SAZO GPS
Personal Locator System

USER MANUAL

INDEX

1-1 <u>SAZO accessories</u>

Charger The power-charger is designed specifically for this product, you can identify whether the recharging process is complete or not by the top indicator on the charger's panel.	
Battery Lithium battery is designed specifically for this product,.	
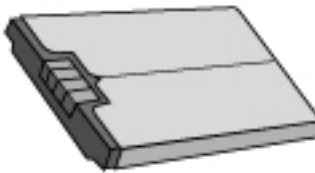
※ Recommend consumer using company-made specific parts of this product.

Installation	**Installation**
Insert SIM then Battery.	◎ Ensure that battery is correctly inserted with full power contained.
Insert Charger	◎ Ensure that battery is full charged.

1-2 Important Observations

1-2-1   Positioning errors

Location provided will have a tolerance from the real position depending where the device is located, this is due to external factor; and the location position indicated is a reference guide only.

1-2-2   Setting of emergency call

This product has emergency call ability; we strongly recommend that user completes the setting prior to first using this product to ensure functions setting are correct.
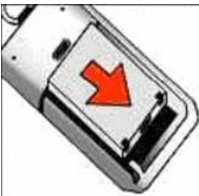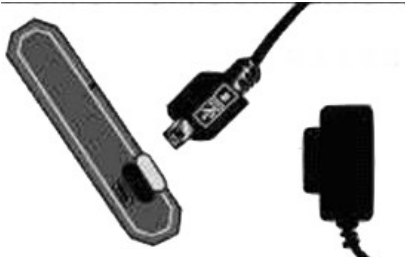
After the settings are complete, SAZO will send the setting information to 1st emergency number (primary) for confirmation. We recommend setting the most important person's number first as the emergency call No1. for immediate notification and safety demands.

1-2-3   Lag of Message Announcement

This product sends its location and status information by SMS from anyone of the network providers, and during peak period or significant occasions like Christmas, New Year, etc. the networks do get very busy. This may cause a delay in the receipt and sending of the SMS message procedure.

1-2-4   Password management and regular change

This product can allow two way voice communication and. To change or access your setting you will need to verify your password (PIN); **this process is to protect personal privacy, information and safety, It is your responsibility to keep this safe**.

1-2-4-1   Default of password

The default password (PIN) value is "0000", please reset it immediately after purchasing this product. We strongly recommend **not to use "0000"**, **or a personal ID number that is easy to derive**.

After the password is changed, no person including company system administrator can retrieve this or has access to it. **Only** the user who knows the password (PIN) has access to the device, **please safeguard the password**.

1-2-4-2   Regularly change password

It is highly recommend that the user change password regularly (90 days) and safeguard it without disclosing it to others. **Verify Location or its associated companies** cannot be liable for any breach or determent caused from password being revealed.

1-2-5   Daily maintenance

It is recommended to only use company-made standard parts and accessories for this product. Any damage or disorder caused from using on-company-made parts will be beyond the warranty scope.

This product is an electronic communication device; user needs to take caution when performing the following maintaining points to keep the product in a good operation condition.

1-2-5-1   Battery

Maintain battery power by charging the battery. The most proper operating temperature of battery is within 20-30°C; temperature beyond this range will reduce the battery's operation lifetime.

1-2-5-2   Button keys

The button keys are probably the most used parts of this product. The dust accumulated in the seam can be wiped out by tiny brush or blown out by air-spraying. Also consumer can use palm vacuum to clean it.

Only clean the keypad surface while the product is turned **off** with battery taken out and the external power line (charger) removed.

Avoid water leaking onto or into the casing, and from the button key seam; this will damage the circuit board. If water is splashed onto the outer casing, **DO NOT SWITCH ON** the product. Contact local agent for advice.

1-2-5-3　　　If splashed or wetted

Do NOT switch ON while it is wet, if the power is switched on this will cause severe damage to the unit.

1-2-5-4　　　What to do if splashed:

Step 1: Remove power line and battery.
Step 2: Pour out any access water inside this product, and then find a soft napkin or cloth to wipe, taking care not to erode the parts surface.
Step 3: Dry up this product by fan and send it to the local agent or shop at the earliest . **Under no circumstance use a hair-dryer to blow-dry as this may cause deformation of mechanism by heat.**

1-2-6　　　Other Suggestions

Away from high temperature

Do not expose the cell phone in an overheated environment for long durations, (i.e. placing it under the windscreen inside the car's cabin), as this is likely to deform the outer casing and may damage internal parts.

1-2-6-1　　　Personal privacy

Under legislation it is strictly forbidden to use this product for the purpose of covert operation or where other's privacy may be compromised, (i.e. making wiretap or tracking without consent, etc). **Verify Location or its associated companies cannot be liable for any breach or determent caused by users.**

2-1 Overview

Lanyard panic socket

GSM blue LED

Fast dial1/ Vibration& Ring switch

Fast dial 3

Emergency SOS

Fast dial key 2 / volume up & down

Send and Receive Key

Mic

Lanyard

Power switch

Charger socket
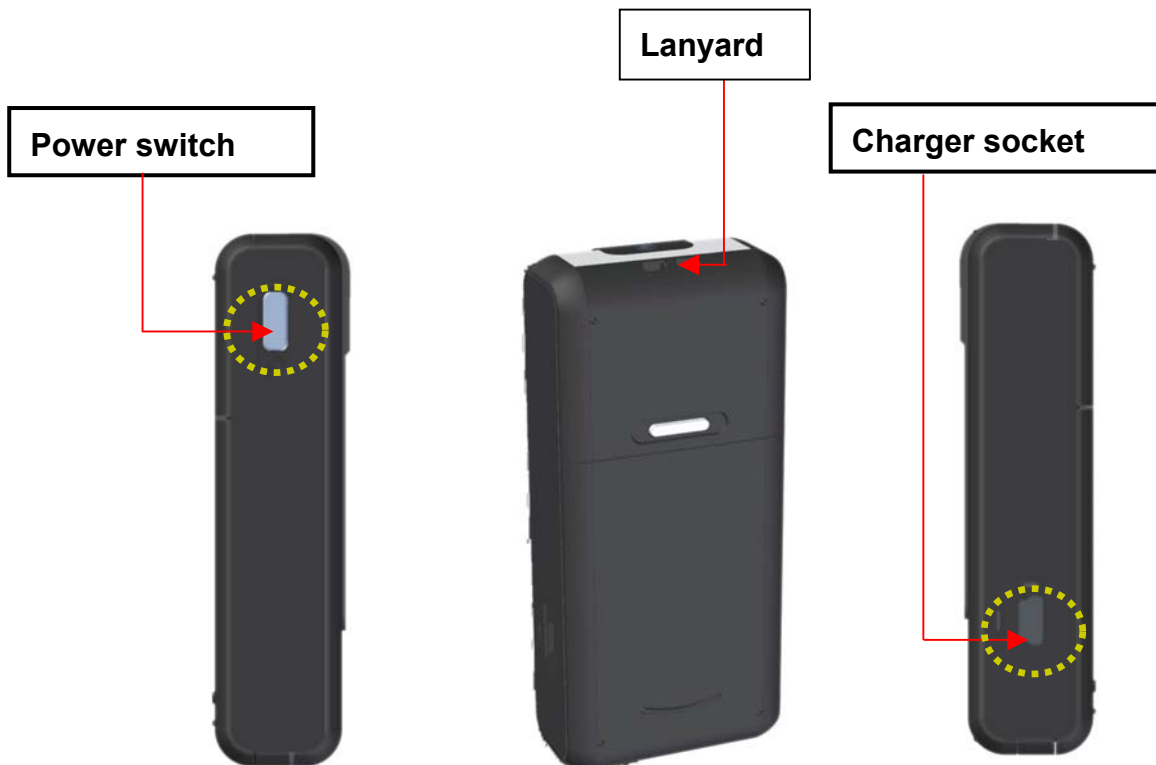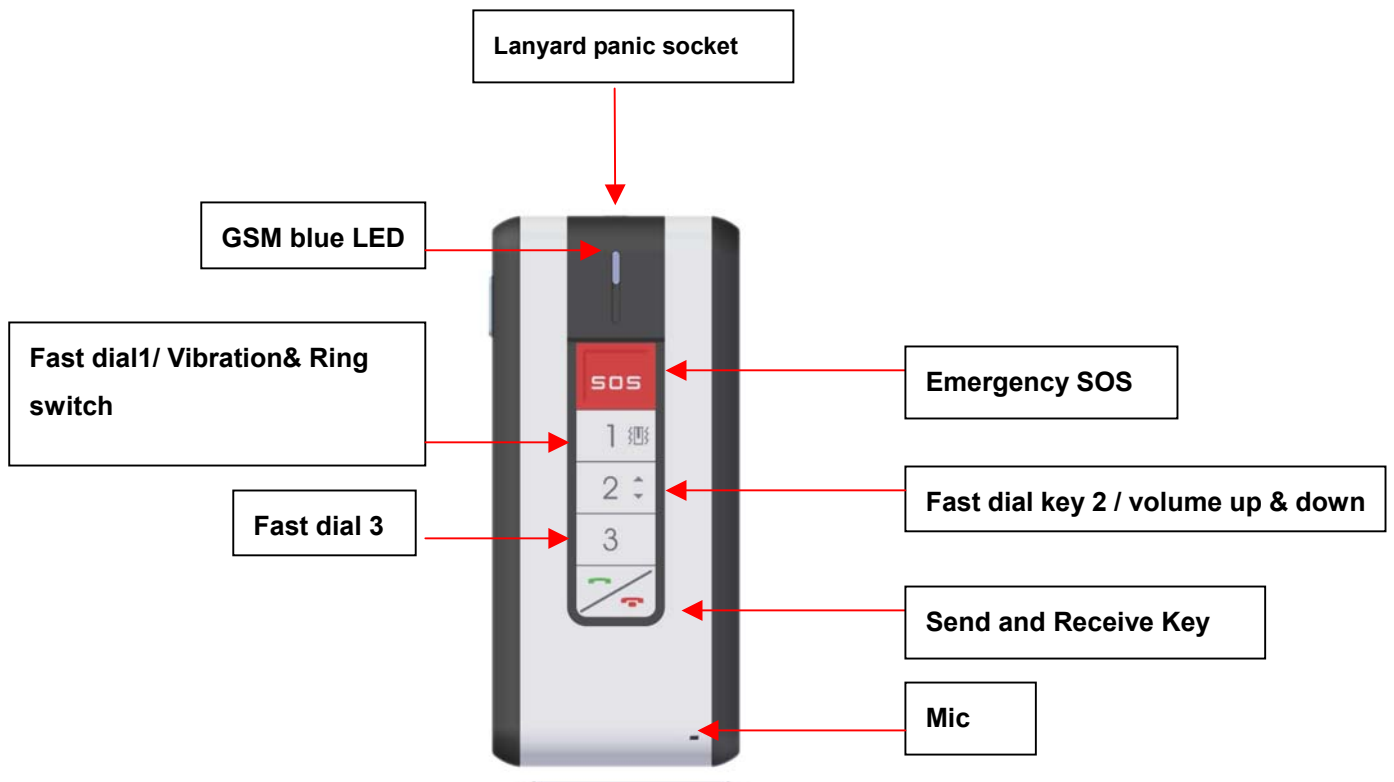
2-2 <u>Features overview</u>

- **GPS location.**

- **LBS location. (Depend on the local network operator service)**

- **Easy to use voice menu settings.**

- **Secure log in and PIN protected management system.**

- **Out-bound call fast dial pre-set for 3 numbers.**

- **Quick notification of emergency to 3 numbers.**

- **Emergency notification via SMS and Web.**

- **Low battery notification by SMS for 3 setting numbers.**

- **Ripcord/lanyard alert.**

- **Regular location reports.**

- **Silent monitoring.**

- **Incoming call vibration/ Ring select.**

- **Volumes adjust.**

2-3 <u>Operating instruction</u>

2-3-1   Power Up Units

2-3-1-1   Under normal conditions: Press and hold the power button for up to 5 seconds both the red and blue LED indicator lights up, release the power button. The booting process will be start, and be complete within about 60 seconds.

Press the power switch
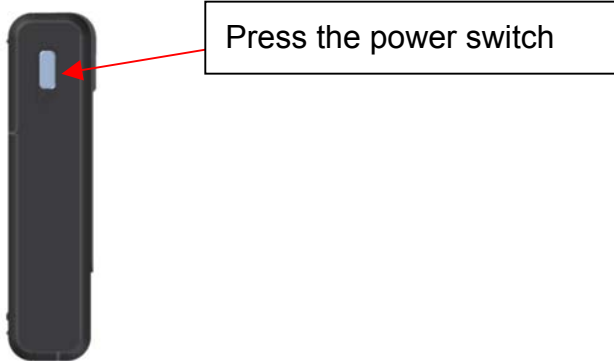
2-3-1-2   Emergency switch on: If your SAZO unit is in an off state you are still able to send out an SOS/Panic alert.

Under off state, press and hold the SOS button for 5 seconds or remove the Rip-cord/lanyard, both the red and blue LED indicator light up. The booting process will start and complete within about 60 seconds.

Remove the panic lanyard

Press the SOS button

2-3-2   Switch off: Simply press and hold the power button to turn off the SAZO GPS.

Press the power switch
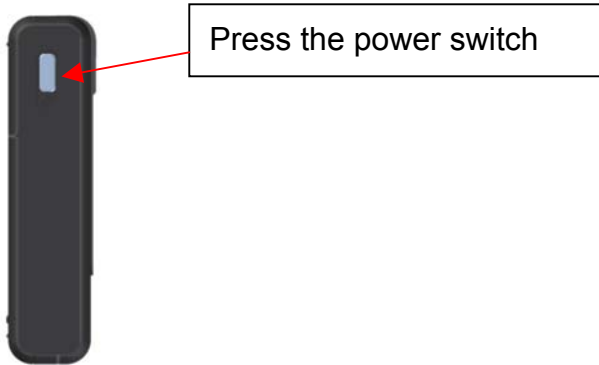
2-3-3   In-bound and Out-bound calls

When receiving a call the SAZO will ring (or vibrate) as a normal mobile:

Step 1: Press the last key (receiving key) on the lower panel to talk with the caller.
Step 2: After completing the call, press the key (hang-up key) again to hang up.

Receive/ Hang up

Out-bound calls

Step 1: Select and press the preset dial keys 1,2 or 3 once.
Step 2: Press the send and receive key within 2 seconds; this will now dial out to the
selected contact. (If you do not press the dial out key within this period the device will
treat this as error).

STEP1:   STEP2:

Select the preset number

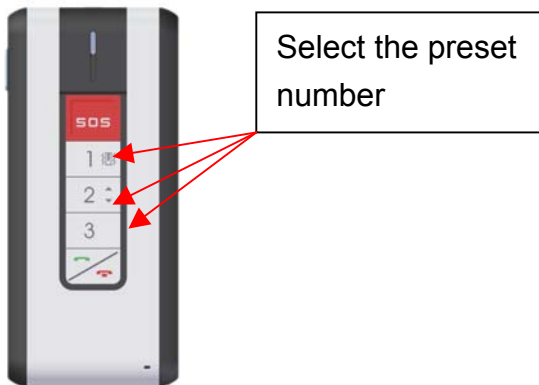Press the Receive/ Hang up

2-3-4   Adjust headset volume

There is 3 levels of volume adjustment. The default settings are on level two.   During a call you may press the 2nd preset key once to decrease the microphone volume to level 1 (minimum), or twice to increase the volume to level 3 (maximum).

Volume adjust

MAX   MID   MIN
Press one time

Press two times
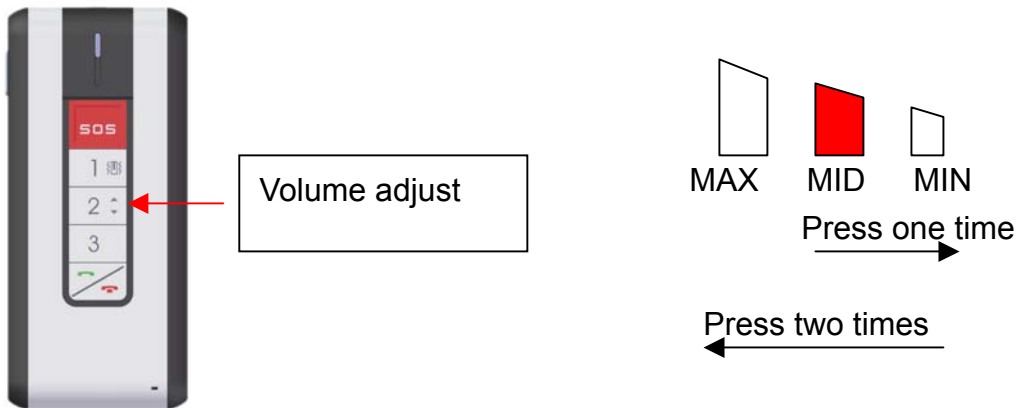
2-3-5   Ringer/Vibrate settings.

Step 1: Under standby status, press and hold the **Receive/ Hang up key**, then press the **1st fast-dialing key** to switch over the vibration/ ring mode alert.

Press and hold the Receive/ Hang up key

Press the 1st dial key to switch

There are three different modes：

1. Only vibrate, 2. Only ring 3. Vibrate first and ring next etc...

Step 2:   After each switchover, the SAZO will demonstrate the switched mode, for example: when switching to the vibrate mode the device will automatically vibrate to notify user that the mode is switched to vibration mode; and when switching to ring mode and the cell phone will automatically ring up to notify user that the mode is switched to ring mode.

2-3-6 Emergency panic alert

There are two ways of setting off the panic alert.

6-1 Press the SOS key:

Step 1: In a compromising situation the user would **press the SOS emergency keys (Panic buttons) on the top and hold for 3 seconds**.

Step 2: After the SAZO vibrates, the red and blue LED indicator flash together. The SAZO will initials send out an enhanced cell location to all allocated persons and scan for a GPS signal, when the GPS signal is obtained, the SAZO will send the real GPS co-ordinates to all allocated persons via SMS and set up a log on the web application.

Step 3: After it has sent out messages to the three emergency call numbers, the unit will automatically dial the 1st emergency/SOS number, If the is no reply the SAZO will automatically dial the 2nd emergency/SOS If there is no response SAZO will automatically dial to 3RD emergency call number and if there is no response it will go back to the first number and repeat the process.

Step 4 : When there is a response from one of the emergency/SOS allocated persons, the SAZO will into open the **Silent Monitoring** function for 60seconds.

After 60 seconds you will be given the option to continue the call or end by " to repeat press star key(*), to end call press the hash key(#) ".
If press the star key(*) and the SAZO will maintain the **Silent Monitoring** function for a further 60 seconds. If press the hash key (#), the SAZO will hang up automatically.

Press and hold the SOS key for 3seconds

2-3-7   Remove the ripcord/lanyard:

Step 1: In a compromising situation the user **removes the panic lanyard for more then 3 seconds**.

Step 2: After the SAZO vibrates, the red and blue LED indicator flash together. The SAZO will initials send out an enhanced cell location to all allocated persons and scan for a GPS signal, when the GPS signal is obtained, the SAZO will send the real GPS co-ordinates to all allocated persons via SMS and set up a log on the web application.

Step 3: After it has sent out messages to the three emergency call numbers, the unit will automatically dial the 1st emergency/SOS number, If the is no reply the SAZO will automatically dial the 2nd emergency/SOS If there is no response SAZO will automatically dial to 3RD emergency call number and if there is no response it will go back to the first number and repeat the process.

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After 60 seconds you will be given the option to continue the call or end by " to repeat press star key(*), to end call press the hash key(#) ".
If press the star key(*) and the SAZO will maintain the **Silent Monitoring** function for a further 60 seconds. If press the hash key (#), the SAZO will hang up automatically.

Remove the panic lanyard

2-3-8   Low battery power warning

If the battery power becomes lower than 3.4 volts, SAZO will send out a the low power notification SMS to the SOS number, and shut down the GPS function to save on battery power until the battery is adequately charged.

2-3-9   Charger LED indicator
When charging the battery, the power on/off switch will light up until battery has charged.

2-3-10   Restore the default setting

<u>Forgot your P.I.N????</u>

If you have forgotten your password there is **NO** process to retrieve it, even the supplier/administrator has access to this.

In case the user has forgotten the password (PIN), they may revert back to the default PIN of "0000".

When this has been completed the device will send out three messages that contain the settings of four preset -dialing call numbers and the three emergency call number as well as notice of password being changed back to the default of "0000", to the 1st emergency call number (Primary).

NOTE: It is recommended that you change the default (PIN) password immediately after restoring the default setting.

Step 1: As illustrated below, whilst the device is switched off, press and hold both the "**Receive/ Hang up**" key and the "**power switch**" key at the same time.

Step 2: Hold and wait until the reboot (vibrate once); after hearing beep sound, release both the keys and the password-restored process is completed.

Step 3: Your SAZO Locator will send out a confirmation message immediately after completing the password-restored procedure.

2-3-11   Settings via cell phone/telephone

Step 1: Dial the SAZO cell number (SIM card).

Step 2: You will hear the vocal instruction: "To connect call press "1" for settings press "2".

If you press 1 you will be connected to the SAZO user as an ordinary mobile cell phone.

Step 3: After pressing "2", you'll hear: "Please enter your PIN"; you are required to input the default (0000) or your updated PIN; if the password inputted is incorrect you will hear: "incorrect password, re-enter the password". After three error inputs consecutively, system will hang up automatically.

Voice menu chart

FUNCTION	KEY	NOTE
For Single location report	1	The requesting phone should not withhold their number when calling in, as the Sazo will not send any information back.
For regular location report	2	Settings are in 10 minute intervals 0~9, where 0= No report and 1= 10 minutes
For Silent monitoring	3	
For defaults setting	4	All settings of unit, i.e. SOS, pre-define calls
Repeat	*	Star key to repeat options
End the call	#	Hash to end call

2-3-12   Single location report

Step 1: Dial the SAZO cell number (SIM card).

Step 2: You will hear the vocal instruction: To connect call press "1" for settings press "2".

Step 3: After pressing "2", you will hear: "Please enter your PIN"; you are required to input your PIN; if the PIN entered is incorrect you will hear: "incorrect password, re-enter the password". After three error inputs consecutively, system will hang up automatically.

Step 4: After inputting the correct PIN, you'll hear: "For single location report press 1, For regular location report press 2, For silent monitoring press 3, for the defaults settings press 4, to repeat press star key, to end the call press hash key.

Step 5: Press "1" to request single referenced location. System will vocally confirm: "Information has been sent to your cell phone" and hang up automatically.

Step 6: after a short interval the authorized inquiring cell phone will receive the positioning information sent by the SAZO.

NOTE: The requesting phone should NOT withhold their number when calling in as the Sazo will not send any information back.

2-3-13   Regular Location request in real Time.

Step 1: Dial the SAZO cell number (SIM card).

Step 2: You will hear the vocal instruction: To connect call press "1" for settings press "2".

Step 3: After pressing "2", you will hear: "Please enter your PIN"; you are required to input your PIN; if the PIN entered is incorrect you will hear: "incorrect password, re-enter the password". After three error inputs consecutively, system will hang up automatically.

Step 4: After inputting the correct PIN, you'll hear: "For single location report press 1, For regular location report press 2, For silent monitoring press 3, for the defaults settings press 4, to repeat press star key, to end the call press hash key.

Step 5: Press "2" to ask for regular location reporting the settings.

Step 6: After press "2" and hearing a beep tone please enter the interval timing in intervals of 10 minutes i.e. enter 0~9, "0" is no report, "1" is for 10 minutes, "2" for 20 minutes, "3" for 30 minutes…etc. Maximum set into 90 minutes.

Step 6: after a short interval the authorized 1st fast-dial programmed number will receive a confirmation of the regular location detail settings.

NOTE: The requesting phone should NOT withhold their number when calling in, as the Sazo will not send any information back.

2-3-14   Silent monitoring

Step 1: Dial the SAZO cell number (SIM card).

Step 2: You will hear the vocal instruction: To connect call press "1" for settings press "2".

Step 3: After pressing "2", you will hear: "Please enter your PIN"; you are required to input your PIN; if the PIN entered is incorrect you will hear: "incorrect password, re-enter the password". After three error inputs consecutively, system will hang up automatically.

Step 4: After inputting the correct PIN, you'll hear: "For single location report press 1, For regular location report press 2, For silent monitoring press 3, for the defaults settings press 4, to repeat press star key, to end the call press hash key.

Step 5: Choose option "3" this will open up a silent call so the SAZO will not have a ring alert and you will now be able to monitor the surrounding vicinity of the user. (You may hang up once monitoring complete).

2-3-15   Defaults setting

To query fast dialing and emergency call numbers and report back the current product's settings.

Step 1: Dial the SAZO cell number (SIM card).

Step 2: You will hear the vocal instruction: To connect call press "1" for settings press "2".

Step 3: After pressing "2", you will hear: "Please enter your PIN"; you are required to input your PIN; if the PIN entered is incorrect you will hear: "incorrect password, re-enter the password". After three error inputs consecutively, system will hang up automatically.

Step 4: After inputting the correct PIN, you'll hear: "For single location report press 1, For regular location report press 2, For silent monitoring press 3, for the defaults settings press 4, to repeat press star key, to end the call press hash key.

Step 5: Press "**4**" (For your default settings).

Step 6: The voice-guiding service will respond: "Information has been sent to your cell phone" and hang up automatically.

You will receive the settings in three SMS responding messages. In the following format:

The 1st SMS contents:
SET OK, T1: 0771234567, T2: 077912345678, T3: 07712345678
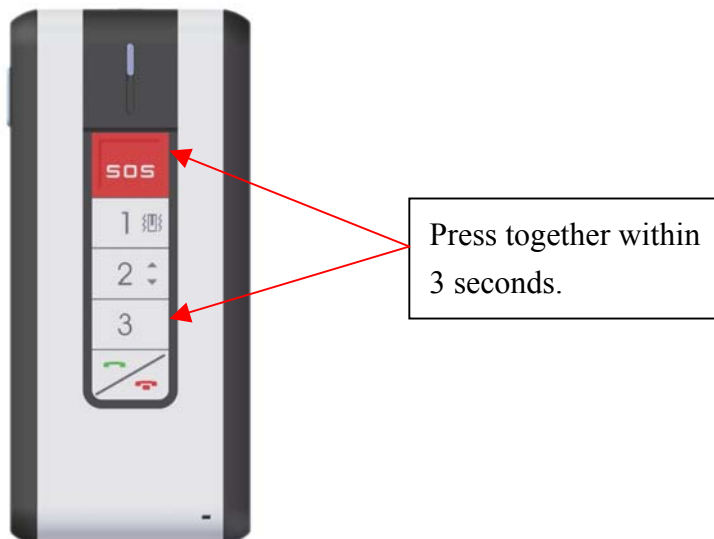
The 2nd SMS contents:

SET OK, SOS1: 07912345678, SOS2: 07912345678, SOS3: 07912345678

The 3rd SMS contents:

SET OK, ID: 0000, TIME: 0

2-3-16   "Geo- fencing" instruction

2-3-16-1   set up:

Press together within 3 seconds.

1. Press the SOS and the 3rd fast dial key together for 3 seconds, you will hear a double beep tone "Bi- Bi", sound and will scan for a GPS signal..

   A. If a GPS signal is obtained this is stored and confirmed with a single tone "Bi".
   B. If a GPS signal is NOT obtained this will be confirmed with triple tone "Bi- Bi-Bi".

2. When a GPS signal is obtained a confirmation SMS to the 1st SOS contact (primary) will be sent out in the following format:

   AREA SET OK! N=1234.5678, E=12345.678

3. The SAZO will now scan for a location signal every 20 minutes

2-3-16-2　　Geo Fence Function behavior.

There are a number of actions the unit will take under this setting:

1. When the device moves outside the predefined 50 meter radius of the coordinates, the SAZO will send a SMS to the 1st SOS/Contact number alerting of the breach. Once the device sends the alert SMS, the Geo-fencing function will be determined and return to a stand by.
2. GPS was set successfully initially, but lost the GPS signal after 20 minute scan procedure:

    The device would send a SMS to the 1st SOS number with the following contents:

    AREA SET FAILS! (NO GPS), PLEASE RESET, cell ID no. = 1234

    Once the device sends the alert SMS, the Geo-fencing function will be determined and return to a stand by.

3. The GPS signal is not found during initial set up search

    The device would send a SMS to the 1st SOS number with the following contents:
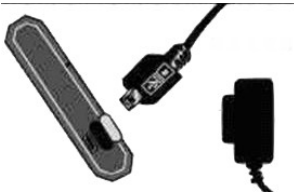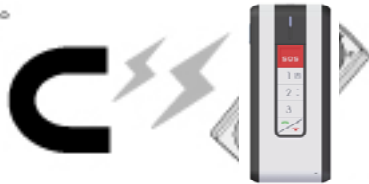
    AREA SET FAILS! (NO GPS), PLEASE RESET, cell ID no. = 1234

    Once the device sends the alert SMS, the Geo-fencing function will be determined and return to a stand by.

2-3-16-3　　To end Geo Fence function.

Press the SOS and the 3rd fast dial key together within 3seconds, hearing the "Bi" tone once, to shut down this function.

Chapter 3. Troubleshoot

Problem	Solution
Cell phone cannot boot.	◎ Ensure that battery is correctly inserted with full power contained.
Unable to use the cell phone's functions	◎ Ensure that battery is full charged.
Bad communication quality	◎ The cell phone might be in certain location that cannot reach good telecommunication quality (in a car or train); move it to other places having better signal-receiving condition. (low network reception)
Communication is unexpectedly aborted	◎ The nearby magnetic material that interrupt the communication; move the cell phone away from the influential material or articles.

Warranty Certificate

Thanks for purchasing this product.

This product is a state-of-the-art communication product that is designed to provide the best convenience to user. This product type has been over strict quality inspections and tests and no doubt will be your best choice. This product is under one-year warranty service starting from the purchasing day. Any disorder occurred within the warranty period please contact authorised agents performing repair service.

SAZO

Customer service hotline:(0845) 0030 999

SAZO Website:

http://www.sazo.co.uk

Customer service e-mail address:

info@sazo.co.uk

Date of Procurement:

(Retail outlet official stamp/identification here)

Chapter 4. SPECIFICATION FOR SAZO GPS

ITEM	PARTS	SPEC
1	GSM module	Siemens MC55
2	GSM Frequency	900/ 1800/ 1900 MHz
3	Full GSM or GSM/ GPRS	GPRS class10
4	GPS module	SiRF Start III
5	GPS Frequency	20 channel receiving L1, 1575.42 MHz
6	Coordinate formatted	WGS-84
7	Warm start	38 secs
8	Cold start	42 secs
9	Altitude limit	18,000m, (60,000ft)
10	Speed limit	515m/ sec, (1,000 nm)
11	Baud rate	4800 bps
12	Dimensions	85mmx 38mmx 20mm
13	Weight	74g
14	Battery	Nokia 5140, 3.7V/ 700mA
15	Operation temperature	-10°C ~ +70°C
16	Storage temperature	0°C ~ +60°C
17	Digital talk time	Up to 3 hours
18	Digital standby time	Up to 36 hours

Chapter 5. Warranty article

Warranty Article

4. Preserve this Warranty Certificate and show it when asking for repair service.

5. If the product's disorder is made under the following conditions within the warranty period, we will charge for the repairing cost for the remedial service.

   ❖ Disorder occurred by any repair unrecognized by our company.
   ❖ Damage made from user's careless manner or error operation.
   ❖ Damage caused by force operation.

6. This warranty excludes the product's accessories and consumable parts.

7. No re-submittal will be made to this Warranty Certificate.

8. The warranty periods of our company's products are:

   • Cell phone, power-charger—one year;
   • Battery—six months;
   • Earphone and outer cover—not under the warranty scope.

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

CAUTION:
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference and
(2) This device must accept any interference received, including interference that may cause undesired operation.

FCC RF Radiation Exposure Statement
This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated in accordance with provided instructions and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

For body worn operation, this phone has been tested and meets the FCC RF exposure guidelines. Body-worn operations are restricted to belt-clips, holsters or similar accessories that have no metallic component in the assembly and must provide at least 1.5 cm separation between the device and the user's body.
Max. SAR Measurement
PCS1900: 0.27 W/kg