

HDL[®]

**Security module
HDL-MSM.431**

HDL[®]



Description

SB-DN-SEC250K is a security module, which has the function of sensor status and logic implement, to monitor and alarm in real time for abnormal situation of home.



Functions:

- It can protect 8 different independent areas
- Multiple arming modes: away, holiday, evening, daytime, timing, etc.
- Multiple alarm modes: invade, fire, temperature, emergency, etc.
- Multi-Level security protection.

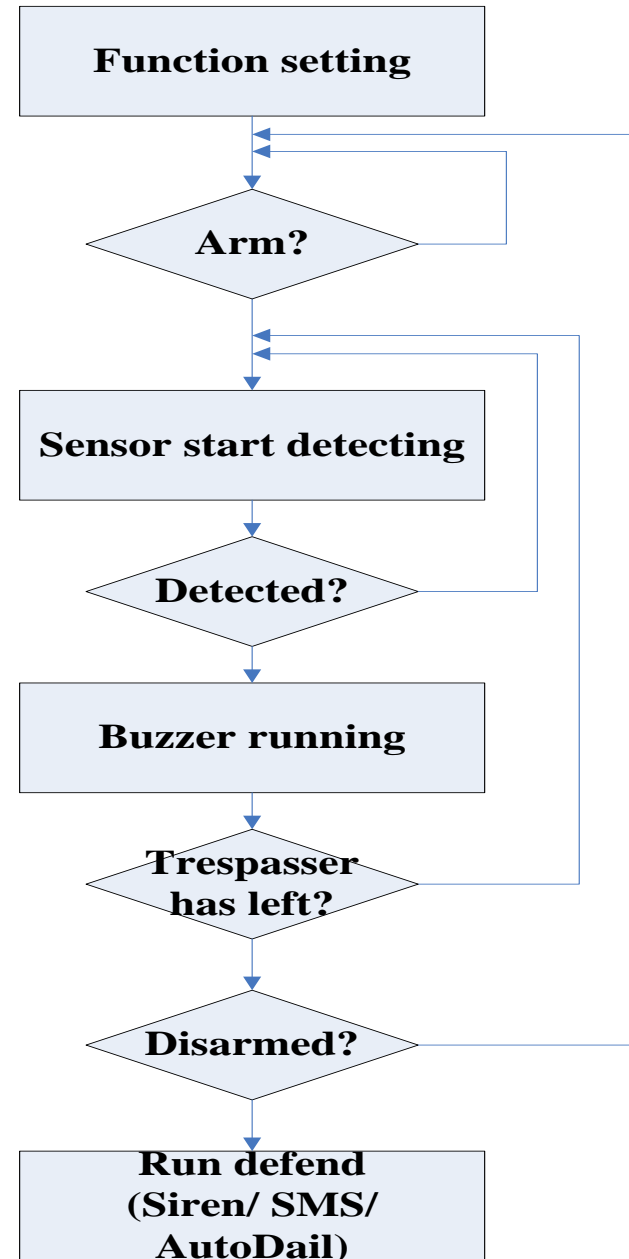
Work Flow

Arm/disarm:
Enable/disable security function

Buzzer:
To urge the owner/trespasser to
disarm/leave

Siren:
Alarm

(you can check more details on user
manual of security module)



Setup steps

1. Enable the security function of sensors.
2. Register the sensors in security module and refresh, see if the security module can get the status of sensors. (also you can set some indicators in security module, so that when arming fails you would know which sensor channel fails - e.g., window1 still open, door2 still open...)
3. Choose DLP as a user interface to arm and disarm. (better to use DLP because DLP can set one password to protect the control – long press the first and fourth buttons at the same time to jump to setting page, [ftp://59.41.255.150/en\(enlish\)/HDL%20Buspro/HDL%20Buspro%20Products/SB-DN-SEC250K/](ftp://59.41.255.150/en(enlish)/HDL%20Buspro/HDL%20Buspro%20Products/SB-DN-SEC250K/))
4. Register the panel in security module
5. Find a SD card (<8GB, recommend to use Kingston card) and format it as FAT32, create a folder and name it “special”, put some voice files (.mp3 and sort them with a header “001”, “002”, “003”).
6. Fill in targets in security module and have a test.
7. Check the “security workflow.doc”
([ftp://59.41.255.150/en\(enlish\)/HDL%20Buspro/HDL%20Buspro%20Products/SB-DN-SEC250K/](ftp://59.41.255.150/en(enlish)/HDL%20Buspro/HDL%20Buspro%20Products/SB-DN-SEC250K/))

Sensor/dry contact security setup

enable the security function (take 7in1 sensor as example)

Index	Sensor	Enable	Name	Subnet ID	Device ID	Area No.
1	Dry contact 1	<input checked="" type="checkbox"/>		42	11	1
2	Dry contact 2	<input type="checkbox"/>		42	11	1
3	IR sensor	<input checked="" type="checkbox"/>		42	11	1

Channel ID in security module's bypass page

Enable security function, and fill in the ID of security module

Sensor status

Update status automatically

Current temperature: 26C

PIR: No-movement

Brightness: 14Lux

Dry contact 1: OFF

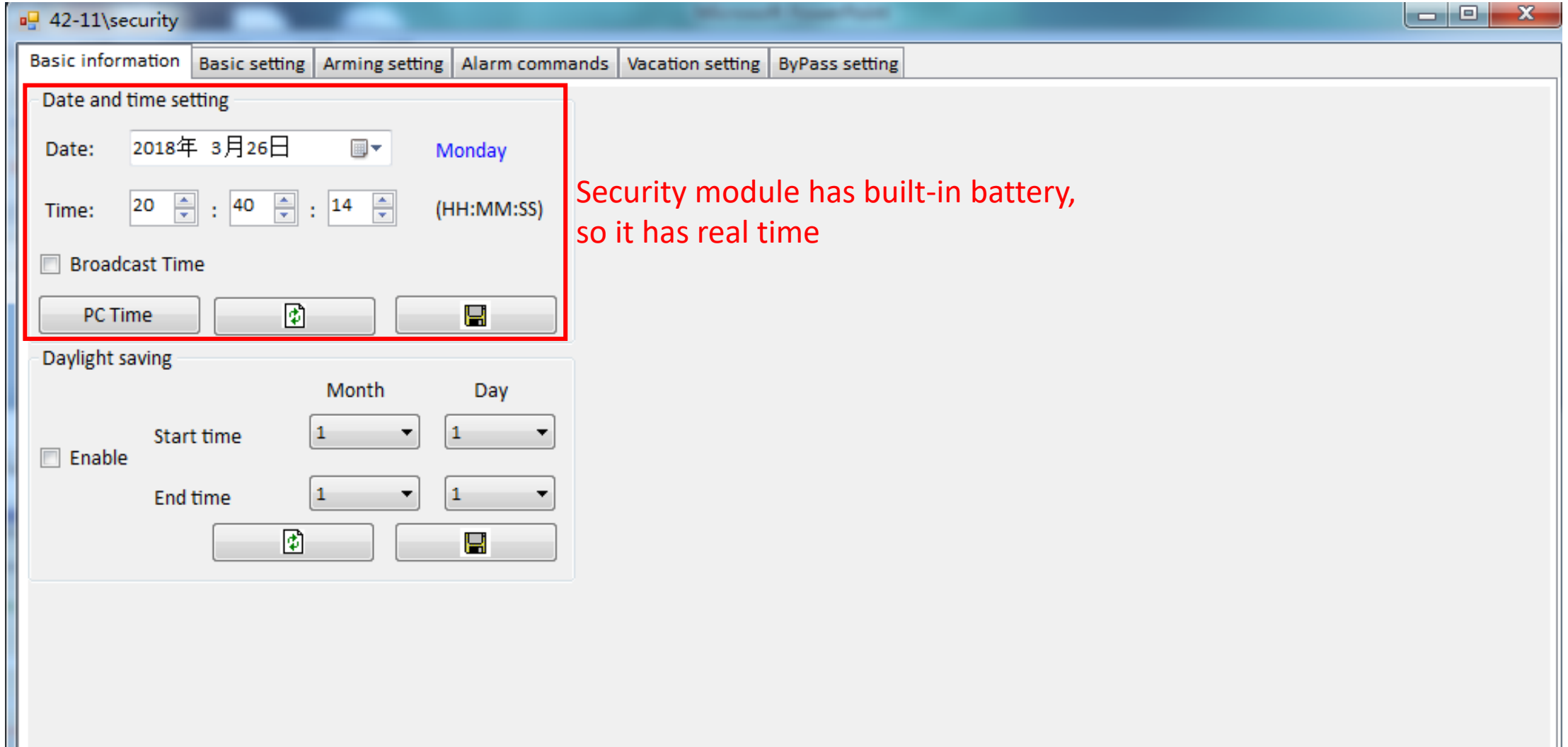
Dry contact 2: OFF

Sensor broadcast enable

Simulate sensor value

Now in normal state

Basic info of security module



The screenshot displays the configuration interface for a security module, titled "42-11\security". The interface includes several tabs: "Basic information", "Basic setting", "Arming setting", "Alarm commands", "Vacation setting", and "ByPass setting". The "Basic setting" tab is active, and the "Date and time setting" section is highlighted with a red border. This section contains the following fields:

- Date: 2018年 3月26日 (Monday)
- Time: 20 : 40 : 14 (HH:MM:SS)
- Broadcast Time
- Buttons: PC Time, Refresh, Save

Below the "Date and time setting" section is the "Daylight saving" section, which includes:

- Enable
- Start time: Month (1), Day (1)
- End time: Month (1), Day (1)
- Buttons: Refresh, Save

Security module has built-in battery, so it has real time

Basic settings

42-11\security

Basic information | **Basic setting** | Arming setting | Alarm commands | Vacation setting | ByPass setting

Area No. **Enable** Enable security function for area

When you are going to arm or alarm, you can use buzzer for help. Please set in further according to need. At any condition you can set 8 objectives at most

Siren delay(10-180s) Reset after alarm(1-30m)

Entry delay(10-180s) Exit delay(10-180s) More people leave mode

Type	Index	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
ENTER BUZZER ON	1	220	0	Invalid	N/A	N/A	N/A
ENTER BUZZER OFF							
EXIT BUZZER ON							
EXIT BUZZER 5S LEFT							
EXIT BUZZER OFF							
ALARM BUZZER ON							
ALARM BUZZER OFF							
INDOOR BUZZER ON							
INDOOR BUZZER OFF							
OUTDOOR BUZZER ON							
OUTDOOR BUZZER OFF							
FIRE BUZZER ON							
FIRE BUZZER OFF							
BEEP TONE							

Exit delay: when arming button is pressed, you should leave within the exit delay time

Entry delay: when sensor changes to unsafe state under arming, you should disarm within the entry delay

Siren delay: set delay time to trigger the 'INDOOR/OUTDOOR SIREN ON' if disarm is not happened after entry delay time

Bypass settings

dry contact setting

42-11\security

Basic information | Basic setting | Arming setting | Alarm commands | Vacation setting | **ByPass setting**

Area No. 1 Enable

When about to arm, this module will check if everyone is OK. For example, if windows are closed. You If you versions is 2011/06/21 or above. If now the door is opened, it can output 8 commands. Only 1-16 t

Alarm+ByPass Arming

Index(1-32) from

Read

Index	Alarm	Subnet ID	Device ID	Channel	Bypass	Trigger	Status	Mode	Remark
1	<input checked="" type="checkbox"/>	42	2	1	<input type="checkbox"/>	Connect	OFF	Normal	dry contact1
2	<input checked="" type="checkbox"/>	42	2	3	<input type="checkbox"/>	Disconnect	Close	Normal	IR sensor
3	<input type="checkbox"/>	42	10	2	<input type="checkbox"/>	Disconnect	Close	Normal	

Current selected index Targets

Index	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	
1	1	1	Scene	1(Zone No.)	1(Scene No.)	N/A
2	255	255	Invalid	N/A	N/A	N/A
3	255	255	Invalid	N/A	N/A	N/A
4	255					N/A
5	255					N/A
6	255					N/A
7	255					N/A
8	255					N/A

read the safe status of sensor(close door/window, no movement). if the safe status is OFF, then select 'NO' for trigger; if the safe status is Close, then select 'NC' for trigger;

Enable and register the sensors/dry contact

24 hours active zone: fire, gas, panic, emergency, etc.
other security level: vacation, away, day, night, etc

The sensor/dry contact is in unsafe status when arming the system, it can not arm success, and will trigger this targets.

Bypass settings

Authorize some devices(like user panel) to arm/disarm the system

Area No. 1 Enable

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

Alarm+ByPass Arming settings

Targets Num from(1-16) 1 To 10 Read

Index	Subnet ID	Device ID	Remark
1	42	5	DLP panel
2	3	254	ilife app
3	252	252	
4	255	255	
5	255	255	
6	255	255	
7	255	255	
8	255	255	
9	255	255	
10	255	255	

Arming settings

42-11\security

Basic information | Basic setting | **Arming setting** | Alarm commands | Vacation setting | ByPass setting

Area No. Enable

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

Type	<input checked="" type="checkbox"/> Trigger when leaving Arming targets from <input type="text" value="1"/> To <input type="text" value="8"/> <input type="button" value="Read"/>						
	Index	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
VACATION ARM	1	42	16	Single Channel Li...	1(Channel No.)	100(Intensity)	0:0(Running time)
AWAY ARM	2	255	255	Invalid	N/A	N/A	N/A
NIGHT ARM							
NIGHT_G ARM							
DAY ARM							
DISARM ARM							

when arming the system, you can set to trigger some targets, e.g. turn off lights, close curtain

trigger when leaving:

enable- trigger these targets immediately when arming

disable- trigger these targets after exit delay

Mode

Auto Arming 19 : 4 Away Night with guests

Auto Arming 19 : 4 Night Day

Auto Arming 19 : 4 Away Night with guests

Auto Arming 19 : 4 Night Day

Alarm commands

42-11\security

Basic information | Basic setting | Arming setting | **Alarm commands** | Vacation setting | ByPass setting

Area No. Enable

Once alarm, the device triggers different goals according to the type of alarm. Each type can be set

Alarm targets from To

Type	Index	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
VACATION ALARM	1	255	255	Invalid	N/A	N/A	N/A
AWAY ALARM	2	255	255	Invalid	N/A	N/A	N/A
NIGHT ALARM	3	255	255	Invalid	N/A	N/A	N/A
NIGHT_G ALARM	4	255	255	Invalid	N/A	N/A	N/A
DAY ALARM	5	255	255	Invalid	N/A	N/A	N/A
SILEN ALARM	6	255	255	Invalid	N/A	N/A	N/A
POWER ALARM	7	255	255	Invalid	N/A	N/A	N/A
TEMPE ALARM	8	255	255	Invalid	N/A	N/A	N/A
FIRE ALARM							
GAS ALARM							
PANIC ALARM							
EMERGENCY ALARM							
CURREN ALARM							
ALARM RESET							

set alarm targets when disarm is not happened after entry delay,
e.g. run sequence, open curtain and play warming voice, etc

DLP settings

set arm and disarm commands in DLP

The screenshot shows the HDL DLP settings software interface. At the top, there are tabs for 'Settings', '1 to 4 Pages', 'AC', 'Floor heating', 'Music', 'LED color & shortcuts', 'LED white balance adjust', and 'Sleep mode'. Below these are sub-tabs for 'Page-1', 'Page-2', 'Page-3', and 'Page-4'. The 'Page-1' tab is selected. The interface displays 'Current selected page: Page-1', 'Current selected button: 1', and 'Mode: Single ON'. A hint box contains the following text: 'Hint: 1. Double click button id to test it; 2. Click the button id to read its commands, would stop reading if there are three continuous commands are invalid.' There are two tables. The left table lists buttons with columns 'ID', 'Name', and 'Mode'. The right table lists targets with columns 'Index', 'Subnet ID', 'Device ID', 'Type', 'Param1', and 'Param2'. A red box highlights the 'Arm away' button (ID 1, Mode Single ON) and its corresponding target (Index 1, Subnet ID 42, Device ID 11, Type Security Module, Param1 1(Zone No.), Param2 Away). A red text overlay 'Single on mode' is positioned over the 'Mode' column of the left table. On the right side, there are three buttons: 'Button status', 'Association type', and 'Targets setting'.

ID	Name	Mode
1	Arm away	Single ON
2	disarm	Single ON
3		ON
4		ON
5		Single ON
6		Combination ON
7		Combination ON
8		Combination ON

Index	Subnet ID	Device ID	Type	Param1	Param2
1	42	11	Security Module	1(Zone No.)	Away

Other settings of security module

Fill in targets according to customer's requirements. To do that, it is very important to get familiar with the security workflow. ("security workflow.doc" :

[ftp://59.41.255.150/en\(english\)/HDL%20Buspro/HDL%20Buspro%20Products/SB-DN-SEC250K/](ftp://59.41.255.150/en(english)/HDL%20Buspro/HDL%20Buspro%20Products/SB-DN-SEC250K/)

Below is an example of setting warning sound for "ENTER BUZZER ON". (for example: song 2 is a warning sound which in special folder)

When you are going to arm or alarm, you can use buzzer for help. Please set in further according to need. At any condition you can set 8 objectives at most

Siren delay(10-180s) 10 Reset after alarm(1-30m) 10

Entry delay(10-180s) 32 Exit delay(10-180s) 10 More people leave mode

Type	Index	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
ENTER BUZZER ON	1	220	0	Music Control	Source Play	Specify List	2(Song No.)
ENTER BUZZER OFF	2	255	255	Invalid	N/A	N/A	N/A
EXIT BUZZER ON	3	255	255	Invalid	N/A	N/A	N/A
EXIT BUZZER 5S LEFT	4	255	255	Invalid	N/A	N/A	N/A
EXIT BUZZER OFF	5	255	255	Invalid	N/A	N/A	N/A
ALARM BUZZER ON	6	255	255	Invalid	N/A	N/A	N/A
ALARM BUZZER OFF	7	255	255	Invalid	N/A	N/A	N/A

Set warning sound targets

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Serious about smart buildings.