

# GSM MMS Alarm SYSTEM 1/4CH

## User Manual

### Quick Programming

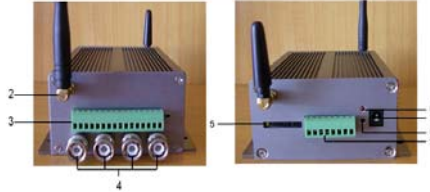
#### Installation

1. Insert SIM card, which MMS is activated, without PIN code
2. Select location where signal strength is strong for communication, mount the console, and adjust camera lens to proper position.
3. Plug in power, +12V, and turn on. Console sounds 2 beeps and 3 beeps around 20 seconds later to indicate system is ready. If 3 beeps not heard, remove the power, check, re-insert the SIM, and re-power after 3 minutes.
4. Follow the examples to program system in flash.

Key in: "000000 M#0932345678,0935111111,0930333333  
 Epeter@hotmail.com" Send this short message to Alarm SIM number  
 Confirmation: administrator will receive a SMS for confirmation as  
 "M:#0932345678,0935111111,0930333333 Epeter@hotmail.com"to indicate programming is successful. #0932345678 represents this is the administrator phone number. ,0935111111 and 0930333333 are general user. (Note: Administrator does not need password to program and operate the system; password is necessary for other user(s) to perform the work. (Refer to Section 2-2-2 for details.)

### 1. General Information

#### 1-1 About the Alarm



- |                           |                 |
|---------------------------|-----------------|
| 1. Remote Control Antenna | 6. Power LED    |
| 2. GSM Antenna            | 7. Power Socket |
| 3. COM1 Port              | 8. GSM LED      |
| 4. BNC Port               | 9. COM2 Port    |
| 5. SIM Slot               |                 |

#### 1-2 Package List

- |                         |                   |
|-------------------------|-------------------|
| 1) Standard accessories |                   |
| a) Host x 1             | d) Antenna x 2    |
| b) Power adaptor x 1    | e) Remote Con.x 2 |
| c) user Manual x 1      |                   |

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- 2) Options:
- Enhanced antenna
  - Remote con.(maximum number is 10 units)
  - Alarm extension unit ( Camera unit or Detection unit)  
Reserved function (future version)
  - Video line (digital signal serial port) Reserved function (future version)

#### 1-3 Major Technical Parameters

|                         |                             |
|-------------------------|-----------------------------|
| PIC Format              | JPEG                        |
| Resolution              | 320X240 /480 X320 pixels    |
| Remote Control Distance | < 30 meters                 |
| Backup Battery          | depends on battery capacity |
| Working Temperature     | 0-50°C (32-122°F)           |
| Relative Humidity       | 10-90%, non-condense        |

### 2. Operation

#### 2-1 Major Function

##### 2-1-1 Active check function

User can supervise the site by sending SMS to the alarm SIM card and check which camera send picture.

Format: 000000XY

X: The camera Channel from 1 to 4

Y: quantity of picture required to review from 1 to 7

"000000XY": Send"00000012" SMS to Alarm SIM number

000000 is default password, X=1 Mean Channel 1 camera, Y=2 mean two pictures .  
 00000012 mean : Channel 1 camera take two pictures, when send SMS"00000012" to Alarm SIM, The alarm will process SMS received, and then send to caller and email address programmed.

##### 2-1-2 Infrared Heat & Motion Dual-Tech Detection

Infrared heat & motion is active under system arming mode to detect any motion object in the premise. If any motion object, i.e. intruder, is detected, The Alarm will send 3 pictures to designated receiver(s). There is 3 seconds of time interval between the first and second shot; the third shot will be sent after the strobe starts to work. After sending pictures, system calls each receiver and play pre-recorded vocal message if the line is through.

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#### 2-1-3 Emergency call key

Under panic or emergency circumstance, such as duress or intrusion, you can press and hold the emergency button on the remote control unit for 3 seconds to initiate a silent alarm and alert designated emergency alarm receiver, and system plays 3 cycles of vocal emergency message when the line is through. Meanwhile, all receivers of designated phone and email address will have picture of premise and vocal emergency alarm alert as well. If line is not through, system will terminate alerting after 5 attempts of calling in 3 minutes of time interval. Refer to Section 2-2-5 for details of programming emergency alarm receiver and Section2-3-1 for remote control unit operation.

#### 2-1-4 Listen in

You just need to send the SMS to the Alarm SIM number, and you will receive call back for the receiver to listen in the sound of premise. You can send SMS: "T+ telephone number or mobile phone number," in one minute console will phone the number behind of the "T". Users receive, they can monitor the voice of the scene. Send SMS: "T", console will call the mobile phone number which send SMS.

#### 2-2 Commands

You must well know the commands in the table to operate the system

| Command | Function                          | Command | Function                              |
|---------|-----------------------------------|---------|---------------------------------------|
| N       | Program password                  | M       | Program receiver phone number(s)      |
| E       | Program receiver email address    | S       | 1: enable strobe<br>0: disable strobe |
| H       | Program emergency alarm receiver  | A       | 1: Activate<br>0: Release             |
| D       | Check System Settings             | T       | Listen-in                             |
| U       | Ext.unit alarming(reserved func.) | C       | Default settings                      |
| 1-7     | Supervise the Site                | J1/J0   | 320X240/480X320pixels                 |

SMS format: (Password)+Command1+Setting1+Command2+Setting2+.....

In each SMS, you can use commands to perform single or multi programming. Beware of that previous setting will be overlapped and invalid by new setting automatically.

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## Cautions:

- ① perform programming: If administrator and user(s) are assigned, password is not required for administrator and necessary for other user(s).
- ② SMS should be keyed either in English. Maximal up to 140 characters for English compose the SMS command list, which includes characters, numbers, and symbols.
- ③ While programming email address, only lowercase is decodable for email address entry.
- ④ Other than " , " (comma) is used as a separator in a command list, " " (space) and " \* " (asterisk) can be used as separators as well.
- ⑤ Password is composed of 6 digit numbers, 0-9.
- ⑥ Maximal up to 5 receiver phone numbers, 3 email addresses, and 5 panic alarm receivers can be programmed respectively.
- ⑦ Even though separator is not a must during two different commands, we strongly recommend to use separator between the commands. In contrast, separator is mandatory for the setting, such as phone number, after the command if setting is more than one.
- ⑧ While programming email address, only English letter, number, and underscore are acceptable. Semicolon, " ; ", is used as prefix and suffix of command list for email address programming. Comma, " , ", is used to divide every email address if email address for programming is more than one and used to close email address entry. Max. up to 3 email addresses can be stored into system; newly programmed email address will clear and overlap previous email address settings automatically. Format is shown as follows.
- ⑨ If you set phone set, not mobile phone, as receiver, the system will just send vocal alert message instead of the pictures of premise when alarm occurs.  
Refer to the following examples for detailed instruction for programming.  
(System Default Password: 000000 )

### 2-2-1 N: To Program Password

To change default password 000000 to preferable code, 111111

Send "000000N111111" SMS to Alarm SIM number

Confirmation: user will receive a SMS for confirmation as N: 111111

Password is not necessary if operate or program the system from administrator's mobile phone; it is mandatory for other programmed users. Password is located at the front of any command list if programmed user is intending to operate or program the system.

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Send: "000000H119, 0938666666" SMS to Alarm SIM number

**Confirmation:** user will receive a SMS for confirmation as H: 119, 0938666666 to indicate programming is successful.

Emergency alarm alert would be active only when the receiver(s) is designated.

- b. To deactivate or delete the panic alarm receiver(s),

Send: "000000H" SMS to Alarm SIM number

**Confirmation:** user will receive a SMS for confirmation as H-Deleted to indicate programming is successful.

#### Note:

- a. 119 is local emergency line and should be authorized by related department, such as police station, before programmed.
- b. Strongly recommend not to program receivers who live within same premise. Thus, intruder would know that owner has initiated emergency call when user's phone rings.

#### Note:

When setting the emergency call as 110, please be careful to use emergency call, must prevent false alarm and has to get approval of local police , you can have 5 emergency call numbers, it will be dialed sequentially follow the setting you made until the phone number you set has been pick up or hang up, or it will re-dial for 10 cycles. Emergency call number is not proper to set user's own mobile number to avoid reminding the criminals at the site, it's better set as 110 or your relative not at the site.

### 2-2-6 A: To Activate/Release the System

You can Activate/Release the system by sending SMS or using remote control unit when you are leaving the premise. Arming or disarming is to activate or deactivate the built-in heat & motion detector. Refer to Section 2-3-1 for the remote control unit Operation.

- a. Activate the system

Send: "000000A1" SMS to Alarm SIM number

**Confirmation:** administrator will receive a SMS for confirmation as detector on If any moving object, i.e. intruder, is detected, system will process alarm alert as programmed.

- b. Release the system

Send: "000000A0" SMS to Alarm SIM number

**Confirmation:** administrator will receive a SMS for confirmation as detector off System will not process any alarm alert If any motion is detected

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### 2-2-2 M: To Set Receiver's Phone Number

- a. To Set administrator phone number, 0932345678, and user phone number, 0935111111, as receivers.

Send "000000M#0932345678, 0935111111 "SMS to Alarm SIM number

Confirmation: user will receive a SMS for confirmation as M #0932345678, 0935111111 to indicate Set is successful.

- b. To delete all programmed phone number(s)

Send "000000M "SMS to Alarm SIM number

**Confirmation:** user will receive a SMS for confirmation as M-deleted

If none phone number is programmed as alert receiver, any mobile phone with feature of MMS activated can perform site supervision, listening in,..etc.

### 2-2-3 E: To Program Email Address

Email address programming should be performed individually not allowed to combine with other command in a single SMS.

- a. To program alert path to designated email address,

july@yahoo.com & peter@hotmail.com from a user mobile phone.

Send: "000000Ejuly@yahoo.com,peter@hotmail.com" SMS to Alarm SIM number

**Confirmation:** administrator will receive a SMS for confirmation as E:

july@yahoo.com,peter@hotmail.com to indicate programming is successful.

- b. To Delete Programmed Email Address from user's mobile phone

Send: "000000E"SMS to Alarm SIM number

**Confirmation:** administrator will receive a SMS for confirmation as E-deleted to indicate programming is successful.

### 2-2-4 S: To Siren ON/OFF Switch

- a. To activate siren and beacon

Send: "000000S1" SMS to Alarm SIM number

**Confirmation:** user will receive a SMS for confirmation as sound open to indicate programming is successful.

- b. To Delete siren and beacon

Send: "000000S0" SMS to Alarm SIM number

**Confirmation:** user will receive a SMS for confirmation as sound close to indicate programming is successful.

### 2-2-5 H: To Program Emergency Alarm Receiver Phone Number(s)

- a. To program police station (119) and 0938666666 as emergency alarm receivers,

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### 2-2-7 D: To Check System Settings

You may check and review system present settings at any time

Send: "000000D" SMS to Alarm SIM number

Feedback example as follows:

Ver: YJ5.3 sound open, detector on, jpg:320\*240 N: 111111

M: #0932345678, 0935111111 E: judy@yahoo.com, peter@hotmail.com H : 110, 0938666666

### 2-2-8 T: To Listen in

Sender can assigned any phone set or mobile phone number followed command T.

User with phone number 0923999999 intends to listen in the premise,

Send: "000000T0923999999" SMS to Alarm SIM number

In 1 minute, system will call the phone number received for the user to listen in the premise.

### 2-2-9 1—7Supervise the Site

Send "00000012" SMS to Alarm SIM number

000000 is default password, 1 is the channel 1 camera, , 2 is the channel 1 camera take two pictures, and then send to caller and email address programmed.

### 2-2-10 C: To Reset the System

To clear all present system setting and revert to factory default,

Send: "000000C"SMS to Alarm SIM number

**Confirmation:** administrator will receive a SMS for confirmation as: factory reset

After resetting the system, system should be restarted and all the remote units should be registered to the system again before using.

Try not to use this setting together with other setting operations, better do it independently.

### 2-2-11 U: SMS extension unit alarming (reserved function for future version)

- a. If you use the monitor extension units, #1 for the room, #2 for the warehouse, operate as follows:

Send "000000U1Room Alarm, 2warehouse alarm" SMS to Alarm SIM number

**Confirmation:** administrator will receive a SMS for confirmation as "u: 1room alarm ,2warehouse alarm" to indicate programming is successful.

- b. delete the alarm contents

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Send "000000U" SMS to Alarm SIM number

**Confirmation:** administrator will receive a SMS for confirmation as "U—deleted"

**Note:** One master unit can max. connected with 8 extension units, Try not to use this setting together with other setting operations, better do it independently.

### 2-2-12 J1/J0 320X240/480 X320 pixels

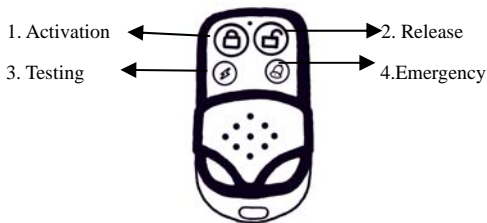
Console default pixels is 320X240

Send "000000J0" SMS to Alarm SIM number

**Confirmation:** administrator will receive a SMS for confirmation as "pixels 320X240" to indicate programming is successful.

## 2-3 Remote Control Unit

### 2-3-1 Buttons



#### Button 1: Activation

You should operate the remote control unit within 100 meters, transmission range, to activation the system. Once the button pressed, the console will sound continuous high-low beeps, and system enter armed mode after 1 minute.

#### Button 2: Release

You should operate the remote control unit within 100 meters, transmission range, to release the system. Once the button pressed, the console will sound a long beep, and system enter disarmed mode.

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#### Button 3: Testing

You should operate the remote control unit within 100 meters, transmission range, to release the system. Once the button pressed, the console will sound beep a twice, and system enter disarmed mode. If press and hold the button for 3 seconds, system will enter or exit factory testing mode. Testing is only for factory inspection purpose, not for end user.

#### Button 4: Emergency Call

Within transmission range, press and hold the button for 3 seconds to initiate emergency alert. If it is answered the monitor unit will broadcast the pre-record voice to give the warning messages.

### 2-3-2 Enrollment

If you are not able to operate the remote control unit(s) normally after system resetting or adding new one(s), you need to re-enroll the remote control unit (s) to system. Instruction is shown as follows.

Power the system, turn on power switch, and wait for system initialization completed (2 beeps heard).

After system initialization, Within 15 seconds, press any button continuously to register the remote control unit to system. You may stop pressing the button when 1 beep is heard to indicate the remote control unit registration successful.

Follow the steps above to register all the remote control units up to 10 to system.

If any remote control units is lost, you may delete all registered remote control units, instruction as below and follow the steps above to re-register the rest remote control units to system again.

System should be rebooted after all remote control units are registered.

### 2-4 Extension unit operations(Reserved function for future version)

While you have the Alarm host, you still can install the extension units within the effective distance, extension units has SMS unit and Video unit two different types:

SMS unit is to give alarm messages thru SMS (see 2-2-11 U— SMS alarm settings)

For example : #2 extension alarm has been triggered you can receive the messages on your mobile with following SMS:

"No.2 give alarm"

Video extension is giving image alarm messages.

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Extension units must do the channel matching with the console before use, it's similar with the way we did for the remote control unit:

The installation environment of extension unit is the same as the master unit, but the distance between master and extension unit can't not over 80 meters (80 meters without any thing blocked) radio wave will be affected by the environment and the distance.

## 3. Notes

### 3-1 Location for the System

- (1) Selecting proper location for system installation, you should check the GSM/GPRS signal before installing. You may use your mobile phone with signal strength indicator to check if signal strength of location is strong or not.
- (2) Electricity power, AC110/220V, should be easy to access.
- (3) System is designed for indoor application, not for outdoor.
- (4) Location should keep away from air-conditioner outtake, steamy area, heat zone, and electromagnetic area.
- (5) System should avoid facing the direct sunlight or being blocked by other object.
- (6) System should avoid facing the area and passage of pets and sun light.
- (7) System should avoid facing transparent window directly.

### 3-2 Data Transmission and MMS Activation(Refer to last section 3-9)

Users' mobile phones should feature GPRS MMS and SMS, and CSD digital data transmission is activated. In addition, the phone set should be programmed properly for GPRS/MMS/SMS operation.

Due to difference of telecommunication service providers and mobile phone models, please consult with service provider for programming.

### 3-3 Notes for Console's SIM

If site supervision is frequently used, please select the higher packet rate of telecommunication service. If not frequently use, basic rate will be enough to cover.

For saving on telecommunication, disable the feature of Caller ID of console. If so, only SMS can operate and program the system.

Before inserting the SIM to the console, unnecessary features, i.e. voice box and call waiting, should be disabled at a mobile phone. Insert the SIM to any mobile phone and contact service for correct procedures.

Refer to user instruction of mobile phone to disable the PIN for the SIM.

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### 3-4 Solution for Password Forgotten

If the password is forgotten or missing, you may follow the steps to reset the password.

- a. Press and hold the Disarm/Test button on any registered the remote control unit for 3 seconds; a long beep is heard to indicate system is entering test mode.
- b. Reboot the system for operation or programming.

**Caution:** Don't short other pins on the connector and touch other metallic object during resetting.

### 3-5 Installation location

The alarm PIR and camera is for indoor application. Detection range, sensitivity, and false alarm are decided by the installation location. The following are strongly recommend for selecting location and installing the system.

- a. Sensitivity of heat detection is decided by the direction of the moving object. If the object is moving towards to the lens of the Alarm host, sensitivity of heat detection will be less accurate than moving cross the zone.
- b. System should face potential cross passage of moving object.
- c. Recommended height for installation is 2.0~2.2 meters to cover maximal detection area
- d. The camera should keep away from air-conditioner, refrigerator, heater, gas burner, or some other heat radiation source, which will affect detection sensitivity and cause false alarm.
- e. The camera lens should not be blocked by blockades such as shield, plants, or other furniture.
- f. The camera and PIR should avoid facing window directly, which outdoor air flow or other moving object will cause false alarm. Before arming the system, pull curtain or blind to cover the window for better performance.

### 3-6 About Motion Detection

Motion detection technology is based on the difference between the images of previous and present pictures shot by the built-in infrared camera. The camera and heat detector have the cone-shape view angle of 60°. Only if the heat and motion detection devices are triggered at the same, and then the system will process alarm procedure. This advanced technology is to provide higher accuracy and to prevent false alarm.

### 3-7 MMS Access Method

Firstly, make sure that host monitor is in the test mode.

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Secondly, send short message to the host monitor as following form to finish the Access Establishment :

Short message form: Password g Homepage(PORT), IP address. APN. ( IP Port), (User Name), (Password),

Be careful that: Content in bracket is default number, it is ignorable if not have. The ' , ' can not be ignored.

eg:

The Establish content of short message for New World of HONG KANG:

000000ghttp://mmsc.nwmobility.com:8002, 192.168.111.1, mms, 9201, . . .

The short message content reference to parameters provided by telecommunication company. The parameters maybe different in different country and different area, it depend on the telecommunication company corresponding to the SIM card in Alarm host.

3: " http://mmsc.nwmobility.com:8002" is the Homepage, some times call the MMSC URL "8002" as the http port , when the port is "80", it can be ignored .

4: "192.168.111.1" is IP address, Gateway IP address.

5: " mms" is APN , APN is abbreviate of Access point name

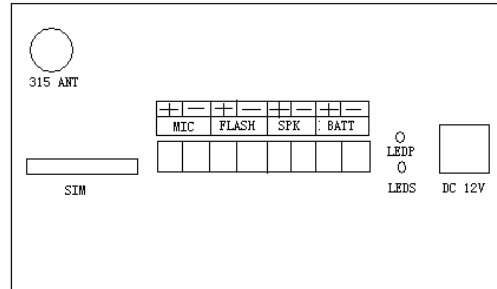
6: If the port is "9201", it can be ignored, but the ' , ' followed can not be ignored.

So the short message above can also be write as:

000000ghttp://mmsc.nwmobility.com:8002,192.168.111.1,mms, . . . ,

7: User Name and Password can be ignored if not have, but the ' , ' followed cannot be ignored.

#### 4 The Interface



explain of the short message:

1: " 000000" is the default password of host monitor;

2: " g" is command character;

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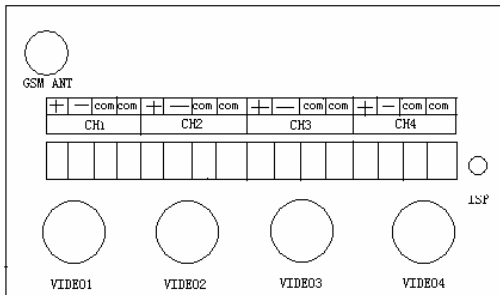
**MIC :** Audio Input + , -

**Flash :** .. Flash LED + , -

**SPK :** + , -

**Battery :** + , -

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**CH1 / CH2 / CH3 / CH4 :** PIR

+ PIR power

- PIR power

com com : Alarm input

ISP : Soft update input

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