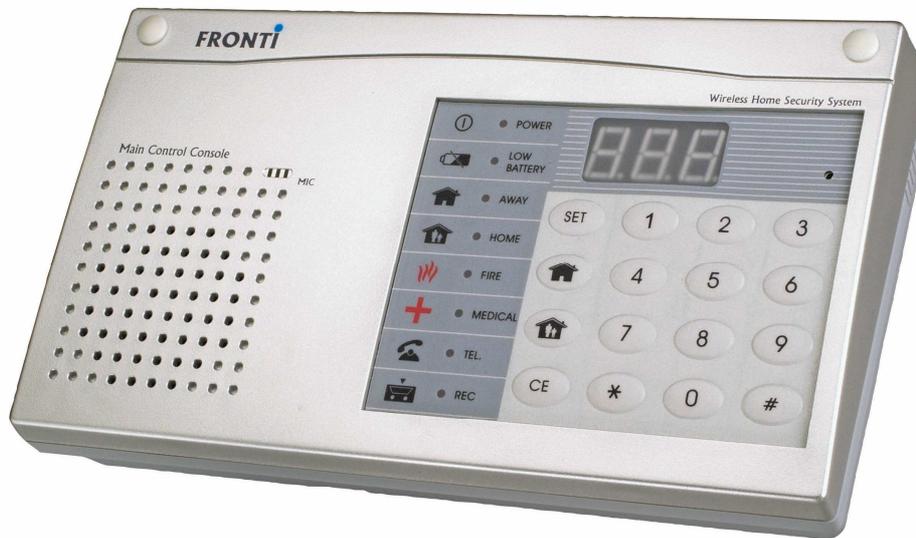# ❀❀ **WIRELESS SECURITY SYSTEM** ❀❀

FS210/250 Basic Kit

1. **FS210** Security Console 80CH & Auto Dialer

Or **FS250** Security Console 80CH & call-in/out system

2. **FS122** Wireless PIR Motion Detector

3. **FS131L** Wireless Magnetic Sensor

4. **FS132L** Wireless Magnetic Sensor C/O (Option)

5. **FS154L/S** Remote Controller 4 buttons

6. **FS190** AC adapter 100-240V DC15V 1A

7. **FS193** Rechargeable Back-up battery

8. **FS148S** Wireless External Siren with Strobe (Option)

FS210/250 USER OPERATING MANUAL

A. INTRODUCTION:

Thank you for purchasing the FS210/FS250 WIRELESS SECURITY SYSTEM.

The FS210/FS250 are designed in professional for both house and office with multi-division rooms.

"**Hopping Code System**" uses over **1,000,000** different codes combination that auto-change so it system code cannot be copied by even the cleverest of high tech intruders.

It has 2-phone numbers for digital dialer and 4-phone number for voice dialer.

Telephone call-in setup main console working mode and combine with PC C. M. S. M software setup and report by RS232 interface. (FS250 only)

● **Main Console Description**

1. Control keypad: To control and reset full system function.
2. POWER LED: It will be light when the system is working in the normal condition.
   It will be flash when the system is fault condition (power fail, tamper switch trigged or phone disconnect).
3. LOW Battery LED: It will be light when the console received signal from sensor low battery condition.
   It will be off situation by console setup cancel memory LED indicator.
4. FIRE LED: It will flash when the console received trigger Fire alarm duration then transfer to light when the alarm turns off.
5. MEDICAL LED: It will be flash when the console received trigger medical alarm duration then transfer to light when the alarm turns off.
6. AWAY LED (fully armed): It will be flash when the console is on enter delay time or test mode then transfer to light when the console on Away armed mode.
7. HOME LED: It will be flash when the console is on enter delay time or test mode then transfer to light when the console on Home armed mode.
8. Zone 1, 2, 3, 4, 5, 6, 7, 8, 0(Panic) one digits LED: It will be flash when the console received trigger sensor zone1-8 alarm duration then transfer to light when the alarm turns off.
   The Zone 0 is 24HR loop & panic alarm indicator.
9. "P" on digital LED: It will be light, when the tamper switch is trigged, phone line disconnect or DC12V power failure.
10. Built-in siren: It can emit three kinds of alarm sounds and door chime sounds when is trigged.
11. Tamper switch: The tamper switch is designed to detect when the main unit is removed or broken.
12. Telephone LED: It will be flash while the telephone line lost; it will be off while the telephone is online.
    It will be light while the telephone online is dialing.
13. REC LED: It is light when it is recording then transfer off to stop record.
14. Sensors number two digits LED: It can be register 80 sensors ID code that can display from 10-89,
    The middle digits LED is for display channel number (1-8) and right digits LED is for sensors number.
    The sensors number two digits LED will light 1 second then OFF, when the main console received signal from sensors function code (Home, Away and close).
    The sensors number two digits LED will keep light still enter armed mode, when the main console received signal from sensors active alarm.

● **Setting sound condition:**

1. Pressing the number key = 1 short beep sounds.
2. Setting function failure =Long beep sounds.
3. Setting function success = 2 beep sounds.
4. Setting armed mode = 2 du sounds.
5. Setting disarm mode = music sounds.
6. Setting the exit setup mode = music sounds.
7. The main console be trigged = 5 du sounds.
8. Register ID code is success or malfunction of main console = 5 du sounds.

B. System Connection & Installation:

      The following lists of the requirements for the hardware installation.

Step1: User has to use a screws driver to open the front cover.

Step2: Plug AC or DC power sources into the main console.

Step3: The 4pin phone cable jack plug-in to phone jack1 and the phone cable that has another terminal. This terminal has two phone jacks that line jack plug-in L1, 2 to PABX line system and phone jack plug-in phone cable to phone set.

Step4: Pull out the RX antennal and place the main console at a high location. It recommends placing 1.5 meters away from the ground for the better wireless accessory communication.

Step5: User must press default password $\boxed{0\ 0\ 0\ 0}$ to set up new password and register sensors ID code afterward.

Step6: User must setup save the phone number and record the emergency voice message.

● Function Description:

1. Operating modes have 3 different working on away armed/ home armed/ disarmed and 24-hour panic.
2. Provides 8 channels that have total 80 wireless accessories capacity with low battery and tamper switch environmental protection.
3. Each wireless accessory must setup register ID code in the main console. The main console can register ID code up to 60pcs wireless accessories and 20pcs close /open type of FS132L Magnetic Sensor.
4. The system has 8 channels and each channel can register 10pcs sensors ID code.
5. The channels 1 is only for register remote controller (like FS154L, FS154S, FS150L)
   The channels 2-6 are for register normal accessories. (like FS122, FS131L, FS156L, FS161HI, FS169H)
   The channels 7-8 are for sensors number 70-89. (only for FS132L door open/close sensor)
6. The main console enter ID code register mode from channel 1-8. If the receiver's LED still flash, it means can still receive new ID codes. When it has not received new ID codes within 10 second, it will automatically exit the register mode.
7. The main console accepts Panic, Silent panic, Tamper or Fire function code as register new ID code.
8. The main console received ID code then channels number and sensors number LED flash 2 times after OFF to confirm this sensors ID code have been register at main console. While the main console enter ID code register mode duration.
9. The main console entering register mode the receiver LED flash 2 times then exit register mode to confirm this channel ID code fully.
10. When the main console enter the ID code register mode duration, the user can push the erase switch and the receiver LED will flash 2 times to confirm that the channel ID code is erased.
11. The Zone 8 is only for channel 7-8 FS132L Magnetic sensors trigger.
12. When the main console received more than one alarm event, the sensor number two digits LED will repeater display sensors number. It will be erase when the main console entering Away armed.
13. The master password can set fully function, User password can set Away armed, Home armed and Disarm and cancel memory LED indicates.
14. Setting additional by passing Zone only for Home armed. When the by passing Zone be trigged, it will be by pass this alarm (no alarm), But the 24 hours panic Zone can't be set to by pass (Panic zone: 0 zone).
15. If enter wrong code three times, the system will warm for long beeps sound and lock-up the system within three minutes. During the three minutes it couldn't be operate the system.
16. When the user hears a long beep sound, the user has to check which zone is trigged. (Setting Away or Home armed mode)
17. When the system entering armed mode, the default delay period is 15 seconds.
18. When the system entering alarm mode, the default delay period is 15 seconds only on delay zone. The delay period will emit beep sound then emit alarm sound, when the system is trigged at alarm mode.
19. Door chimes function is on the Disarm or Home armed mode by trigged at bypass zone sensors.
20. Alarm memory function: The zone digits LED flash, when the system is received sensors signal. The zone digits LED is from flash to light, when the alarm turns off. The zones LED turn off to erase alarm memory, when the system enter away armed mode.
21. The FIRE alarm is by the Wireless smoke detector or Wireless gas detector to trigger.
22. Hands-free speakerphone and 2-way voice communication. After the connection of emergency call, the called party can listen-in or talk with.

23. When the tamper switch is triggered, AC power is failure, phone line is disconnected or sensor low battery the system will perform following actions, but the tamper switch or AC power will not active on disarm mode:

   a. It will call-out then sent digital data on phone number1, 2.

   b. 5 du sounds emit and repeat for every 30 minutes to indicate the malfunction of main console.

   c. 5 du sounds will stop incase resetting tamper switch, AC Power re-supplying, phone line connected or setting up stop alarm mode by entering password (XXXX) CE.

24. Build-in 2-phone numbers (1-2) for digital dialer of the Central Monitoring Station and 4-phone number (3-6) for voice dialer.

25. The first phone number activate dialer is on when the console Disarmed, Home armed, Away armed or one of the alarm is trigged.

26. The 2- 6 phones number active dialer when the system trigged alarm, sensors low battery and system fault.

27. The main console has sent digital data or play voices. It will delay 5 seconds off phone line. The user can have 5 seconds for two ways hand free communications when the main console triggers the alarm mode.

28. It can setup maximally 4 paragraph emergency messages. The first paragraph is for common message such as name, address or phone numbers. The second paragraph is for burglar alarm message. The third paragraph is for the fire alarm message. The fourth paragraph is for Panic or medical help message.

29. Voice Auto Dialer Description:

   a. User has to setup call help phone number and record 4 paragraphs emergency messages.

   b. The auto dialer will delay three seconds then start dialing, when the main console is trigged the alarm mode.

   c. Re-dialing will be performing in the phone line is busy or nobody answer up to 30seconds.

   d. Under the conditions of tamper switch being triggered, AC power failure will not active disarm mode.

C. Basic Function Setup: (For only password setting and disarm mode)

1. **Setting the password mode: 4 to 6 digits can be set in and the default password is 0 0 0 0.**
   Procedure : 0000 SET XXXX (new password) #
   Result: 2 beep sounds emitted upon successfully keying in the default password, and music sound Emitted Upon successfully keying in new password. And the new password of you system is XXXX After completing the above processes.

2. Setting change the password mode:
   Procedure : XXXX (old password)   SET YYYY (new password) #

   Result: 2 beep sounds emitted upon successfully keying in the old password, and music sound emitted upon successfully keying in your new password. And the new password of you system is **YYYY** after completing the above processes.

3. Setting the setup mode:
   Procedure: XXXX (password) SET 0 SET
   Result: 2 beep sounds emitted to confirm the setup correctly, the power LED flash.

4. Setting ID code register mode:
   Note: Keep over 1 meter between main console and wireless accessories to setup ID code register.
   Procedure 1: 6 SET   - - -To enter channel 1 register mode and repeater 6   SET -To next channel.
   Result: 2 beep sounds emitted and channel LED flash to confirm the system entering register mode.
   Procedure 2: User must active accessories **Silent Panic, Panic, Tamper or Fire function code**, the transmit ID code signal from remote control or sensors to main console within ten seconds.
   Result: 5 du sounds emitted, if the system ID code register successfully. Without setting engaged within 10 seconds. Will be automatically switch off and following with long beep sound.
   Note: The channel 7-8 mast register only FS132L sensor ID code, it cannot register at channel 1-6. Also the other accessories cannot register at channel 7-8.

5. Setting exit the setup mode.(it will be automatically switch off within 30seconds if user don't have setting engaged) :
   Procedure: 0 CE
   Result: music sound setting to confirm the setup correctly. The power LED will be light.

D. Main console keypad Operation Setup : (For password or user password setting)

1. Setting Away armed mode (repeat to disarm):
    Procedure: XXXX (password) AWAY
    Result: 2 du sounds emitted after completing the above procedure, and the Away armed LED change from flash to light. Then beep sound emitted after the delay time elapsed.

2. Setting Home armed mode (repeat to disarm) :
    Procedure: XXXX (password) HOME
    Result: 2 du sounds emitted after completing the above procedure, and the Home armed LED changes from flash to light. Then beep sound emitted after the delay time elapsed.

3. Emergency silent panic or panic mode for 24 hours:
    Procedure : 9 0 #   (To trigged silent panic)
    Result: The Zone 0 LED will light and auto dialing.
    Procedure : *   # simultaneously press.   (To trigged panic)
    Result: Alarm sounds and Zone 0 LED will be light then auto dialing.

4. Setting disarm mode and stopping the alarm and auto dialer call-out:
    Procedure : XXXX (password) #
    Result: alarm sound stop emitted after completing the above procedure, and the alarm zone LED number display from light change to off.

5. Setting stopping the alarm and auto dialer call-out or switch turn off LED memory mode:
    Procedure: XXXX (password) CE
    Result: 2 beep sounds emitted to confirm the setup correctly

6. Setup the normal alarm change to Silent Panic to stop alarm sound:
    Procedure: 9 0 #
    Result: alarm sounds stop to confirm the setup correctly, but the main console keeps on alarm mode.

E. Telephone call-in remote setup operation working mode. (FS250 only)

● It call-in to setting the main consoles working mode.
  When setup the call-in ring back tone 1 times that will accept double call-in mode to setup function.
  The first time to call-in setup ring tone 2-4times hand-up the phone line after waiting 10-25seconds again call-in ring tone 1times that will auto pick-up to press mast password and function code to setup function.
  If can't receive data within 10 seconds that will be auto hand-up the phone line.

1. Setting the new password: (Default password is 000000)
    Procedure 1: User has to call-in the console, when is on-line duration key-in:
    Procedure 2: 000000 * 00 XXXXXX (new password) #
    Result: User can listen-in two du du tone at telephone set to confirm setup correct.

2. Setting change the old password:
    Procedure 1: User has to call-in console, when is on-line duration key-in:
    Procedure 2: XXXXXX (old password) * 00 # YYYYYY (new password) #
    Result: User can listen-in two du du tone at telephone set to confirm setup correct.

3. Setting the remote Disarm mode:
    Procedure 1: User has to call-in console, when is on-line duration key-in:
    Procedure 2: XXXXXX (password) * 01 #
    Result: User can listen-in two du du tone at telephone set to confirm remote Disarm correct.

4. Setting the remote Home armed mode:
    Procedure 1: User has to call-in console, when on-line duration key-in:
    Procedure 2: XXXXXX (password) * 02 #
    Result: User can listen-in two du du tone at telephone set to confirm remote Home armed correct.

5. Setting the remote Away armed mode:
    Procedure 1: User has to call-in console, when on-line duration key-in:
    Procedure 2: XXXXXX (password) * 03 #
    Result: User can listen-in two du du tone at telephone set to confirm remote Away correct.

6. Setting the remote Panic alarm:
   Procedure 1: User has to call-in console, when on-line duration key-in:
   Procedure 2: XXXXXX (password) ＊ 04 ＃
   Result: User can listen-in two du du tone at telephone set to confirm remote Panic alarm correct.
7. Setting the call-in active hand-free listen-in function.
   Procedure 1: User has to call-in console, when on-line duration key-in:
   Procedure 2: XXXXXX (old password) ＊ 08 ＃ will start hand-free listen-in function.
8. Setting change the call-in ring back tone 2-9 times: (Default is 4)
   Procedure 1: User has to call-in console, when is on-line duration key-in:
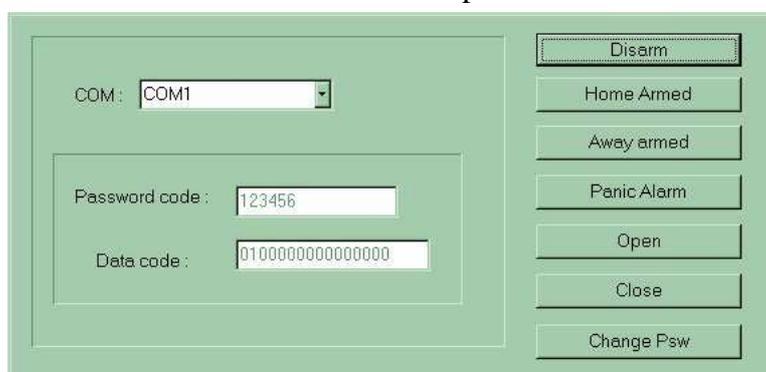   Procedure 2: XXXXXX (old password) ＊ 09 ＊ 09 ＃
   Result: User can listen-in two du du tone at telephone set to confirm setup correct. It will delay up to 9 times ring back tone then auto active on-line.
9. If receive data password or function code are wrong, it will emit long beep sound to confirm setup failure. User can key-in again to setup still 60seconds end auto OFF phone line.

F. PC C.M.S.M software control setup working mode. (FS250 only)

1. User can option FRONTI C.M.S.M software to install at PC that connects DSB 9port between the main console and PC COM port.
2. The FRONTI C.M.S.M software have test item enter to setup main console working mode.
3. The default password is 000000.
4. Key-in password then function button will setup the main console working mode.

G. Main console reporter to PC C.M.S.M software working and alarm condition.

1. User can option FRONTI C.M.S.M software to install at PC that connects DSB 9port between the main console and PC COM port.
2. User has to setup the main console account number and sensors install data key-in at the software account data.
3. The main console will report all working and alarm event To PC C.M.S.M software and all event data will save HD.

H. Keypad Setup Function Program: (For only first password setting and disarm mode)
Under setup mode operate only Power LED flash)

1. Setting the setup mode:
   Procedure: XXXX (password) SET 0 SET
   Result: 2 beep sounds emitted to confirm the setup correctly, the power LED flash.
2. Setup entering alarm and armed mode delay time is from 0 to199 seconds, the default duration is 15 seconds:
   Procedure : 2 SET Times ＃
   Result: 2 beep sounds emitted to confirm the setup correctly; the delay time is " Times "
3. Setup hand-free listen-in duration is from 0 to199 seconds, the default duration is 5 seconds:
   Procedure : 3 SET Times ＃
   Result: 2 beep sounds emitted to confirm the setup correctly; the duration time is " Times "

4. Setting additional delay zone at 1-7 for delay alarm and the default is zone 1:
   Procedure : 4 SET Zone Number   #
   Result: 2 beep sounds emitted and the delay zone LED light 0.5second to confirm the setup correctly.

5. Setting cancel the additional delay zone at 1-7:
   Procedure: 4 SET Zone Number   CE
   Result: 2 beep sounds emitted and the delay zone LED light 0.5second to confirm the setup correctly.

6. Setting additional bypass zone (1-7) for Home armed mode, and the default is zone 1:
   Procedure : 5 SET Zone Number #
   Result: 2 beep sounds emitted and the bypass zone LED light 0.5second to confirm the setup correctly.

7. Setting cancel additional bypass zone for Home armed mode:
   Procedure: 5 SET Zone number CE
   Result: 2 beep sounds emitted and the bypass zone LED light 0.5second to confirm the setup correctly.

8. Setting silent alarm mode (repeat to normal alarm):
   Procedure: 7 SET
   Result: 2 beep sounds emitted to confirm the setup correctly. It will not emit alarm sound.

9. Setting the cancel silent alarm mode:
   Procedure: 7 SET
   Result: Alarm sound emitted to confirm the setup correctly. It will emit alarm sound.

10. Setting door chime function of Home armed bypass zone or disarm mode (the default is zone 1):
    Procedure : 8 SET Zone Number   #
    Result: 2 beep sounds emitted and the door chime zone LED light 0.5second to confirm the setup correctly.

11. Setting cancel door chime function mode:
    Procedure: 8 SET zone number CE
    Result: 2 beep sounds emitted and the door chime zone LED light 0.5second to confirm the setup correctly.

12. Setting the alarm duration is from 3 to 499 seconds, the default duration is 60seconds:
    Procedure : 9 SET Times #
    Result: 2 beep sounds emitted to confirm the setup correctly; the alarm time is " Times".

13. Setting the user password 4 up to 6 digits can be set in:
    Procedure : 11 SET XXXX (user code)   #
    Result: 2 beep sounds emitted to confirm the setup correctly, and music sound emitted upon successful keying in your Use password. And the use password of the system is XXXX after completing the above.

14. Setting change the user password on disarmed or setup mode:
    Procedure : 11 SET YYYY (new user password) #
    Result: 2 beep sounds emitted to confirm the setup correctly, and music sound emitted upon successful keying in your new use password. The new use password of the system is YYYY after completing.

15. Setting cancel the user password mode:
    Procedure: 11 SET CE
    Result: 2 beeps sound emitted to confirm the setup correctly.

16. **Setting storing phone number mode, it can store 6 phone numbers (up to 24 digits):**
    The1, 2 phone numbers are for digital format to monitoring station and 3, 4, 5, 6 are for voice play dialer.
    Procedure : 10 SET 1- 6 (priority number) XXXXXXXX(phone number) #
    Result: 2 beep sounds emitted to confirm the setup correctly.

17. Setting storing phone number with extension number mode:
    Procedure : 10 SET 3- 6 (priority number) XXXXXXXX (phone number)＊XXX (extension number)#
    Result: 2 beep sounds emitted to confirm the setup correctly.

18. Setting cancel the phone number mode :
    Procedure: 10 SET 1- 6 CE
    Result: 2 beep sounds emitted to confirm the setup correctly.

19. Setting change phone number mode :
    Procedure :10 SET 1- 6 XXXXXXXX (new phone number) #
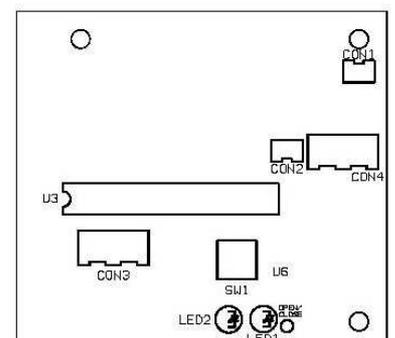   Result: 2 beeps sound emitted to confirm the setup correctly.

20. Setting the phone number of times to radial mode (the default is 3 times):
    Procedure : 13 SET Times (1-6) #.
    Result: 2 beep sounds emitted to confirm the setup correctly.
21. Setting recording emergency message mode: It can setup 4 paragraphs emergency message (maximal), the total capacity is 4 x 8 = 32 seconds of the record emergency message.
    Please keep the distance about 20-60cm between voice sound and MIC, don't too close or too far.
    Procedure : 14 SET *
    Result: 2 beep sounds emit and REC LED light to start recording the first paragraph emergency message.
    Procedure : *
    Result: beep sound emit and REC LED light to start recording the second paragraph Emergency message.
    Procedure : *
    Result: beep sound emit and REC LED light to start recording the third paragraph Emergency message.
    Procedure : *
    Result: beep sound emit and REC LED light to start recording the fourth paragraph Emergency message.
    (REC LED off)
22. Setting the number of times to repeat the message mode and the default is 3 times:
    Procedure : 15 SET Times(1-6) #.
    Result: 2 beeps sound emitted to confirm the setup correctly
23. Setting the dialing Tone / Pulse mode and the default is Tone (repeat to Tone mode):
    Procedure: 17 SET. (LED Display P= Pulse, T= Tone)
    Result: 2 beep sounds emitted to confirm the setup correctly.
24. Setting the exit Test mode:
    Procedure: 0 CE
    Result: music sound emitted to confirm the setup correctly .The Home or Away armed LED off.

I. Digital Auto Dialer Description:

   a. It can send the digital format (4+2+2) DTMF format data to monitoring center station. (FS119 Digital alarm receiver and C. M. S. M software system)
   b. User has to get the account number and phone number from monitoring center station and store in main console.
   c. The first phone number can report Disarm, Home armed, Away armed, Sensor Low battery, power failure, Medical help, Fire help, Panic & Duress and Zone1, 2, 3, 4, 5, 6, 7, 8 Intrusion to central monitoring station.
   d. The second phone number can report Medical help, Fire help, Panic & Duress, Sensor Low battery, power failure and Zone1, 2, 3, 4, 5, 6, 7, 8 Intrusion to central monitoring station.
   e. User don't save the 1 and 2 phone number and the account number, if the console have not connect to center monitor station.

● Digital dialer function setting: under setup mode only (power LED flash)
1. Setting storing the phone number for center monitoring station mode:
    Procedure : 10 SET (1-2) XXXXXXXX (phone number) #
    Result: 2 beep sounds emitted to confirm the setup correctly.
2. Setting the account number for monitoring central station mode:
    Procedure : 16 SET XXXX (account number) #
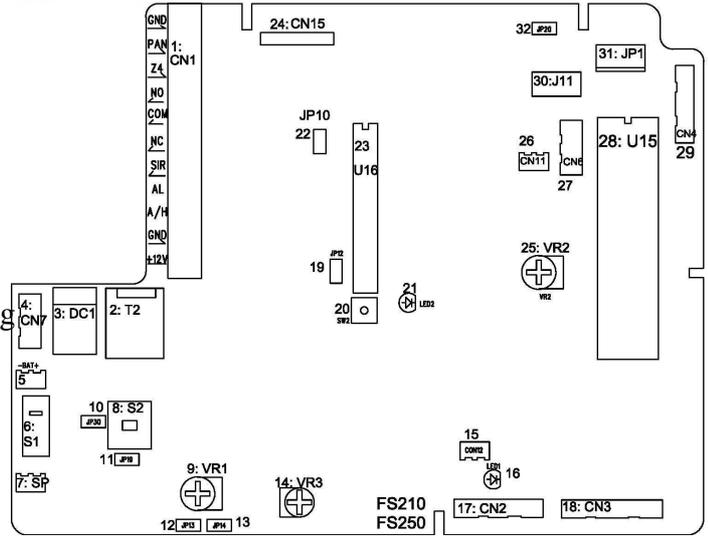   Result: 2 beeps sound emitted to confirm the setup correctly.

K. Main Console Installation & Description:
● FS250C Telephone and PC interface board. (FS250 only)
  1. CON1: Phone input connects to the main board CN7.
  2. CON2: DC 12V input connects to the main board CN7.
  3. CON3: Data in/out connects to the main board CN6.
  4. CON4: Data in/out connects to the PC COM port by DSB 9port cable.
  5. SW1: Erase password switch: Press this switch to erase call-in password.
  6. LED1: Data in/out LED light display.
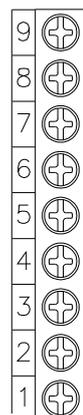 7. LED2: Phone input on line LED light display.

- FS210/250 Main board
1. CN1: Terminal Block pin Assignment.
2. T2: Telephone Jack.
3. DC Jack Input.
4. CN7: Call-in control input from 250C board.
5. BAT+: Backup Battery input terminal.
6. S1: Tamper switch is for detector front cover opening.
7. SP: Alarm and Voice sound output to speak terminal.
8. S2: Tamper switch detector is for main console moving
9. VR1: Alarm Sound Volume Control: Turn clockwise
      for maximum.
10. JP30: Normal Close on tamper switch detect enable.
         Open will disable tamper switch detector.
11. JP19: Normal Open enables phone detection,
          Close will disable phone line detection function.
12. JP12: Close sound emit at FS250 console, open: turn off sound at FS250 console.
13. JP13: Close sound emit at FS142 wire external siren, open: turn off sound at FS142 wire siren
14. VR3: Setup sound volume control: Turn clockwise is for maximum.
15. CON12: User recording voice emergency message MIC Jack input terminal.
16. LED16: when the LED light to confirm voice record during.
17. CN2: Control keypad and LED Indicator input terminal.
18. CN3: Control keypad and LED Indicator input terminal.
19. JP12: No use
20. SW2: Erase ID code switch: When the main console setup on channel ID code register mode, Press this
         switch to erase only this channel accessories ID code.
21. D21: When the LED is light, the main console receives signal from wireless accessories.
22. JP10: Normal Open the alarm NO/NC output without DC 12V power output.
         Close the alarm NO/NC output has DC 12V power output.
23. U16: Sensors ID code decode CPU chip.
24. CN15: Receiver module board.
25. VR2: Hand free voice sound volume control, Turn clockwise is for maximum.
26. CN11: Hand free voice MIC Jack input terminal.
27. CN6: The sensors number and the alarm code data output to FS220 GSM for the SMS txt report.
28. U15: CPU chip is for main control software function.
29. CN4: Sensors number LED Indicator input terminal.
30. J11: Wire NC type sensors input terminal on zone 5, 6, 7.
31. JP1: Transmitter board is for trigger Wireless External siren, press this switch to sent ID code for register
      Wireless External siren.
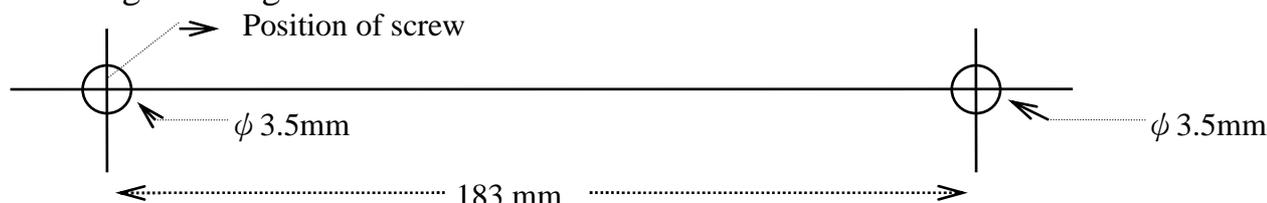32. JP20: AC power detector enable at open, disable at short.

- Terminal block condition:
1. 12V   : DC Power output
2. COM   : Ground output (Black wire)
3. A/H   : Armed/Disarm light output to FS142S LED display the working mode.
4. AL   : Sounds output to FS142S emit sound is for user knows the working mode.
5. Siren +   : Output (Red wire)
6. Alarm   NC: Normal-Close, Alarm Open output
7. Alarm COM: Alarm COM output
8. Alarm   NO: Normal-Open , Alarm Close output
9. Zone 4   NC: Normal-Close ,Triggered Open input
10. PANIC NC : Normal-Close ,Triggered Open input
11. COM   : GND/COM input

● Fixing screws guide:

	ACCESSORIES	TOOLS
WOODEN WALL	SCREWS	1.HAMMER
		2. ⊕ TYPE SCREW DRIVER
CONCRETE WALL	SEREWS AND WALL PLUGS	1. ELECTRIC DRILL
		2. ⊕ TYPE SCREW DRIVER

J. Quick Reference Guide: Example new password: 1 2 3 4

1. Setup mast password --------------------------------0 0 0 0 SET   new password (1234) #
2. Change to new password --------------------------old password SET new password #
3. Away arm (repeat to disarm)---------------------1 2 3 4   AWAY
4. Home arm (repeat to disarm)---------------------1 2 3 4   HOME
5. Disarm and stop alarm and auto dialer----------1 2 3 4   #
6. Stop alarm, auto dialer and delete LED display-1 2 3 4   CE
7. Emergency Silent Panic--------------------------- 9   0   #
8. Emergency Panic---------------------------------∗   # simultaneously press .5 seconds
9. Setting setup mode------------------------------ 1 2 3 4   SET   0   SET

● **Function setting : under setup mode only (power LED flash)**

1. Setup entering the armed and alarm delay time ------- 2   SET   0 ~ 199 seconds   #
2. Setup the hand-free listen-in duration ------------------ 3   SET   0 ~ 199 seconds   #
3. Setup additional the delay zone------------------------ 4   SET   1 ~ 7 zone   #
4. Setup cancel the additional delay zone---------------- 4   SET   1 ~ 7 zone   CE
5. Setup additional the bypass zone----------------------- 5   SET   1 ~ 7 zone   #
6. Setup cancel additional the bypass zone--------------- 5   SET   1 ~ 7 zone   CE
7. Setup the ID code register mode ----------------------- 6   SET (Repeater to next channel1, 2, 3 - 8)
8. Setup the silent alarm(repeat to normal alarm)-------- 7   SET
9. Setup the door chime zone------------------------------ 8   SET   1 ~ 7 zone   #
10. Setup cancel the door chime zone---------------------- 8   SET   1 ~ 7 zone   CE
11. Setup the alarm duration-------------------------------- 9   SET   3 ~ 499 seconds   #
12. Setup the user password --------------------------------1 1   SET   user password   #
13. Setup change to the new user password---------------- 1 1   SET   new user password   #
14. Setup cancel the new user password-------------------- 1 1   SET   CE
15. Setting storing the phone number------- 10   SET1- 6 (priority number) XXXXXXXX(phone number) #
    The1, 2phone numbers are for digital format to monitoring station and 3, 4, 5, 6 are for voice play dialer.
16. Setting storing the phone number with extension number mode------
    10   SET 3- 6 (priority number) XXXXXXXX (phone number) ∗XXX (extension number) #
17. Setting cancel the phone number---------------------- 10   SET   (1- 6)   CE
18. Setting change the phone number-------------------- 10   SET (1- 6) XXXXXXXX(new phone number)#
19. Setting the phone number of times to radial---------- 13   SET   Times (3~ 6)   #.
20. Setting the recording emergency message------------ 14   SET   ∗（first REC LED light）∗(second REC LED light) ∗(third REC LED light) ∗(fourth REC LED light) ∗ (REC LED off).--Total 32 seconds.
21. Setting the number of times to repeat the message- 15   SET   Times(1~ 6)   #
22. Setting the dialing Tone / Pulse mode ---------------- 17   SET   (repeat to Tone)
23. Exit the setup mode ----------------------------------- 0   CE
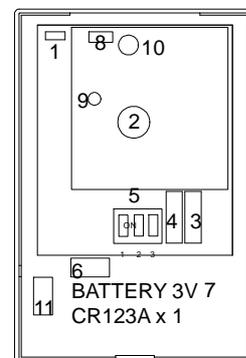
- **Specifications:**
1. Power Source: 15V DC 1A by AC adapter.
2. Working Current: 350mA (Max).
3. Back-up Battery: Rechargeable DC 9.6V.
4. Dimensions: 220L x 128W x 56H (mm). Weight: 900g.
5. FS210/250 Basic Kit: Dimensions: 320L x 230W x 75H (mm)/ Weight: 1850g.
7. Broadcast range: 150 M in a free space.
8. Working temperature: -10℃ to 60℃.
9. Battery Back-up time: 24HRS (Min).

- **ACCESSORY & DESCRIPTION**

�✤ FS122 Wireless PIR Motion Detector Manual ✤✤

- **ILLUSTRATION & DESCRIPTION:**
1. LED : It will be lighted when it senses person moving objectives or low battery condition.
2. PIR sensor : To detect person moving objective in the protective area.
3. Power switch **:** Switch Up position - power on normal detector, Switch down position - power off**.**
4. Tamper switch : It will be trigged when the front cover is opening.
5. Zone DIP-switch: To setup zone code, each sensor has the unique transmitting code for zone identity**.**
6. Re-trigged duration jump: Close is for duration 60seconds, Open is for duration 180seconds.(saving power)
7. Battery house: It can put in CR123A Lithium battery.
8. Test jump for walking test.
   Close is on Test mode, Open is on normal mode.
9. Walking test LED
10. Trimmer potentiometer: PIR sensitivity adjusts the detector range from 6M to12M.
    Turn clockwise for maximum.
11. Pulse account jump normal short, Open at double pulse account active working mode.

FS122 Wireless PIR Motion Detector
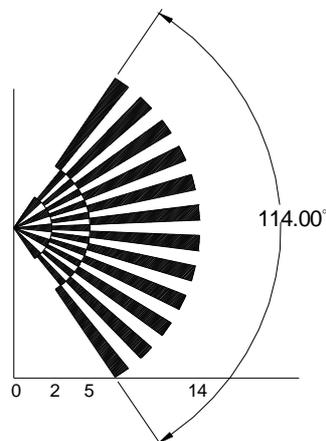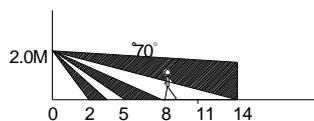
- **INSTALLATION & DESCRIPTION:**
1. Open the front cover to install CR123A 3V Lithium battery.
2. Pushing the tamper switch transmit ID code is to register this sensor. When the main console is on the ID code register mode.
3. Setup zone code: Each sensor has the unique transmitting code for zone identity.
4. Don't setup on zone1, the zone1 is for tamper zone test function.
5. Replace the front cover.
6. Select a location that is 2 meters above the floor from the PIR.
7. Fix the swivel bracket on floor.
8. Under power on mode, the reset time is 60 seconds.
9. To test one keep moving, the PIR will be triggered and emit a signal to the main unit at first time.
10. Setup re-trigger duration 60 or 180 seconds for transmitting code.
11. Recommend mounting on the room corner for best cover.
12. When the power on will delay 20seconds without transmit signal on zone1 code function.
13. The sensor tamper switch will active zone 1 function.
14. The sensor zone on 2-4 is not for auto report supervision function and zone5-8 for auto report function.

Zone Switch Table		
1	2	3
ZONE 1	OFF	OFF	OFF
ZONE 2	ON	OFF	OFF
ZONE 3	OFF	ON	OFF
ZONE 4	ON	ON	OFF
ZONE 5	OFF	OFF	ON
ZONE 6	ON	OFF	ON
ZONE7	OFF	ON	ON
ZONE 8	ON	ON	ON

- **TESTING:**
1. Make sure that the ID code has register to main console.
2. Setup re-trigger duration jump and test jump at the close position on the test mode.
3. Walk into the protective area by walking one step per second rate across the PIR bean and look the LED.
4. Whenever you enter or exit a protective bean, you will find out that the LED will be lighted.
5. The maximum length of the PIR protective coverage is 12 meters.
6. Please setup re-trigger duration jump at open and test jump at open position is on normal working mode. It can save power and increase battery life.

7. **The detector area:**

- **Specifications:**
1. Power source: CR123A 3V Lithium battery.
2. Stand-by / Working current: 25uA /5mA (Max).
3. Working frequency: 434Hz or 869MHz.
4. Working temperature: -10℃ to 40℃.
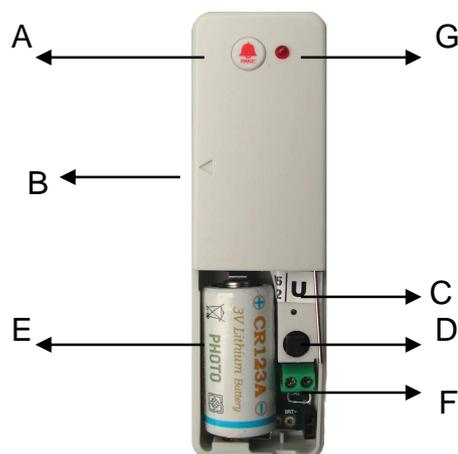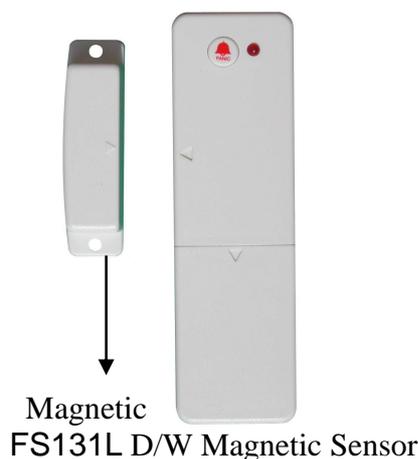5. Dimension: 120L x 70W x 45H (mm). Weight: 180g.
6. Battery Life: About 2 years.

❀❀ **FS131L D/W Magnetic Sensor Manual** ❀❀
❀❀ **FS156L Universal Transmitter Manual** ❀❀
❀❀ **FS132L D/W Magnetic Sensor C / O Manual** ❀❀

- **ILLUSTRATION & DESCRIPTION:**
A. PANIC button: Press Panic button to active panic alarm.
B. Magnetic Reed sensor：To detect the opening door or window.
C. Zone DIP-switch: To setup zone code, each sensor has the unique transmitting code for zone identity.
D. Tamper switch：It will be trigged when the battery cover is opened.
E. Battery: CR123A Lithium battery.
F. Extension NC terminal：Normal Close is for wire sensor.
G. LED indicate：It will be lighted to indicate that the sensor is triggered or the low battery condition.

Magnetic
FS131L D/W Magnetic Sensor

❀❀ **FS132L D/W Magnetic Sensor C / O Manual** ❀❀

- **INSTALLATION & DESCRIPTION:**
1. FS132L D/W Magnetic Sensor C / O can check the door / window whether is **open or close**. The main console can memorize the sensor on **open or close** condition.
2. When the main console enters the armed mode, it will emit long beep sounds. Zone 8 and sensor numbers are display to confirm whether the FS132L D/W Magnetic Sensor is **open**.
3. The FS132L has to register the ID code at channel 7-8 and the sensors from 70-89(total 20pcs). The user cannot setup the FS132L ID code register at channel 1-6.
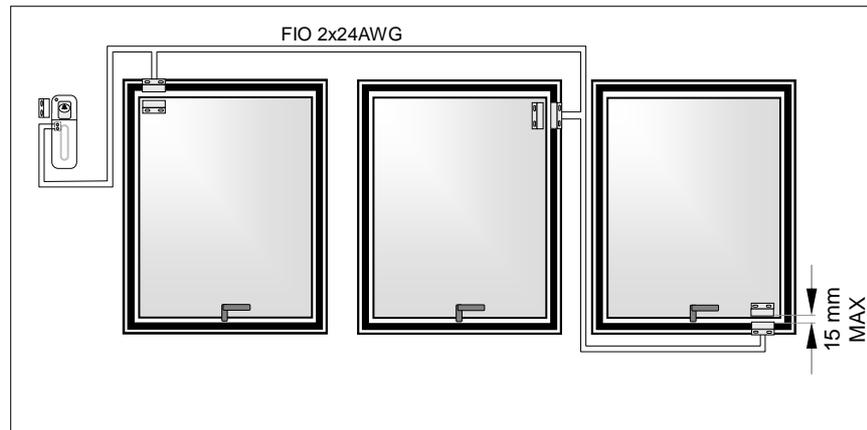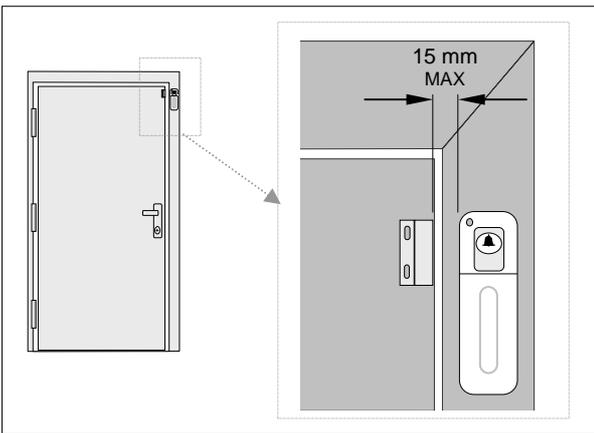4. The DIP-switch no need to setup that only working on zone8.

● INSTALLATION & DESCRIPTION:

1. Open the battery cover to install battery.
2. Pushing the tamper switch transmit ID code is to register this sensor. When the main console is on the ID code register mode.
3. Setup zone code, each sensor has the unique transmitting code for zone identity.
4. The NC terminal is an extension for the wire reed sensor or the glass broken detector. The wire link has to be removed before use.
5. Don't setup on zone1, the zone1 is for tamper zone test function.
6. Option bracket holder is for install metal door or window that can increase transmitter range.
7. The sensor tamper switch will active zone 1 function.
15. . The sensor zone on 2-4 is not for auto report supervision function and zone5-8 for auto report function.

Zone Switch Table			
	1	2	3
ZONE 1	OFF	OFF	OFF
ZONE 2	ON	OFF	OFF
ZONE 3	OFF	ON	OFF
ZONE 4	ON	ON	OFF
ZONE 5	OFF	OFF	ON
ZONE 6	ON	OFF	ON
ZONE7	OFF	ON	ON
ZONE 8	ON	ON	ON

● TESTING:

1. Make sure that the ID code has register to the main console.
2. Press the PANIC button to trigger Zone 0 on the main console.
3. Open the door or window to trig. The main console emitted alarm sound and the set zone LED is lighted. The magnetic transmitter is working properly.

● Specifications:

1. Power source: DC3V CR123A Lithium battery
2. Stand-by / Working current: 8uA /5mA (Max).
3. Working frequency: 434Hz or 869MHz.
4. Working temperature: -10℃ to 60℃
5. Dimension: 100L x 30W x 20H(mm), Weight: 100g
6. Battery Life: About 3 years.

❁❊ FS154L/S Remote Controller 4 buttons Manual ❁❊

● INSTALLATION & DESCRIPTION:

1. Press the PANIC and UNLOCK button simultaneously 2seconds to turn on, when the FS154S is on OFF mode. (default)
2. Press the PANIC and UNLOCK button simultaneously 2seconds to turn off, when the FS154S is on ON mode.
3. When press any one of button that LED flash to confirm low battery.
4. Press any one of button within 0.5second will not accept the function
5. Press any one of button over 0.5second will accept the function.
6. Pushing the PANIC button transmit ID code is to register this remote. when the main console is on channel1 ID code register mode.

FS154L/S Remote Controller 4 buttons

● **Operation setting:**
1. PANIC button: To trigger the Silent alarm instantly during an emergency.
2. HOME button: To setup the Home armed, repeat to disarm.
3. AWAY button: To setup the Away (fully) armed, repeat to disarm.
4. UNLOCK button: It has different function on ID code register at channel 1 and 2.
   The ID code at channel 1: To setup disarm and stop alarm sound and auto dialer.
   The ID code at channel 2: Disarm or Home armed mode to active Door chime tone and Away armed
    mode to active alarm sound.
5. PANIC and HOME button simultaneously press: To trigger alarm instantly during an emergency.
6. LED indication: It will be light to indicate the Remote controller operating, or the low battery condition.

● **Specifications:**
1. Power source：DC3V 2032 lithium battery.
2. Transmitting Current：6mA.
3. Stand-by current：5uA.
4. Working frequency: 434Hz or 869MHz.
5. Working temperature: -10℃ to 60℃.
6. FS154L Dimensions: 80Lx30Wx14Hmm. weight: 35g
7. FS154S Dimensions: 60Lx30Wx12Hmm. weight: 30g
8. Battery Life：Over 1 year.

❀❀ FS210 / FS250 Main Console Basic Setting ❀❀

1. Away armed (repeat to disarm) **--** Press password X X X X 🏠
2. Home armed (repeat to disarm) **--** Press password X X X X 🏠
3. Disarm or cancel alarm memory LED Press password X X X X CE
4. Emergency Panic (simultaneously press) **---** ＊ ＃
5. Emergency Silent Panic **----------------------** 9 0 ＃

❀❀ FS154L/S Remote Controller Basic Setting ❀❀

1. Press 🔔 Button: To trigger the Silent alarm instantly during an emergency.
2. Press 🏠 Button: To setup the Home armed, repeat to disarm.
3. Press 🏠 Button: To setup the Away (fully) armed, repeat to disarm.
4. Press Key Button: To trigger the chime tone on disarm/Home armed and alarm sound on Away armed.
5. Press 🔔 and 🏠 Buttons simultaneously press: To trigger alarm instantly during an emergency.

● Wireless sensor detector zone area form

Sensor zone	Zone function			Sensor application	Sensor location
Zone 1	Chime	Delay	By-pass (Home)		
Zone 2					
Zone 3					
Zone 4					
Zone 5					
Zone 6					
Zone 7					
Zone 8					