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Security module
HDL-MSM.431

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.

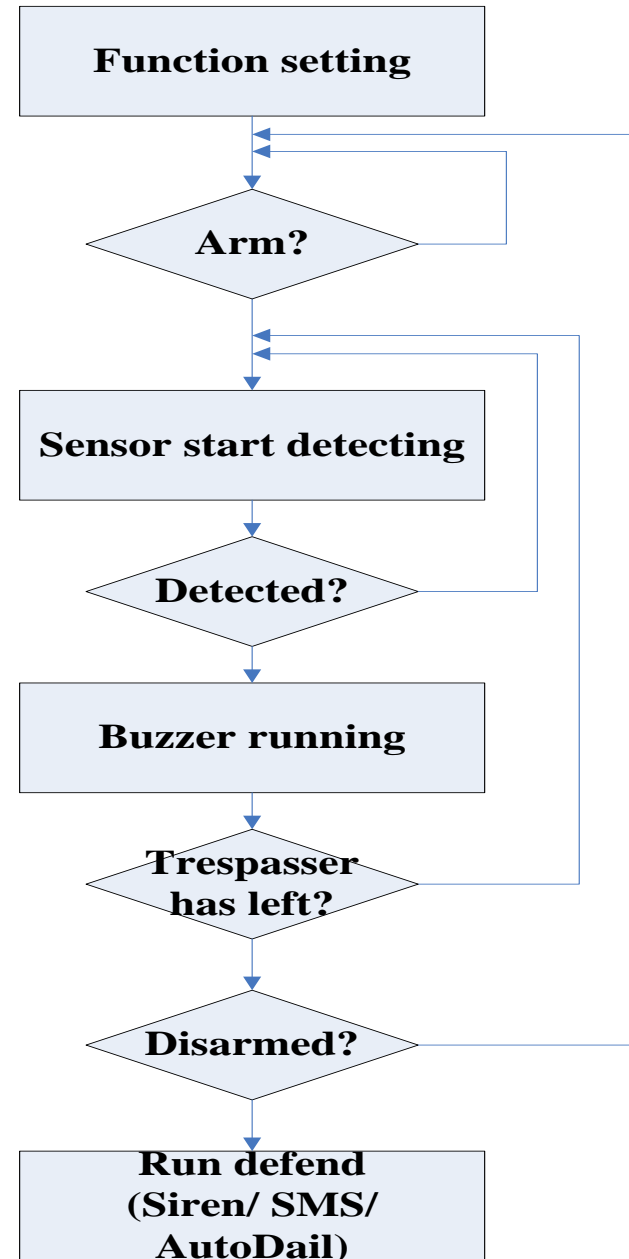- Multi-Level security protection.

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)

```
┌─────────────────────┐
│  Function setting   │
└─────────────────────┘
          │
          ▼
       ◇ Arm? ◇
          │
          ▼
┌─────────────────────┐
│ Sensor start detecting │
└─────────────────────┘
          │
          ▼
     ◇ Detected? ◇
          │
          ▼
┌─────────────────────┐
│   Buzzer running    │
└─────────────────────┘
          │
          ▼
  ◇ Trespasser has left? ◇
          │
          ▼
     ◇ Disarmed? ◇
          │
          ▼
┌─────────────────────┐
│     Run defend      │
│  (Siren/ SMS/       │
│     AutoDail)       │
└─────────────────────┘
```

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/)
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/)

Sensor/dry contact security setup
enable the security function(take 7in1 sensor as example)

Channel ID in security module's bypass page

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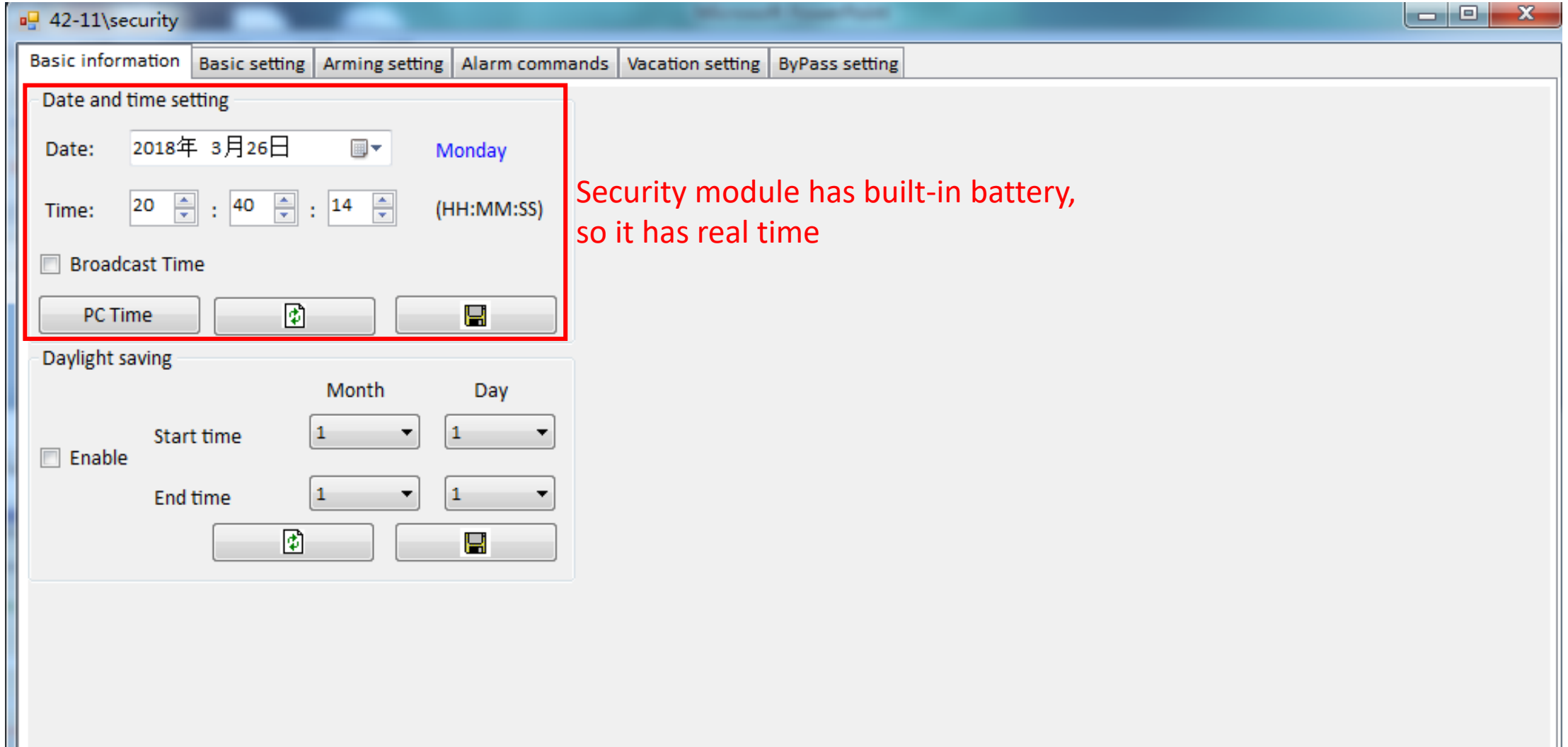
Basic info of security module

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

Basic settings

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Window title: 42-11\security

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

Area No. [1 ▼]   [   ]   ☑ 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)   [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	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 dely: 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

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

Arming settings

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

Alarm commands

DLP settings
set arm and disarm commands in DLP

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(enlish)/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)

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Serious about smart buildings.