



User Manual

Advanced Security Controller

Usable for also HDL-MSM.431

Manual describes the snapshots taken in the previous version of the module and using older HBST program. In HBST2, the graphic appearance is slightly different but the functions remain the same.



SB-DN-SEC250K

buspro

www.hdlautomation.com

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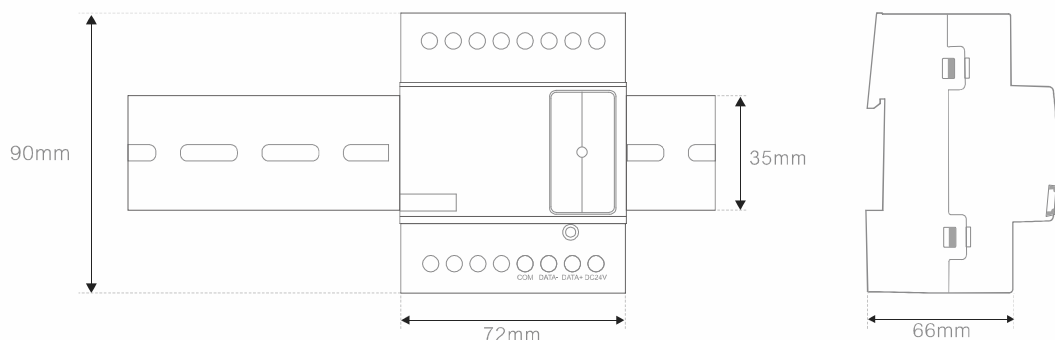
1. Overview

1.1 General Information

1.1.1 Description

SB-DN-SEC250K is a security module, from the sensor status and logic implement, it can manage 8 independent zones' arming and alarm. Up to 32 sensors can be used to detect in each area. Normally use DLP panel, TouchLife and iLife to arm and diasarm the system.

1.1.2 Mounting

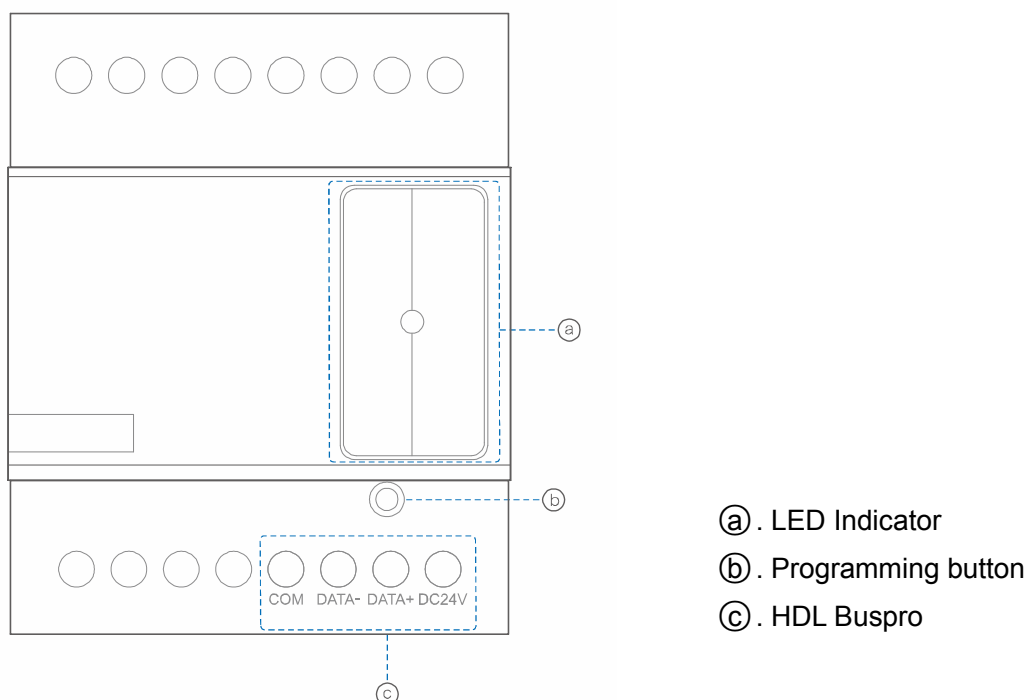


- DB Box installation

1.2 Functionalities Description

- Manage 8 independent areas
- Multiple security modes: Vacation, Away, Night, Day, etc.
- Multiple alarm modes: Panic, Gas, Fire, Temperature, Emergency, etc.
- Multi-Level security protection
- Arm and alarm log.
- Sends SMS message
- Online upgrade is available

1.3 Device Description



2. Safety Instructions

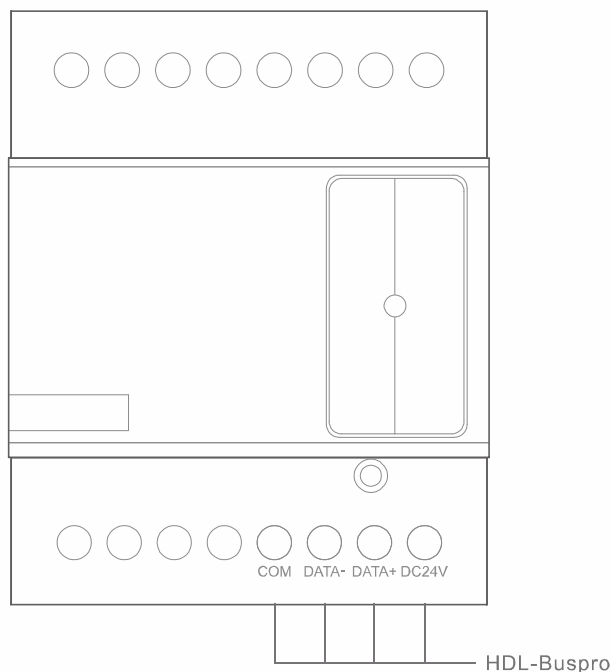
- The screw down strength should not exceed 0.4Nm.
- Do not make wrong connection on Bus interface, it will damage the Bus interface of this module.
- Never let liquids get into this module, it will damage this device.
- Do not get AC220V voltage into Bus wire, it will damage all devices in the system.
- Ensure good ventilation.
- Avoid contact with liquids and corrosive gases.

3. Technical Data

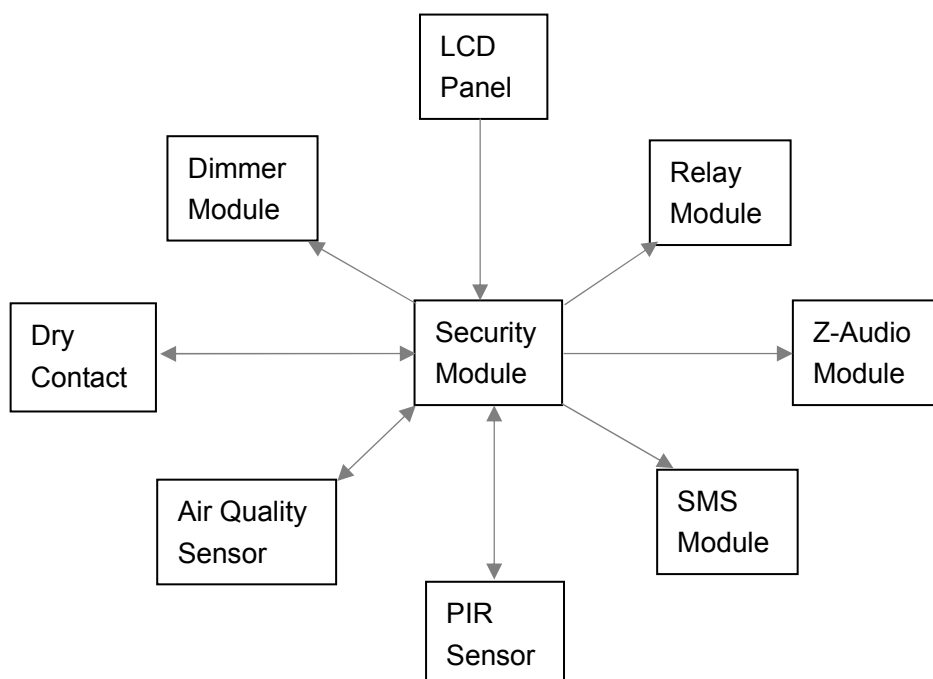
Electric Parameters	
Working power	DC15-30V
Bus power consumption	15mA/DC24V
Total capacity	256Mbytes
Record time (up to capacity)	10400s, about 2hours 50mins
Program number	Max.50
Signal type	DMX512 (1990)
HMI	128x64 raster graphic LCD 6 soft-touch buttons
Environmental Conditions	
Working temperature	0°C~45°C
Working relative humidity	Up to 90%
Storage temperature	-20°C~+60°C
Storage relative humidity	Up to 93%
Approved	
CE	
RoHS	
Production Information	
Dimensions	72×90×66 (mm)
Housing material	Nylon, PC
Installation	35mm DIN rail installation
Protection degree	IP20

4. Installation

4.1 Wiring



4.2 System Connection



Security module should work in conjunction with other products to make up a system.

4.3 HDL Bus Pro Description

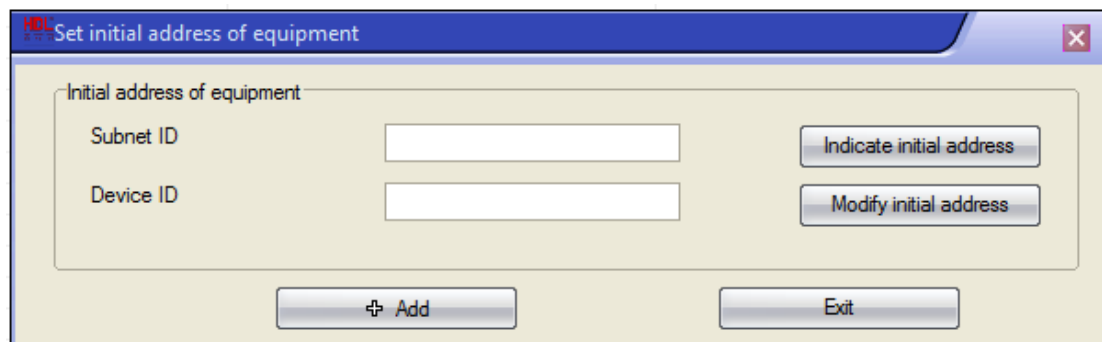
Connector Information

buspro	
DC24V	Red
COM	Black
DATA -	White
DATA +	Yellow

4.4 Commissioning

Method One:

- open the HDL-BUS Pro Setup tool.
- keep pressing the programming button for 3 seconds, it turns to red color.
- on the software, click the “Address management”, and select the “Modify address (when device button is pressed)”, it will show a window like this:



- click the “Indicate initial address”, then it will show the ID of this device. If you want to modify the address, fill in the new address, and click the “Modify initial address”. Click the “+Add” button, the device will be add in “ON-line devices” list.

Method Two:

- open the HDL-BUS Pro Setup tool.
- click the search button, it will show a new window, click fast search button, search the online devices. Click the “Add all” button, the devices which be searched will be added in “ON-line devices” list.

5. Software Configuration

5.1 Basic Information

5.1.1 Change the ID

Every HDL-BUS device has one Subnet ID and one Device ID, the Device ID should be unique in its subnet and the Subnet ID should be kept consistent with the Gateway (typically the SB-DN-1IP or HDL-MBUS01IP.431).

5.1.2 Date Setting for Timer

Built-in clock chip, can set Date and Time manually or read it from PC, It broadcasts the time to system by default.

It supports 'Daylight Saving Time' function, some countries like EU countries, Australia need to use it then can set the start time and end time here according to different places.

Date Setting for Timer

Date: 2014年10月31日 Friday

Time: 10 : 39 : 12 (hh:mm:ss)

PC Time Refresh Save

☐ Daylight Saving Time

Start Time: 12 12

End Time: 12 12 Save

5.1.3 History Log

- Ready history

Enter the start time and end time, so you can view arm, disarm and alarm log during this time period.

- Clear history

When enter the password, you can clear the unneeded arm, disarm and alarm log, the default password is 85521566.

- New password

When enter the password, you can customize the new password for safety.

History Log

Start Time: 2014/10/31 End Time: 2014/10/31

Password:

Index	Date	Time	Address	Channel	Type	Remark
-------	------	------	---------	---------	------	--------

5.2 Basic Setting

It's mainly for buzzer and siren configuration.

Area No.

Select and enable one area(area No. is from 1 to 8), remark it for easy management, like floor1 or floor2.

Siren Delay(10-180S)

Set the delay time for INDOOR SIREN ON, OUTDOOR SIREN ON

Restart after Alarm(1-30M)

Once alarm is triggered, within the delay time (up to 30 minutes), the security module will no longer alarm again. When the delay time elapses, it will restart into the monitoring state, if there are more triggers, it will trigger the buzzer, siren, alarm and so on then realize that monitor and alarm circularly.

Entry Delay(10-180S)

The delay time for entering the door. Under arming, it will trigger the "ENTER BUZZER ON" targets when entry. If disarmed during the delay time, the "ENTER BUZZER OFF" targets will be triggered.

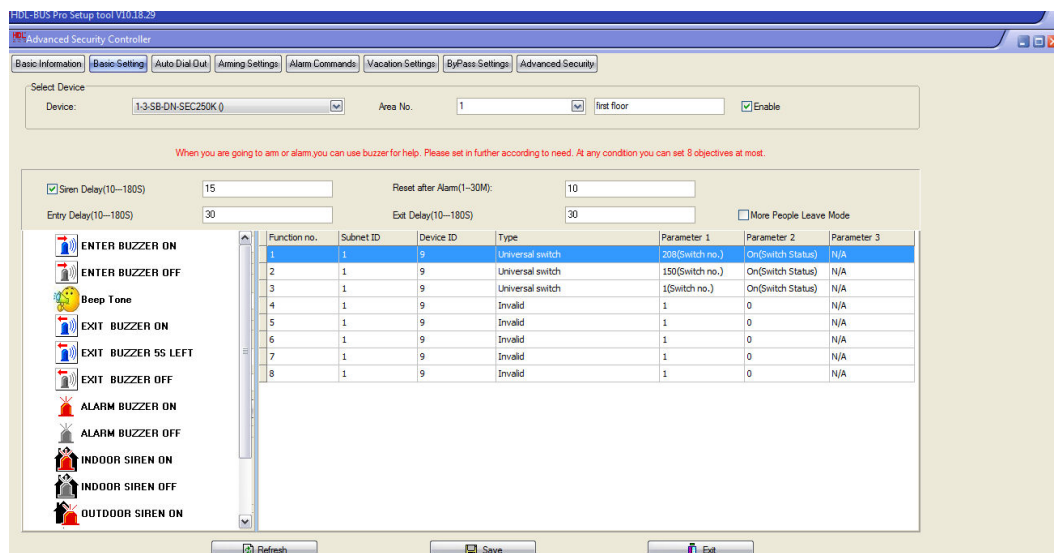
TIP: If do not disarm after the Entry Delay, it will trigger the "ALARM BUZZER ON" setting targets, at the same time, start to countdown the Siren Delay time, when the delay time elapses, the system will trigger "INDOOR SIREN ON, OUTDOOR SIREN ON" setting targets.

Exit Delay(10-180S)

When arming button is pressed, you should leave during the exit delay time otherwise it will trigger the alarm targets.

More People Leave Mode

It's very useful when there are many people going to leave and you want to arm this area now. If the sensor detects two movement's interval less than the exit delay, then it will reset the delay time for the arming; if the sensor detects two movement's interval larger than the exit delay, then it will countdown the 'Entry Delay' time, and trigger the corresponding targets.



ENTER BUZZER ON

The actions when entering the door, the targets can be a voice hint from music player or a buzzer on controlled by relay module.

ENTER BUZZER OFF

The setting targets will be triggered if disarm is not happened after the Entry Delay time elapses. Suggest to shutdown the same controlled targets as 'ENTER BUZZER ON'.

When disarmed, it will trigger the 'ENTER BUZZER OFF' targets.

Beep Tone

This is specially used to work with the weather sensor (the 3rd party weather sensor normally needs to connect to our dry contact module), under different weather situation, it can trigger different targets.

UV Switch No. 1-4 is for Mode One to Mode Four in area1, Switch No. 5-8 is for Mode One to Mode Four in area2 and so on. Default is for normal weather, if it does not receive any UV Switch No. from the sensor, then it will trigger the setting targets in Default window. Mode One to Mode Four is for abnormal weather, when it receives one UV Switch No. from the sensor, it will trigger corresponding targets.

- ENTER BUZZER ON
- ENTER BUZZER OFF
- Beep Tone
- EXIT BUZZER ON
- EXIT BUZZER 5S LEFT
- EXIT BUZZER OFF
- ALARM BUZZER ON
- ALARM BUZZER OFF

When about to out, you can add personal tips before default goals. For example, it's rainy outside, take an umbrella with you, take keys and wallet with you when out. Enable/Disable Universal switch 1 to 4 in area 1, and go on in others areas.

☒ Default
☐ Mode One
☐ Mode Two
☐ Mode Three
☐ Mode Four

Function no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
1	255	255	Invalid	255	255	N/A
2	255	255	Invalid	255	255	N/A
3	255	255	Invalid	255	255	N/A
4	255	255	Invalid	255	255	N/A
5	255	255	Invalid	255	255	N/A
6	255	255	Invalid	255	255	N/A
7	255	255	Invalid	255	255	N/A

E.g. Mode One is for rainy day, when the sensor detects it's raining now, it will send UV Switch 1 to the security module, then security module will trigger the Z-Audio to play the 21st voice hint, the voice hint can be 'it's raining outside, do not forget to take the umbrella with you'.

<div><div><input type="radio"/> Default</div><div><input checked="" type="radio"/> Mode One</div><div><input type="radio"/> Mode Two</div><div><input type="radio"/> Mode Three</div><div><input type="radio"/> Mode Four</div></div>						
Function no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
1	1	9	Universal switch	208(Switch no.)	On(Switch Status)	N/A
2	1	9	Universal switch	150(Switch no.)	On(Switch Status)	N/A
3	1	9	Universal switch	21(Switch no.)	On(Switch Status)	N/A

It will trigger the Beep Tone targets firstly, later trigger the EXIT BUZZER ON targets when leaving the house.

EXIT BUZZER ON

The actions when leaving the house, the targets can be a voice hint from music player or a buzzer on controlled by relay module.

EXIT BUZZER 5S LEFT

The actions for the last 5 seconds of exit delay, the targets can be a rapid buzzer on, to urge people to leave the house quickly.

EXIT BUZZER OFF

Automatically shut down the voice hint and buzzer when the Exit Delay time elapses. When disarmed, it will trigger the 'EXIT BUZZER OFF' targets.

ALARM BUZZER ON

If there is no disarm after Entry Delay, it will trigger the 'ALARM BUZZER ON' targets and the 'ENTER BUZZER OFF' targets at the same time.

ALARM BUZZER OFF

Automatically shut down the voice hint and buzzer when the Siren Delay time elapses.

When disarmed, it will trigger the 'ALARM BUZZER OFF' targets.

INDOOR SIREN ON, OUTDOOR SIREN ON

These targets will be triggered if there is no disarm after Siren Delay, they can be a siren, loudspeaker and so on.

INDOOR SIREN OFF, OUTDOOR SIREN OFF

When disarmed, it will trigger these OFF targets.

FIRE SIREN ON

These targets will be triggered if there is a fire alarm, they can be a alarm speaker and so on.

FIRE SIREN OFF

When disarmed, it will trigger the 'FIRE SIREN OFF' targets

Recommendation: the above-mentioned OFF and ON targets should be the same, otherwise there will be some of them can not be turned off after you disarm the system.

5.3 Auto Dial Out

Area No.

Select one area, area No. is from 1 to 8.

Enable Delay(10-180S)

The delay time can be set for auto-dialing when alarming.

Auto Dial Out Target

The function you want to achieve at the time of auto-dialing

Advanced Security Controller

Basic Information | Basic Setting | **Auto Dial Out** | Arming Settings | Alarm Commands | Vacation Settings | Bypass Settings | Advanced Security

Select Device: Device: 1-3-SB-DN-SEC250K () Area No. 1 Enable ☐ Enable Delay(10-180S): 10

Device can automatically dial and send out SMS. When needed. Automatic dialing can be set up to 8 targets.

Auto Dial Out Target From 1 To 8 Read

Function no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
1	1	7	Invalid	1	0	N/A
2	11	1	Invalid	1	100	N/A
3	11	1	Invalid	1	100	N/A
4	11	1	Invalid	1	100	N/A
5	11	1	Invalid	1	100	N/A
6	11	1	Invalid	1	100	N/A
7	11	1	Invalid	1	100	N/A
8	11	1	Invalid	1	100	N/A

GPRS SubID: 255 Mode: VACATION ALARM

GPRS Device ID: 255

Message No. 1 0:00:00 To 23:00:00

Message No. 1 0:00:00 To 0:00:00

Message No. 1 0:00:00 To 0:00:00

Message No. 1 0:00:00 To 0:00:00

Refresh Save Exit

GPRS Subnet/Device ID

Set the GPRS Subnet/Device ID. When the alarm occurs, it will trigger the GPRS module to send out the corresponding messages to some cellphones.

Mode

Up to 13 alarm modes can be set. All these 13 kinds of alarm modes are independent, it will trigger the GPRS module to send out messages during different time period for each mode.

Mode: VACATION ALARM

AWAY ALARM

NIGHT ALARM

NIGHT_G ALARM

DAY ALARM

SILEN ALARM

POWER ALARM

TEMPE ALARM

FIRE ALARM

GAS ALARM

PANIC ALARM

EMERGENCY ALARM

CURREN ALARM

ALARM RESET

Refresh Save Exit

Current IP 192.168.10.122 Total Devices 9 Best

Message No.

Please enable the message number, each alarm mode can send out up to 4 kinds of alarm information, the alarm information can be set in the GPRS module.

Time Period

During the alarm time period, if there is an alarm occurring, the relevant person will receive a text message.

5.4 Arming Settings

Area No.

Select one area, area No. is from 1 to 8.

Trigger when leaving

If enable the selection, it will trigger the targets when arming button is pressed; if do not enable the selection, it will trigger the targets after the *Exit Delay* time.

Arming Modes

There are 6 arming modes can be set respectively, they are: VACATION ARM, AWAYARM, NIGHT ARM, NIGHT_G ARM, DAY ARM, DISARM ARM. Each mode can control up to 32 targets.

Advanced Security Controller

Basic Information | Basic Setting | Auto Dial Out | **Arming Settings** | Alarm Commands | Vacation Settings | ByPass Settings | Advanced Security

Select Device: Device: 1-3-SB-DN-SEC250K 0 Area No. 1 Enable

Different types of arming can set different goals. Each type can be set up to 32 targets.

☐ Trigger when leaving Arming Target From 1 To 8 Read

Function no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
1	2	2	Universal switch	208(Switch no.)	On(Switch Status)	N/A
2	2	2	Universal switch	150(Switch no.)	On(Switch Status)	N/A
3	2	2	Universal switch	1(Switch no.)	On(Switch Status)	N/A
4	2	1	Invalid	1	0	N/A
5	2	1	Invalid	1	0	N/A
6	2	1	Invalid	1	0	N/A
7	2	1	Invalid	1	0	N/A
8	2	1	Invalid	1	0	N/A

Mode: Auto Arming

Auto Arming 0:00:00 ☐ Auto Arming 0:00:00 ☐ Auto Arming 0:00:00 ☐

Auto Arming 0:00:00 ☐ Auto Arming 0:00:00 ☐ Auto Arming 0:00:00 ☐

Refresh Save Exit

Auto arming and disarming

1- Auto Arming

If the conditions are met(enable auto arming and within the set time), then it will automatically work under the arming mode

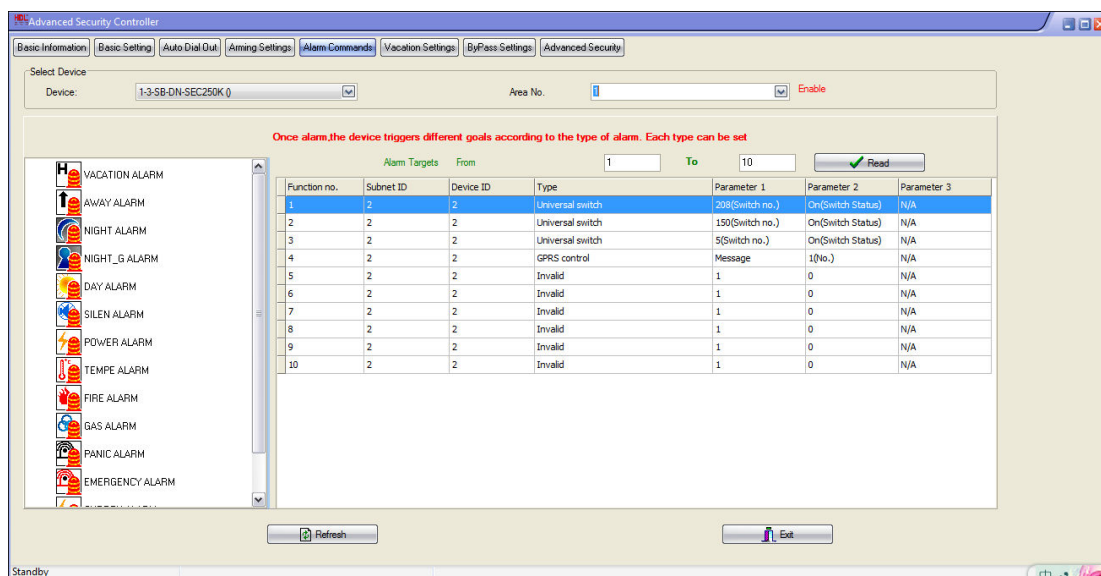
2- Auto Disarming

If the conditions are met (enable auto disarming and within the set time), it will automatically disarm

5.5 Alarm Commands

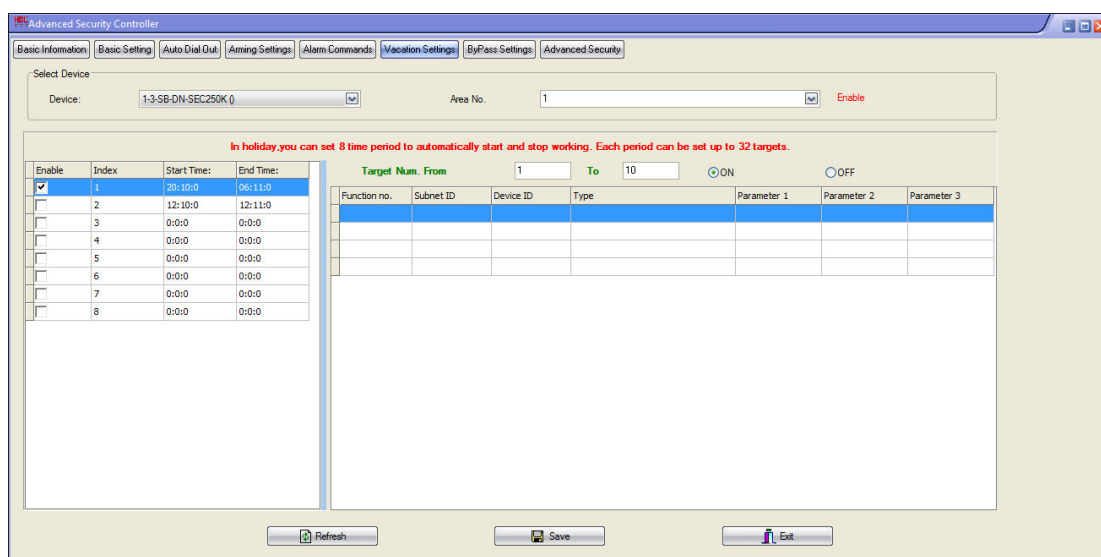
It's mainly for setting the alarm targets for different alarm modes(exceed *Entry Delay*). Fire, gas, etc alarm have no delay, will come into effect immediately.

Each mode can control up to 32 targets.



5.6 Vacation Settings

It's mainly for setting some targets in the vacation mode, so it could simulate scenarios, such as turn on/off lights by timer function in the house to give the illegal invaders a warning that somebody is at home.



Can set the control targets in 'ON' and 'OFF' windows independently.

When reach the start time point, it will trigger the 'ON' window's targets, e.g. turn on lights at night.

When reach the end time point, it will trigger the 'OFF' window's targets, e.g. turn off lights in the morning.

5.7 Bypass Settings

5.7.1 Alarm + Bypass

Authorize the sensor here (need to set the security module's ID in the sensor also), when the status of it has changed under arming mode, it will send out commands to the security module, then the security module will trigger corresponding targets to protect the system. (for details of these settings, please check the '6. Application' below)

Advanced Security Controller

Basic Information | Basic Setting | Auto Dial Out | Arming Settings | Alarm Commands | Vacation Settings | **Bypass Settings** | Advanced Security

Select Device

Device: 1-3-SB-DN-SEC250K ()

Area No. 1 Enable ☒ Auto detection

When about to arm, this module will check if everyone is OK for example if windows are closed. You can select up to 32 devices for checking. If your version is 2011/06/21 or above, if now the door is opened, it can output 8 commands. Only 1-16 have this function.

Alarm+Bypass | Arming Settings

Index(1-32) from: 1 To 8 Read

Index	Alarm	Subnet ID	Device ID	Channel	Bypass	Trigger	Status	Mode	Remark
1	<input checked="" type="checkbox"/>	1	77	1	<input checked="" type="checkbox"/>	NC	OFF	Normal	main door
2	<input checked="" type="checkbox"/>	1	77	2	<input type="checkbox"/>	NC	Close	Normal	sub door
3	<input checked="" type="checkbox"/>	1	77	3	<input checked="" type="checkbox"/>	NC	Close	Normal	movement
4	<input type="checkbox"/>	1	4	4	<input type="checkbox"/>	NO	Not Online	Normal	
5	<input type="checkbox"/>	3	88	21	<input type="checkbox"/>	NC	Not Online	Normal	
6	<input type="checkbox"/>	3	88	22	<input type="checkbox"/>	NC	Not Online	Normal	
7	<input type="checkbox"/>	3	88	23	<input type="checkbox"/>	NC	Not Online	Normal	
8	<input type="checkbox"/>	3	88	24	<input type="checkbox"/>	NC	Not Online	Normal	

5.7.2 Arming Settings

Authorize some user interfaces to arm and disarm the system, e.g. DLP, TouchLife, iLife, iRidium and so on. iLife (IOS) has the fixed ID, 3/254, and the iRidium's fixed ID is 253/254.

Alarm+Bypass | **Arming Settings**

Index(1-16) from: 1 To 8 Read

Index	Subnet ID	Device ID	Remark
1	1	9	DLP
2	3	254	iLife
3	1	251	7*touch screen
4	255	255	
5	255	255	
6	255	255	
7	255	255	
8	255	255	

5.8 Advanced Security

- 9th line of Defence Activate after Alarm(M)

Set the delay time for the 9th line defence, after the delay time when normal alarm, it will trigger these 9th targets which can be set in the right side window. The time unit is minute.

Can enable this 9th line defence for these normal alarm: Vacation, Night, Away, Day.

- 9th line of Defence Activate after Panic(S)

Set the delay time for the 9th line defence, after the delay time when panic alarm(24 Hours Active mode), it will trigger these 9th targets which can be set in the right side window. The time unit is second.

- 10th line of Defence Activate after Alarm(M)

Set the delay time for the 10th line defence, after the delay time when normal alarm, it will trigger these 10th targets which can be set in the right side window. The time unit is minute.

Can select this 10th line defence for these normal alarm: Vacation, Night, Away, Day.

- 10th line of Defence Activate after Panic(S)

Set the delay time for the 10th line defence, after the delay time when panic alarm(24 Hours Active mode), it will trigger these 10th targets which can be set in the right side window. The time unit is second.

Basic Information | Basic Setting | Auto Dial Out | Arming Settings | Alarm Commands | Vacation Settings | Bypass Settings | **Advanced Security**

Select Device
Device: 1-3-SB-DN-SEC250K () Area No: 1 Enable

When all settings before still can not help you out of danger, you can start the ninth and tenth grade level protection. Each level can be set to 32 goals.

Target Num. From 1 To 10 ☒ 9th Defence ☐ 10th Defence

Function no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
1	0	0	Invalid	1	0	N/A
2	0	0	Invalid	255	255	N/A
3	255	0	Invalid	1	255	N/A
4	255	255	Invalid	1	255	N/A
5	255	255	Invalid	1	0	N/A
6	0	255	Invalid	1	255	N/A
7	255	0	Invalid	1	255	N/A
8	255	255	Invalid	1	255	N/A
9	255	255	Invalid	255	255	N/A
10	255	255	Invalid	255	255	N/A

9th line of Defence Activate after Alarm(M) 3
when Alarm in ☒ vacation ☒ Night ☒ away ☒ Day
9th line of Defence Activate after Panic(s) 10
10th line of Defence Activate after Alarm(M) 4
when Alarm in ☒ vacation ☒ Night ☒ away ☒ Day
10th line of Defence Activate after Panic(s) 20

5.9 Arm Flow

Vacation

- Sensor detection and bypass
- Exit Delay
- **Exit Buzzer and Beep Tone**
- *Auto Arming/Disarming*
- **Vacation Settings**
- *Arming Targets*

Away Arm

- Sensor detection and bypass
- Exit Delay
- **Exit Buzzer and Beep Tone**
- *Auto Arming/Disarming*
- *Arming Targets*

Night Arm

- Sensor detection and bypass
- Exit Delay
- *Auto Arming/Disarming*
- *Arming Targets*

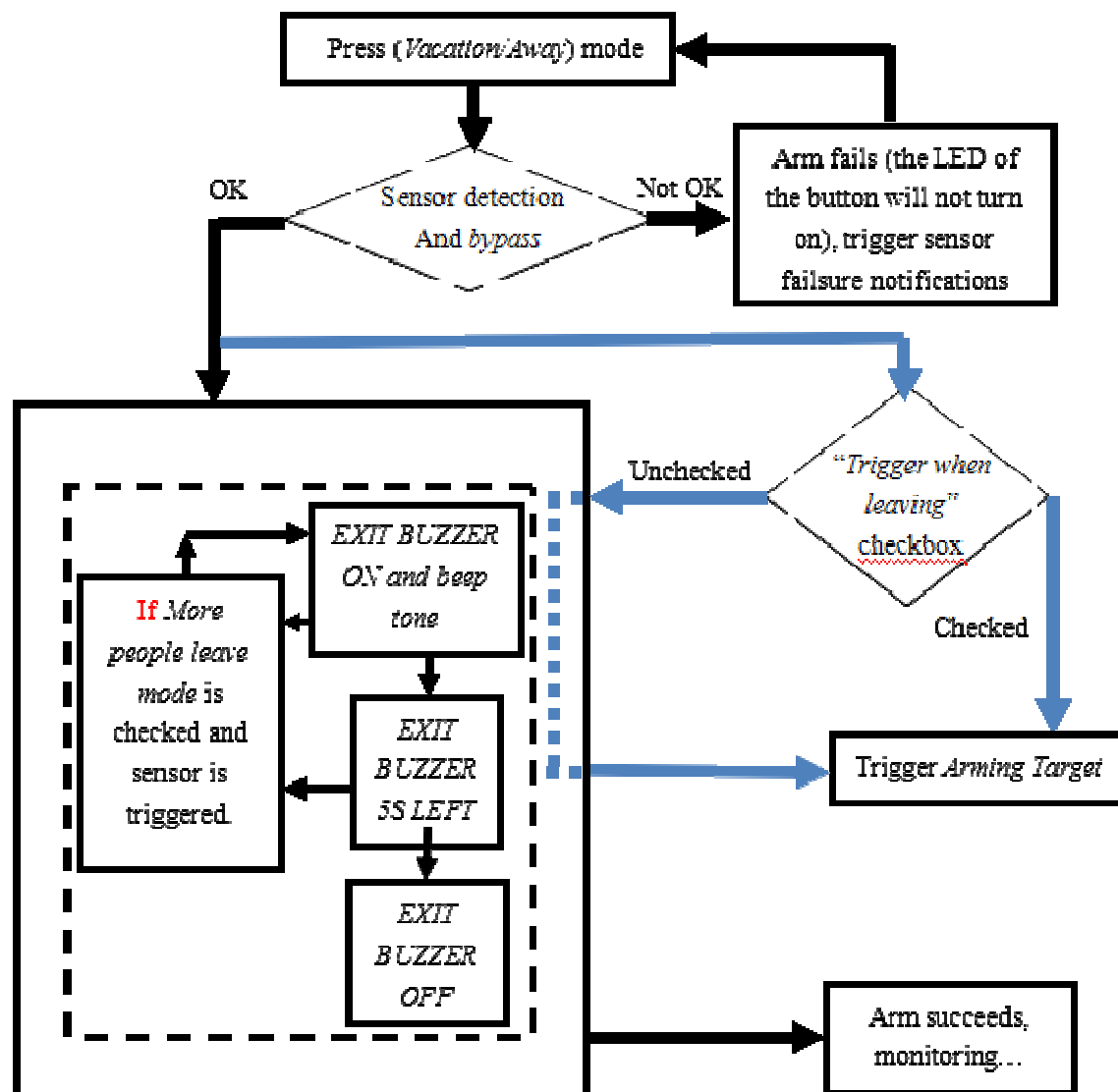
Night For Guest Arm

- Sensor detection and bypass
- Exit Delay
- *Auto Arming/Disarming*
- *Arming Targets*

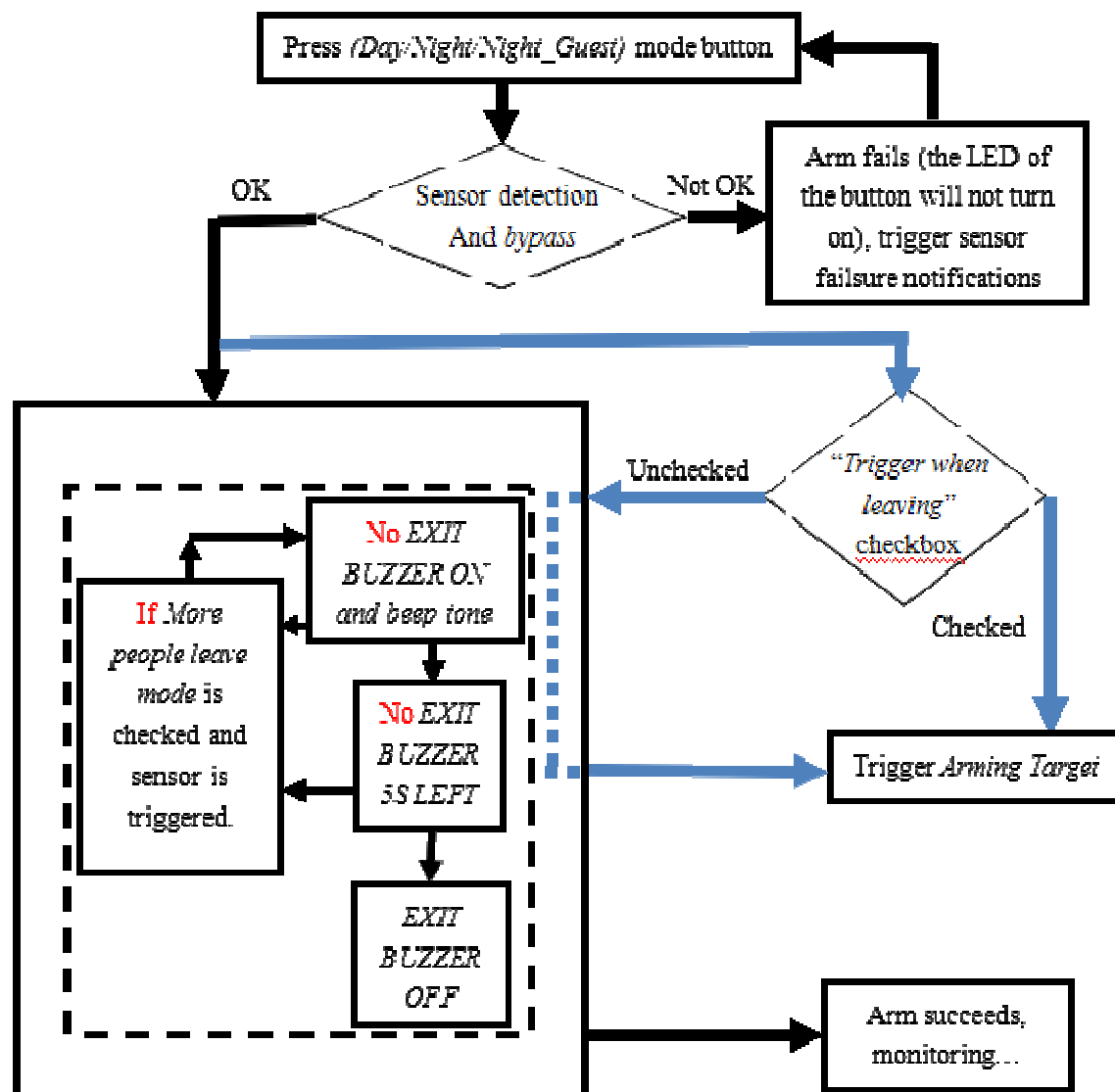
Day Arm

- Sensor detection and bypass
- Exit Delay
- *Auto Arming/Disarming*
- *Arming Targets*

5.9.1 Vacation/Away Mode

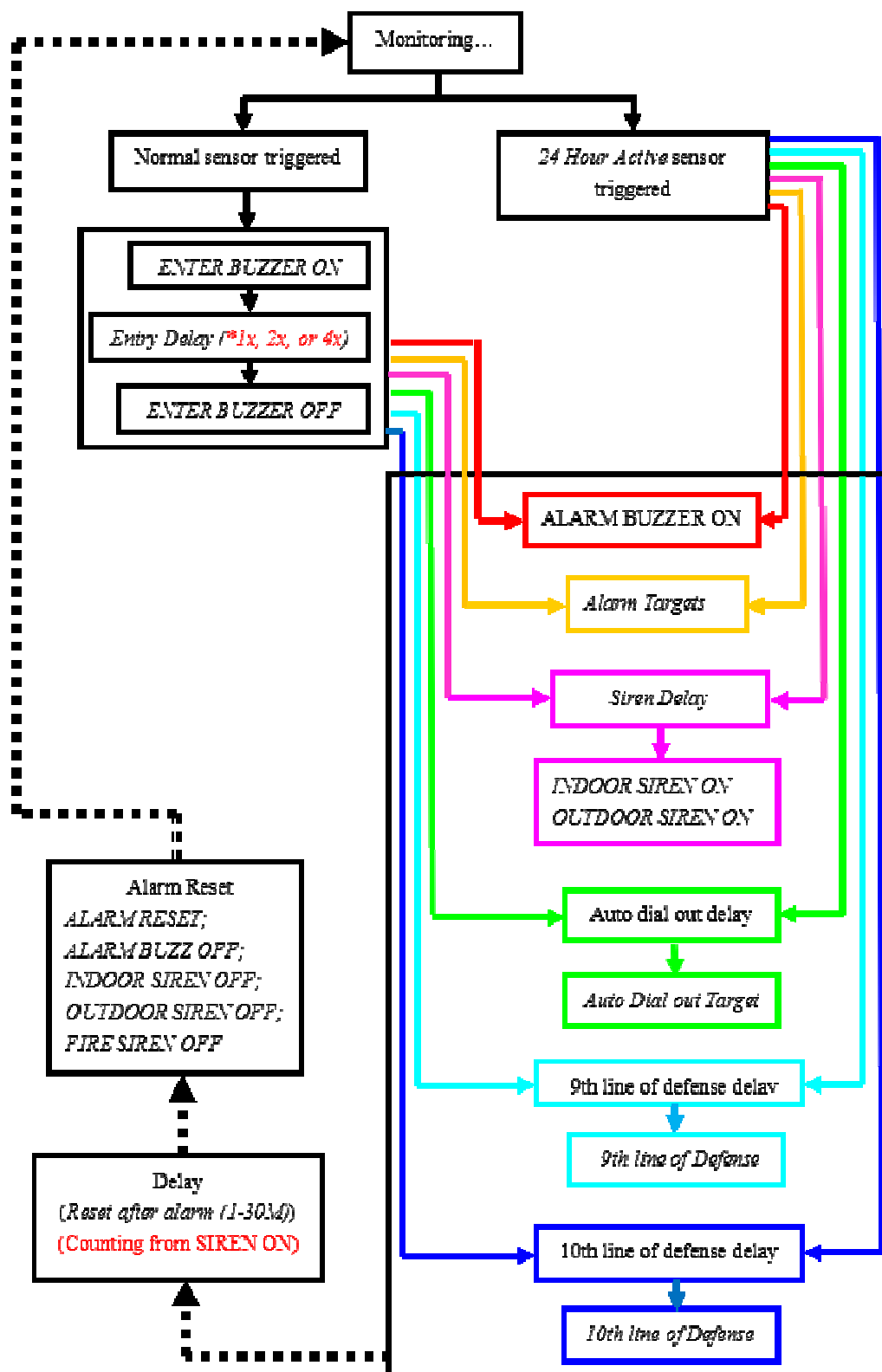


5.9.2 Day/Night/Night_Guest) Mode

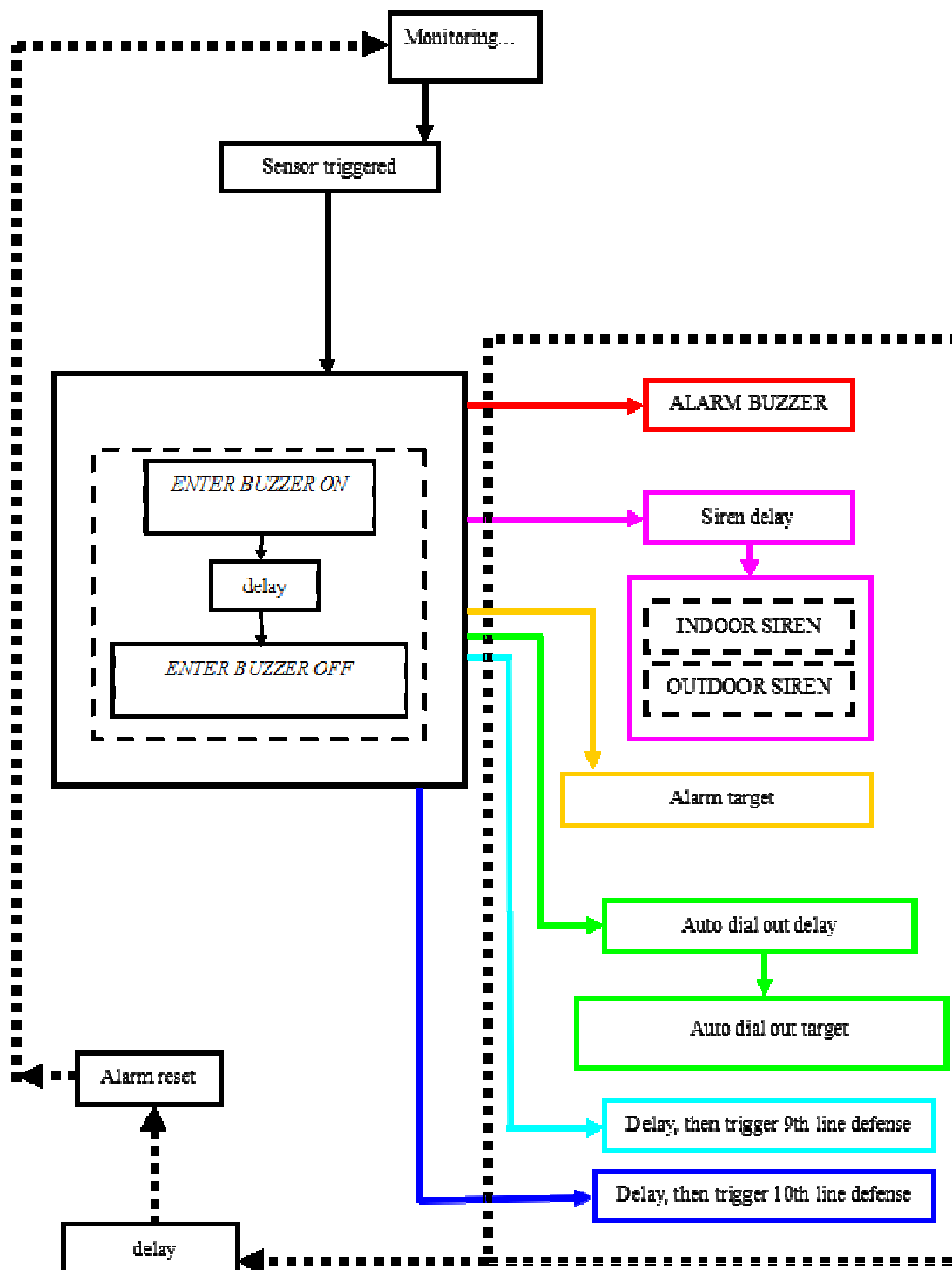


5.10 Alarm Flow

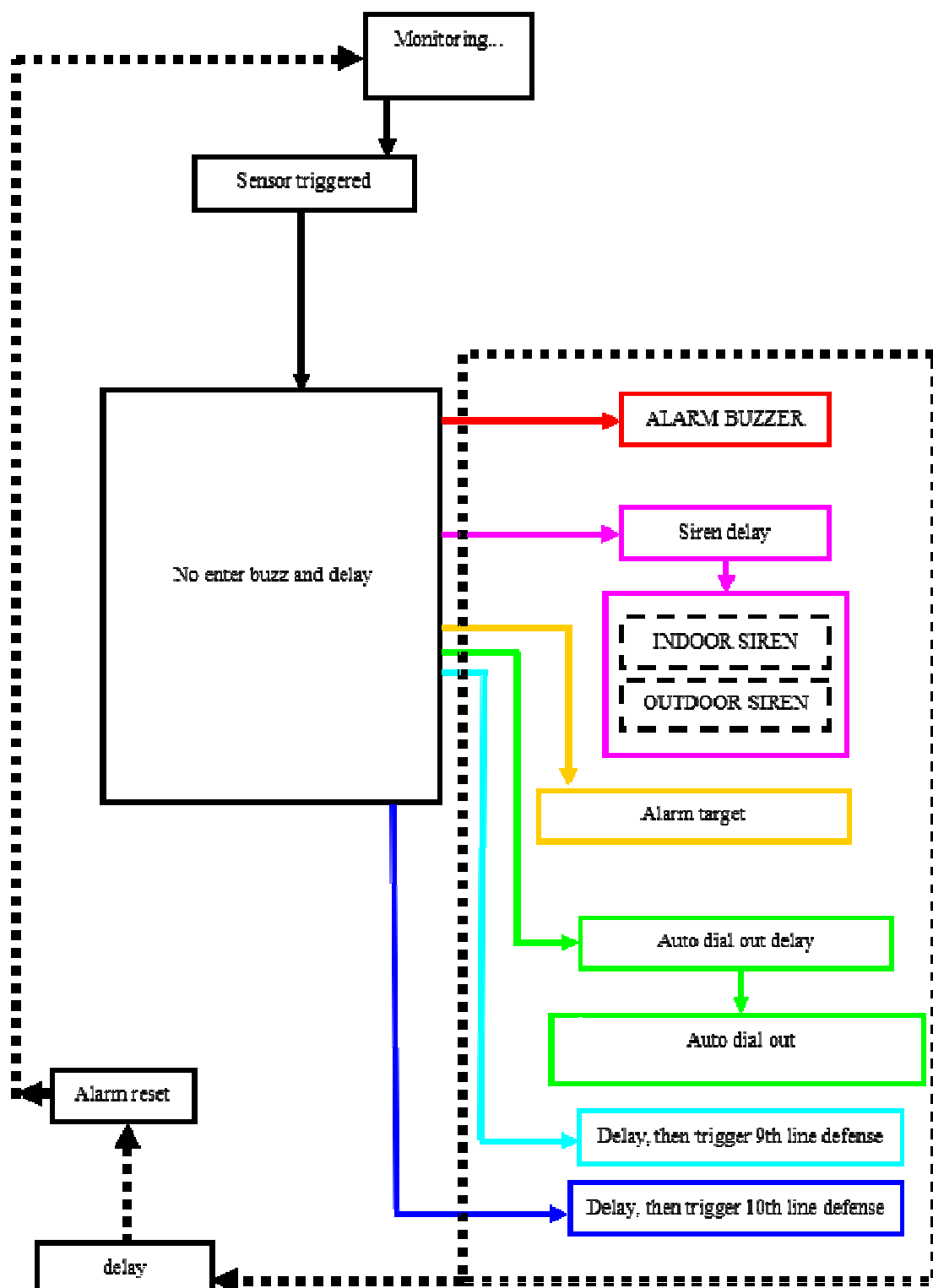
5.10.1 General flow



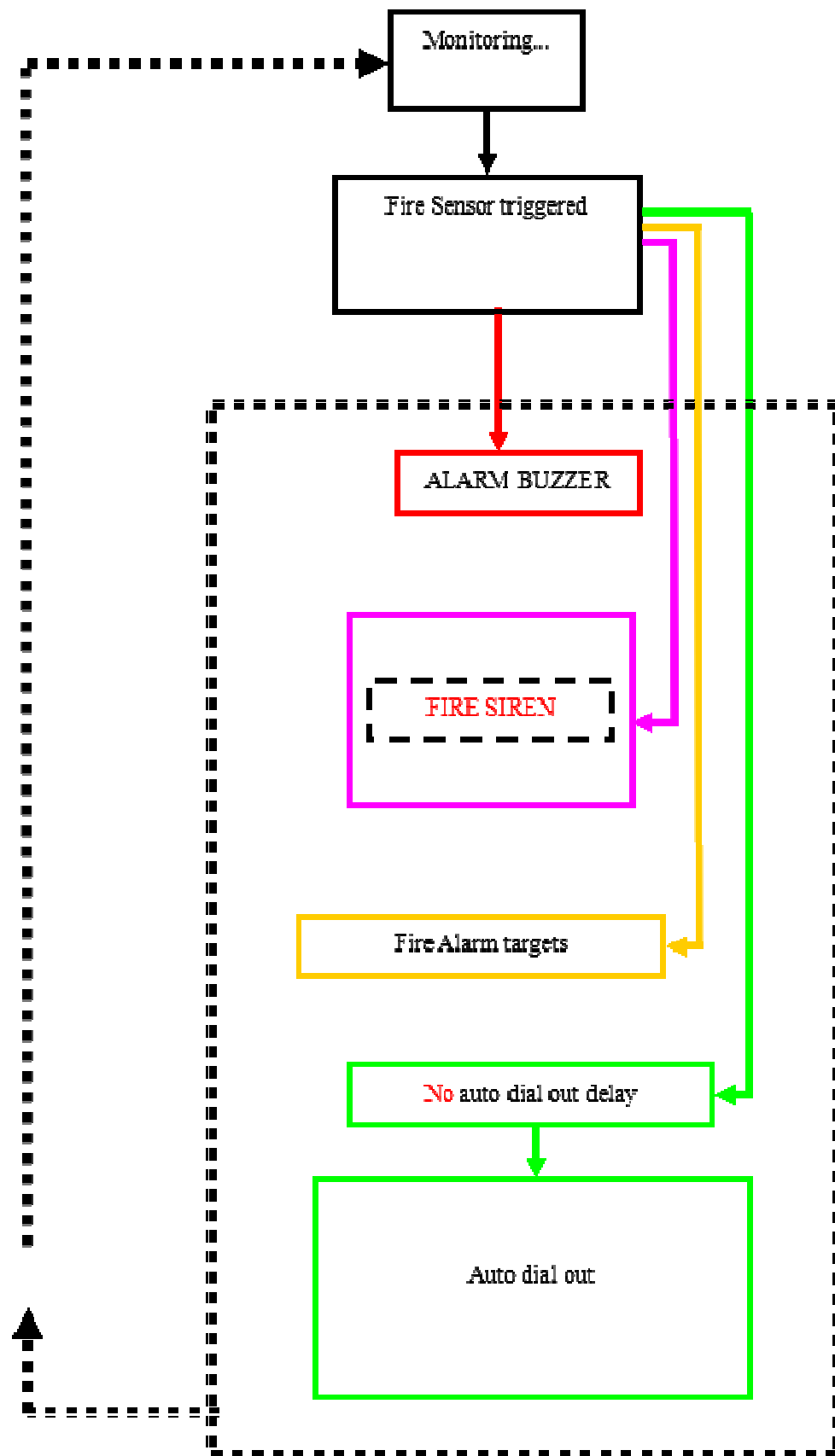
5.10.2 Vacation/Away/Night for Guest/Day Mode



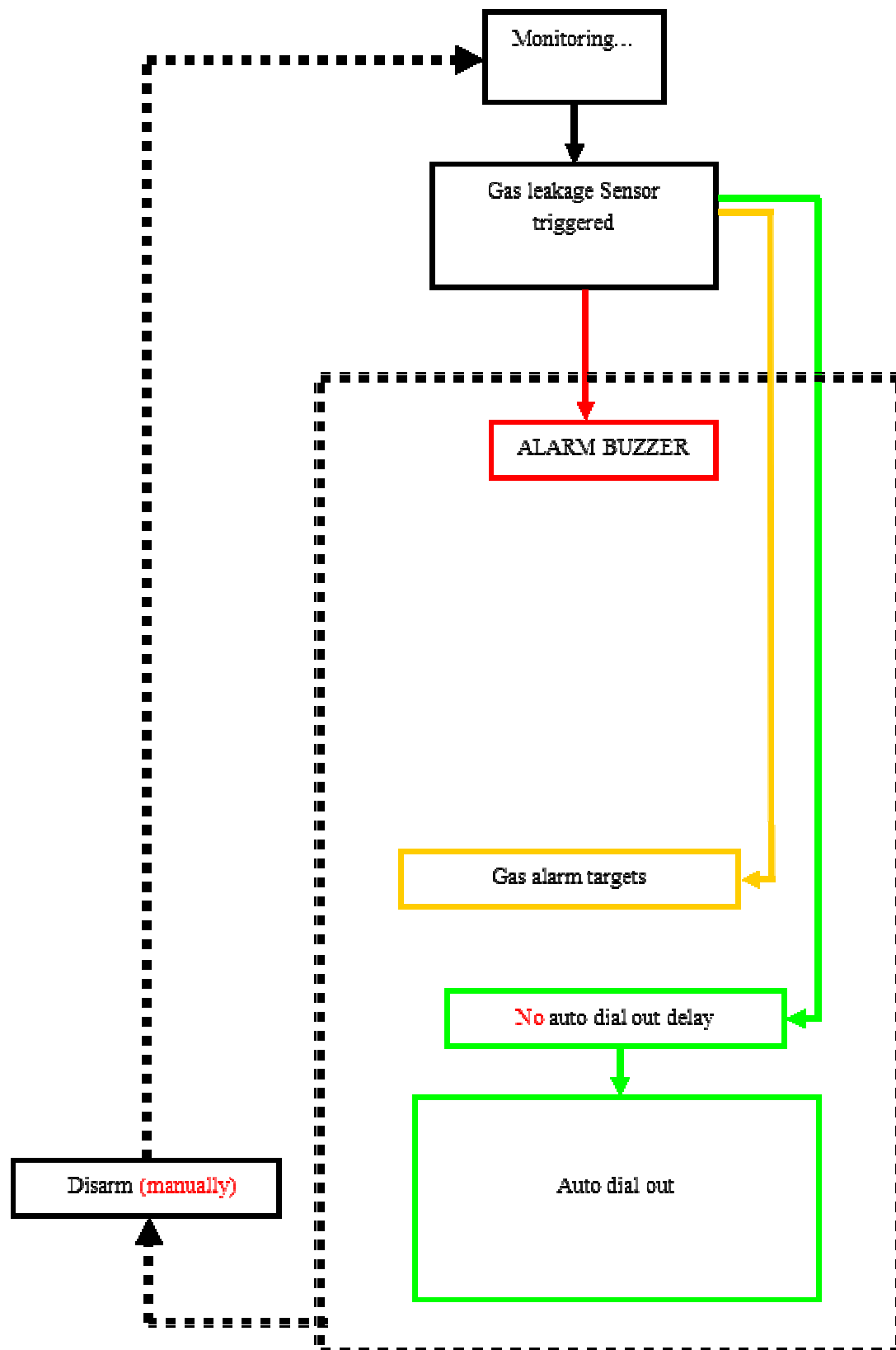
5.10.3 Night Mode



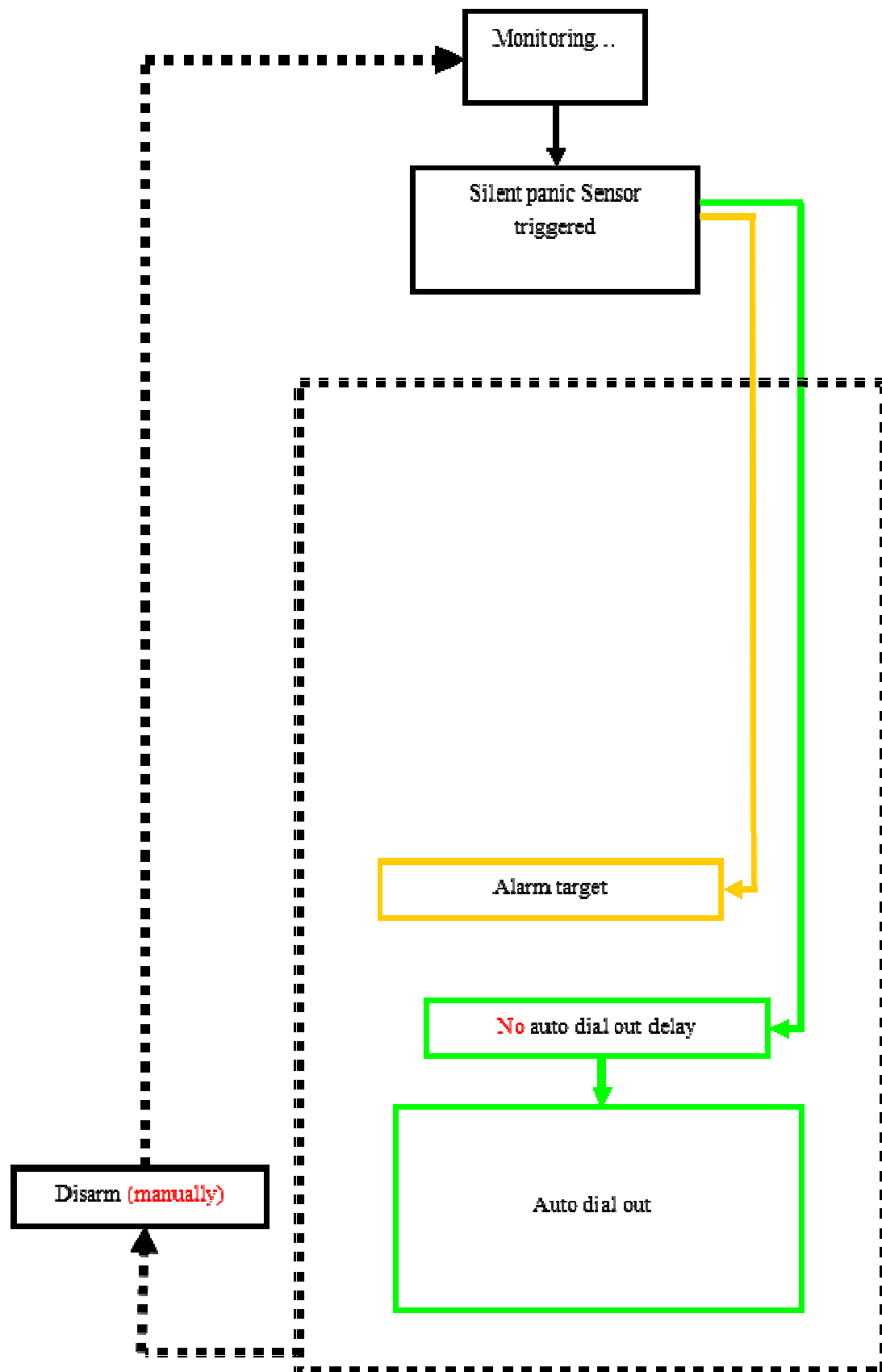
5.10.4 Fire Mode



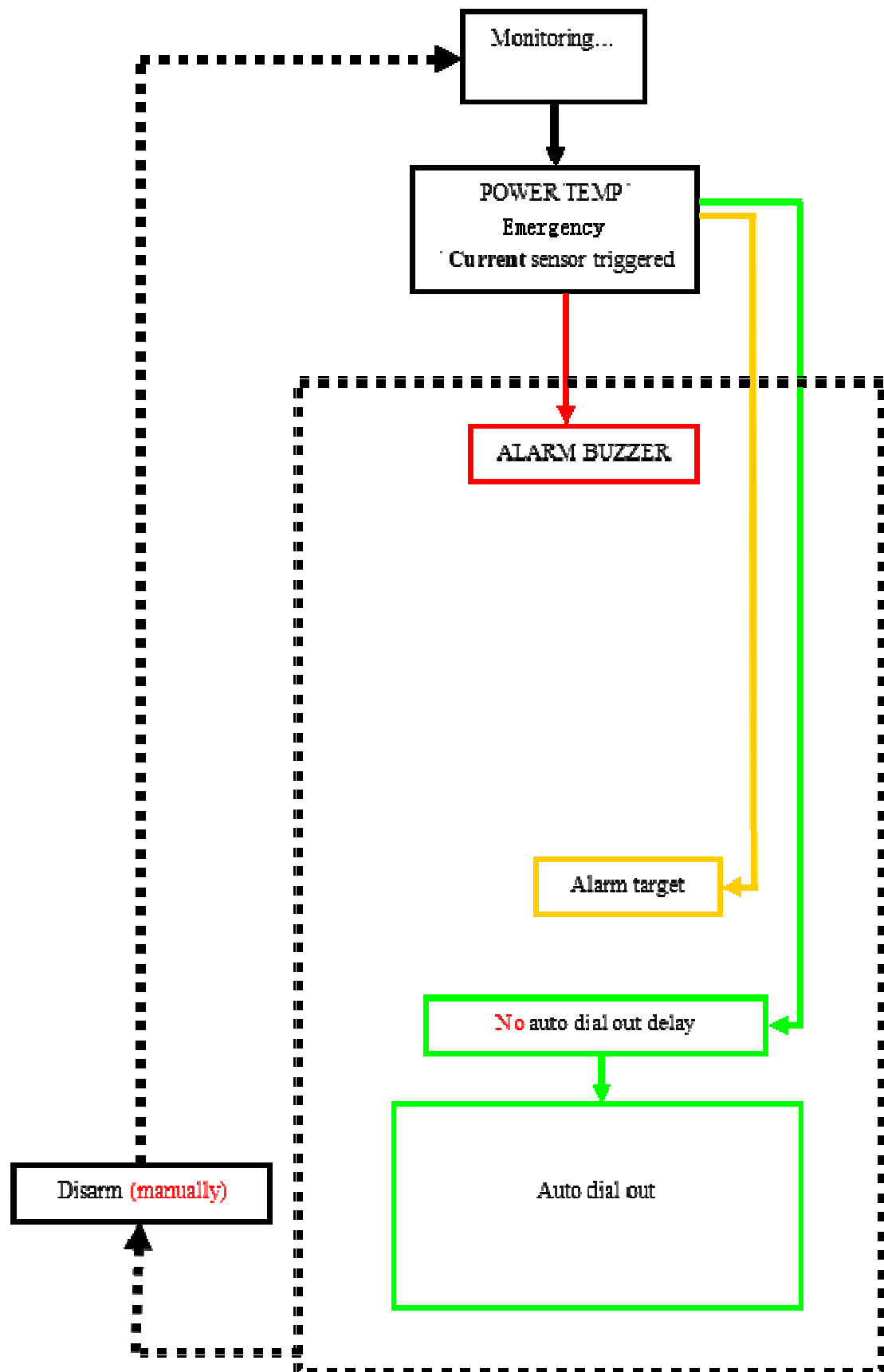
5.10.5 Gas leakage



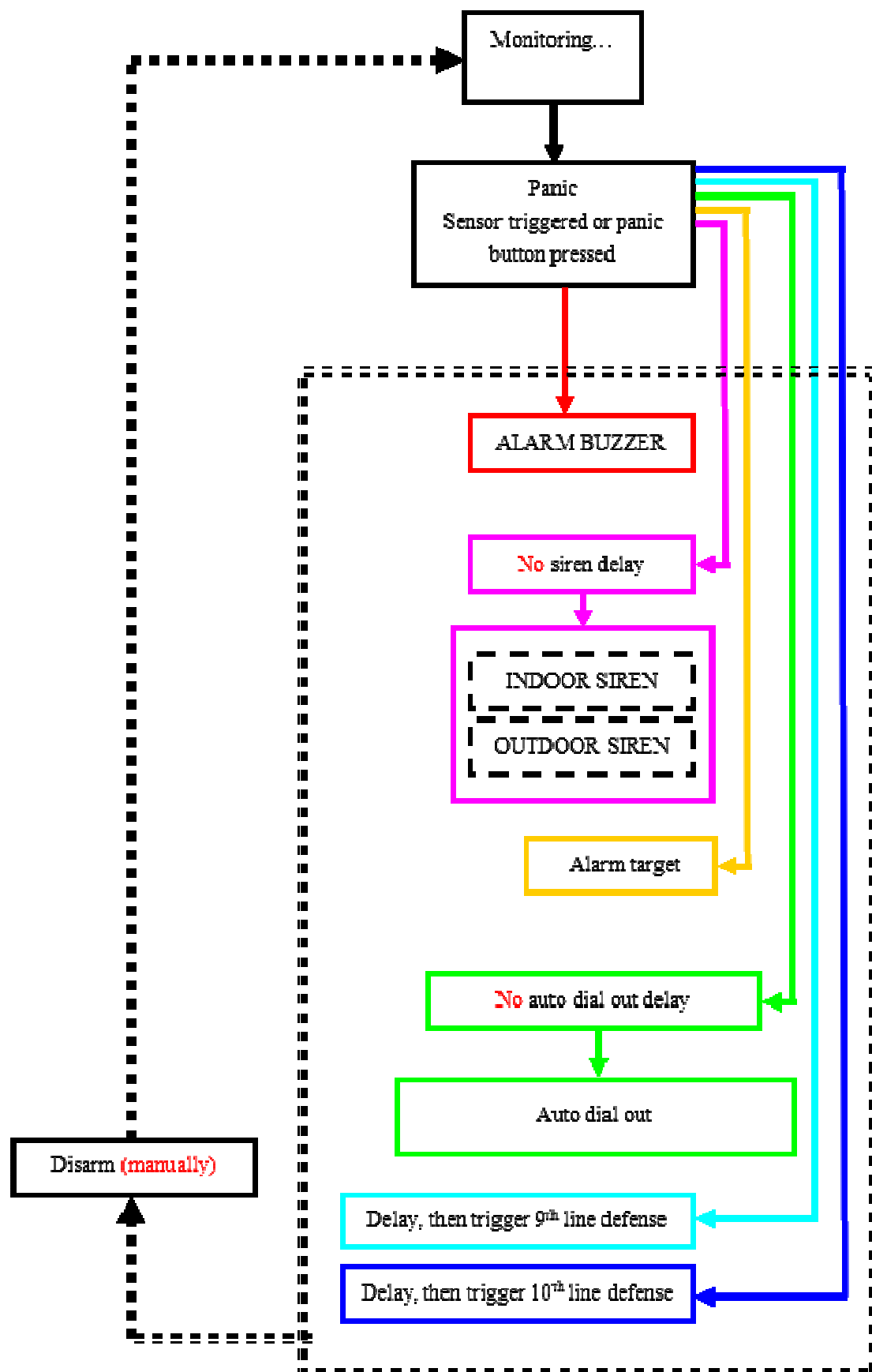
5.10.6 Silent panic



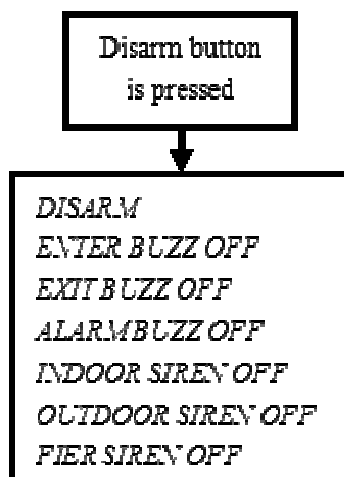
5.10.7 POWER/TEMP/ Emergency/ Current



5.10.8 Panic



5.11 Disarm



6. Application

Security module work with 8in1 sensor, Z-Audio, HDL-MPL8.48, etc. to show the functions of arm(vacation mode), disarm and alarm.

6.1 Panel Settings

- a) Authorize the HDL-MPL8.48 to arm and disarm the system in Arming Settings window of Bypass Settings page, Subnet/Device ID is 1/8.

Alarm+Bypass Arming Settings

Index(1-16) from: 1 To 8 Read

Index	Subnet ID	Device ID	Remark
1	1	8	DLP
2	3	254	iLife
3	1	251	7'touch screen
4	255	255	

- b) Go to HDL-MPL8.48 panel, configure button 1 to arm for vacation mode, key mode is 'single on', Subnet/Device ID is 1/3, key type is 'security module', parameter1(area No.) is 1, and parameter2 is 'vacation'.

Function configuration of current key

Mode	Function no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
Single on	1	1	3	Security Module	1(Area no.)	Vacation	N/A

c) Configure button 2 to disarm, parameter2 is 'disarm', other settings are same as button 1.

Function configuration of current key

Mode	Function no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
Single on	1	1	3	Security Module	1(Area no.)	OFF/Disarm	N/A

6.2 Sensor Settings

a) Go to 8in1's Security Function page, enable the security function of dry contact 1, dry contact 2 and IR sensor. Input the security module's ID, here is 1/3, and select area 1.

eight sensors in one

Basic Information

Security Type: NEW It's new security after 2012/07/05

Remark: ☒ Enable Security

SubNet ID:

Device ID:

Area:

Further Settings of Security

Index	Module Name	Remark
1	Dry contact 1	
2	Dry contact 2	
3	IR Sensor	

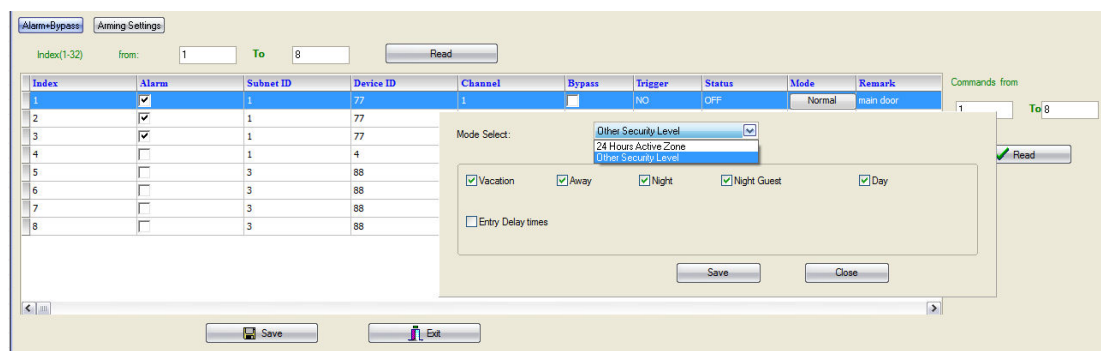
b) Go to security module's Bypass Settings page, enable the alarm for index 1/2/3, input the 8in1 sensor's ID, here is 1/77, and channel 1/2/3(the index No. in 8in1 sensor). Close the doors, and make sure there is no movement in the detection range of 8in1, then refresh this page, you will be able to get the normal status of these three channels in the 'Status' column, here channel1, channel2 and channel 3 status are 'Close', then select 'NC' for them in 'Trigger' column(if it shows 'OFF' under normal situation, then select 'NO' for it)

Alarm Bypass

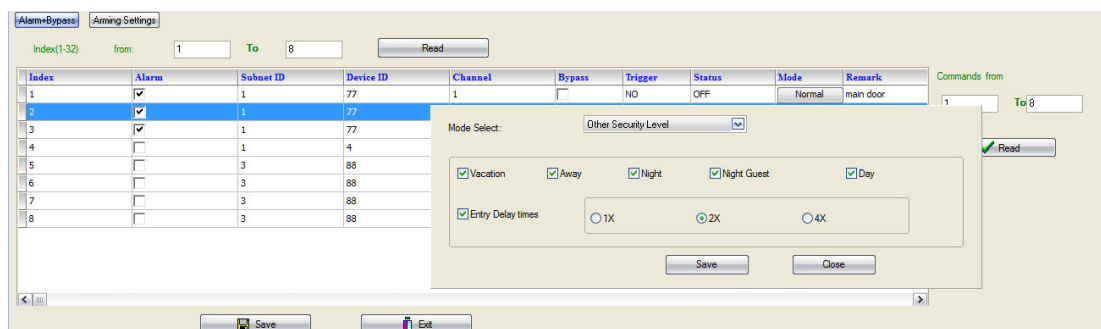
Index(1-32) from: To:

Index	Alarm	Subnet ID	Device ID	Channel	Bypass	Trigger	Status	Mode	Remark
1	<input checked="" type="checkbox"/>	1	77	1	<input type="checkbox"/>	NC	Close	Normal	main door
2	<input checked="" type="checkbox"/>	1	77	2	<input type="checkbox"/>	NC	Close	Normal	sub door
3	<input checked="" type="checkbox"/>	1	77	3	<input type="checkbox"/>	NC	Close	Normal	movement
4	<input type="checkbox"/>	1	4	4	<input type="checkbox"/>	NO	Not Online	Normal	
5	<input type="checkbox"/>	3	88	21	<input type="checkbox"/>	NC	Not Online	Normal	
6	<input type="checkbox"/>	3	88	22	<input type="checkbox"/>	NC	Not Online	Normal	
7	<input type="checkbox"/>	3	88	23	<input type="checkbox"/>	NC	Not Online	Normal	
8	<input type="checkbox"/>	3	88	24	<input type="checkbox"/>	NC	Not Online	Normal	

c) Click the button in 'Mode' column of channel 1, select 'Other Security Level' for mode type, enable 'Vacation', then save.



d) Click the button in 'Mode' column of channel 2, select 'Other Security Level' for mode type, enable 'Vacation', enable 'entry delay times', select '2X'(suppose this door is far away from the HDL-MPL8.48, and it takes more time to disarm when enter from this door, then can select its entry delay time is two/four times of Entry Delay), then save.



e) When press the arm button, the sensor will start to detect the status of these three channels to check whether they are in normal states or not. If all of them are 'Close', then the security will start to arm after Exit Delay. If one of them is not in the normal state(e.g. channel 1 shows 'OFF' status, the main door is still open), then it will fail to arm until you close this door.

Index	Alarm	Subnet ID	Device ID	Channel	Bypass	Trigger	Status	Mode	Remark
1	<input checked="" type="checkbox"/>	1	77	1	<input type="checkbox"/>	NC	OFF	Normal	main door
2	<input checked="" type="checkbox"/>	1	77	2	<input type="checkbox"/>	NC	Close	Normal	sub door
3	<input checked="" type="checkbox"/>	1	77	3	<input type="checkbox"/>	NC	Close	Normal	movement
4	<input type="checkbox"/>	1	4	4	<input type="checkbox"/>	NO	Not Online	Normal	
5	<input type="checkbox"/>	3	88	21	<input type="checkbox"/>	NC	Not Online	Normal	
6	<input type="checkbox"/>	3	88	22	<input type="checkbox"/>	NC	Not Online	Normal	
7	<input type="checkbox"/>	3	88	23	<input type="checkbox"/>	NC	Not Online	Normal	
8	<input type="checkbox"/>	3	88	24	<input type="checkbox"/>	NC	Not Online	Normal	

The users can double click index1/2/3 rows to set some warning targets when fails to arm.

e.g. if chann1 is OFF when trying to arm, will play the 5th warning tone from the Z-Audio,

Alarm+Bypass Arming Settings

Index(1-32) from: 1 To 8 Read

Index	Alarm	Subnet ID	Device ID	Channel	Bypass	Trigger	Status	Mode	Remark
1	<input checked="" type="checkbox"/>	1	77	1	<input type="checkbox"/>	NC	OFF	Normal	main door
2	<input type="checkbox"/>								
3	<input type="checkbox"/>								
4	<input type="checkbox"/>								
5	<input type="checkbox"/>								
6	<input type="checkbox"/>								
7	<input type="checkbox"/>								
8	<input type="checkbox"/>								

Basic information:

Data acquisition mode: Device Model: SB-DN-SEC250K

Subnet ID: 1 Device ID: 3

Remark: Current key No.: 1

Current group: 1

☐ Modify subnet ID synchronously ☐ Modify the intensity synchronously

☐ Modify device ID synchronously ☐ Modify the running time synchronously

☐ Modify type synchronously

Object no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
1	1	9	Universal switch	208(Switch no.)	On(Switch Status)	N/A
2	1	9	Universal switch	150(Switch no.)	On(Switch Status)	N/A
3	1	9	Universal switch	5(Switch no.)	On(Switch Status)	N/A
4	1	9	Invalid	255	255	N/A

Standby

Communt

f) Also users can enable the 'Bypass' function of channel 1, then the sensor will not detect this channel status when trying to arm. This is very useful when you need to walk out through one door after arm from the DLP Panel inside the room.

Alarm+Bypass Arming Settings

Index(1-32) from: 1 To 8 Read

Index	Alarm	Subnet ID	Device ID	Channel	Bypass	Trigger	Status	Mode	Remark
1	<input checked="" type="checkbox"/>	1	77	1	<input checked="" type="checkbox"/>	NC	OFF	Normal	main door
2	<input checked="" type="checkbox"/>	1	77	2	<input type="checkbox"/>	NC	Close	Normal	sub door
3	<input checked="" type="checkbox"/>	1	77	3	<input type="checkbox"/>	NC	Close	Normal	movement
4	<input type="checkbox"/>	1	4	4	<input type="checkbox"/>	NO	Not Online	Normal	
5	<input type="checkbox"/>	3	88	21	<input type="checkbox"/>	NC	Not Online	Normal	
6	<input type="checkbox"/>	3	88	22	<input type="checkbox"/>	NC	Not Online	Normal	
7	<input type="checkbox"/>	3	88	23	<input type="checkbox"/>	NC	Not Online	Normal	
8	<input type="checkbox"/>	3	88	24	<input type="checkbox"/>	NC	Not Online	Normal	

Save Exit

6.3 Vacation Settings

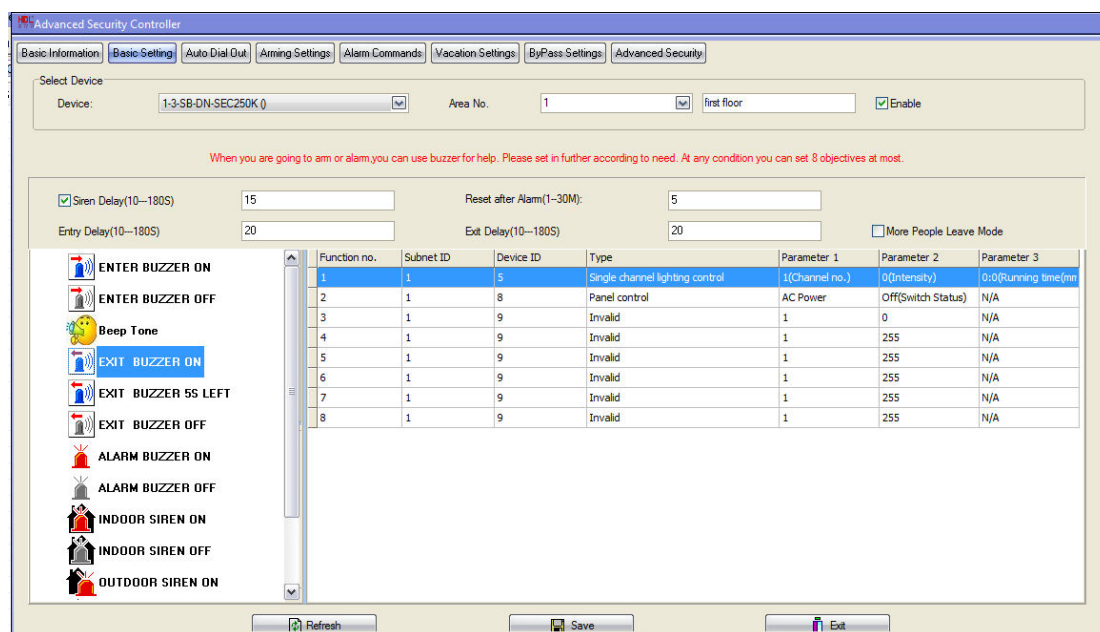
1. Before leave for vacation, press the 'vacation mode' button, turn off AC and light, the music player will play a voice hint. After 20s (Exit Delay), the security module starts to arm the house.

a) Set 20s for Exit Delay

☒ Siren Delay(10--180S) 15 Reset after Alarm(1--30M): 5

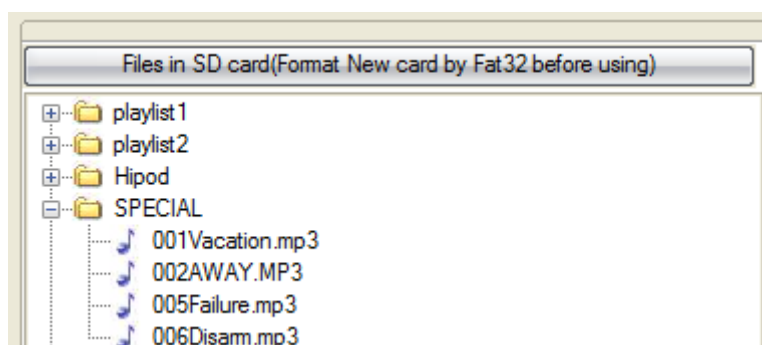
Entry Delay(10--180S) 20 Exit Delay(10--180S) 20

b) Turn off channel 1 of relay(Subnet/Device ID is 1/5) and AC which is controlled by HDL-MPL8.48(Subnet/Device ID is 1/8) in 'EXIT BUZZER ON' window (user can set any targets they need, then when press arm button, it will trigger these targets)



c) Trigger the Z-Audio (create a folder and name it 'special' in SD card, put some voice files (.mp3 and sort them with a header '001xx', '002x', '003xx'...)) to play a voice hint from the 'VACATION ARM' window, need to set three commands here(Check the universal switch list of Z-Audio):

- 1- send universal switch 208, ON(Select Audio source – SD Card)
- 2- send universal switch 150, ON(Select List – 150 is reserved for folder 'special')
- 3- send universal switch 1-149, ON(Select the number that at front of voice)



Here the voice hint for vacation is '001Vacation', then set three commands to trigger it.

The ID of Z-Audio is 1/9, the third command's parameter1 is 1.

Advanced Security Controller

Basic Information Basic Setting Auto Dial Out **Arming Settings** Alarm Commands Vacation Settings ByPass Settings Advanced Security

Select Device
Device: 1-3-SB-DN-SEC250K (0) Area No. 1 Enable

Different types of arming can set different goals. Each type can be set up to 32 targets.

VACATION ARM
AWAY ARM
NIGHT ARM
NIGHT_G ARM
DAY ARM
DISARM ARM

☒ Trigger when leaving Arming Target From 1 To 8

Function no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
1	1	9	Universal switch	208(Switch no.)	On(Switch Status)	N/A
2	1	9	Universal switch	150(Switch no.)	On(Switch Status)	N/A
3	1	9	Universal switch	1(Switch no.)	On(Switch Status)	N/A
4	1	9	Invalid	1	0	N/A
5	1	9	Invalid	1	0	N/A
6	1	9	Invalid	1	0	N/A
7	1	9	Invalid	1	0	N/A
8	1	9	Invalid	1	0	N/A

2. The room lights will turn on at 6:00, and turn off at 7:00 in the morning, and turn on at 20:00, turn off at 23:00 in the evening.

a) Enable index 1, set the 'Start Time' is 6:00, and the 'End Time' is 7:00.

Advanced Security Controller

Basic Information Basic Setting Auto Dial Out Arming Settings Alarm Commands **Vacation Settings** ByPass Settings Advanced Security

Select Device
Device: 1-3-SB-DN-SEC250K (0) Area No. 1 Enable

In holiday you can set 8 time period to automatically start and stop working. Each period can be set up to 32 targets.

Target Num. From 1 To 10 ☒ ON ☐ OFF

Enable	Index	Start Time	End Time
<input checked="" type="checkbox"/>	1	0:6:0	0:7:0
<input checked="" type="checkbox"/>	2	20:0:0	23:0:0
<input type="checkbox"/>	3	0:0:0	0:0:0
<input type="checkbox"/>	4	0:0:0	0:0:0
<input type="checkbox"/>	5	0:0:0	0:0:0
<input type="checkbox"/>	6	0:0:0	0:0:0
<input type="checkbox"/>	7	0:0:0	0:0:0
<input type="checkbox"/>	8	0:0:0	0:0:0

Function no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
1	1	5	Single channel lighting control	1(Channel no.)	100(Intensity)	0:0(Running time(m))
2	1	11	Invalid	1	100	N/A
3	1	11	Invalid	1	100	N/A
4	1	11	Invalid	1	100	N/A
5	1	11	Invalid	1	100	N/A
6	1	11	Invalid	1	100	N/A
7	1	11	Invalid	1	100	N/A
8	1	11	Invalid	1	100	N/A
9	1	11	Invalid	1	100	N/A
10	1	11	Invalid	1	100	N/A

b) Select 'ON' in the right side, setup to turn on channel1 of relay(ID is 1/5). When the time reaches 6:00, it will turn on it.

Advanced Security Controller

Basic Information Basic Setting Auto Dial Out Arming Settings Alarm Commands **Vacation Settings** ByPass Settings Advanced Security

Select Device
Device: 1-3-SB-DN-SEC250K (0) Area No. 1 Enable

In holiday you can set 8 time period to automatically start and stop working. Each period can be set up to 32 targets.

Target Num. From 1 To 10 ☒ ON ☐ OFF

Enable	Index	Start Time	End Time
<input checked="" type="checkbox"/>	1	0:6:0	0:7:0
<input checked="" type="checkbox"/>	2	20:0:0	23:0:0
<input type="checkbox"/>	3	0:0:0	0:0:0
<input type="checkbox"/>	4	0:0:0	0:0:0
<input type="checkbox"/>	5	0:0:0	0:0:0
<input type="checkbox"/>	6	0:0:0	0:0:0
<input type="checkbox"/>	7	0:0:0	0:0:0
<input type="checkbox"/>	8	0:0:0	0:0:0

Function no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
1	1	5	Single channel lighting control	1(Channel no.)	100(Intensity)	0:0(Running time(m))
2	1	11	Invalid	1	100	N/A
3	1	11	Invalid	1	100	N/A
4	1	11	Invalid	1	100	N/A
5	1	11	Invalid	1	100	N/A
6	1	11	Invalid	1	100	N/A
7	1	11	Invalid	1	100	N/A
8	1	11	Invalid	1	100	N/A
9	1	11	Invalid	1	100	N/A
10	1	11	Invalid	1	100	N/A

c) Select 'OFF' in the right side, setup to turn off channel1 of relay(ID is 1/5). When the

time reaches 7:00, it will turn off it.

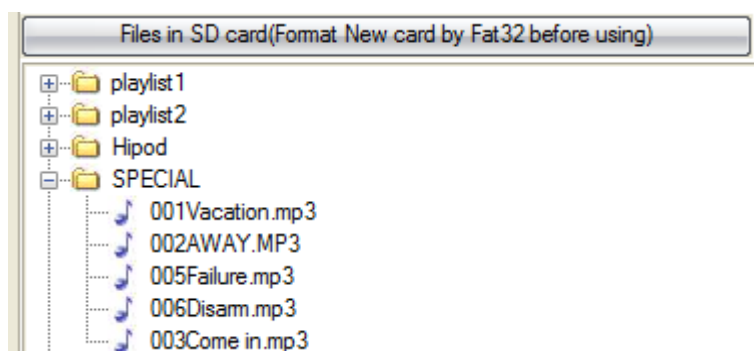
Target Num. From <input type="text" value="1"/> To <input type="text" value="10"/> <input type="radio"/> ON <input checked="" type="radio"/> OFF						
Function no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
1	1	5	Single channel lighting control	1(Channel no.)	0(Intensity)	0:0(Running time(mi
2	255	255	Invalid	255	255	N/A
3	255	255	Invalid	255	255	N/A
4	255	255	Invalid	255	255	N/A
5	255	255	Invalid	255	255	N/A
6	255	255	Invalid	255	255	N/A
7	255	255	Invalid	255	255	N/A
8	255	255	Invalid	255	255	N/A
9	255	255	Invalid	255	255	N/A
10	255	255	Invalid	255	255	N/A

d) Enable index 2, set the 'Start Time' is 20:00, and the 'End Time' is 23:00, follow above settings to turn on lights at 20:00, turn off at 23:00 in the evening.

In holiday, you can			
Enable	Index	Start Time:	End Time:
<input checked="" type="checkbox"/>	1	0:6:0	0:7:0
<input checked="" type="checkbox"/>	2	20:0:0	23:0:0
<input type="checkbox"/>	3	0:0:0	0:0:0
<input type="checkbox"/>	4	0:0:0	0:0:0
<input type="checkbox"/>	5	0:0:0	0:0:0

3. When there is someone opening the door, then 8in1 sensor's detected status will change(no movement -> movement, dry contact: connected ->disconnected), it will report to the security module, then security module will trigger to the Z-Audio to play 'welcome home' voice hint.

a) Make sure there is one voice hint for come back in special folder of SD Card. Here it is '003Come in'



b) Go to 'ENTER BUZZER ON', setup to trigger the Z-Audio(ID is 1/9) to play the 3rd voice when open the door.

The screenshot shows the 'Advanced Security Controller' interface with the 'Basic Settings' tab selected. The 'Device' is set to '1-3-SB-DN-SEC250K.0' and 'Area No.' is '1'. The 'Siren Delay(10--180S)' is set to 15, 'Entry Delay(10--180S)' is 20, and 'Reset after Alarm(1--30M)' is 5. The 'Exit Delay(10--180S)' is 20. The 'More People Leave Mode' checkbox is unchecked. The 'ENTER BUZZER ON' button is highlighted. Below the settings, a table lists functions and their parameters.

Function no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
1	1	9	Universal switch	208(Switch no.)	On(Switch Status)	N/A
2	1	9	Universal switch	150(Switch no.)	On(Switch Status)	N/A
3	1	9	Universal switch	3(Switch no.)	On(Switch Status)	N/A
4	1	9	Invalid	1	0	N/A
5	1	9	Invalid	1	0	N/A
6	1	9	Invalid	1	0	N/A
7	1	9	Invalid	1	0	N/A
8	1	9	Invalid	1	0	N/A

4. The house owner go to the HDL-MPL8.48 to press the disarm button within 20s (Entry Delay), then security module will work under the non-monitoring mode. Better to set password for this arm/disarm page, then only the owner can access it to control.

5. If it's not the house owner, after 20s (Entry Delay), will turn to alarm. After 5 minutes of alarm, still not disarm, stop alarm. When there are more triggers from 8in1 sensor, it will start to alarm again, and that cycle repeats.

a) Set 20s for Entry Delay, 15s for Siren Delay, 5 minutes for Reset after Alarm.

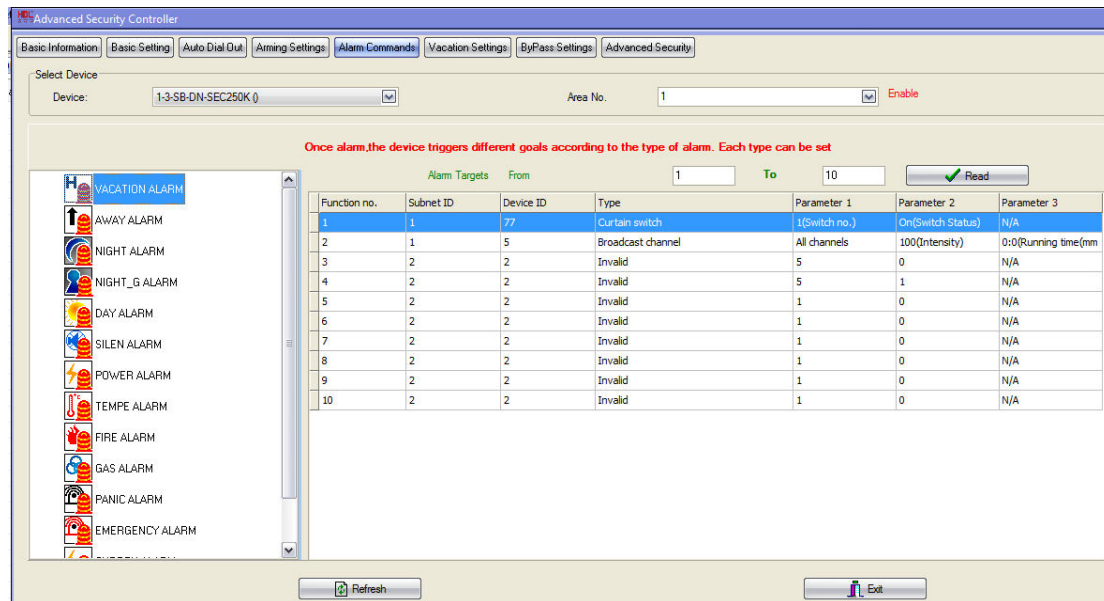
The screenshot shows the 'Siren Delay(10--180S)' set to 15, 'Entry Delay(10--180S)' set to 20, 'Reset after Alarm(1--30M)' set to 5, and 'Exit Delay(10--180S)' set to 20.

b) Can set to trigger the alarm buzzer after 20s, e.g. the alarm buzzer is connected to channel 1 of one relay(ID is 1/6), then can set as below:

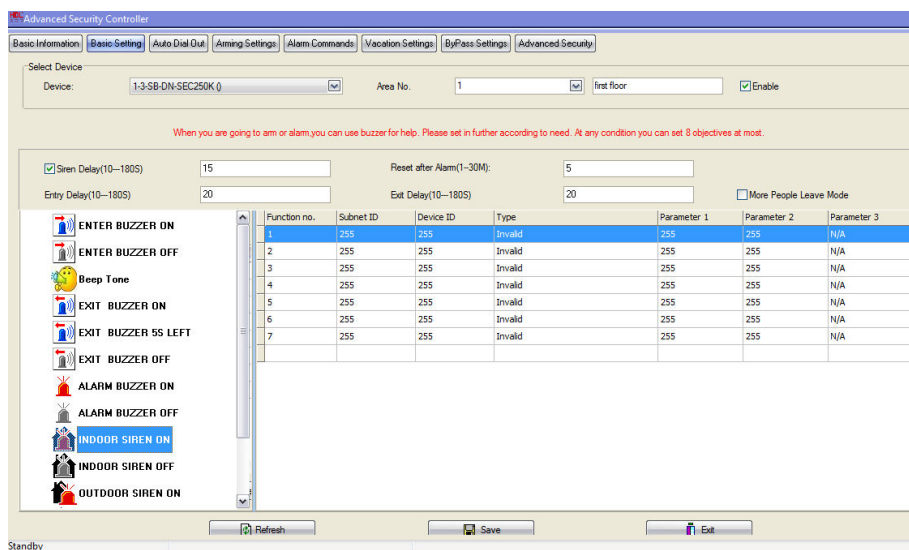
The screenshot shows the 'ALARM BUZZER ON' button highlighted. Below the settings, a table lists functions and their parameters.

Function no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
1	1	6	Single channel lighting control	1(Channel no.)	100(Intensity)	0:0(Running time/min)
2	1	2	Invalid	150	0	N/A
3	1	2	Invalid	1	0	N/A
4	0	0	Invalid	255	255	N/A
5	255	255	Invalid	255	255	N/A
6	255	255	Invalid	255	255	N/A
7	255	255	Invalid	255	255	N/A
8	255	255	Invalid	255	255	N/A

c) It will trigger the alarm targets in the 'VACATION ALARM' after 20s at the same time. Here set to open the curtain and turn on lights when alarm.



d) After the Siren Delay, here it's 15s, if still not disarm, it will trigger the targets in 'INDOOR SIREN ON' and 'OUTDOOR SIREN ON'.



After 5 minutes, it will restart into the monitoring state, if there are more triggers, it will trigger the buzzer, siren, alarm and so on then realize that monitor and alarm circularly.

