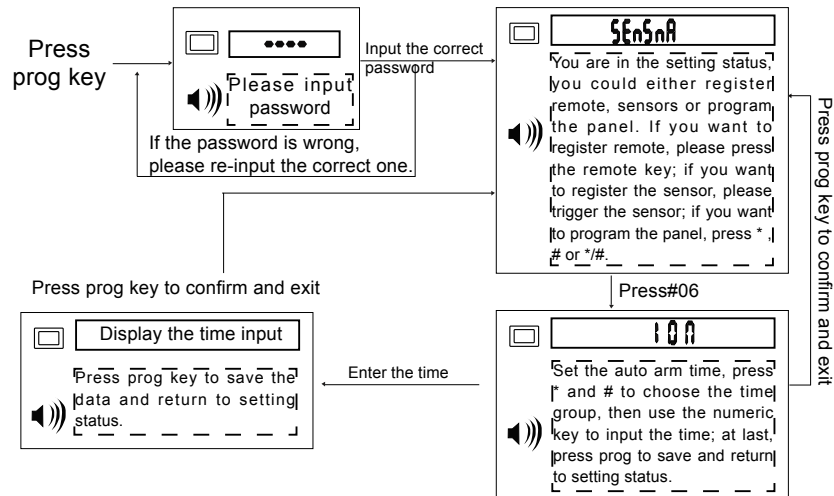
How to stay arm → Press arm key on the panel keypad, or press the 🔒 key of the remote. → Stay Arm   Zone No.

Arm a single zone (could only done by keypad on the panel) → Press the numeric key to choose the zone NO, and then press the keypad arm key → Arm and the zone No flashing → Arm Zone No.

G. How to disarm

How to disarm → Press the panel disarm key or press the remote ◼ key → [Display] •••• ◀)) Please input password / If the password is wrong, please re-input the correct one. → Input the correct password → [Display] Initial status / ◀)) Disarmed

If you press disarm key of the remote, it does not require the password.

Note: Selective zone disarm could only disarm one zone one time.

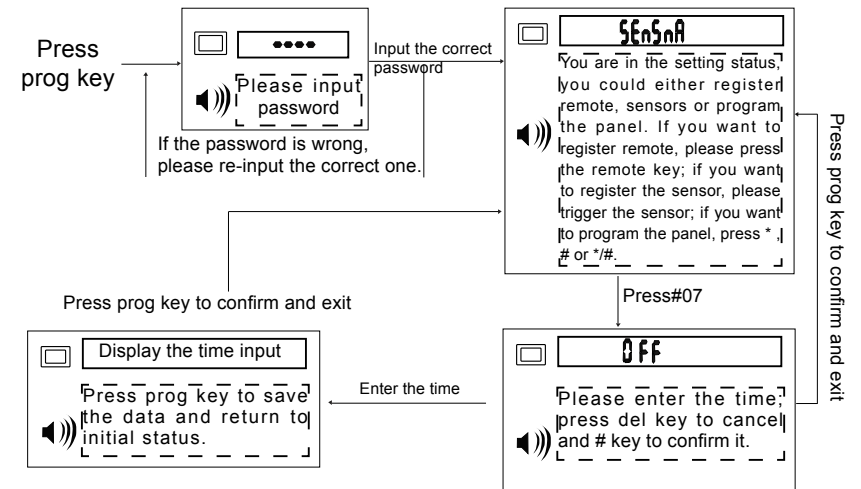**24 hours zone could not be disarmed.**

H.Set timed auto arm time

Note | The control panel voice prompt is default off; if necessary you could turn it on by long pressing the prog key for 5 seconds.

Press prog key → [Display] •••• ◀)) Please input password / If the password is wrong, please re-input the correct one. → Input the correct password → SEnSnA ◀)) You are in the setting status, you could either register remote, sensors or program the panel. If you want to register remote, please press the remote key; if you want to register the sensor, please trigger the sensor; if you want to program the panel, press * , # or */#.

Press prog key to confirm and exit (right side)

Press#06 → I 0 A ◀)) Set the auto arm time, press * and # to choose the time group, then use the numeric key to input the time; at last, press prog to save and return to setting status.

Enter the time → Display the time input ◀)) Press prog key to save the data and return to setting status.

Press prog key to confirm and exit

Note: This setting is default for away arm; you could press arm key to switch

to stay arm.

I. Set timed auto disarm time

Note | The control panel voice prompt is default off; if necessary you could turn it on by long pressing the prog key for 5 seconds.

Press prog key → [Display] •••• ◀)) Please input password / If the password is wrong, please re-input the correct one. → Input the correct password → SEnSnA ◀)) You are in the setting status, you could either register remote, sensors or program the panel. If you want to register remote, please press the remote key; if you want to register the sensor, please trigger the sensor; if you want to program the panel, press * , # or */#.

Press prog key to confirm and exit (right side)

Press#07 → O FF ◀)) Please enter the time; press del key to cancel and # key to confirm it.

Enter the time → Display the time input ◀)) Press prog key to save the data and return to initial status.

Press prog key to confirm and exit

J. Main fails alarm

Note | The control panel voice prompt is default off; if necessary you could turn it on by long pressing the prog key for 5 seconds.
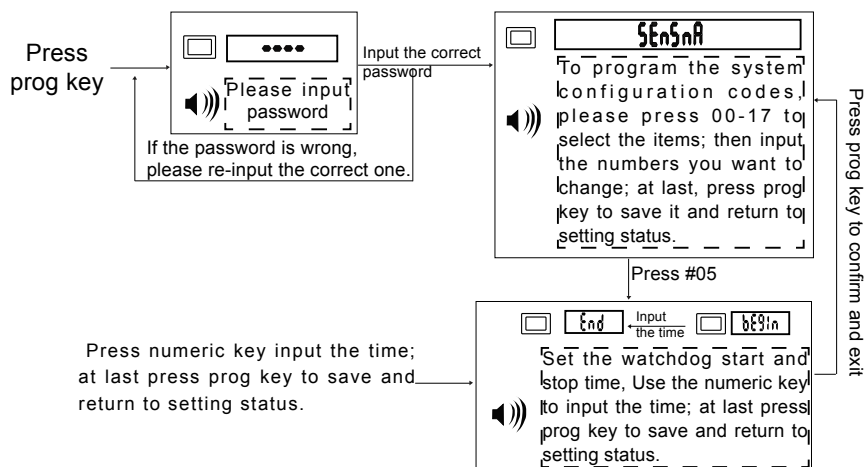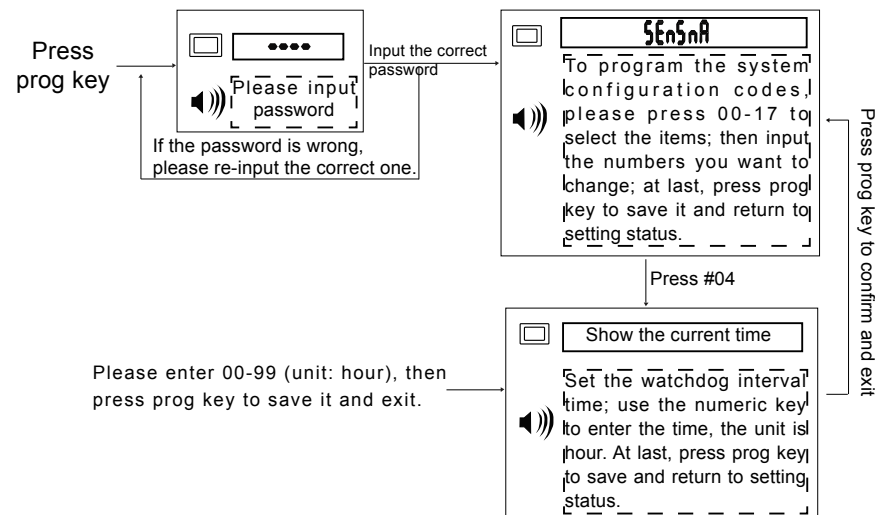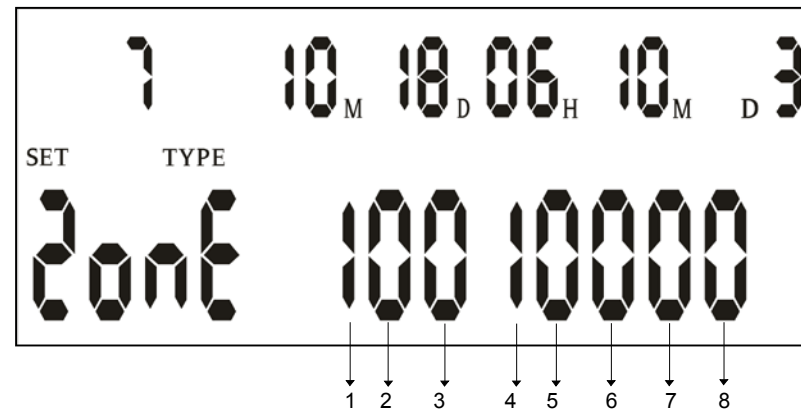
Press prog key → [Display] •••• ◀)) Please input password / If the password is wrong, please re-input the correct one. → Input the correct password → SEnSnA ◀)) You are in the setting status, you could either register remote, sensors or program the panel. If you want to register remote, please press the remote key; if you want to register the sensor, please trigger the sensor; if you want to program the panel, press * , # or */#.

Press prog key to confirm and exit (right side)

Press #14 → Show the current setting, 0 or 1 ◀)) Set power fail alarm 1. alarm when power fails. 0. not alarm when power fails. Press prog key to save the setting and return to setting status .

Press prog key to confirm and exit

K. Set away arm with siren on

The control panel voice prompt is default off; if necessary you could turn it on by long pressing the prog key for 5 seconds.

Press prog key → Please input password → Input the correct password → SEnSnA

To program the system configuration codes, please press 00-17 to select the items; then input the numbers you want to change; at last, press prog key to save it and return to setting status.

If the password is wrong, please re-input the correct one.

Press prog key to confirm and exit

Press #11

Show the current setting, 0 or 1

Set siren sound when away arm:
1: siren sound when away arm
0:siren not sound when away arm
Press prog key to save the setting and return to setting status.

Press 0 or 1 to set the function; at last, press prog key to confirm and exit.

L. Set watchdog start and stop time

The control panel voice prompt is default off; if necessary you could turn it on by long pressing the prog key for 5 seconds.

Press prog key → Please input password → Input the correct password → SEnSnA

To program the system configuration codes, please press 00-17 to select the items; then input the numbers you want to change; at last, press prog key to save it and return to setting status.

If the password is wrong, please re-input the correct one.

Press prog key to confirm and exit

Press #05

End ← Input the time → bEgin

Set the watchdog start and stop time, Use the numeric key to input the time; at last press prog key to save and return to setting status.

Press numeric key input the time; at last press prog key to save and return to setting status.

M. Set watchdog interval time (panel would alarm if no sensor of the watchdog zone is triggered within this programmed time).

The control panel voice prompt is default off; if necessary you could turn it on by long pressing the prog key for 5 seconds.

Press prog key → Please input password → Input the correct password → SEnSnA

To program the system configuration codes, please press 00-17 to select the items; then input the numbers you want to change; at last, press prog key to save it and return to setting status.

If the password is wrong, please re-input the correct one.

Press prog key to confirm and exit

Press #04

Show the current time

Set the watchdog interval time; use the numeric key to enter the time, the unit is hour. At last, press prog key to save and return to setting status.

Please enter 00-99 (unit: hour), then press prog key to save it and exit.

N. Zone setting and Explanation

1   10 M 18 D 06 H 10 M   D 3

SET   TYPE

ZonE   100 10000

1 2 3   4 5 6 7 8

1	1:watchdog zone	0: not a watchdog
2	1:exit delay	0: no exit delay
3	1: entry delay	0: no entry delay
4	1: 24 hours zone	0: not a 24 hours zone
5	1: sounder when alarming	0: silent when alarming
6	1: exterior zone	0: interior zone
7	1: drive the second alarm output	0: not drive the second alarm output
8	1: drive the first alarm output	0: not drive the first alarm output

The above picture means zone 3 is set to be /exit delay, sound the siren when alarming, and it is a exterior zone.

Setting Example

3   10. 18.06. 10. 3
STE   TYPE
ZonE 00001100
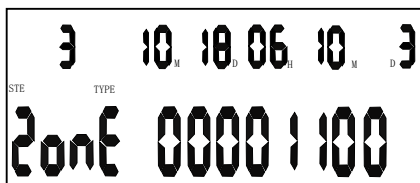
1. Change zone 3 to be without entry/exit delay, sound the siren when alarm, and exterior zone.

   Press prog key--- input the password --- press * key ---- press 3 (it means zone 3) ---- input 0 –0---0 in sequence ---- the rest does not need to change ---- press prog key.

3   10. 18.06. 10. 3
STE   TYPE
ZonE 01001100
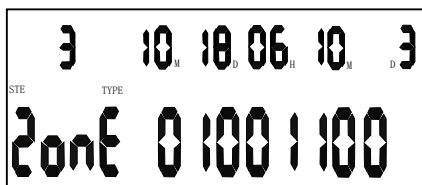
2. Change zone 3 to be without entry delay but with exit delay, sound the siren when alarm, and exterior zone.

   Press prog key--- input the password --- press * key ---- press 3 (it means zone 3) ---- input 0 –1---0 in sequence ---- the rest does not need to change ---- press prog key.

3   10. 18.06. 10. 3
STE   TYPE
ZonE 00001100
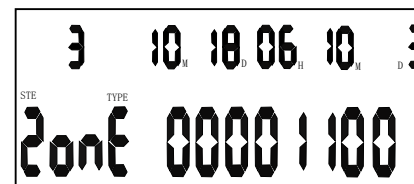
3. Change zone 3 to be without entry/exit delay, not sound the siren when alarm, and exterior zone.

   Press prog key--- input the password --- press * key ---- press 3 (it means zone 3) ---- input 0 –0---0----0---0----1 in sequence ---- the rest does not need to change ---- press prog key.

When this zone is triggered, the panel would not alarm even in audible alarm mode.

3   10. 18.06. 10. 3
STE   TYPE
ZonE 00011111
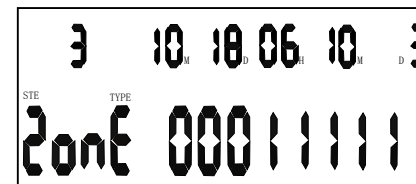
4. Change zone 3 to be without entry/exit delay, 24 hours zone, sound the siren when alarm, and exterior zone.

   Press prog key--- input the password --- press * key ---- press 3 (it means zone 3) ---- input 0---0---0--1--1--1--1--1 ---- press prog key.

Quick Reference

01	Exit delay time.	The initialization value is 06 = 30 seconds arm delay
02	Entry delay time	The initialization value is 04 = 20 seconds alarm delay
03	Sounder run time	The initialization value is 06 = 120 seconds
04	Watchdog interval time	Factory default value is 12hours
05	Watchdog start and stop time	Default setting is from 8:00 to 20:00
06	Set time to Arm. Press * or #	Select the time poitns(6 time points in all) enter the time desired. To cancel this set, press Delete key.
07	Set time to disarm	Press * or #, select the time point (6 time points in all) enter the time desired. To cancel this set, press Delete key.
08	Not available	
09	Change the password	6 digit code Cancel the password, use the Delete key
10	Set numbers of ringing in times	Default value is 8 times, min. 6 and max.9
11	Arming with sounder ON/OFF	0: no sounder when arming 1: sounder when arming default 0
12	Speak	0: No 1: YES default 0
13	Listen to dial out DTMF	0 = NO: 1 = YES. Default: 0
14	Mains Fail alarm	0 = NO ; 1 = YES. Default 0
15	Away arm delay with beep	0. no 1:yes default 0
16	Phone line cut alarm	0: NO 1: YES default 0
17	Not available	

18	Sensor low voltage with beep	0: no 1:Yes default 1
19	Main fails alarm with sounder	0: no 1:Yes default 1 (Effective when #14 is turned on)
20	Auto text and dial when alarm	0: no 1:yes default 1
21	Not available	
22	Set the year	Default is 10, year 2010
23	Not available	
24	Not available	
25	Not available	
26	Not available	
27	Sound the keypad tone	0: no 1:yes default: 1
28	Dial in to remote control	0: no 1:yes default 1
29	Dial from simcard when landline is connected	0: no 1:yes default 0
30	Reset the video module parameter setting	Press 7 to reset

Connection Diagram

Two ways to connect beam detector

The 2 detectors are used as one zone, so they are suggested to use in the same or adjacent area.

Multi NC detectors connected in series

Tamper
Receiver
EOL
Alarm
DC power
Beam detector
NO

Tamper
Receiver
EOL
Alarm
DC power
Beam detector
NC

If you need to use more than 8pcs wired detectors, you could connect 2 wired detectors in series to one terminal. The 2 detectors are used as one zone, so they are suggested to use in the same or adjacent area.

Standard wired detector terminal

Multi NC detectors connected in series

12v power

EOL is the end of line resistor, it is installed inside the detector in series (NC) or in parallel (NO) the resistor is used to prevent damages to sensors from remote end; Please kindly refer to the picture to connect the EOL resistor.

AUX
GND

Z8 GND Z7 Z6 GND Z5 Z4 GND Z3 Z2 GND Z1

EOL
EOL
NO
EOL
COM
COM
EOL

NC/NO door sensor connection

The right side.

•Monitoring firmwareIntroduction•

Basic operation of the software

A.Network connection diagram

Telephone line → Modem —Network cable→ Router
Network cable
PABX ←
Network cable   Network cable
PC   Our device

a

Telephone line
↓
Modem
Network cable
PABX
Network cable   Network cable
PC   Our device

b
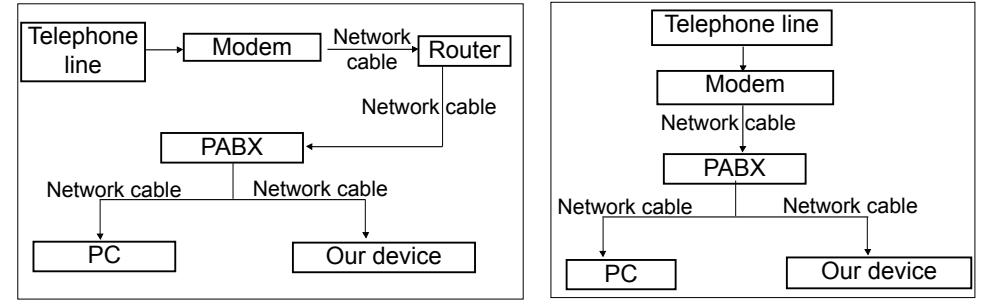
B.Firmware installation

Open the CD came with the product → Unzip the zipped file → IPClientPro.exe / IPClientPro Appl.
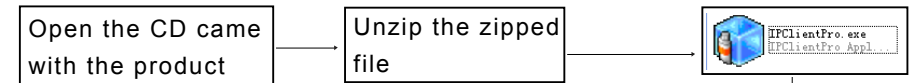
Please enter the account name and password, the factory default account name is: admin and leaving the password blank is okay.

PTZ control

WAN setting

LAN setting

Login

Basic setting and the management of video server

Video window

User   admin
Passv
Logon   Cancel

C.Firmware and device communication setting

a.Check the IP address

1. LAN search:
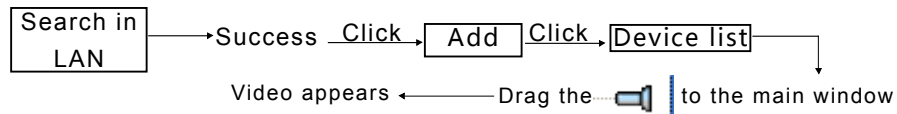
2. If the LAN search fails: it means the IP address segment of device and router are different; You could try the following solutions.

The following 3 ways to check the gateway of router or PABX .

①. Start ---- control panel --- network connection – click- local area connection--- check the info at the lower left corner

②. Start—run--- enter the cmdm command--- enter ipconfig –enter-- --splay-- local area connection--View the ip address

b .Change the device's IP address segment same as that of the router.

1. Set the gateway of the device:

E.g. the gateway of the local area connection is: 192.168.18.1, when you enter it to our panel, you need to make it 3 digits every segment, so it becomes: 192.168.018.001.

Press prog key in standby status--- input password 123456 ----- press * then # then 8--Press prog key to complete it --press 1--enter the gateway info: 192168018001.

2.Set the IP address of the device:

E.g. the IP address the local area network is: 192.168.18.1, when you enter it to our panel, you need to make it 3 digits every segment, so it becomes: 192.168.018. (valid from 002-255).

Press prog key in standby status--- Input password 123456 ----- press * then # then 8-----Enter the IP address: 192168018002 (note: the IP address could not be the same as that of the LAN)----Press 2 ----Press prog key to complete it

3.Set the subnet mask of the device:

E.g. the subnet mask of the local area network is: 255.255.255.0, when you enter it to our panel, you need to make it 3 digits every segment, so it becomes: 255.255.255.000

Press prog key in standby status---Input password 123456 ----- Press * then # then 8---- Enter the subnet mask value: 255.255.255.000------Press 3----Press prog key to complete it

D.Video Window Introduction

1.Video Window: This is the video display window of the network video server, and it shows the channel name, time, frame rate and server address in each video.

a.Function displayed on the screen:

C3: channel name; self-defined name is also addable

IP address: show the LAN/WAN IP address

Real time frame count: the real time frame No. transmitted every second for every channel.

b.Right click menu:

Close: close the picture

Recording: if the red dot appears below the video, which means recording is started. Before recording started, you have to choose the save path. Kindly refer to PC recording section.

Snapshot: You could take a snapshot and mark it. ① Text font ② Text position ③ Text type ④ Add remarks (note: only letters allowed) ⑤ Save path ⑥ Saved picture format and watermark
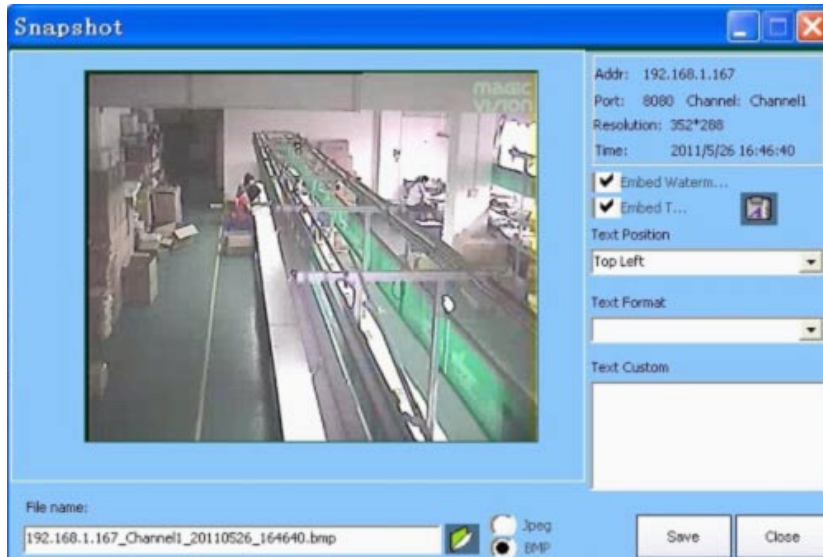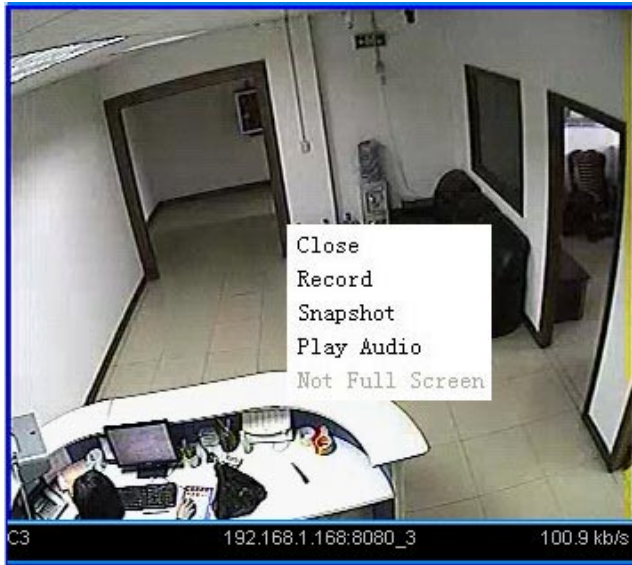
c. Basic setting and management of video server: configure the video and the selected server .

d. LAN search: Search the local server in LAN

Add Operation:

Log in the firmware, click the search button, and choose the server

IP	MAC	Port	
192.168.1.167	0-75-35-3f-e6-7`	8080	

at last, click Add button.

e.Network setting: You could add the network video server to the software server list .

Fill in the domain and port info of the product (refer to control panel server setting).

Remember: the port could not be a webpage port; it is a client firmware port, which is above 8080.

f:P/T/Z control: When any video screen of the control panel is dragged to the video window, P/T/Z operation is available. (The decoder must be applied first before P/T/Z operation) .

Click the video screen you plan to P/T/Z control, then choose the protocol,

at last press Save to complete this configuration.
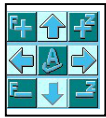
 Pan, tilt and zoom in/out.

 Focus。   Zoom in/out。   Auto cruise。

 Color adjustment ,   Restore factory default。

Camera Setting

A.Server setting

Select a control panel, click the right mouse and select camera setting, the setting window appears:

①.**Channel Parameter**
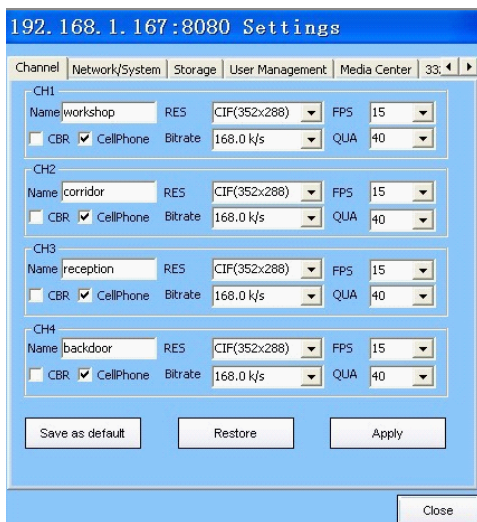
(1).**Name:** define a name for this video channel

(2).**CBR:** constant bit rate (the WAN network speed has a certain influence on the bit rate)

(3).**Mobile:** choose whether you could see the video of this channel on your mobile

(4). **Resolution:** there are 4 types

(5). **Frame rate and picture quality:** these are different in different resolution videos, and adjustable

(6). **The factory default is CBR and mobile could visit the video:** if you need better picture quality, cancel the CBR and adjust the resolution, bit rate, frame and quality manually to achieve better results.

Special attention: once the channel setting is changed, you have to save it as default. Otherwise, it would restore to factory setting after a problem or power failure reboot.

②.**Network Setting**

1) **Video mode(Pal/NTSC optional)**

2) **Name:**server name

3) **Network type:** dynamic IP/ static IP/ PPPOE auto dialup

4) **Work port:**

5) **Web port:** network port

6) **MAC address:** MAC address of the control panel (Note: MAC addresses of different panels need to be different in the same LAN; otherwise, they would be in conflict) .

7) **IP address:** IP address of the control panel within LAN (Note: the IP addresses of different panels need to be different in the same LAN; otherwise, they would be in conflict) .

8) **Subnet mask:** refer to the subnet mask setting of the router.

9) **Gateway:** the gateway of the LAN .

10) **DNS:** it depends on the area (the DNS of different area are different; please consult you local ISP if you are not clear about this).

Referring to the info in the above pictures, you could set the IP, port mapping, DNS, and visit our server from internet.
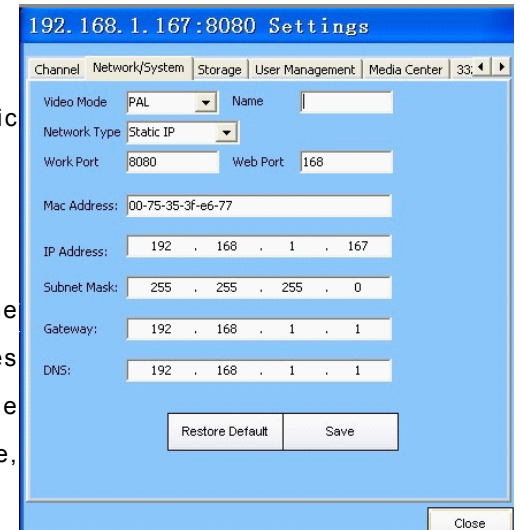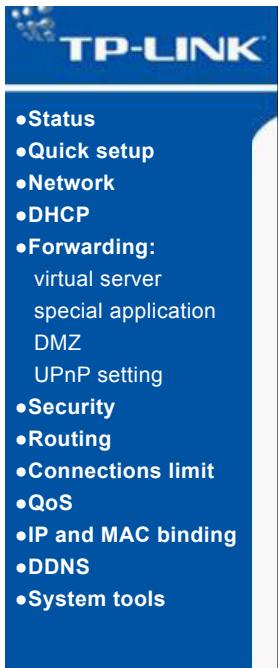
③. **Storage**

You could record and save the video of the 4 channels in different modes, and also make it auto continuously record during your defined time, motion detecting record and pre-record (pre-recording could combine with other recording mode; while continuous recording and motion detecting recording could not).

This function is only available when the USB drive is inserted, that is, the green square appears.

E.g. choose channel: CH1

Recording type: motion/alarm recording

Recording schedule: time

Choose Schedule 1: 9:00 to 16;00

At last, press save button.

So the CH1 camera would begin to record and save pictures to the

USB flash once it detects motion or alarming during 9:00 to 16:00.

It would not record during other period.

④. **User Management**

There are 4 levels user authority:

a.User: normal user, who could only browse the video.

b.Power user: the one could access to a certain functions.

c.Administrator: the one has full authority to all the functions (could add or delete user).

d.System default administrator: has full authority to all the functions (this is system default and could not be deleted).
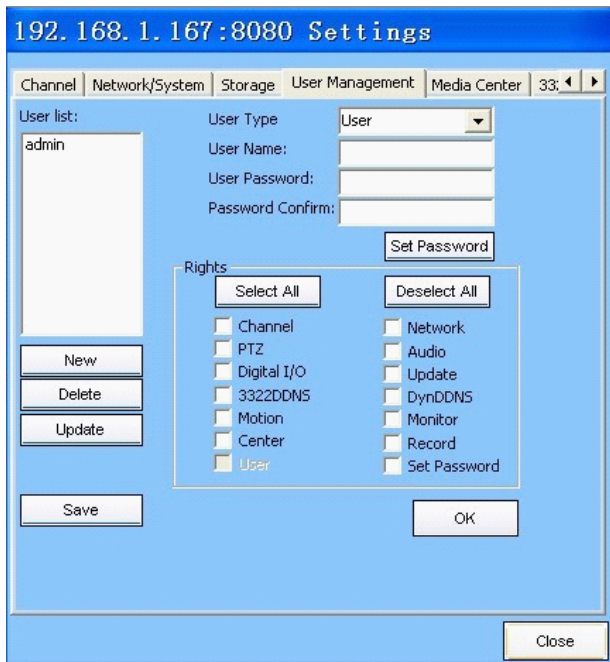
Take the computer system as an example; the normal user may be able to run the approved files, but could not run most of the old version application program. E.g. he could not change the important options like the network property. When you log in as a normal user, if the system is virus affected, the virus could only get the normal user's level of authority, therefore, it could not do serious harm to your PC.

Power User has most authority, but there is limit as well. Power user could run approved program as well as the old version program, but virus is still somewhat restricted if you log in as power user.

Administrator, also referred as super administrator, has all the access to the computer without any limits. When you log in with this identity, once pc is infected by virus, it would cause the system serious harm or even completely control it.

⑤ **3322 DDNS**

3322 DDNS: It offers free domain (top pay domain is also available, and international domain supportable) User need to apply for a domain to resolve the IP address and port of the server mapped upon router, so that he could visit the sever from internet.
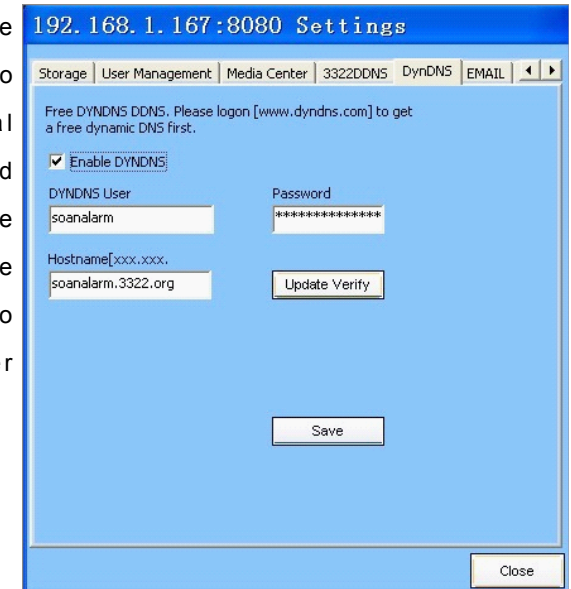
⑥ **Dyn dynamic domain**

Dyn dynamic domain: a free domain popular aboard (refer to the right picture).
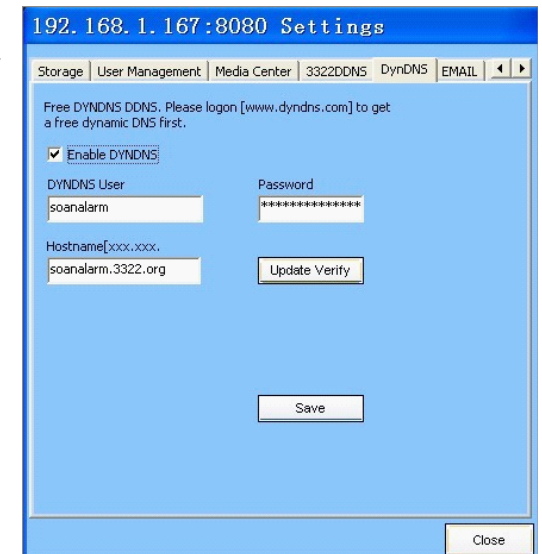
⑦ System Monitor
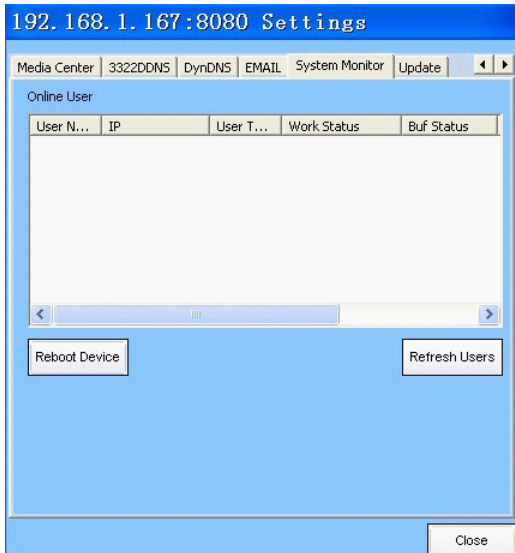
System Monitor:

Reboot the current video server

⑧ Upgrade

Update the firmware.

Steps: click open and then select the file to burn, choose it then click upgrade.

After that, the current firmware version No. changes to the new one you just updated.

In order to ensure the good usability of the facility, it is suggested to reboot after upgrading the firmware and then restore to factory default. (kindly refer to the section 7.system monitor) .
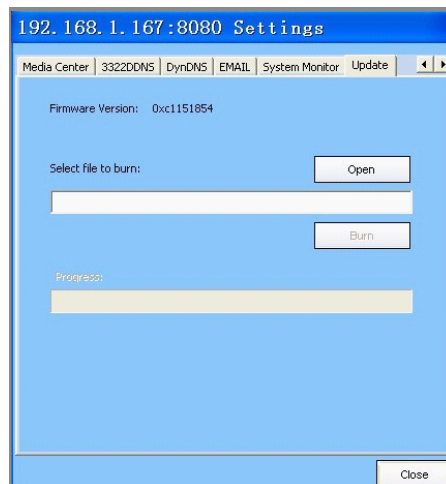
B.Connect/disconnect to the server
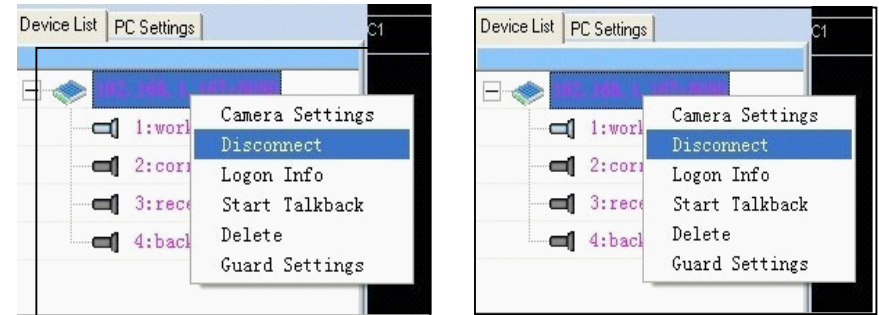
Click the right mouse to choose Connect/disconnect to server.

C.Logon info
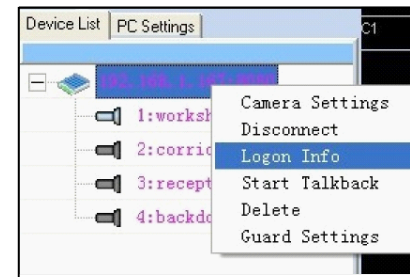
Click the right mouse to choose view the logon info. (The data could not be changed).

D.Delete the server
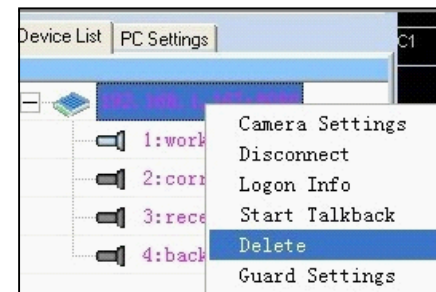
Click the right mouse to choose delete the server connected to the PC-side firmware.

E.Guard setting

Click the right mouse to choose the guard setting, the setting interface appears.
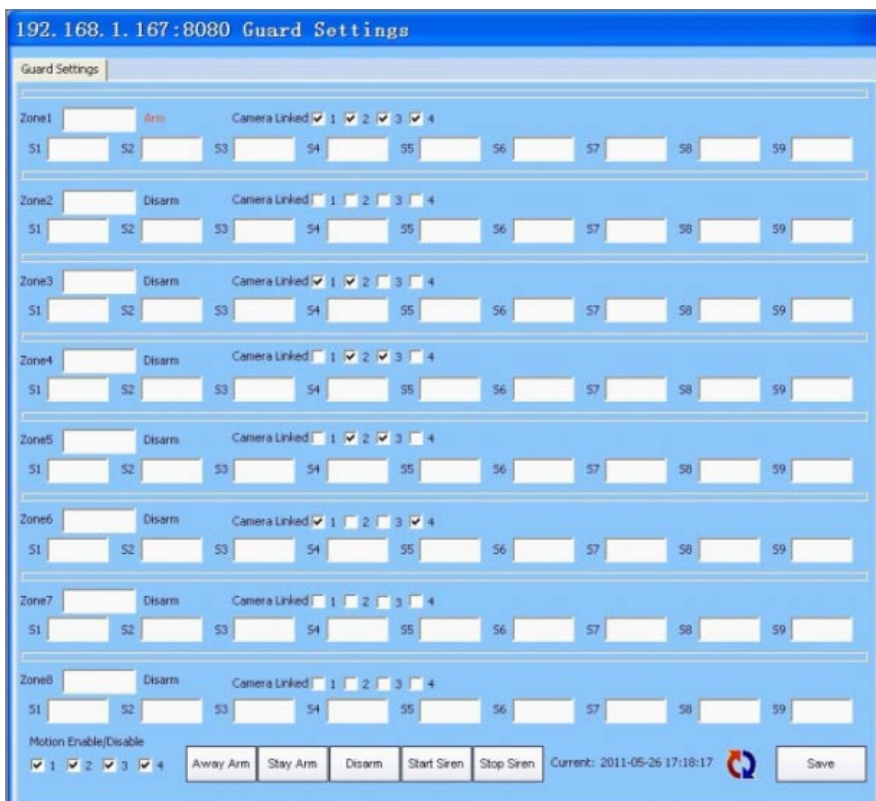
There are 8 zones (zone 1-8) 9 detectors (S1 -9)
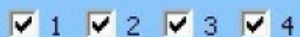
1.2.3.4 stands for 4 cameras; you have to choose the camera before the guard settings become effective.
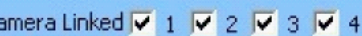
Only the linked camera would start to record when the panel is activated in armed status; when the camera is used as a wired detector, it could send alarm signal to the panel when it detects picture changes.

You could customized name every zone/detector according to your needs.

Also you could remotely arm/disarm the panel from PC.

Basic Setting

You could do some settings as long as you could see the video in the window.

A. PC video recording
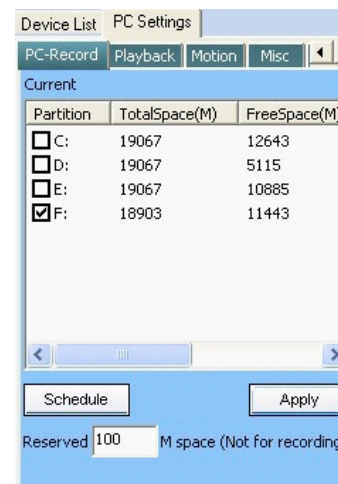
1-①   2-②

1.Recording storage path setting:

You could choose to record in several disks, refer to picture 3.1; the file name is: SECURITY_VIDEO. Select it and move the mouse to the video window that you want to record; right click then choose record, a red dot would appear in the bottom (refer to picture 3.1-(1).2., it means it is recording. The recording format is dat, and when the recording file is up to 32M, it would auto establish a new file and continue to record until you stop it or the whole disk space is full.

2.Recording schedule:

You could set panel start to record at different time and date according to

your needs; the recording would be saved to the programmed location, as
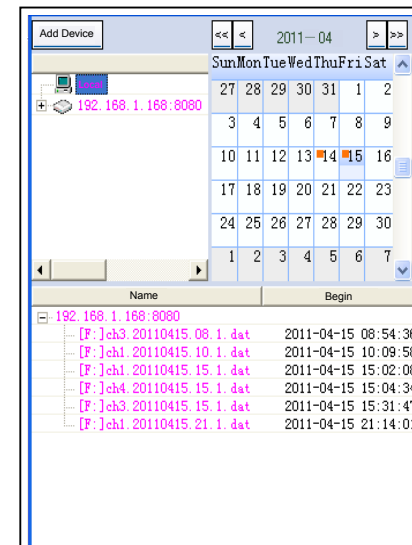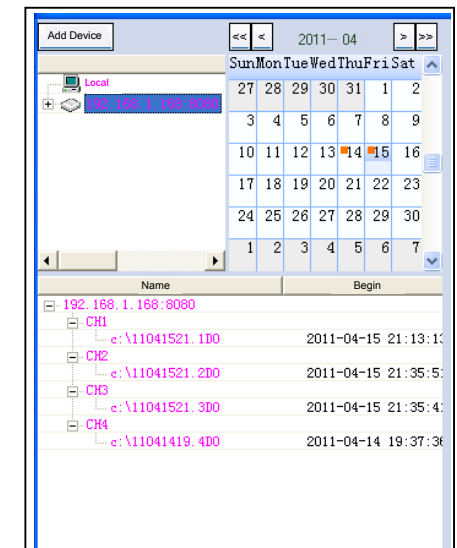shown in the below picture.
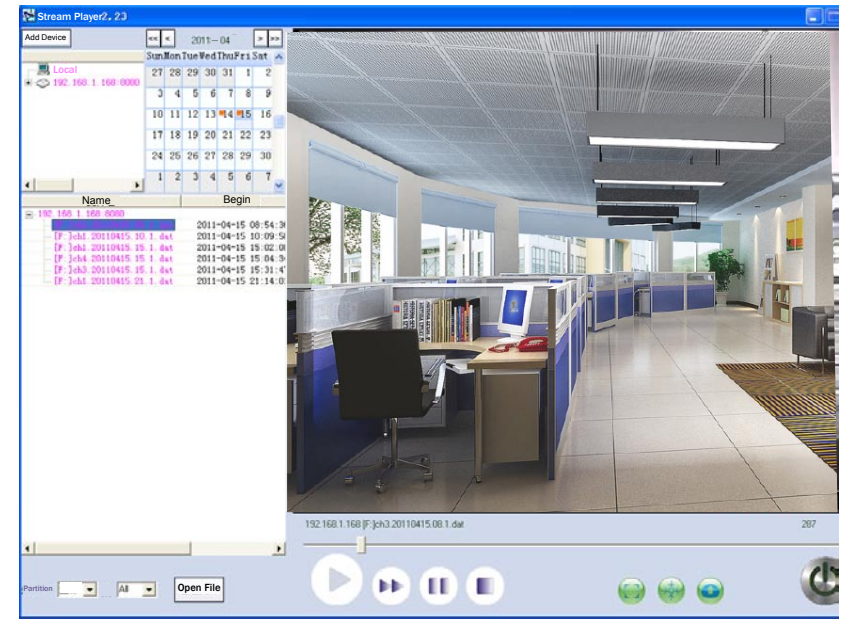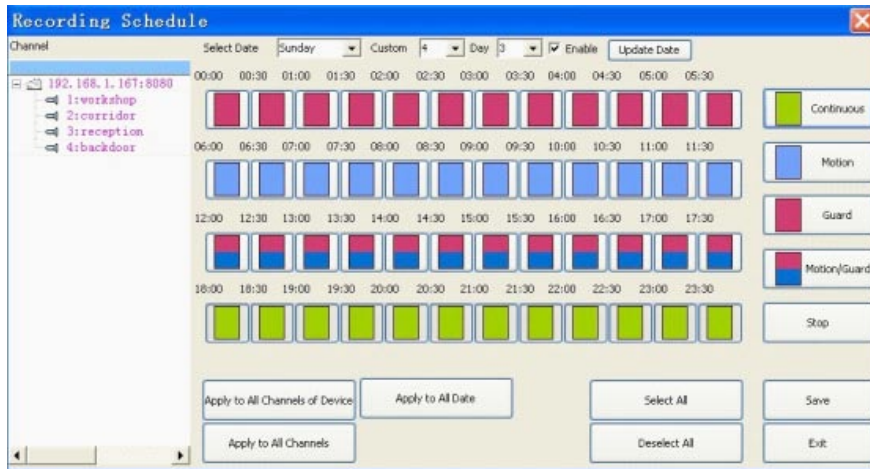
B.Video Playback
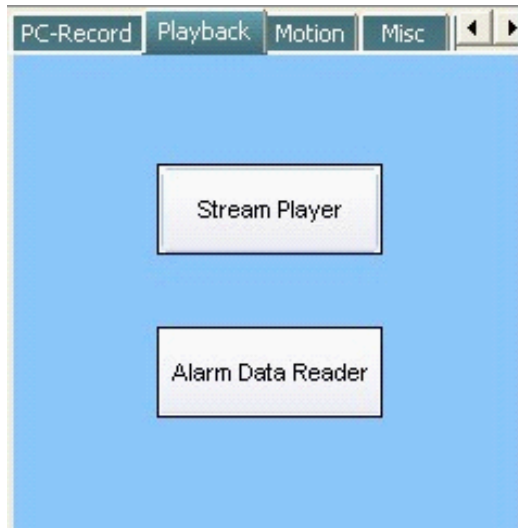
①.Choose the stream player as the above picture


①-1

①-2   ①-3

Click Add device could playback video of other devices.

Double click Local, refer to 1)-2), below the file name IP-192.168.1.168: 8080, it shows the disk where you saved the recording to. (e.g. that picture 1)-1 shows that recording would be in disk F), the camera linked (CH1, CH2, CH3, CH4) and also the recording time and date. If the red square appears in the date column, that means, there is recording on that date. Double click that date, the related devices would appear in the window; select the device and channel you want to see, and click play then you could see the recording playback.

All the recording are kept in the current pc.

Double click the device IP 192.168.1.168: 8080 refer to picture 1)-3. Below the file name it shows the linked camera (CH1, CH2, CH3, CH4) and also the recording time and date. Below every camera is its recorded video file. The file is saved to the panel USB flash (refer to the storage part of server setting) Double click the file to playback the recording.
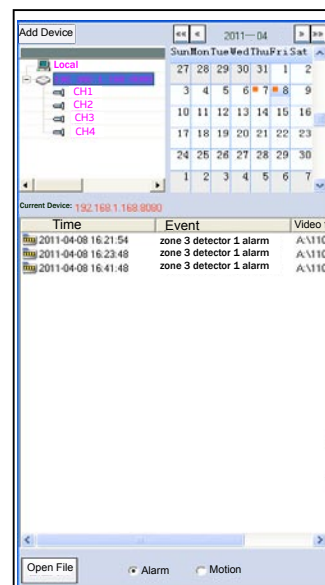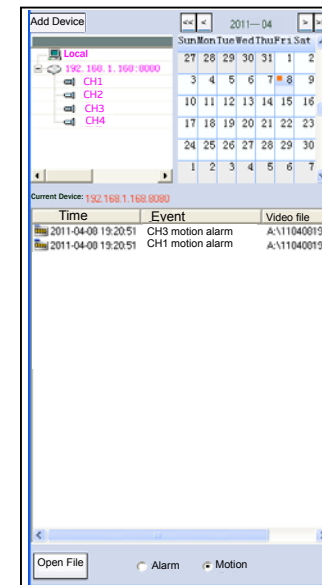
② **Choose the alarm info. reader.**
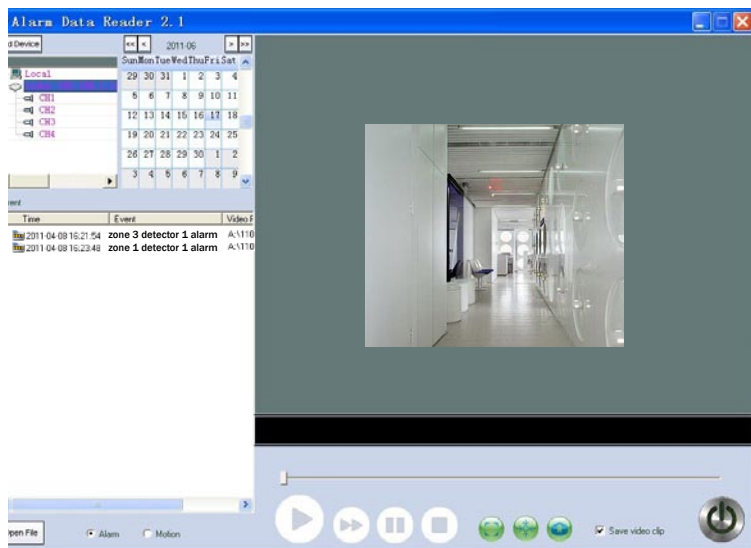
②-1

If the zone is not linked to camera, there would no video file when the zone is triggered.

Please refer to 5 zone setting for the camera linkage setting. (Note: The video file is saved to the panel USB flash)
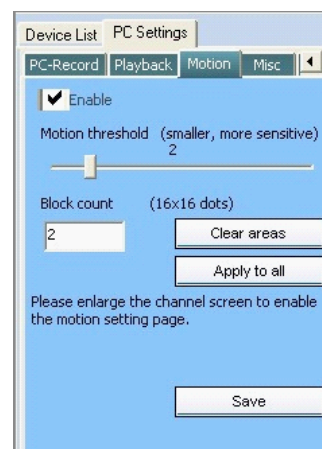

②-2　　　　②-3

Picture 2)-2 is the alarm video file; 2)-3 is the motion detection video file.

C. Motion detection

Motion detection area

Select the channel screen that you want to enable the motion detection function, double click it to enlarge it; set the sensitivity and enable it. Then mark the motion detecting area (It is no problem to mark 2 areas in one screen) at last, save it and double click the screen to return to its original size. Until now, the motion detection is successfully enabled.
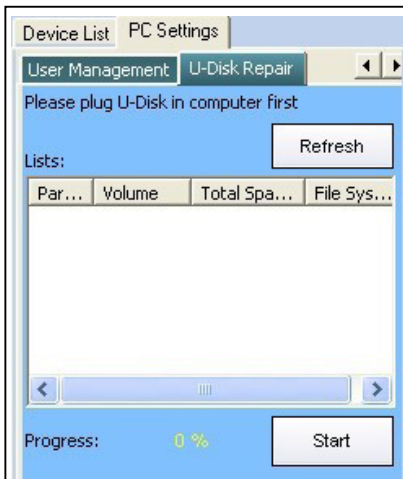
D. User Management
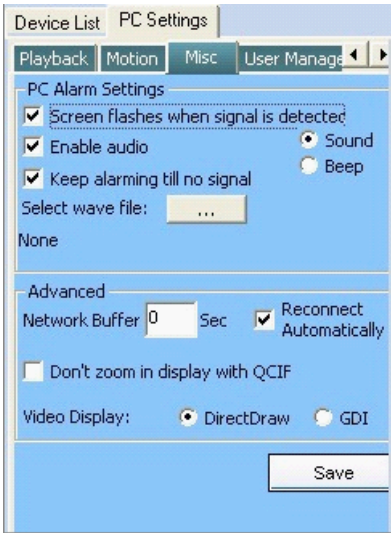
User could set the alarm prompt sound; You could choose panel alarms with PC audio card or with appointed audio file. (the alarm sound could be a song or a sentence)

Note: it only supports audio file in WAV format.

Also user could choose to reconnect automatically when the network is disconnected.

E. U-disk repair

It is suggested to format your u-disk before using it, so that the recorded file could not be easily damaged.

Trouble Shooting

	Trouble	Normal Condition	Solution
Disconnect from network	D3 D4 on the video board are off	D3 keeps on and D4 flashes	1. Check the connection of the network cable 2. Check whether signal is present on the network cable.
	Both D3 and D4 are on for 2 seconds and then off for 2 seconds	D3 keeps on, D4 flashes	Press reset button SW1 on the video board Check whether network cable could work normally.
Unable to read USB drive (showing USB drive is not ready)	Whether you have updated the time on control panel	Time of control panel is consistent with current time	Check whether panel's year, month, day is correct; if necessary text to modify it. Year should be set manually.
	Whether USB drive is plugged		1. Try to plug the USB drive again. 2. Format USB drive and plug it again. 3. Try with another usb drive.
Cannot read flash file	Cannot play the video saved in usb drive	Video in flash could be played directly	Use Flash Data Recovery function on pc to recover data of the flash drive.
	No alarm video	Alarm video could be played directly	1.check whether the flash drive is ready. 2.check whether camera is linked to corresponding zone. 3.check whether the camera is working normally . 4.check whether the camera is set to, record on alarm/motion detected (refer to the save setting section).
	No motion recording	Motion activated recording could be played directly	1.Check whether the flash drive is ready 2.Check whether camera is linked to corresponding zone 3.Check whether the camera is working normally 4.Check whether the camera is set to record on alarm/motion detected (refer to the save setting section)
No recorded Video on PC	Cannot open local video	Local video could be opened directly	1. Check whether the local computer is set with video recording schedule 2. Whether save path is set(Video folder name: SOAN_SECURITY_VIDEO)
Video picture	Video picture not clear and intermittent		1 Check whether the video plugs connected well 2 check whether cameras are working normally