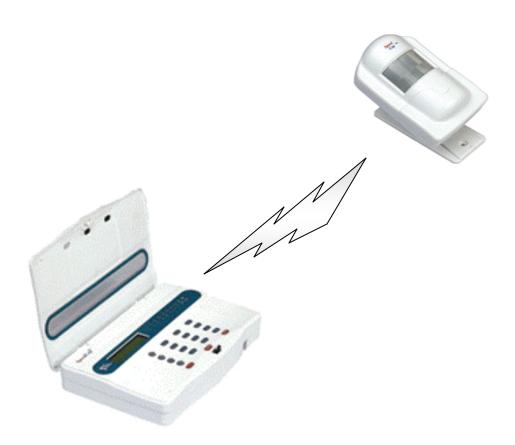
User Manual

FM Wireless Home Security

Alarm System

- SpeedCopTM 2000-



Dynamic Technology Inc.

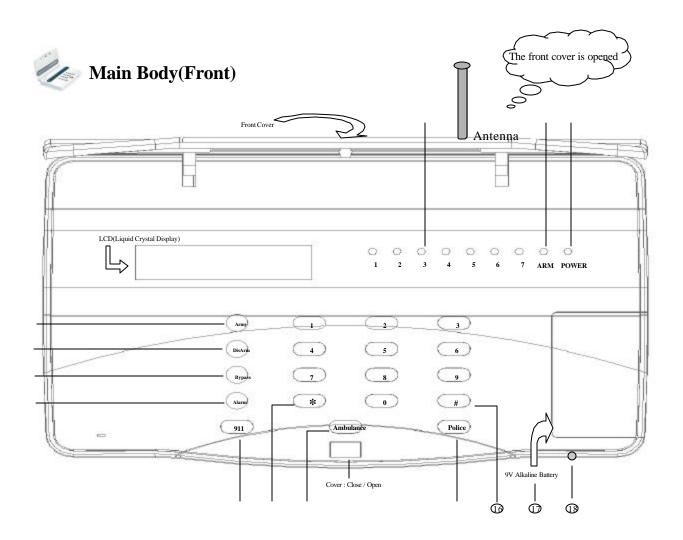
www.dynamictek.com

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Division	ITEM	Appearance	Specification	
	Main Body		Power Supply Unit: DC9V Battery, 600mA Power Consumption: Disarms(150mA), Arms(300mA) Max. Sensor No.: 7 Wireless + 2 Wire Max. Remote control No.: 7 units Max. recording No. of Telephone: 7 Demodulation Method: Frequency Demodulation Dimensions: 47D x 144H x 222W	
B A S PIR Sensor C			Power: DC 9V Battery Transmission & Reception Method: Radio Frequency Modulation Method: Frequency Modulation Detection Method: Passive Infrared Angle: Vertical(45), Wide(110) Communication Distance: Max. 1000M Detection Range: Max. 30M Dimension: 32D x 97H x 65W	
I T E M	Door Sensor	SpeedCop ^{ru}	Composition: 2 Magnetic Bars + 1 RF Transmitter Detection Method: Magnetic	
	Remote controller	SpeedCop of the state of the st	Composition: 2 Buttons(ON + OFF) Communication Method: Radio Frequency(FM Wave) Utility Range: 50M Dimensions: 30mm x 11mm x 55mm Battery Power: DC 12V(A23 Alkaline Battery)	
A		Adapter	Power supply unit to main body at DC 9V	
C C	T - Hanger		When the main body is hanging on the wall	
E S	Warning Decals		Sticking an invasion route for warning	
S	Battery		Supply ; the power to PIR sensor & RF transmitter	
O R	Phone cable		Connector between the main body and local telephone	
Y	User Manual		Utility Guide for SpeedCop2000	

Option

Gas Detector	Gas Controller	Gas Shut off Devise
CALL CONTROL OF THE PARTY OF TH		
Detection Method: Contact Combustion Response Speed: Within 20 Sec. Detects LNG & LPG, Butane/Methane Gas Power: AV 220V, 50/60Hz Power Consumption: 2.7W Dimensions: 46D x 116H x 66W	Power: AV 110/220V(60Hz) Power Consumption: 1.3W Output Voltage: DC12V Operating Temperature: -10 ~+40 Relative Humidity: 20 ~ 95% RH Dimensions: 44D x 145H x 100W	Valve : Screw Type(Ball Valve) Power : DC12V Power Consumption : 2.5W Shut-off Speed : 5 Sec. Dimensions : 118D x 167H x 60W
Fire Detector	RF Module	Infrared Detector
	SpeedCop TM	
	Modulation: Frequency Modulation Frequency Bandwidth: 447.275MHz Power: DC 9V Application Field: Gas, Door & Fire Detecto dimensions:	
PIR Sensor(Ceiling style)	Pet Detector	Light
Detection technology: Dual Element PIR Current Consumption: 15mA at DC 12V Power: DC 9~16V regulated Alarm Contact: DC 24V, 50mA Pulse Count: Selectable 1~3 RF Immunity: 3-V/m. up to 1GHz	Current Consumption: 25mA at DC 12V 45MA at DC 16V Voltage Requirements: DC 9-16V regulated Alarm Contacts: DC 24V, 50mA Temper Contacts: DC 24V, 0.1A	Power Supply : DC12V Power Consumption : 120mA Natural Gifts : Cover - Acrylic Base - ABS Dimensions : 26mm x 167mm x 96mm



Cut off the power

If the main power is cut off, the main body can operate itself by DC 9V alkaline battery continuously.

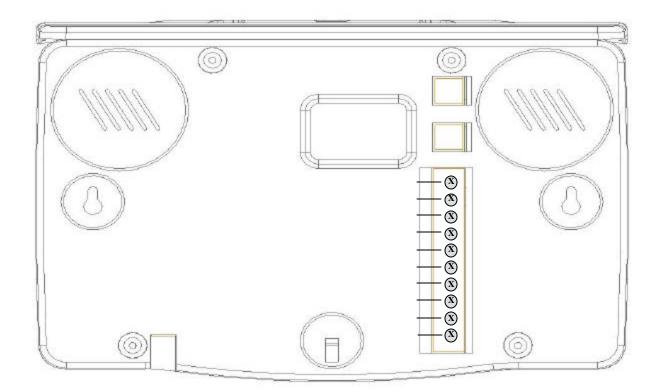
Power LED changes to a green color and other LED's are off if the main body is supplied with power by the backup battery. In this case, user may be confused that each sensor does not operate as the back light of LCD can not operate. But, sensors are normally operated due to save the battery.

- * You must use DC 9V alkaline battery as a backup battery
- * Max. time: 6 hours

- 1. Front Cover: Main body cover of SpeedCopTM 2000
- 2. Arming LED: Per each sensors Red light shows when the sensor is armed
- 3. Antenna: Receiving the FM signal of each sensors
- 4. Arming LED: Classification of Arming or Disarming
- 5. Power: Checking of power ON/OFF(Yellow light)
- 6. LCD(Liquid Crystal Display): Showing the order or input text on the LCD
- 7. Arm: Arming of all the sensors.
- 8. Disarm: Disarming of all the sensors.
- 9. Bypass: Bypass the selected sensors by user's requirement.
- 10. Chime: Automatic alarm notice is arming if the door is not completely closed and
- chime bell sound when Disarming mode of the main door sensor.
- 11. 911(Emergency call): Automatic call to 911 by one-touch button
- 12. * Key : Cancellation Key
- 13. Ambulance : Emergency calling function to memorized hospital by one-touch button
- 14. Cover Open/Close: SpeedCop 2000 cover open/close
- 15. Police: Emergency calling function to memorized police station by one-touch button
- 16. # Key : Enter Key
- 17. DC 9V battery: Spare battery when the main power is cut off
- 18. MIC.: Tapping or dual-communication function through MIC. from the outside



// Main Body(Rear)



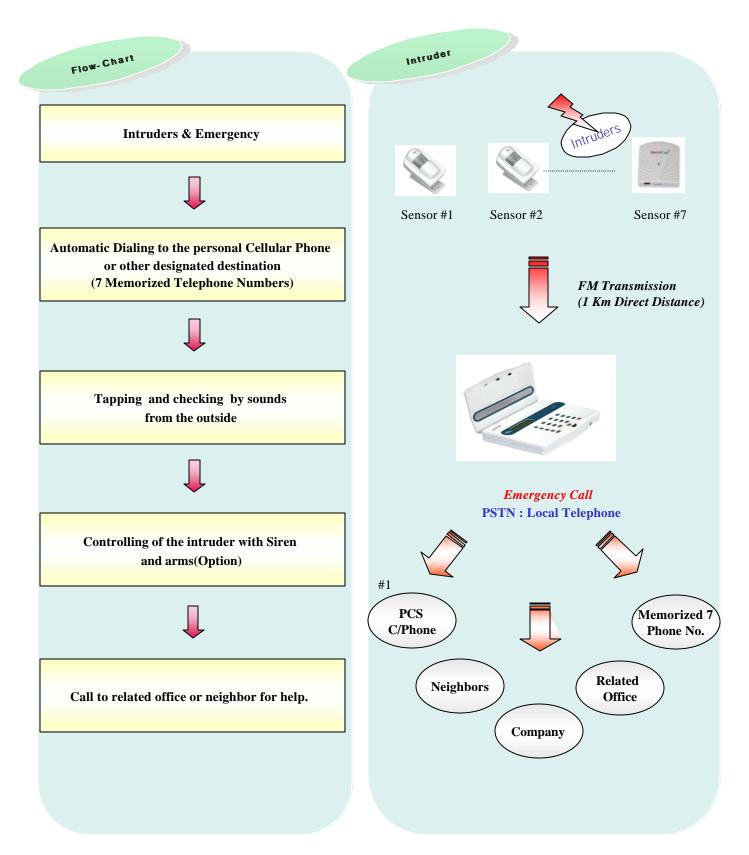
Rear Terminal

You can use wire sensors usually.==> You may use additional wire sensors.

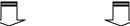
- 1. External Lamp: Notice emergency to outside by light
- 2. External Siren : Notice emergency to outside by siren
- 3. Impact Detector: Install at windows for detecting intruder
- 4. Infrared Detector: Installing both sides of intruding route and detector sensing when intruder passes through this route
- 5. Fire Detector: Detecting fire and smoke
- 6. Gas Detector & Shut-off Device : Gas shut off equipment with remote controller from outside

Layout - Rear

- 1. Speaker: For siren, ARS comment or key tone.
- 2. Telephone port: Connecting port between the main body and telephone
- 3. Line port: Connecting port to main body from the line of the telephone office
- 4. T Hanger: Use when the main body is hanging on the wall
- 5,6. Telephone line terminal : Connecting to Line port No.3 or telephone line terminal which comes from telephone office line
- 7. Output A: The first output terminal for controlling sensors or siren at the main body
- 8. Common: Common terminal of external output terminal A & B
- 9. Output B: The second output terminal for controlling sensors or siren at the main body
- 10. Input A: The first input terminal for transmission of signal from sensors to main body
- 11. Common: Common terminal of external input terminal A & B
- 12. Input B: The second input terminal for transmission of signal from sensors to main body
- 13. GND: DC 9V power ground terminal
- 14. DC power terminal : DC 9Vpower terminal
- 15. DC power terminal : DC 9Vpower terminal(for Adapter)



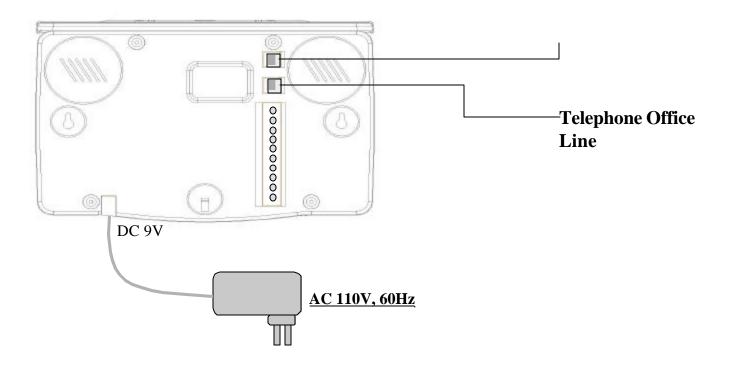
- 1. Check the position of Main body & Sensors
 - Considering the position of main power & telephone line
- 2. Unpacking the SpeedCop 2000
- 3. Connecting the telephone line and the power to the Main Body
 - Main Power: for DC 9V(adapter)
- 4. Input the telephone numbers, set up sensors and remote controller.
- 5. Connecting each sensors to input & output terminal
 - ex : Gas detector, siren, wire sensor, etc.(Picture 2)
- 6. Re-checking input result and test operation
- 7. Fixing and hanging main body & each sensors



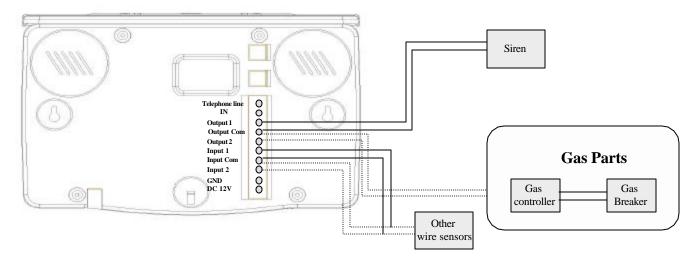
Installation Completed

Connecting of Power & Telephone line

Telephone Line

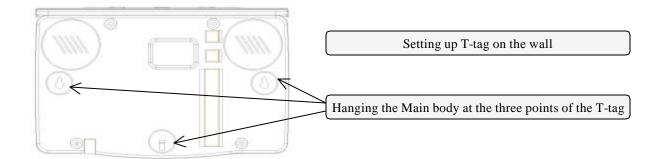


Connecting of Sensors

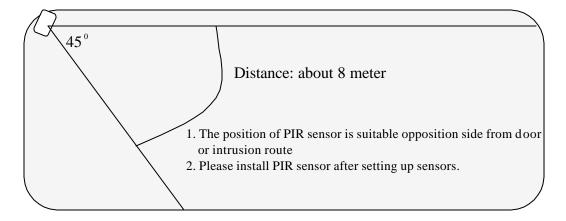


Picture 2

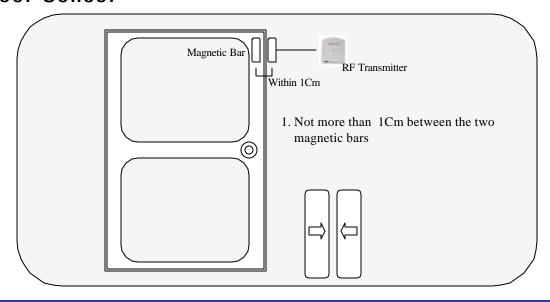
Main Body (For attaching on the wall)



PIR Sensor



Door Sensor



Input set up is being done when in disarming mode only

If you want to cancel inputting information while you input, please enter asterisk key

Use reset for deletion purpose only

	note Controller Reset	Keypad	LCD(Liquid Crystal Display)
Rei	Reset	Resetting of the first remote controller	SpeedCop 2000
	1.	Press the number 1 key	* Menu Input: 1
	2.	Press the number 1 again (The second remote controller is 2)	* Menu Input: 11
	3.	Press the # Key	Remote controller Setup: 1
	4.	Press the # Key again	ARS Comment Input completed
\		This procedure deletes	the previous input record
/	ensor Reset		
S	ensor	Resetting the third Sensor	SpeedCop 2000
	1.	Press the number 2	* Menu Input: 2
	2.	Press the number 3	* Menu Input: 23
	3.	Press the # key	Sensor Setup #3
	4.	Press the # key again	Input completed
/		This procedure deletes	the previous third input record

* Input set up is being done when in disarming mode only

Input code number

Division	Input Code	Division	Input Code
Remote Controller	11 ~ 17	Password	51
Sensor	(1)21 ~ (1)27	Recording of User's comment	61
Telephone Number	31 ~ 37	Replaying of the user's comment	62
Emergency Call	41 ~ 43	Exit	71

(*Siren On/Off: 81)

LCD(Liquid Crystal Display) Remote controller **Keypad** SpeedCop 2000 Input the first Remote controller *** Menu Input:** 1 Press the number 1 1. *** Menu Input:** Press the number 1 again 2. (The second remote controller is number 2) Remote controller setup: #1 Press the # Key 3. ARS Comment Press the arming button 4. **Input Completed**

Keypad

LCD(Liquid Crystal Display)

Sensors

Input of the first sensor

SpeedCop 2000

Press the number 2 Key 1.

* Menu Input: 2

Press the number 1 Key 2. (The second sensor No.: 2) *** Menu Input:** 21

3. Press the # Key Sensor Setup #1

4.

Put the battery into a sensor or sensing

ARS Comment **Input completed**

PIR Sensor(Has to show red light at the sensor)

- Connecting the battery to sensor
- Waiting 10 seconds till next sensing

Door Sensor

- Put the battery into RF Transmitter while RF transmitter of door sensor and magnetic bars are connected
- * Add sensors as a customer's requirement(PIR, Door, Fire, Gas sensor, etc.
- Wireless: Add up to 7 sensors(LED) by serial and unlimited if connected by parallel
- Wired: Add up to each 2 sensors for input and output(Gas, Fire, Siren, Light, etc.)

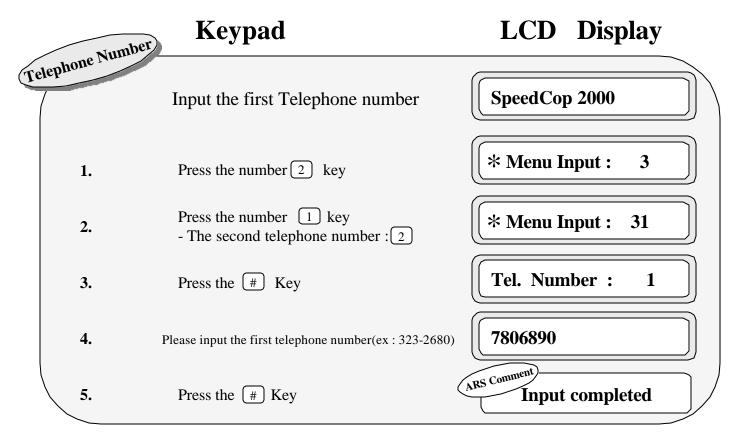


Bypass

Arming or disarming of appointed sensors among installed sensors by user's requirement.

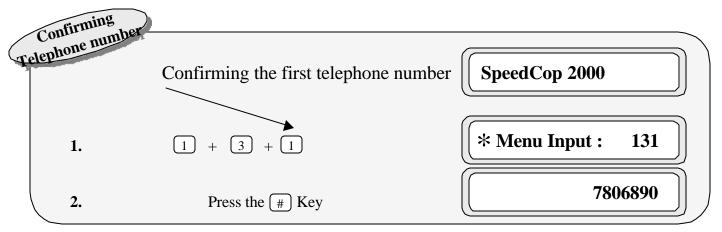
1 + 2 + 1 + 4 + 5 Set up the sensor No. 1: Bypass





^{*} If you want to input additional telephone numbers, please change numbers 2 & 4 only.

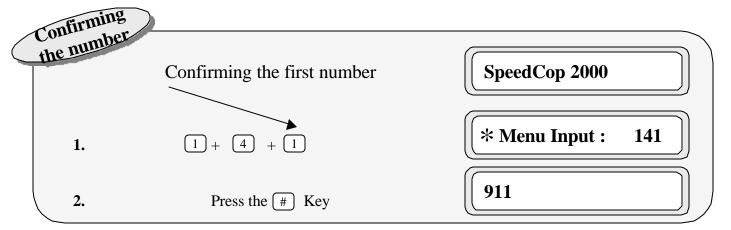
^{*} Caution : Although the number is repeat, please input all of 7 telephone number.



^{*} If you want to confirm the additional telephone number, please input 1 before you press the telephone input code.

^{*} Telephone number can be input up to 7numbers.

LCD(Liquid Crystal Display) **Keypad** Emergency call number Input the first emergency call number SpeedCop 2000 * Menu Input: Press the number 4 Key 1. *** Menu Input:** 41 2. Press the number 1 | Key **Emergency Tel** #1 Press the # Key **3.** 911 4. Please input the first emergency call number(ex: 911) (ARS Comment 5. Press the # Key **Input Completed**



^{*} If you want to confirm the additional telephone number, please input 1 before you press the telephone input code.

^{*} If you want to input additional numbers, please change numbers 2 & 4

^{*} Please input the number of emergency station that is near where you are

Keypad

LCD(Liquid Crystal Display)

Password

Input of Password

SpeedCop 2000

1. Press the number 5 Key

* Menu Input: 5

2. Press the number 1 Key

* Menu Input: 51

3. Press the number #Key

* Password:

4. Please input 4 digit password

* Password: 1234

5. Press the # Key

ARS Comment Input Completed



In this case, needing password

- Control the main body with remote control from outside by telephone.
- When user wants to "Bypass".
- When user touch any key on the main body under Arming.

In this case, The main body requests password.

LCD(Liquid Crystal Display) **Keypad** Recording Voice Voice Recording SpeedCop 2000 * Menu Input: 6 Press the number 6 Key 1. * Menu Input: **61** Press the number 1 Key 2. *** Recording: 12** Press the # Key **3.** 4. The main body will start recording warning message for 12 seconds

Replay		
RCF	Replay of recorded voice	SpeedCop 2000
1.	Press the number 6 Key	* Menu Input: 6
2.	Press the number 2 Key	* Menu Input : 62
3.	Press the # Key	* Play: 12
4.	Recorded voice message will replay through speaker	r for 12 seconds

Keypad

LCD(Liquid Crystal Display)

Delay Time

Input Exit time

SpeedCop 2000

1. Press the number 7 Key

* Menu Input: 7

2. Press the number 1 Key

* Menu Input: 71

3. Press # Key

*** Delay Time:**

4. Input the interval time you wanted (ex : 15 seconds)

* Delay Time: 15

5. Press the # Key

ARS Comment Input Completed

^{*} Exit time that you go out from home to outside.

^{*} Suitable setting time :10 ~ 15 seconds

Keypad

LCD Display

Siren

Siren ON/OFF

SpeedCop 2000

1. Press the number 8 Key

* Menu Input: 8

2. Press the number 1 Key

* Menu Input: 81

3. Press the # Key

*Siren: ON

Please press any number key(1 ~ 9)
The main body is changed
from on(off) to off(on) automatically.

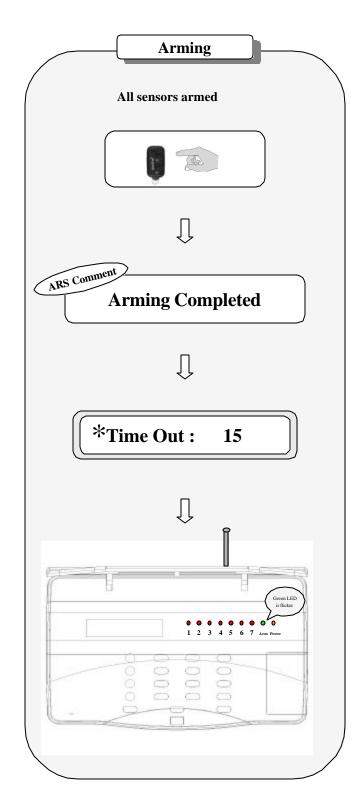
*Siren: OFF

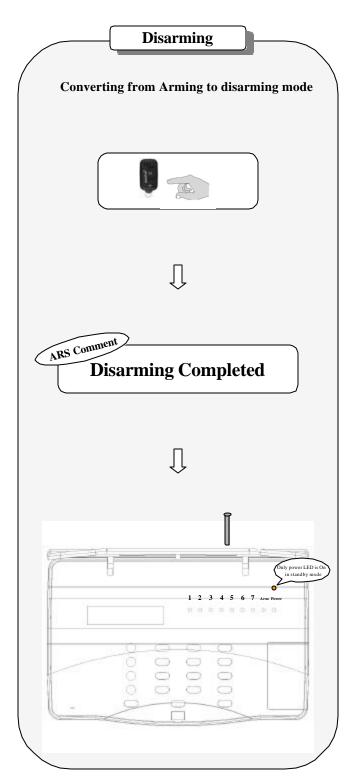
5. Press the # Key

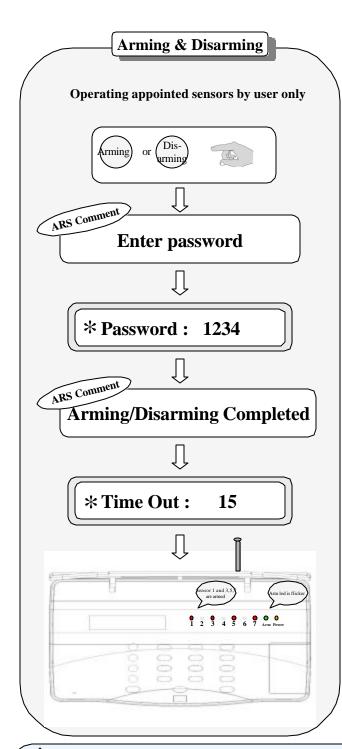
Input completed

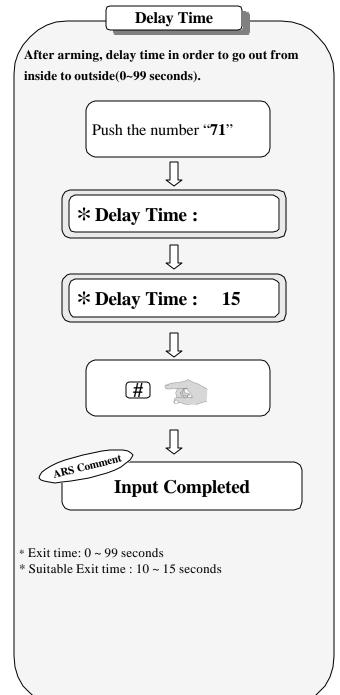
Key Function: (*: Cancel, #: Enter)

	No.	Keypad	ARS Comment	Remarks
	1	1 + 1 + # Remote controller No.1 : ON	Input completed	
	2	1 + 2 + # Remote controller No.2 : ON	Input completed	
Domoto	3	1 + 3 + # Remote controller No.3 : ON	Input completed	
Remote Controller	4	1 + 4 + # Remote controller No.4 : ON	Input completed	Remote controller : 10 units
Controller	5	1 + 5 + # Remote controller No.5 : ON	Input completed	
	6	1 + 6 + # Remote controller No.6 : ON	Input completed	
	7	1 + 7 + # Remote controller No.7 : ON	Input completed	
	1	2 + 1 + # + Sensor No.1 : Power approval	Input completed	
	2	2 + 2 + # + Sensor No.2: Power approval	Input completed	
	3	2 +(3) +(#) + Sensor No.3 : Power approval	Input completed	In Bypass case : Input 1 key
Sensor	4	2 + 4 + # + Sensor No.4 : Power approval	Input completed	before you press
	5	2 + 5 + # + Sensor No.5 : Power approval	Input completed	2 key
	6	2 + 6 + (#) + Sensor No.6 : Power approval	Input completed	
	7	2 + (7) + (#) + Sensor No.7 : Power approval	Input completed	
	1	3 +1 +# + Telephone No.1 +#	Input completed	
	2	3 +2 +# + Telephone No.2 + #	Input completed	
Tolonhono	3	3 +3 +# + Telephone No.3 +#	Input completed	
Telephone	4	3 +4 +# + Telephone No.4 +#	Input completed	(Ex.)
Number	5	3 +5 +# + Telephone No.5 +#	Input completed	1+3+1+#
	6	3 +6 +# + Telephone No.6 +#	Input completed	
	7	(3) + (7) + (#) + Telephone No.7 + (#)	Input completed	
Emergency	1	4 + 1 + # + Telephone No.1 + #	Input completed	Input the number
Telephone	2	4 + 2 + # + Telephone No.2 + #	Input completed	of 911, police,
Number	3	4 + 3 + # + Telephone No.3 + #	Input completed	ambulance,etc.
Input of Password	1	(**) [5] + [1] + [#] + Enter password Input completed		(****)
Voice	1	6 + 1 + # + Recording	Recording time indicated	12 seconds
Recording	2	6 + 2 + # + Reply	Reply indicated	12 30001143
Stay	1	7 + 1 + # + (0~99 seconds) + #	Input completed	





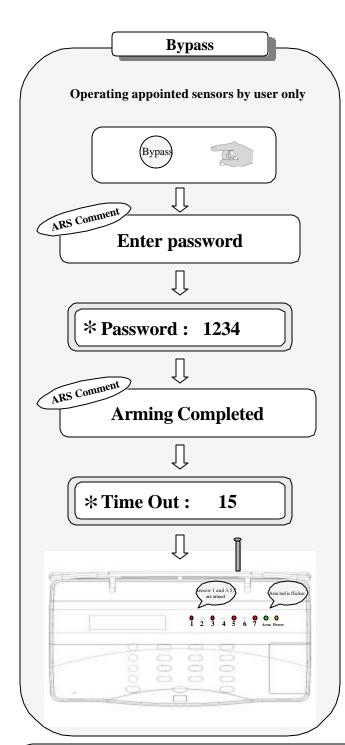


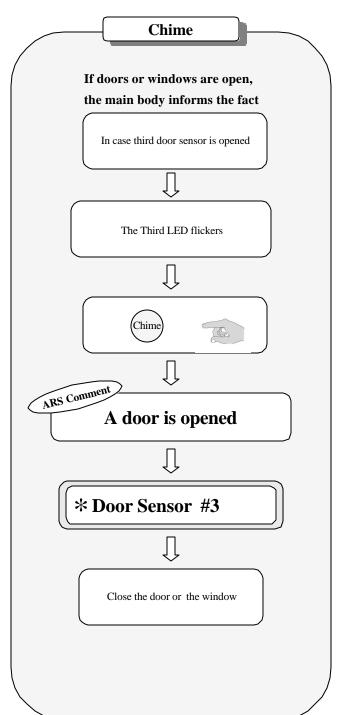




Bypass Function

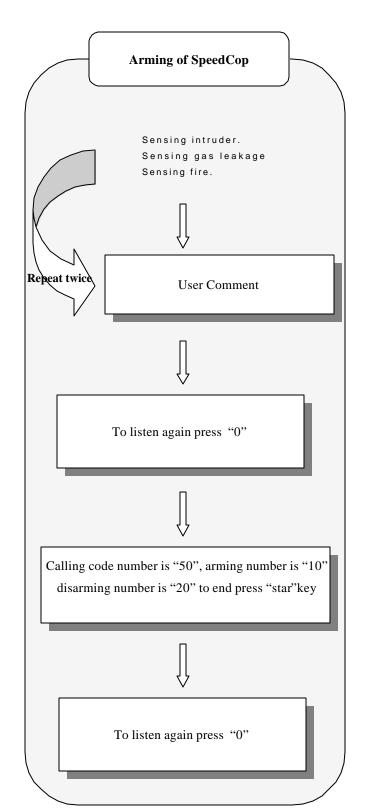
Bypass: User select specific sensor and then register at the main body, so the specified sensors are armed.

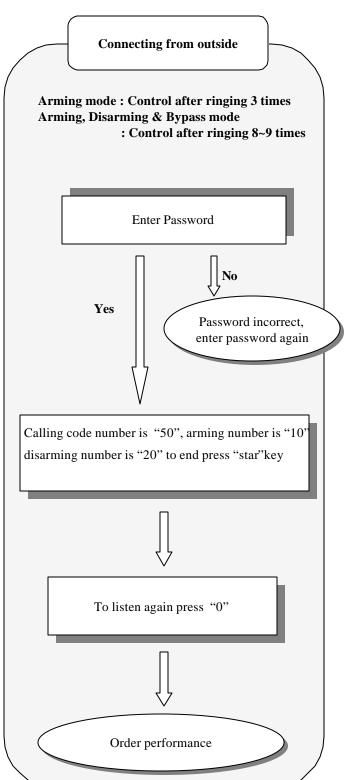






- 1. You can confirm if a door or window is open / close in a zone when you are out.
- 2. You can use chime bell function by push the Chime button when disarming mode.





10

Arming

 Keeping main body on arming mode by remote control or push arming button.

50

Both side

- Hearing footsteps, sound or whisper etc.
- Shout to intruder out
- end of emergency by remote control when sensing the family

30

Output A control

- The siren included in the main body rings by remote control
- operate wired equipment connected output to terminal A

60

Output B control

- Operate wired equipment connected output terminal B

(Ex: Gas controller, Outdoor siren etc.)

20

Disarming

 Keeping main body on disarming mode by remote control or push Disarming button.

Example: when the main body senses the intruder is not a burglar.

*

END

 This command stops the main body from calling the next telephone number.

40

Output A disarming

- The siren included in the main body is turned off by remote control
- stop operating wired equipment connected output terminal A

70

Output B disarming

- stop operating wired equipment connected output terminal B

User must control by phone to meet emergency after receiving telephone

Sensing	Controlling	
	Listen to the ARS comment that a intruder is detected and then check whether it is family or intruder	
Intruder	Ring a siren (30)	
Sensing	Threaten the intruder by siren & call the police	
	Turn off the siren (40)	
Fire	Tapping (50) Listen to the ARS comment that a fire is detected	
Sensing	Ring a siren (30) Spread to neighbors with ringing siren and then call the fire station immediately	
	Shut off the Gas (60) Listen to the ARS comment that gas is detected & input the code "60" for shutting off the gas panel	
	Checking gas siren (50) Check the gas stop	
Gas Sensing	Turn off the Gas(70) Turn off the gas panel for rechecking	
	Emergency Completion(*) Input the remote control code * for arms and then emergency is completed	

Cutting off of main power

Coming from DC 9V battery at the main body

Appearance

- Power LED changes from yellow to green
- Light of LCD is off
- * Most function is the same as before.
- * Back up battery : DC 9V Alkaline battery only(Duration : about. 6 hours)

Cutting off of telephone line

Arming(Includes Stay function)

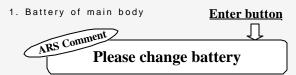


 $\hbox{2. Sensing after arming} :$

Ringing Siren

Battery discharging

Sensor or battery shows changing time of battery before back up battery discharge



* Main Low Bat

2. Battery of Sensor Enter Button

ARS Comment

Please change battery

Low Bat Sensor #3

PIR Sensor

- FM (Frequency Modulation) Type Increasing of communication distance
- •PIR sensing function
- •Sensing distance : Approx.. 10M ~ 20M
- Communication distance : about 1Km
- Detecting Angle

Wide angle: 110 Vertical angle: 45

- Automatic notice of low voltage
 - Life cycle of battery: 6 months at least



Remote controller

- Arming & Disarming function
- Stay: Press the Arming & Disarming button at the same time
- Emergency Call: Press arming button for 3 seconds at least
- Automatic notice of low voltage
- Communication distance: about.50M



RF Transmitter

Radio Frequency Transmitter

- FM (Frequency Modulation)Type Increasing the communication distance
- For door sensor, Gas sensor, Fire sensor
- Communication distance : about. 1Km direct distance
- Notice of low voltage
- Life cycle of battery : Min. 6 months
- Adapter : DC 9V available
- RF transmitter & sensors :Wire



DIP Switch control

Dismantle 2 pieces of screw on PCB after opening the rear cover of RF Transmitter

		Control the dip switch of IC
Door Sensor	Fire Sensor	Gas Sensor
ON	ON	ON
Intruder detected	Fire detected	Gas detected

Door Sensor

- When sensor is operating magnetic bars on doors / windows come off
- Use together with RF transmitter
- Magnetic bar operates a magnet principle



WARNING Please Read Carefully

Note to Installers

This warning contains vital information. As the only individual in contact with system users, it is your responsibility to bring each item in this warning to the attention of the users of this system.

System Failures

This system has been carefully designed to be as effective as possible. There are circumstances, however, involving fire, burglary, or other types of emergencies where it may not provide protection. And alarm system of any type may be compromised deliberately or may fail to operate as expected for a variety of reasons. Some but not all of these reasons may be:

Note: The manufacture is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Inadequate Installation

A security system must be installed properly in other to provide adequate protection. Every installation should be evaluated by a security professional to ensure that all access points and areas are covered. Lock and latches on windows and doors must be secure and operate as intended. Windows, doors, walls, ceilings and other building materials must be of sufficient strength and construction to provide the level of protection expected. A reevaluation must be done during and after any construction activity. An evaluation by the fire and/or police department is highly recommended if this service is available.

Criminal Knowledge

This system contains security features which were known to be effective at the time of manufacture. It is possible for persons with criminal intent to develop techniques which reduce the effectiveness of these features. It is important that a security system be reviewed periodically to ensure that its features remain effective and that it be updated or replaced if it is found that it does not provide the protection expected.

Access by Intruders

Intruders may enter through an unprotected access point, circumvent a sensing device, evade detection by moving through an area of insufficient coverage, disconnect a warning device, or interfere with or prevent the proper operation of the system.

Power Failure

Controllers, intrusion detectors, smoke detectors and many other security devices require an adequate power supply for proper operation. If a device operates from batteries, it is possible for the batteries to fail. Even if the batteries have not failed, they must be charged, in good condition and installed correctly. If a device operates only by AC power, any interruption, however brief, will render that device inoperative while it does not have power. Power interruptions of any length are often accompanied by voltage fluctuations which may damage electronic equipment such as a security system. After a power interruption has occurred, immediately conduct a complete system test to ensue that the system operates as intended.

Failure of Replaceable Batteries

This system's wireless transmitters have been designed to provide several months of battery life under normal conditions. The expected battery life is a function of the device environment, usage and type. Ambient conditions such as high humidity, high or low temperatures, or large temperature fluctuation may reduce the expected battery life. While each transmitting device has a low battery monitor which identifies when the batteries need to be replaced, this monitor may fail to operate as expected. Regular testing and maintenance will keep the system in good operating condition.

Compromise of Radio Frequency (Wireless) Devices

Signals may not reach the receiver under all circumstances which could include metal objects placed on or near the radio path or deliberate jamming or other inadvertent radio signal interference.

System Users

A user may not be able to operate a panic or emergency switch possibly due to permanent or temporary physical disability, inability to reach the device in time, or unfamiliarity with the correct operation. It is important that all system users be trained in the correct operation of the alarm system and that they know how to respond when the system indicates

an alarm.

Motion Detectors

Motion detectors can only detect motion within the designated areas as shown in their respective installation instructions. They cannot discriminate between intruders and intended occupants. Motion detectors do not provide volumetric area protection. They have multiple beams of detection and motion can only be detected in unobstructed areas covered by these beams. They cannot detect motion which occurs behind walls, ceilings, floor, closed doors, glass partitions, glass doors or windows. Any type of tampering whether intentional or unintentional such as masking, painting, or spraying of any material on the lenses, mirrors, windows or any other part of the detection system will impair its proper operation Passive infrared motion detectors operate by sensing changes in temperature. However their effectiveness can be reduced when the ambient temperature rises near or above body temperature or if there are intentional or unintentional sources of heat in or near the detection area. Some of these heat sources could be heaters, radiators, stoves, barbecues, fireplaces, sunlight, steam vents, lighting and so on.

Warning Devices

Warning devices such as sirens, bells, horns, or strobes may not warn people or waken someone sleeping if there is an intervening wall or door. If warning devices are located on a different level of the residence or premise, then it is less likely that the occupants will be alerted or awakened. Audible warning devices may be interfered with by other noise sources such as stereos, radios, televisions, air conditioners or other appliances, or passing traffic. Audible warning devices, however loud, may not be heard by a hearing-impaired person.

Telephone Lines

If telephone lines are used to transmit alarms, they may be out of service or busy for certain periods of time. Also an intruder may cut the telephone line or defeat its operation by more sophisticated means which may be difficult to detect.

Insufficient Time

There may be circumstances when the system will operate as intended, yet the occupants will not be protected from the emergency due to their inability to respond to the warnings in a timely manner. If the system is monitored, the response may not occur in time to protect the occupants or their belongings.

Component Failure

Although every effort has been made to make this system as reliable as possible, the system may fail to function as intended due to the failure of a component.

Inadequate Testing

Most problems that would prevent an alarm system from operating as intended can be found by regular testing and maintenance. The complete system should be tested weekly and immediately after a break-in, an attempted break-in, a fire, a storm, an earthquake, an accident, or any kind of construction activity inside or outside the premises. The testing should include all sensing devices, keypads, consoles, alarm indicating devices and only other operational devices that are part of the system.

Security and Insurance

Regardless of its capabilities, an alarm system is not a substitute for property or life insurance. An alarm system also is not a substitute for property owners, renters, or other occupants to act prudently to prevent or minimize the harmful effects of an emergency situation.