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GPS/GSM Handset Instruction Manual

# **GSM/GPS Mobile Phone User Manual**

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## Safety Warnings

- Only use company designated and compatible battery charger. If use charger from other vendors, it will cause the battery the dangers of fluid leakage and fire due to overheating and rupture.
- Please do not put the phone in moist, high temperature or dusty places, in order to avoid malfunction.
- Handset, battery, charger and AC adapter are not waterproofed. Please avoid rainfall or wet situations.
- Before charging handset, please make sure proper installation of battery. Ensure battery installation before connection with adapter, to avoid handset breakdown.
- Please avoid intense collision, vibration or throwing of handset or battery, in order to prevent fluid leakage, overheat, rupture or fire.
- Please do not place handset, battery or charger in microwave oven or high voltage appliances, in order to prevent battery fluid leakage, overheat, rupture or fire, and handset or AC adaptor to overheat, smoke, fire and circuit damage.
- Please do not use handset in volatile gas areas, in order to avoid causing fire, breakdown or damage.

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- Please do not dismantle handset, battery, and charger or modify the internal structure, in order to prevent malfunction or breakdown.

**Warning: Once handset label is damaged, maintenance warranty is deemed invalid.**

**Warning: Incorrect operation of phone will cause invalid product warranty**

Please read these rules carefully, in order to avoid danger or law violation.

**Road Safety**

Do not use handset while driving. If must use, please stop vehicle.

**Power Off When On Airplane**

Handset may create disturbance. Usage on airplane is illegal. Please **switch off** your handset before boarding plane.

**Emergency Call**

To ensure handset is in service range when switching on the handset, input emergency number and press to inform your location. Without the permission, please do not end the call.

**Power Off When Near Explosive Area**

To avoid disturbance of demolition operation, please **switch off** the handset when near areas with "Demolition Scene" or "Turn off Wireless Radio" signs. Take note of restrictions and observes stipulations or regulations.

**Power Off When Near Dangerous Areas**

Please turn off handset when in gas stations or near flammable fuel and chemicals etc.

**Power Off When In Hospital**

Please **switch off** handset when near medical equipments. Handsets can cause disturbances to pacemakers, hearing aids and other implantation equipments. Use of handset near pacemaker will cause equipment function disorder. Avoid placing handset on the pacemaker and it should be in pocket at all times.

**Disturbance**

All handset can receive disturbances, thus will affect the handset performance.

**Accessories and Battery**

Only use factory designated accessories and battery. Improper replacement of battery can create danger. Usage of travel charger and table charger from other vendors can cause possible danger.

**Proper Handset Usage**

When speaking in the handset, the antenna will stand in an erect position which surpasses the shoulder. Do not touch the antenna unless necessary.

**Battery Usage**

- Important: Always turn off handset first before pulling out the battery to prevent from unnecessary memory lost. Some settings may be missing if the battery was removed accidentally from the handset.
- Always use original factory designated battery. Use of other accessories will cause all

maintenance warranties to become invalid. Your handset manufacturer will not undertake any maintenance responsibilities for damages caused by non-original factory designated accessories.

- Please do not let any metal objects (example: key in your pocket) to create short-circuit of the battery contactors.
- Please do not bend or forcefully open the battery.
- Please do not soak the battery in water or put in fire.
- Charging of battery must be done under the room temperature. If the temperature is lower than 0 degrees (32 degrees Fahrenheit) or is higher than 45 degrees (113 degrees Fahrenheit), the charging of battery will possibly not be carry out.

**Important Reminders about GPS**

Generally speaking, the GPS accuracy rate of this handset is approximately at a range of 10 meters or less. However, please note that in the following conditions, the performance of GPS reception may be affected (lessen):

1. Closed indoor, tunnel or underground passage.
2. A zone with high density of tall buildings
3. In a forest with full of tall trees.
4. Rainy and partly cloudy climate.
5. In automobiles with particular types of window tinting.

6. During war or other special situations, some GPS info may be temporarily blocked by government (U.S.), this may also become a unexpected condition of a less accurate GPS position.

In some cases, the GPS location shown on the tracking software may look like it is a little away from the actual address or road. This is due to the climate change. However, if this comes to become too frequent, please check whether your tracking map's system matches the global GPS standard *WGS-84*.

Another condition may be, in some tracking software when it reads data from NMEA0183, it will only read the longitude but cannot read the altitude data. Therefore the map will only show the location in 2 dimensions (2D). If the person or vehicle happens to be on a bridge, the tracking software hence will not have sufficient data to judge whether the object/person is on or below the bridge.

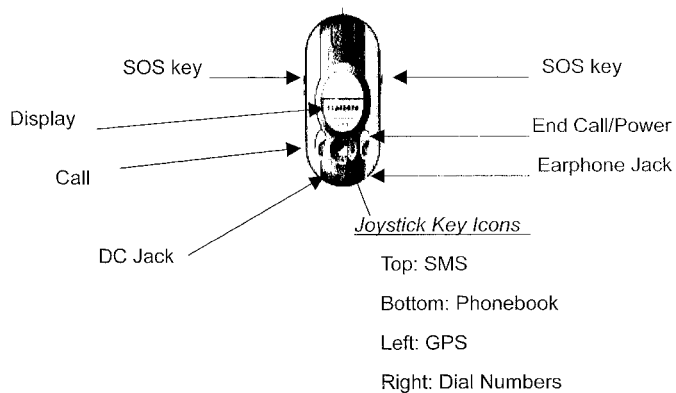
Here is another scenario: If the person holds this handset in point A and successfully acquired the GPS position and later on, he/she carries this phone to point B where is 500 kilometers away from point A. In situation like this, the handset will take longer time to get position for transmitting the GPS information of the last point (point A) and to digest the new Satellites data for providing the updates on point B.

## Specification

Item	Specification
Band Module	GSM 900/1800/1900 MHz
GPS Orientation	Yes
Power Consumption	6~16mA
Power Consumption in Use	65mA, Max 230mA
GPS Sensitivity	-159 dbm
Temperature	-10~45°C
Battery	3.7V/650 mAH
Power Charger	Input: 100~240V Output: 5V, 500mA
Weight	approx. 75g
Mobile numbers capacity	50 numbers
Redial Memory	50 numbers
SMS Memory	100 messages
SOS Call	Yes
Call restriction	Yes
Caller ID	Yes
English display	Yes




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## Phone Introduction



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**Joystick Icon Identification:**

	SMS
	Phonebook
	Dial Numbers
GPS	GPS Info

**Special Notes:**

**SMS:** The GSM/GPS phone can receive all SMS and can send only up to 30 default messages.

**Dial Numbers:** Use joystick to move to the icon at Right and you will see a 0-9 dialer (including \* and #) on the screen. GSM/GPS phone can dial any number or dial restricted numbers according to the settings.

**3.2 Package contains:**

- Travel charger
- Li-ion Battery
- Instruction Manual
- Earphone (optional)
- Phone lanyard (optional)

## Getting Started

### 4.1 Install Battery and SIM card

Please make sure the battery has been charged for 8~12 hours before the first use. For the first charge, 8 hours is required for a full charge. For subsequent charges, 3~5 hours is sufficient.

When charging, one end of the charger wire is connected to the charge hole beneath the left side of the handset while the other end is connected to the power source.

When the battery is almost used up, the screen will show a low power warning signal.

**Warning:**

The handset be used with original battery

The handset must be used with original charger


### 4.2 Turn On Handset

**Attention:** Please confirm proper installation of battery.


Press "Power" key for 3 seconds, a Startup Animation will display on the screen and you will hear startup music. After 30 seconds, animation and music will stop and date, time, signal strength and battery capacity will appear on screen. The handset is ready for calls, setup and operation.


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### 4.3 Screen Display


 - Signal strength indicator (Signal will light up when calls are within service range.


Strength level of signal indicates by antenna marking and vertical strokes. This will not be display if not within the service range)

 - Message icon (This will be shown if there is unread message)

 - Earphone icon will appear when it is plugged in.

 - Missed call icon (This will be shown if there is missed call)

 - Vibration (Tremble Mode) icon (This will be shown if vibration is setup)

 - Battery icon (indicate battery capacity level)

### 4.4 Turn Off Handset

Press and hold the "Power OFF" key for 2 seconds, a Power Off Animation will display on the screen and you will hear a closing music and the handset is shutting down.

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## Phone Operation

**Important Note:** Before using the new handset to make calls or send messages, please carry out information setup first (please refer to "Setup" for more details)

### Main Menu

- GPS Info
- Phonebook
- SMS
- Call Records
- Settings
- Restriction Settings
- Remote Settings

### 5.1 Menu Operation

During standby mode, press down the Joystick key to enter menu selection. The procedure will indicate recent menu selection and icon.

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## GPS Info **GPS**

### GPS Position

Will show the latest received GPS GPRMC data, such as  
GPRMC, 112043.437, A, 2501.3119, N, 12131.8581, E, 0.00,, 81006,, A

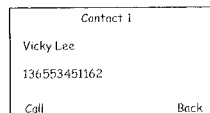
### GPS StarInfo

Choose this and the top five Satellites with ID number will appear.  
For example: Id 9 Sign 40, Id 18, Sign 38..., etc.



### 5.2 Phone Book

#### 5.2.1 Make calls from phonebook

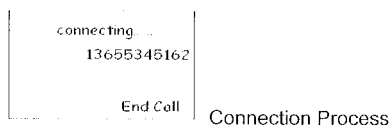



Phone book List

During standby mode, press the joystick key to enter phonebook. Move the joystick

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key to the required contact person. Press "Green Key" to start call.

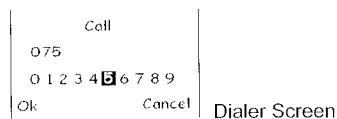


Press "Power" key  to end call and return to standby mode.

### 5.2.2 Make calls from numeral dialer



Under standby mode, press the joystick key towards the right. **Dialing Screen** will appear. Use the joystick key to move the cursor to input the required contact number. Press joystick key to confirm. Repeat the above procedures until all numbers have been inputted. Press "Green Key" to make a call.



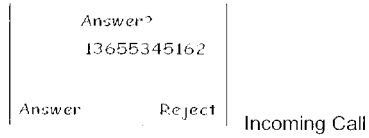
**Important Note:** If restriction has been setup (refer to "Setup" for more details), it is not possible to use dialer to make calls.

### How to Make SOS Call

Press both SOS keys (one at each side of the phone) and hold two keys for 2 seconds to send out Emergency call with SOS GPS position data.

### **5.3 Receive Call**

When there is incoming call, handset will ring the preset tone or vibration (refer to "Setup" for more details) and the caller ID will be displayed on the screen. Press "Green Key" to receive call or press "End call" key to reject it.



**Important Note:** If incoming number has been restricted (refer to "Setup" for more details), the handset will auto-reject the call and there will not be any indications.

#### 5.4 SMS

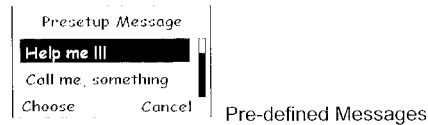


Select Send Message from the SMS menu. You can only send pre-defined messages from this handset. There are 30 default messages stored in the handset, such as "Urgent! Please call me." or "Where are you?" Select the message content you need and press Select to send.

To edit the SMS content: you are allowed to edit/add 9 messages in this list. Please refer to the Command Format Table in Page 26 this manual for setup command details.

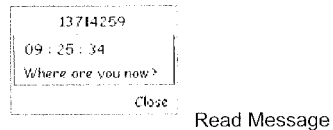
You may also press "Call" key to enter phonebook list and select the number to send

the message.



#### 5.5 Receive SMS

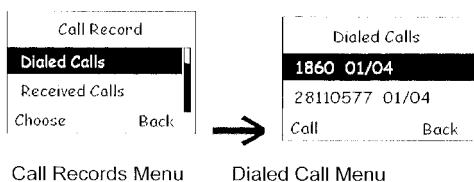
When a message is received, the handset will beep the preset tone or vibration (refer to "Settings" for more details) and a message icon will appear on the screen. Press "Call" key to **Read Message**.



**Important Note:** If the handset number of the message has been restricted (refer to "Setup" for more details), the handset will auto-reject the message and there will not be any indications.

## 5.6 Call Records

Select **Call Records**. "Received Calls", "Dialed Calls" and "Missed Calls" will appear on the screen. Move the cursor to the selected menu item. Press the joystick key to confirm and the call register of the selected menu item will be listed.

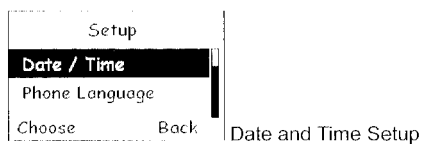


## 5.7 Settings

### Setup – Date/Time – Language Display – Keypad Lock – Sound Setup

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### 5.7.1 Date and Time Setup



The handset will display the previous time. Use the joystick key to move the cursor to select the number which needs to be amended. Press "Call" key to accept it.

The handset will display the previous date. Use the joystick key to move the cursor to select the number which needs to be amended. Use the joystick key to move the cursor to select the correct number (between 1– 9). When done with tuning, press "Call" key to accept the correct date.

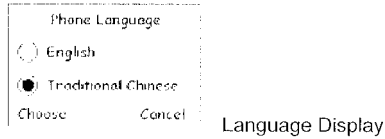
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5.7.1 Time Zone

Please select your time zone from the 24 time zones in the list.

**5.7.2 Phone Language**

Use the joystick key to move the cursor to select the language as shown on the "Language Display".



**5.7.3 Keypad Lock**

You can choose to lock or unlock the keypad of the handset. Press "Call" key and move Joystick downwards to Unlock it.

**5.7.4 Sound Settings**

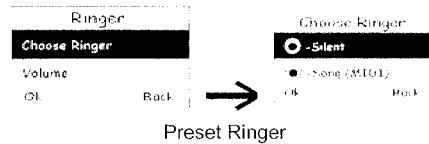
5.7.4.1 Ring Tone

The above 3 kinds of tones correspond to the prompting Ring Tone of incoming call, SMS and alarm time. They can be designated for respective ring type and volume through menu operation and may decide whether to use vibration.

**Call Ringer:**

5.7.4.2.1 Preset Ringer

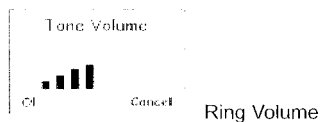
There are 20 preset tones which you can use for your ringing tone. Use the joystick key to select the preset tone and press "Call" key to confirm.



5.7.4.2.2 Ring Volume

You may use the joystick key to move the cursor to change the number of bars to indicate the ring tone volume. During the adjustment process, you can select and

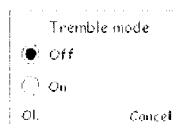
listen to the indicated volume change.



Ring Volume



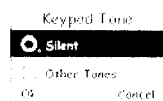
You can assign whether to use the "Tremble mode" (Vibration) when these three events occur. The tremble mode can work alone or with ringing tone.



Tremble Mode



Use the joystick key to select if keypad tone is required and press "Green Key " to confirm. Adjust the keypad tone volume as you like.



Keypad Tone

You may also select which Alert Tone you like in the list and adjust volume accordingly.



Use the joystick key to select your desired Startup music and Shutdown music for the handset. Press "Call" key to confirm the tone.

### 5.8 Restriction Settings

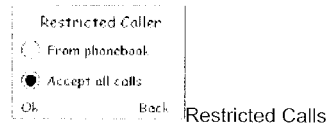
**Important Note:** This handset is also available with short messages remote setups. Always remember your password, because password verification will be required before any change of setting for the protection of personal privacy and security

**This menu includes:**

- Restricted Caller
- Restricted Dialer
- Silent Mode
- Change Password
- Emergency (SOS) Call
- GPS Geofence
- GPS ON
- GPS OFF
- GPS Clock
- GPRS Connection
- Restore Factory Setting

**5.8.1 Restricted Caller**

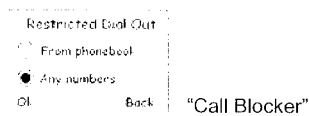
You can assign and restrict the handset numbers in your Phonebook list to be allowed to call in. You can also assign all numbers to be allowed to call in.



If incoming handset number has been restricted, the handset will auto-reject the message and there will not be any indications.

**5.8.2 Restricted dialers**

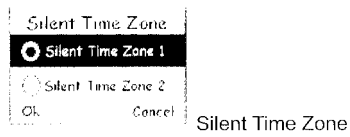
You can assign and restrict the handset numbers in your phonebook list to be allowed to call out. You can also confirm to allow the handset to dial to any phone number.



**5.8.3 Silent Mode (optional function)**

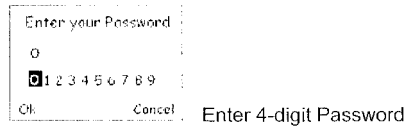
You can assign one day per week for setting up the silent mode for this handset. During silent mode, there will not be any ring tone or vibration. Only words will

display on the screen. 15 **silent time zones** can be assigned in a single day.



#### **5.8.4 Change Password**

You can **Change Password** through operation. After changing it, you need to enter your new password for proceeding with any setup.



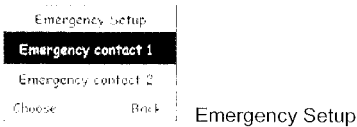
**Important Note:** The factory default password is "0000".

As soon as your purchase of handset, change the password and always remember the new one with keeping it confidential.

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#### **5.8.5 Emergency (SOS) Call**

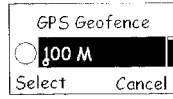
In this SOS call list, you can enter several handset numbers. When it comes any emergency situations, press both SOS keys on the side of the handset, and it will send SOS SMS to these pre-defined phone numbers to provide help audio monitoring the emergency scene. When emergency call is connected, you will get to talk to the pre-defined number of Guardian or Call center to speak up and explain the emergency situation.



#### **5.8.6 GPS GEOFENCE**

You may setup a "Geofence" range to help maintain a safety distance between the handset user from the other person. Once the handset users moves away from the perimeter, a SMS will be sent to pre-designated phone number as safety reminder. Select the range of 100M, 200M, 500M, 1000M, 2000M or "Cancel".

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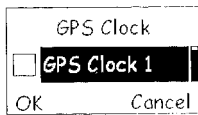
Select Geofence Range

**5.8.7 GPS ON (Open) & GPS OFF (Close)**

When necessary, such as for Power Saving purpose, you may choose to turn the GPS function ON or OFF during the day. When the GPS is turned OFF here, the handset will not be able to get the newest GPS data.

**5.8.8 GPS Clock (Alarm)**

You can choose to enable the GPS Clock (Alarm) function. Select the day and time (up to 5 settings) that you like to active the GPS SMS report-back, when the set time is up, the handset will send a SMS with GPS position data to the Guardian or Call center.



Set you GPS Clock

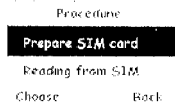
**5.8.9 GPRS Connection**

When you select the GPRS Connection, the GPRS data such as APN, Name, IP and Port will appear.

**5.8.10 Restore Factory Settings**

Select this and confirm to restore all settings back to original factory setup.

**5.9 Remote Settings**



Remote Setup

Remote setup can be selected and done here by formatting the SIM card setup and modify SIM phonebook. You can also send SMS request to change the phone number setup.

**5.9.1 Format the SIM phonebook**



A mobile handset can edit and save handset numbers in the SIM card. The SIM card can save at least 50 numbers.

**Important Note:** In the Remote setup, the "Format SIM Card" procedure will clear all the SIM card records. Before doing the remote setup, make sure that all records in SIM card have been backed up.

Insert the SIM card into this handset and turn it on.

Under Remote Settings, select "Prepare SIM card". This handset will clear all existing records in SIM card and copy the handset records into the SIM card.

Turn off the handset and take out the SIM card. Insert the SIM into the regular handset and turn on the power. Now you can edit (include add, delete or modify) the phone numbers into the SIM card.

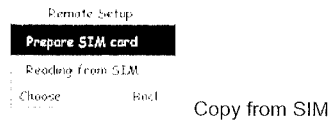
**Important Note:** This handset can only save total 50 mobile numbers. If you try to store more than 50 numbers, it will only accept the first 50 numbers.

After ensuring the records in the SIM card are correct, remove the SIM card and insert

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it into the GPS/GSM handset.

Turn on the handset. Choose Remote Setting, and select "Read from SIM" in remote setup. It will copy the records from the SIM card to the GSM/GPS.



**Important Note:** Before setting up the Emergency Contacts, remote settings must be completed first in order to get the emergency contact phone numbers from the phonebook.

### 5.9.2 Remote settings

You may send formatted messages to increase the phonebook record in this handset.

Please see below format table for command details:

**Note:** When any SMS arrives, the handset will judge whether it is a remote setup command or not. If it is a backstage execution command, there will not be any prompt.

### 5.9.3 Command Format Table

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Command Type	code	Format
Password Change	99	*password*99*new password#
Setup guardian mobile number	10	*password*10*blank*phone number#
Setup SOS dial 1	20	*password*21* blank *phone number#
Setup SOS dial 2	21	*password*22* blank *phone number#
Setup SOS dial 3	22	*password*23* blank *phone number#
Add contacts	30	*password*30* blank *phone number#
Setup SOS emergency message	E0	*password*E0*message#
Setup SMS 1 (pre-defined)	M0	*password*M0*message#
Setup SMS 2	M1	*password*M1*message#
Setup SMS 3	M2	*password*M2*message#
Setup SMS 4	M3	*password*M3*message#

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Setup SMS 5	M4	*password*M4*message#
Setup SMS 6	M5	*password*M5*message#
Setup SMS 7	M6	*password*M6*message#
Setup SMS 8	M7	*password*M7*message#
Setup SMS 9	M8	*password*M8*message#
Request 1-way monitoring	CP	*password*CP*phone number#
SMS GPS position report	P1	*password*P1*phone number #
SMS multiple report back	P2	*password*P2*minute*count*phone number #
SMS single report back	P3	*password*P3*phone number #
SMS multiple report back	P4	*password*P4* minute*count*phone number #

**Important Notes:**

Message command must always start with \* There will be certain fields in the joystick and separate with \* and end with #

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The Significance of back fields:

- 1、 Password is 4-digit.
- 2、 Command code is 2-digit and to change password is 99.
- 3、 Name to be entered: Accepts Chinese and English characters. Not more than 6 Chinese characters while not more than 12 for English.
- 4、 Phone number: Numbers. Length cannot exceed 20.
- 5、 Message content, accepts Chinese and English characters. Not more than 35 Chinese characters while not more than 70 for English.

**Command Examples**

Below examples are using a factory default password 0000:

- 1、 Password Setup  
If the password is set at 1234, the command format is as below:  
\*0000\*99\*1234#
- 2、 Change Guardian mobile number  
If it is set at 07558555558, the command format is as below:  
\*0000\*10\*keeper\*07558555558#
- 3、 Change Emergency Contact 1, 2 and 3 mobile numbers  
If it is set at 07558555558, the command format is as below:

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\*0000\*20\*sos1\*07558555558# Change contact 1 handset number  
\*0000\*21\*sos2\*07558555558# Change contact 2 handset number  
\*0000\*22\*sos3\*07558555558# Change contact 3 handset number

4、 Add Contact

If contact name is Mary, number at 07558555558, the command format is as below:  
\*0000\*30\*Mary\*07558555558# Change contact 1 handset number

5、 GPS Location Inquiry

When the guardian sends out GPS location inquiry, GPS of the GSM/GPS will obtain the current GPS location and will report back to the assigned handset number. If the assigned number is set at 07558555558, the command format is as below:

\*0000\*P1\*07558555558#

SOS Emergency Message

If the message content is set as "HELP", the command format is as below:  
\*0000\*E0\*HELP#

6、 Modify Commonly Used SMS Content

If the message content is set as "HELLO", the command format is as below:  
\*0000\*M0\*HELLO#

The second line is as \*0000\*M0~M8\*HELLO#

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#### 7. Request 1-Way Monitoring Command

The guardian or authorized person can send 1-way monitoring command to the handset. The handset will automatically input the assigned number and turn on the transmitter. The purpose of this request is to allow the guardian listen to the live sound and judge if the user is in danger.

If the inquiry sender's mobile number is 07558555558, the command format is as below:

\*0000\*CP\*07558555558#

You can send formatted message to the GSM/GPS as the same as the above preset message content.

**Important Note:** There are two types of preset messages in the GSM/GPS. One is a default format which cannot be amended while the other is a modified message which has 30 lines.

#### **How to send the inquiry:**

Send as the above formatted short message to the GSM/GPS and GSM/GPS will report its current location (longitude, latitude and local time). For example, when using P1 command, the guardian will receive a message as below:

20. November 2006, 12:05:16, N, 2458. 8204, E, 12133. 0746, 13155974

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## GPS Info

### **GPS Position**

In the handset GPS Position menu option, it will show the latest received GPS GPRMC data, such as GPRMC, 112043.437, A, 2501.3119, N, 12131.8581, E, 0.00,, 81006,, A

### **GPS Star Info**

In the handset GPS Star Info menu option, it will show the top five Satellites with ID number will appear. For example: Id 9 Sign 40, Id 18, Sign 38..., etc.

### **6.1 GPS Position Acquisition Policy**

#### **The GPS Position Acquisition Policy**

##### *Policy A*

1. Turn on the handset. When the phone acquires the GPS position in 2 minutes, it will hibernate for 1 minute and comes back to acquire position for 2 minutes. If it fails, the phone will hibernate for 10 minutes.

If succeeds, the phone will hibernate for 1 minute only.

2. When the phone fails to acquire the GPS position in 2 minutes, it will hibernate for 10 minute, and back to acquire position for 2 minutes. If it fails it will hibernate 10 minutes again. If succeeds it will hibernate for 1 minute only.

*Policy B:*

Turn on the handset. If within 10 minutes the acquisition still fails, the phone will hibernate for 10 minutes. After hibernating for 10 minutes, it will be back to continue acquisition for 2 minutes.

**Important Note:**

1. After each successful GPS acquisition, the phone always will hibernate for 1 minute.
2. After each acquisition failure, the phone always will hibernate for 10 minute.
3. Except for the first acquisition it takes 10 minutes, all other acquisitions take only 2 minutes.
4. During hibernation the phone will not wake up by itself until either a SMS coming in or to manually activate GPS data checking.
5. The weather condition will affect the GPS reception signals. For example, when it is cloudy and rainy, the GPS reception is weaker than it is sunny.

**6.2 GPS Commands**

When the GPS inquiry SMS is sent to GSM/GPS, it will obtain the current GPS location and

automatically reports to the following receivers:

1. Pre-setup Emergency Contacts phone numbers: This command starts with letter "P", such as P1 and P2..., etc. See message command format table in page 28 for details.
2. Call Center: This command starts with letter "L". See message command format table in page 28 for details.
3. Using GPRS function to send GPS data to the pre-setup Router via Internet. This command also starts with letter "L".

1. SMS Single Report Back: GSM/GPS will send GPS location data to the preset phone number or the Call Center.
2. SMS Multiple Reports Back: GSM/GPS will report the GPS data to the preset number based on the pre-defined time interval.

**6.3 GPRS Setup**

1. GPRS will report back ALL the GPS data stored since the phone is powered ON, and send the data to the preset router.
2. SMS Report Back GSV message: GSV is a message showing the strength of Satellites

signal reception. When GSM/GPS received the GSV message, it will send the latest signal strength to the pre-setup phone number.

The guardian can send command and fixed IP address

1. Setup fixed IP command: \*password\*D1\*IP\*Port#  
IP=IP address, for example, 202.96.134.133  
Port: for example, 8080, can not be larger than 65535.
2. Setup GPRS account and password: \*password\*D2\*Account\*Psw#  
The setup needs to be verified by your local carrier to ensure the GPRS is activated for your SIM card.
3. Setup GPRS APN: \*password\*D3\*APN name #  
The setup command contains the words as the connecting point, such as "CMNET", details must be acquired from local carrier.

**Important Note:** If GPS is unable to provide location at one point of time, GSM/GPS will continue operating and will transmit the last GPS data.

The guardian (emergency contact 1) can transmit message to the GSM/GPS to monitor the surrounding sound. Message content as follows: After the GSM/GPS

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receives the message, it will execute a series of procedures: Check command. If command is incorrect, the audio-monitoring will start and the handset will not ring to give prompt.

Auto-call the guardian (emergency contact 1) but no indications neither word display or ring tone. Once the guardian gives a response, the GSM/GPS will be connected and the guardian can listen to the surrounding of the handset.

## Maintenance and Care

- ◆ Your handset is of good design and is an artistic product. During usage, observe the following suggestions to prolong its service life.
- ◆ Please keep the handset dry. Rain water, moisture and chemicals include mineral substances, can corrode the electronic circuit.
- ◆ Please do not use the handset in unclean or dusty areas. It can possibly damage the dismantle parts.
- ◆ Please do not place the handset in overheated or cold areas.
- ◆ Handle with care. Please do not let the handset receive mechanical vibrations.
- ◆ Please use a clean cloth to wipe the outer cover. Do not use chemical, cleansing agent

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- or strong detergent to clean the handset.
- ◆ Please do not use color to smear the handset. Smearing can block the dismantle parts and affect the normal operation.
- ◆ Please do not dismantle or reequip the handset. (If there is a need to repair, please ask qualified technical personnel for help)
- ◆ Only use the manufacturer approved battery model. Using unauthorized batteries will violate the approval and can cause damage to the handset and battery and create unforeseen danger
- ◆ Please do not dismantle the antenna, or use other antennas or substitutes. This will affect the connection quality and has the possibility to change the radiation which will harm your health
- ◆ The above suggestions are suitable for your handset, battery, charger and accessories. If they cannot function normally, please deliver it to the nearest service center. If there is the need, they will help you to arrange the repair service.

## Troubleshooting

Problem	Recommended Solution
Cannot turn on power	Check if battery is fully charged and if it's installed properly.
Cannot make calls	Check if the number is preset and within service range. Check if it is within no reception zone.
Cannot receive calls	Check if power is switched on; Check if there is network signal
Cannot send messages	Check if the handset number is correct.
Cannot hear ring tone	Check the ring tone settings.
Bad voice quality	Check the signal reception level on screen
When making call, handset number is not transmitted.	Check if the handset number is correct. If needed, save the handset number again.
SOS call cannot be sent	You must press BOTH SOS keys at the same time and hold 2 keys for 2 seconds and up to send out SOS call.