vebiro

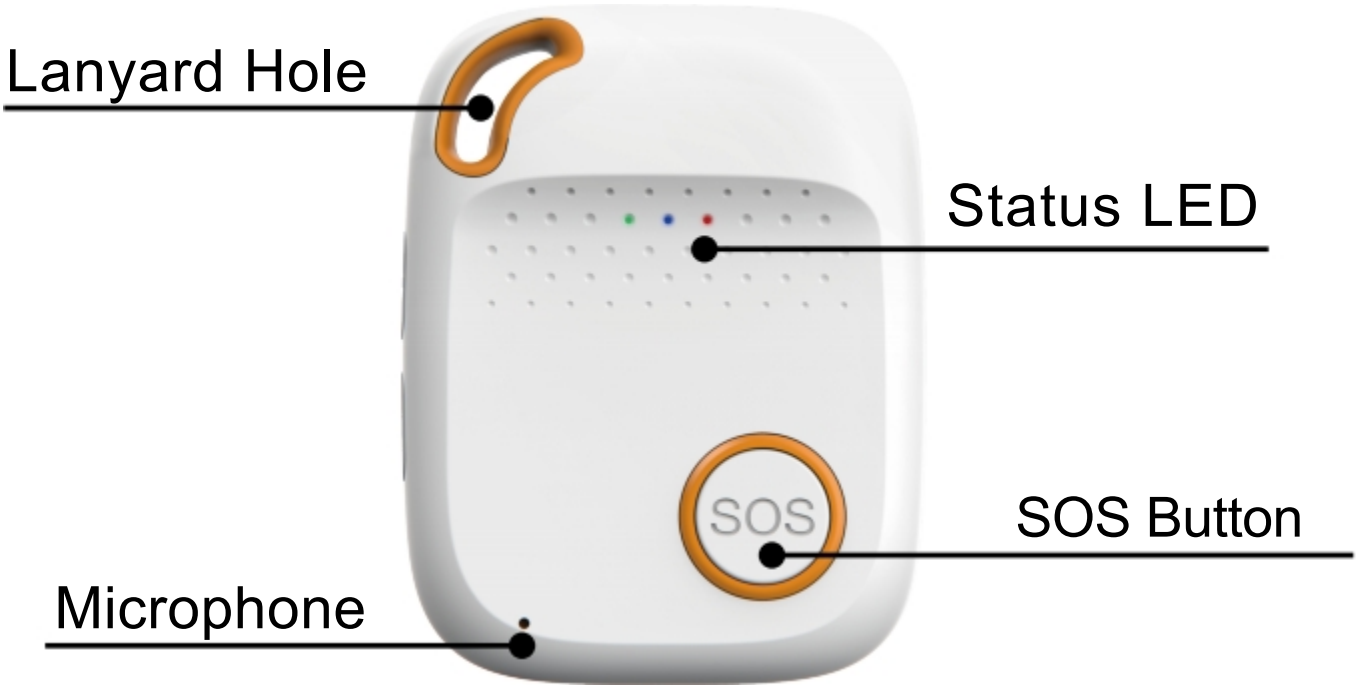
GEO+

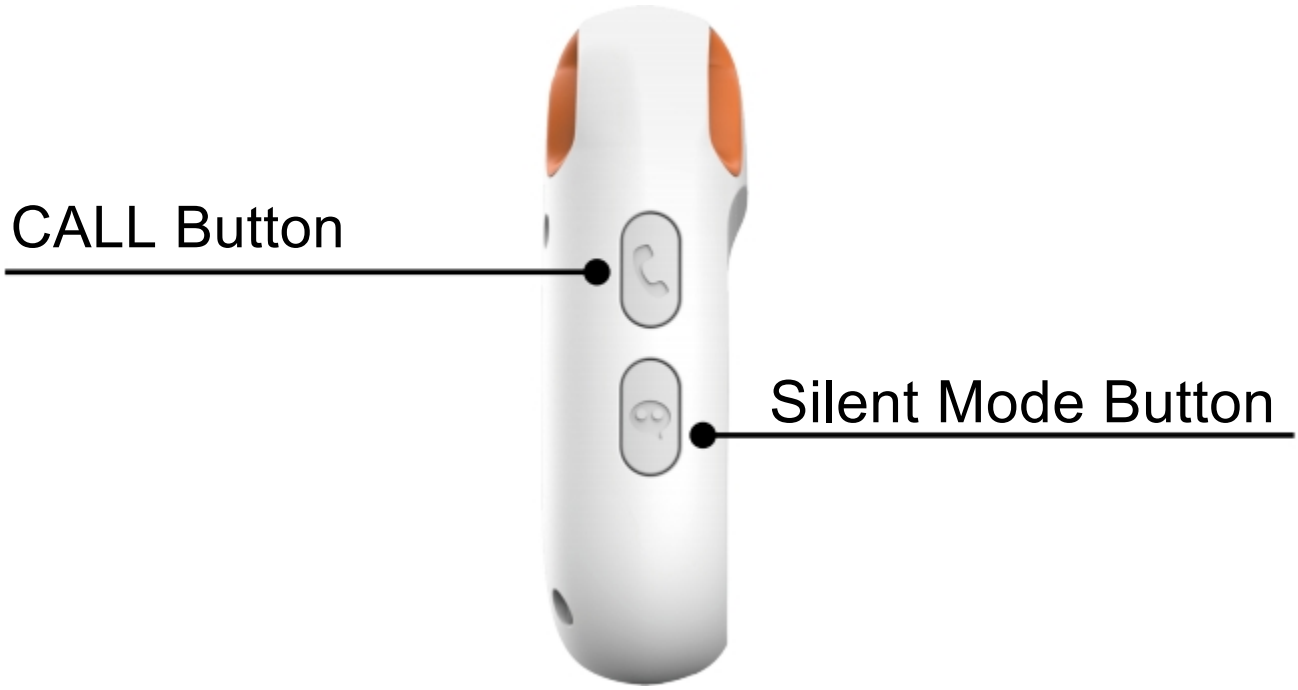
User Manual

Rev. 2024/1 - ENGLISH

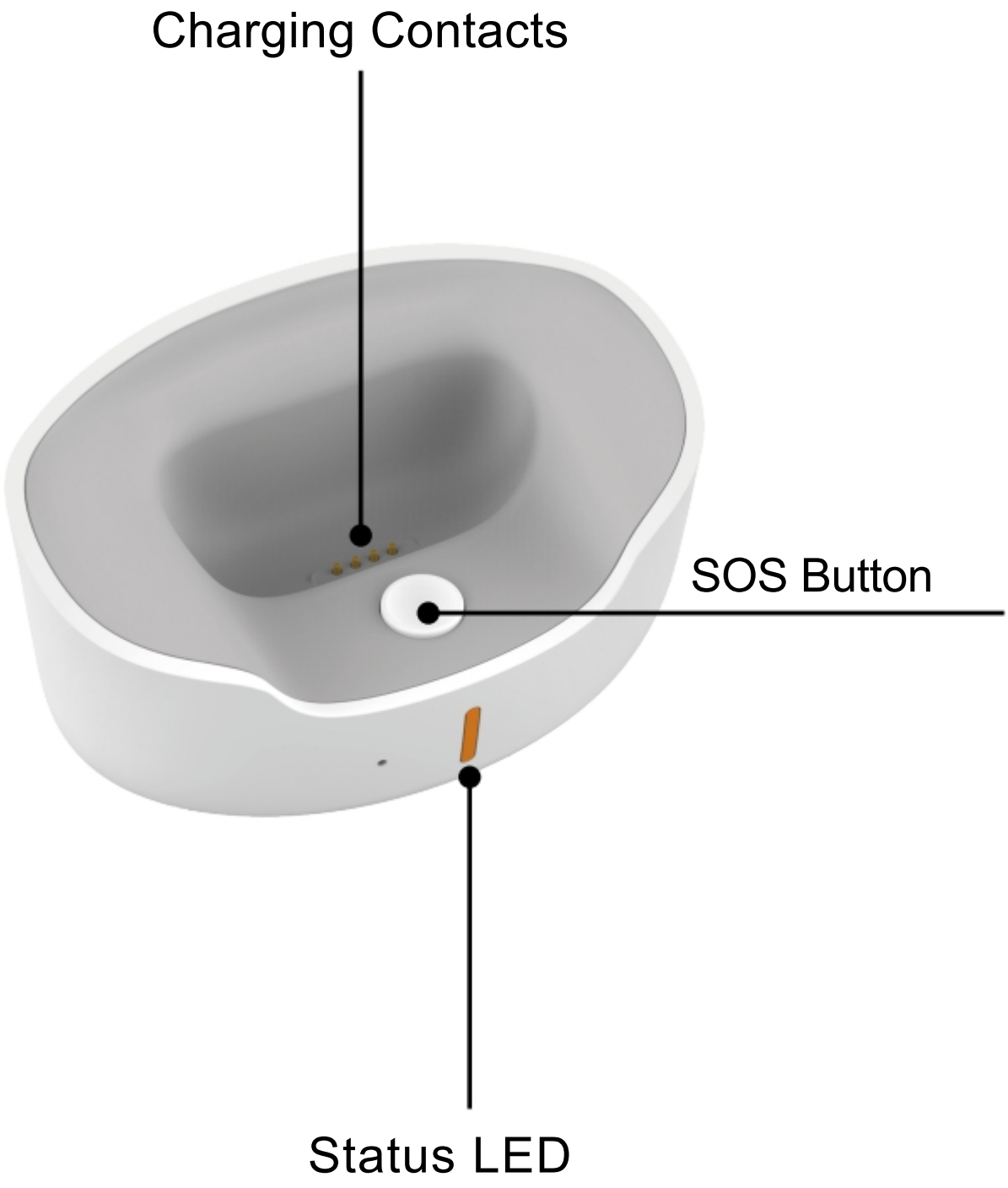
vebiro

Know Your GEO+ Device




CALL Button
Silent Mode Button

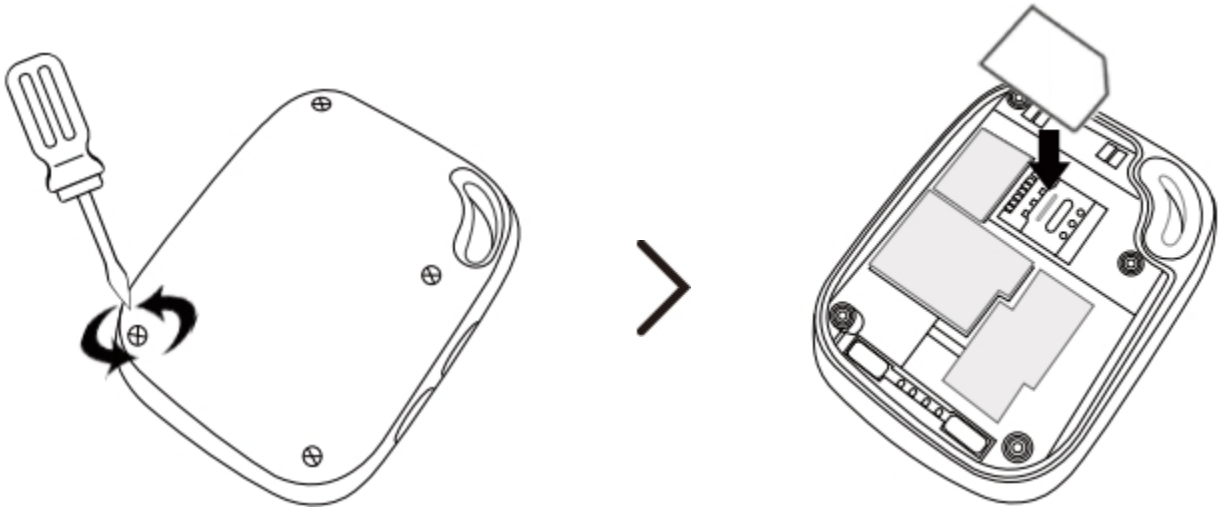

Screw Holes
Charging Contacts


Charging Contacts
SOS Button
Status LED

Insert the SIM Card

The SIM card is not included in the package.

A Nano SIM can be purchased from a local telephone operator store.



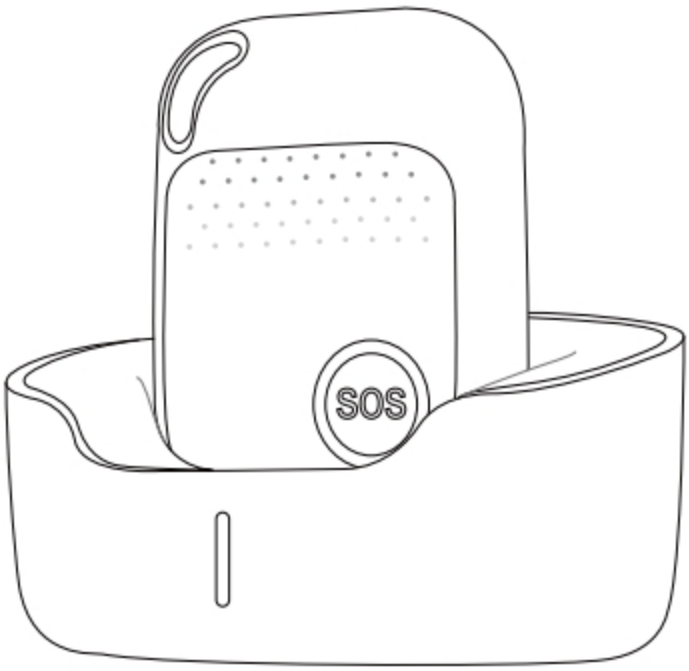
- Unscrew the screws of the back shell and remove it.
- Insert the SIM card ensuring it is active and has credit.
- Reposition the back shell and close the device by tightening the screws well.

NOTE WELL

Before using the Nano SIM in the device, check that the PIN code request upon startup is disabled by inserting it into a mobile phone or smartphone.

Charge Your Device

Here's how you can charge your device:



With Charging Dock

- Place the device on the charging dock.
- Connect the USB cable included in the package from one end to the charging dock and from the other end to the power adapter.

The LED on the charging base will start flashing. When charging is complete, it will stay lit steadily without flashing.

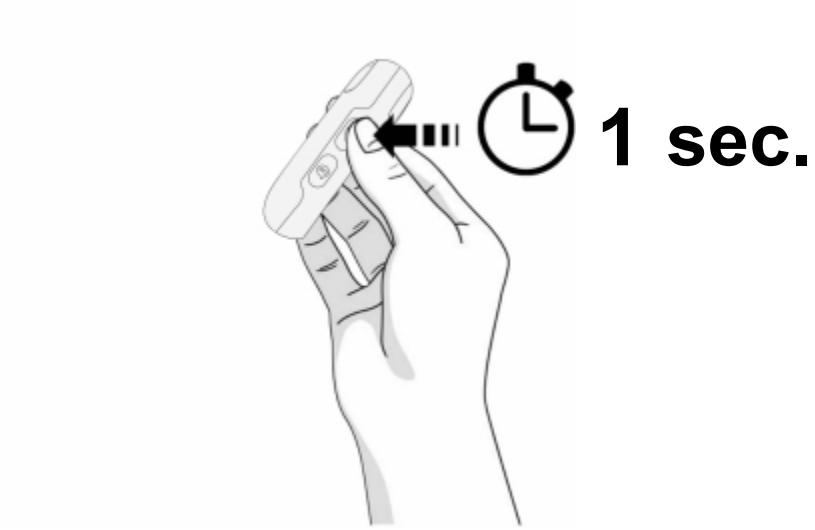
NOTE WELL

Initially, charge the device for at least 3 hours.

NOTE WELL

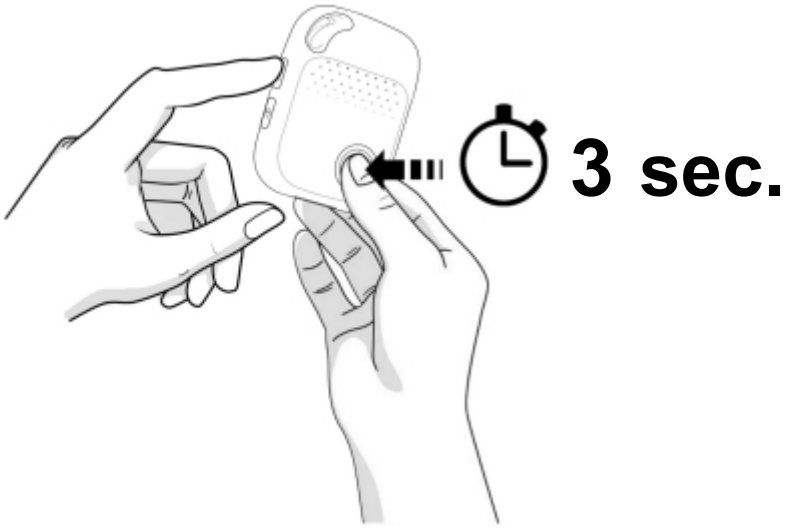
When the device's battery level reaches 20%, it sends an SMS notification to configured contacts.

Turning the Device On or Off



Turning On the Device

- Press the CALL button for 1 second; all status LEDs on the device will flash quickly. The device can also be turned on automatically by simply placing it on the charging dock



Turning Off the Device

- Hold down both the CALL and SOS buttons for 3 seconds until the status LEDs on the device turn off.

Interpreting the LED Colors

Green - Cellular Signal Indicator

	Single fast flash every 3 seconds	Double fast flash every 3 seconds
significance	The device has a stable cellular signal.	The device is registered on the cellular network.

Blue- Location Indicator

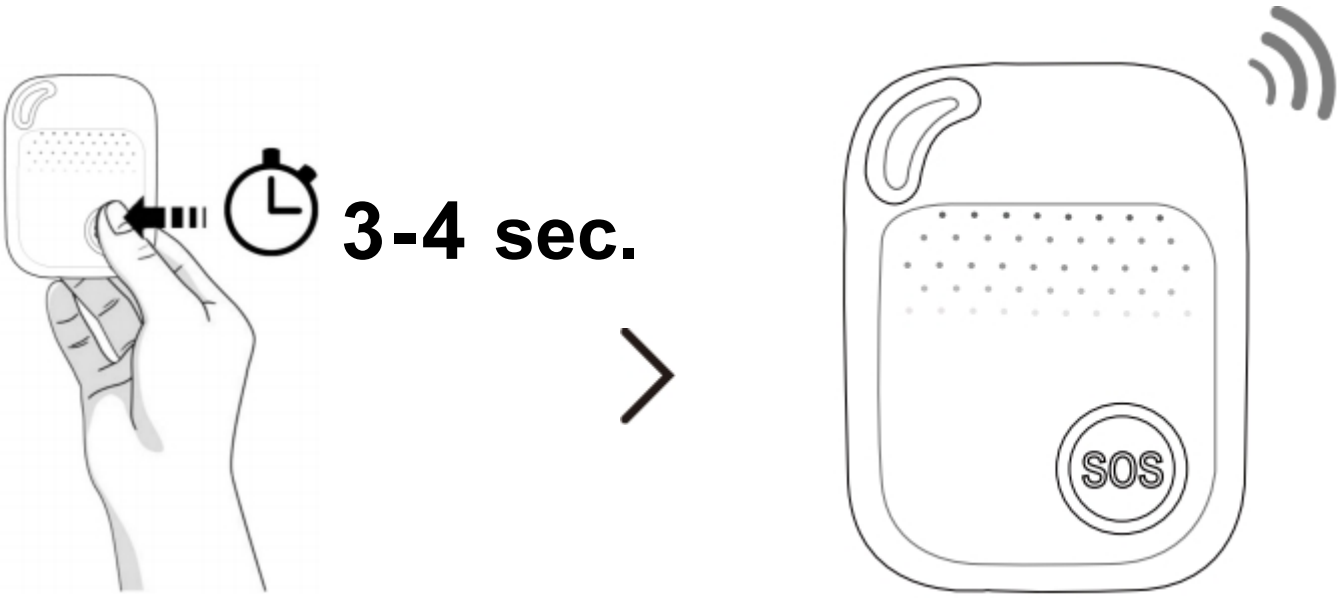
	Single fast flash every 3 seconds	Double fast flash every 3 seconds	Off
significance	The device has not fixed the last updated location.	The device has fixed the last updated location.	The device has not fixed any location.

Red - Charging Indicator

	Solid RED	Double fast flash every 3 seconds
Significance	Device charging completed.	BLE connected

	Continuous fast flashing	Off or slow flashing
Significance	Battery life below 20%.	Device charging in progress.

Activing SOS allarm



(Hold the SOS button for 3-4 seconds)

When you need help until you hear a voice message confirming the activation of the SOS alarm. This will start the sequence of sending SMS alarm messages to the emergency contacts configured on the device, followed by emergency phone calls.

If the call to the first number is unsuccessful, the device will try to call the second contact after 10 seconds. If this call also goes unanswered, it will try the third and so on...

There will be a 10-second delay between each call, during which you can **interrupt the sequence** or cancel the alarm by simply pressing the SOS button.

Use the +/- side buttons to adjust the volume during the call.

.

NOTE WELL

Remember that up to 10 emergency contacts can be configured, which the device will try to call in case of an alarm. Not all have to be configured, but at least one must be!

AUTOMATIC INTERRUPTION OF THE EMERGENCY CALL CYCLE

By default, the device has the function of interrupting the alarm cycle at "the first phone call that the device detects as an answer". This means that even an active voicemail on one of the configured emergency contacts or an informative message ("the number you are calling is currently unreachable...") will be interpreted by the device as an "answer". If you wish the entire call cycle to be completed regardless of the answers received, you can deactivate this function by sending the SMS command:

scs0

(To reactivate it, the SMS command to send is: `scs1)

MANUAL INTERRUPTION OF THE EMERGENCY CALL CYCLE

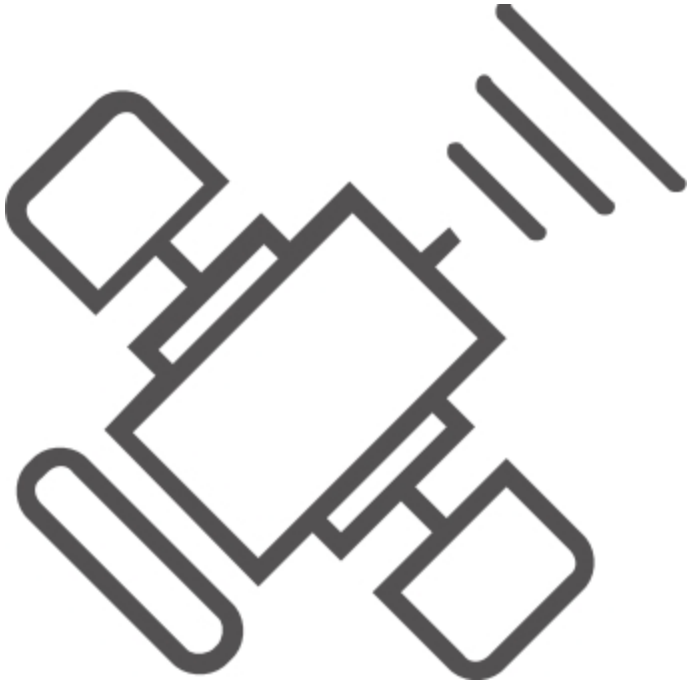
If the automatic interruption function of the emergency call cycle at the first answer is deactivated, it is still possible to manually interrupt the alarm cycle (once activated) by sending the device the SMS command:

stopcall

F.Y.I. The manual interruption of the alarm cycle is an operation that must be performed each time you wish to interrupt the specific cycle; it is not a function that is activated/deactivated.

Obtain the GPS localization.

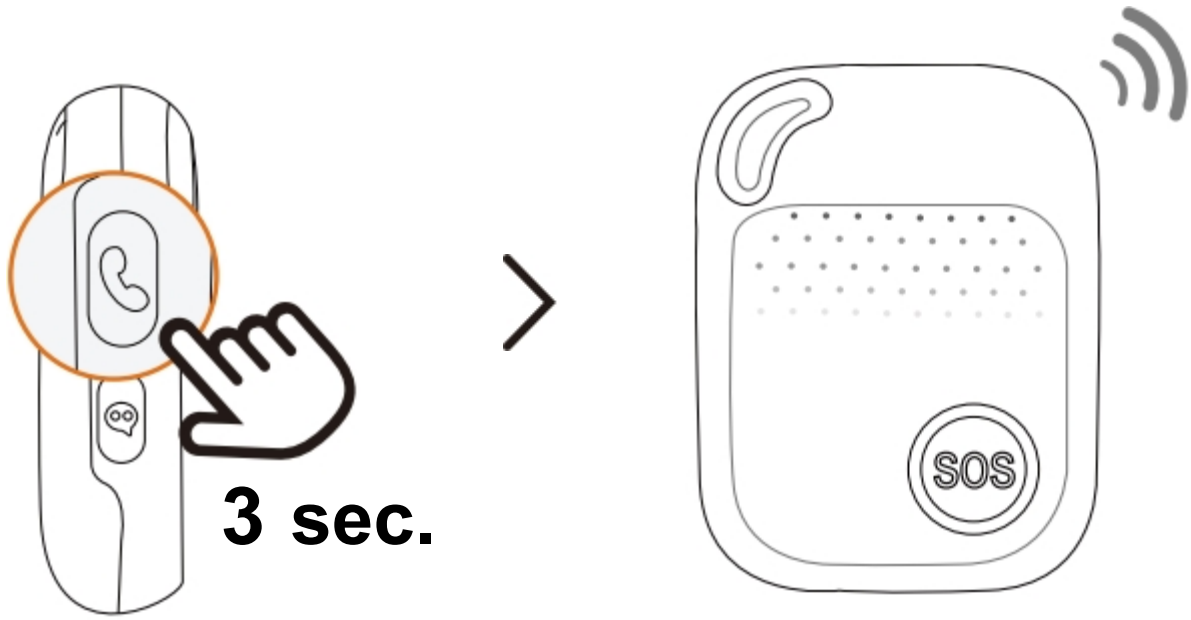
To obtain the correct GPS localization, it is necessary to perform the correct fix of the satellites. Position the device outside or near a window for a few minutes after turning it on.



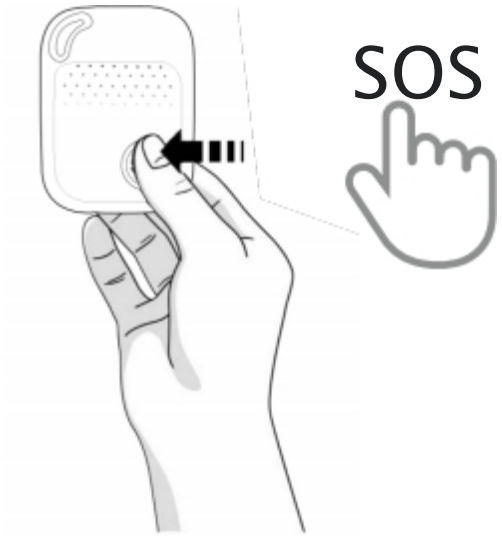
GPS

Making a Phone Call

- To make a phone call, hold the CALL side button for 3 seconds; you will hear a beep and shortly after, the device will call the second configured emergency contact (by default).

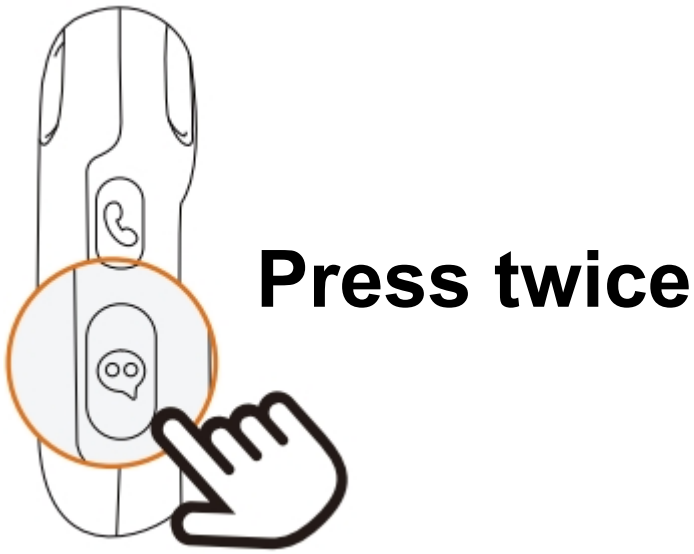


- To end the call,press the SOS button

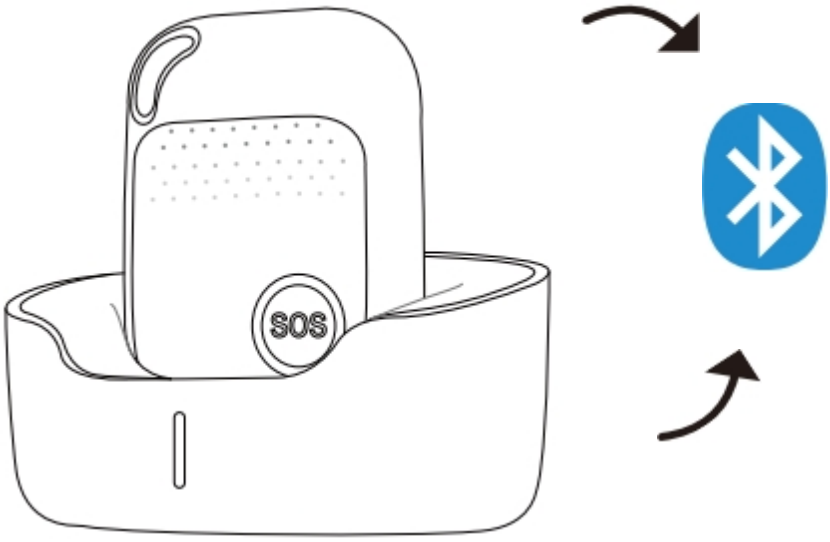


Silent Mode Button

- Press this button twice to deactivate all vocal alerts, press again twice to reactivate all vocal alerts.



- Place the device on the charging base for more than 30 seconds to automatically pair via Bluetooth.



Device Specifications

- Dimensions: 62mm x 47mm x 17mm.
- Weight: 53g.
- Battery: Rechargeable 3.7V 1000mAh.
- Charger: 5V DC
- Protection Grade: IP67
- Location Technologies: GPS BLE WIFI LBS

Warnings

Follow these guidelines to extend the device's lifespan

- Avoid using or storing the device in very dusty places.
- Avoid using the device in very hot or very cold places.
- Use only a dry cloth to clean the device, do not use solvents or chemical detergents.
- Do not disassemble the device.
- Use the device only with original batteries.

Device Configuration via SMS

1. Phone Numbers

<table>
<tr><th colspan="3">1.1 Setting Emergency Phone Numbers</th></tr>
<tr><td>Comand</td><td colspan="2">A<n>,<SMS Yes/No>,<Call Yes/No>,<Phone Number></td></tr>
<tr><td rowspan="2">Description</td><td><n>

Allowed values: 1~10

Emergency contact number in the sequence</td><td><SMS Yes/No>
Allowed values: 0~1

0 - Does not receive an SMS notification in case of an alarm

1 - Receives an SMS notification in case of an alarm</td></tr>
<tr><td><Call Yes/No>

Allowed values: 0~1

0 - Doesn't receive an SMS notification in case of an alarm

1 - Receives an SMS notification in case of an alarm</td><td><Phone Number>

Emergency phone number to be configured.</td></tr>
<tr><td>Response</td><td colspan="2">Example command:
A1,1,1,3451234567

Response received from the device: Setting emergency number 1 OK.</td></tr>
<tr><td>Default setting</td><td colspan="2">.
No default setting.</td></tr>
<tr><td>Explanation</td><td colspan="2">Configure authorized emergency numbers to be contacted in case of an alarm. The first '1' indicates the emergency contact A1. The second '1' indicates that the contact will receive an SMS notification in case of an alarm. The third '1' indicates that the contact will receive a phone call in case of an alarm..</td></tr>
</table>

1.2 Checking Emergency Phone Numbers

Command	A?
Response Example	Esempio: A1: 1,1,3331234567 A2: 1,0,06123456 A3: 0,1,3409999999 A4: 0,0,3681111111 A5: 1,1,02012345

1.3 Deleting Emergency Phone Numbers

Command	removeA<n>
Descriprion	<n> Allowed values: 1~10 Emergency contact number in the sequence.
Response	Response Example command: **removeA5** Response received from the device: **Emergency number 5 removed.**
Default setting	No default setting.
Explaination	Delete configured emergency numbers.

2. Password

2.1 Adding a Password to All Commands	
Command	P<pwd>
Description	<pwd> Password length: exactly 6 numeric digits. The password can be a combination only of the numeric digits 1,2,3,4,5,6. The other numeric digits [0,7,8,9] are not currently accepted.
Risposta	Example command: **P456123** Response received from the device: **Password setting OK**
Default setting	No default setting.
Explanation	After sending the password setting command, this numeric password must be prefixed to any command to be accepted by the device. For example: 456123Loc, 456123A1, etc… • The numeric password, once set, will not be deleted with a possible SIM card change. • Keep the set password in a way not to forget it, because otherwise only by sending the device to the service center it can be reset (Please note: this type of intervention will always be charged, even if the device is within the period of legal warranty coverage).

2.2 Changing the password

Command	<old pwd>P<new pwd>
Descriptio n	<old pwd> and <new pwd> Password length: exactly 6 numeric digits. The password can be a combination made up only of the numeric digits 1,2,3,4,5,6. The other numeric digits [0,7,8,9] are not currently accepted.
Response	Example: 456123P123456 Received response: Password successfully changed. Note: The new password, in the example above, will therefore be 123456 (the previous one was 456123).

2.3 Deleting the Password

Command	<pwd>P0
Description	<pwd> <pwd> is the password set on the device at the time of sending the command.
Response	Example command : **456123P0** Received response from the device: **Password deleted.**
Default setting:	No default setting..
Explanation	Once the password is deleted, no SMS command given to the device will need to be preceded by a numeric password to be accepted.

3 SMS Command "White List"

3.1 Setting a "White List" for SMS Commands

Command	sms<n>
Description	<n> Accepted values: 0~1 0 - the device accepts SMS commands from any number 1 - the device accepts SMS commands only from set emergency numbers (A1~A10).
Risposta	Example command: **sms0** Received response from the device: **SMS reception from any number activated.** Example command: **Sms1** Received response from the device: **SMS reception only from emergency numbers activated.**
Default setting:	sms0

4.SOS Alarm Settings

4.1 SOS Button	
Command	SOSSOS<mode>,<duration>
Descrizione	**<mode>** Accepted values: 1~2 1 - single long press of the SOS button 2 - double short press of the SOS button <duration> Accepted values: 1~100 Note: the multiplication factor for the set <duration> value is 0.1 seconds (one-tenth of a second). ——
Response	Example command**: SOS1,20** Received response from the device: **Setting long press 2 seconds OK.**
Default setting	SOS1,20
Explanation	In the example above, the behavior of the SOS button is set to a long press for 2 seconds, which means that pressing the SOS button for 2 seconds will trigger the SOS alarm procedure.

4.2 SOS Alarm: Call Ring Time and Maximum Conversation Duration

Command	SOSCALL<ring>,<max_duration>
Descrizione	**<ring>** Accepted values: 1~60 Sets the duration in seconds for the call attempt to an emergency number. **<max_duration>** Accepted values: 0~65535 Sets the maximum duration of the emergency call before it is automatically terminated by the device.
Response	Example command: **SOSCALL35S,20M** Received response from the device: **Setting ring time 35 seconds, talk time 20 minutes OK.**
Default setting:	SOSCALL20S,10M
Explanations	The time units that can be used are H, M, S, which stand for hours, minutes, seconds respectively. The device starts calling the first emergency contact (e.g., A1) for the time defined by **<ring>,** and if there is no answer, it moves to the next contact (e.g., A2), if configured. Answering machines or prerecorded messages will be ignored. Once the call is answered, the maximum conversation duration before the device automatically terminates it will be defined by **<max_duration>.**

4.3SOS Alarm Cycles	
Command	loop<ripetitions>
Description	**<ripetitions>** Accepted values: 0~10 0 - Sets the number of SOS call cycles to infinite
Responde	**Example command: loop5** Received response from the device: **Setting SOS cycle 5 repetitions ok.**
Default setting	loop1
Explanation	Sets the number of repetitions of the call cycle to all configured emergency numbers. A number of repetitions from 1 to 10 can be set, with the value '0' setting an infinite repetition cycle.

5. Device Localization

Command	loc
Description	After sending the loc command to the device, it will search for its location sequentially, first via Bluetooth, then Wi-Fi, and finally via GPS (satellite). If a Bluetooth location is detected, the device will stop searching for Wi-Fi and GPS locations.
Response	Response Example response: Date: 23/05/2021 Time: 13:44:22 Speed: 36km/h Battery: 34% maps.google.com/maps? q=loc:45.47777,9.1213012

6. FindMe Function (find the device)

Command	findme
Response	No response
Description	After sending this command to the device, it will start to continuously play the voice message "I'm here" for 30 seconds. Once the device is found, the voice message playback can be stopped at any time by pressing the SOS button.

7.Side Button Configuration

7.1 CALL Button (upper)	
Command	X<n>,<duration>
Description	<n> Accepted values: 0~10 0 - indicates deactivation of the feature 1~10 - speed dial number to call among the 10 emergency ones <duration> Accepted values: 1~100 Note: the multiplication factor for the set <duration> value is 0.1 seconds (one-tenth of a second). ——
Response	Example command: **X1,20** Received response from the device: **Setting speed dial first number OK.** **.**
Default Setting	X2,20
Explanation	In the example above, the CALL side button (the upper one when looking at the device sideways) is configured to call the first emergency number by pressing the button once for 2 seconds.

7.2 Silent Mode Button (lower)	
Description	The silent mode button cannot be configured.

8.Device Vibration Configuration

Command	vibrate<n>
Descrizione	**<n>** Accepted values: 0~1
Risposta	Example command: **vibrate0** Received response from the device: **Vibration off!**
Impostazione predefinita	vibrate1
Spiegazione	Activates/deactivates the device's vibration when the SOS alarm procedure, automatic fall detection, tilt alarm are initiated, but also when pressing the CALL button, upon receiving an incoming call, and when turning the device on/off.

9. Device Sound Alert Configuration

Command	beep<n>
Description	<n> Accepted values: 0~1
Response	Example command: **beep0** Received response from the device: **Beep off**
Default setting	beep1
Explanation	Activates/deactivates the device's sound alert (including voice prompts) when the SOS alarm procedure, automatic fall detection, tilt device alarm, and other alerts are initiated.

10. Managing Phone Calls

10.1 Incoming Call	
Command	callin<n>
Description	**<n>** Accepted values: 0~1 0 - the device accepts incoming phone calls from any number 1 - the device accepts incoming phone calls only from configured emergency numbers
Response	Example command: **callin0** Received response from the device: **Allow incoming calls from all numbers.**
Default setting	callin1
Explanation	This setting is used to enable/disable the device to receive incoming phone calls from any number or only from configured emergency numbers.

10.2 Automatic Answer

Command	answer<n>,<ring>
description	<n> Accepted values: 0~1 0 - the device automatically answers incoming calls 1 - to answer incoming phone calls, any button must be pressed <ring> Accepted values: 1~10 Sets the number of seconds of ringing before the device automatically answers the call.
Response	Example command: **answer1** Received response from the device: **Setting answer by button ok.** **.**
Default setting	answer0,5
Explanation	This setting is used to set the device's answer mode for incoming phone calls.

10.3 Hang Up Call

Command	hangup<n>
Description	<n> Accepted values: 0~1 0 - the device user cannot hang up an ongoing phone call. The call can only be disconnected by the other party. 1 - the device user can hang up an ongoing phone call by pressing the SOS button.
Response	Example command: **hangup0** Received response from the device: **Setting hangup hangup0 ok.**
Defaul setting	hangup1
Explanation	This setting is used to enable/disable the ability of the device user to disconnect an ongoing phone call.

11. Volume

11.1 Incoming Call Ringtone Volume	
Command	rt<livel>
Description	**<livel>** Accepted values: 0~100 0 - turns off the ringtone for incoming phone calls.
Response	Example command: **rt90** Received response from the device: **Setting ringtone volume 90 ok (incoming call).**
Default setting	rt70
Explanation	This setting is used to configure the device's ringtone volume level for incoming phone calls.

11.2 Speaker Volume

Command	speakervolume<livel>
Description	**<livel>** Accepted values: 0~100 0 - mutes the device's built-in speaker
Response	Example command: **speakervolume90** Received response from the device: **Speaker volume 90 ok.**
Default setting	speakervolume80
Explanation	This setting is used to configure the volume level of the device's built-in speaker.

11.3 SOS Speaker Setting (emergency calls)

Command	sosspeaker<n>
Descrption	**<n>** Accepted values: 0~1 0 - deactivates the device's built-in speaker for emergency calls 1 - activates the device's built-in speaker for emergency calls
Response	Example command: **sosspeaker0** Received response from the device: **Speaker off ok. (SOS call)**
Default setting	Sosspeaker1
Explanation	This setting is used to activate/deactivate the built-in speaker for emergency calls.

11.4 Speaker Setting (CALL button)

Command	xspeaker<n>
Description	**<n>** Accepted values: 0~1 0 - deactivates the device's built-in speaker for speed dial calls via the CALL button 1 - activates the device's built-in speaker for speed dial calls via the CALL button
Responde	Example command: **xspeaker0** Received response from the device: **Speaker off ok. (side button call)**
Default Setting	xspeaker1
Explanation	This setting is used to activate/deactivate the built-in speaker for speed dial calls made via the CALL button. .

12. LED

Command	led<n>
Desctiption	**<n>** Accepted values: 0~1 0 - deactivates the LEDs on the device 1 - activates the LEDs on the device
Responde	Example command: **led0** Received response from the device: **LEDs off.**
IDefault Setting	led1
Explanation	This setting is used to configure the device's ringtone volume level for incoming phone calls.

13. Time Zone Setting

Command	tz<zona>
Description	**<zona>** Valori accettati: +00~+14 oppure -14~-01
Response	Esempio di comando: **tz+01** Risposta ricevuta dal dispositivo: **Impostazione zona oraria +01 ok.**
Default Setting	tz+00
Explanation	This setting is used to configure the time zone, including daylight saving time changes, so the device displays the correct time in messages that include it. tz+01 is used to set standard time (winter); tz+02 is used to set daylight saving time (summer).

14. Naming the Device

Command	Prefix<n>,<name>
Description	**<n>** Accepted values: 0~1 0 - device name disabled 1 - device name enabled <name> The name assigned to the device can be up to 100 characters
Response	Example command: **Prefix1,Mom** Received response from the device**:** **Setting prefix Mom ok**
Default setting	Prefix0

15.1 Low Battery Notification

Command	low<n>,<threshold>
Description	**<n>** Accepted values: 0~1 0 - disables low battery notification 1 - enables low battery notification <threshold> Accepted values: 0~100 Values are expressed as a percentage of battery charge..
Response	Example command: **low1,10** Received response from the device: **Low battery 10% activation ok.**
Default setting	low1,20

15.2 Checking Remaining Battery Life

Command	battery
Response	Example command: **battery** Received response from the device: **Battery: 88%**

16 Turning Off the Device

Command	OFF
Responde	No response
Description	Once this command is received, the device will immediately turn off.

17 <Section intentionally left blank>

18 Checking IMEI Code and Firmware Version

Command	V?
Responde	Example: IMEI: 860123569879999 GSM Signal Strength: 28 Software Version: V04.8601.2001

19. Allarms

19.1 SOS Alarm	
Example	For example: notification Help! Date: 23/05/2021 Localization Time: 13:44:22 Alarm Time: 13:44:10 Speed: 36km/h Battery: 34% maps.google.com/maps?q=loc:45.47777,9.1213012

19.2 Automatic Fall Detection alarm	
Command	fl<n>,<sensitivity>,<call yes/no>
Description	<n> Accepted values: 0~1 0 - deactivates the automatic fall detection alarm 1 - activates the automatic fall detection alarm <sensitivity> Accepted values: 1~9 1 - minimum sensitivity 9 - maximum sensitivity <call yes/no> Accepted values: 0~1 0 - no phone call in case of alarm 1 - phone call in case of alarm

Response	Example command: **fl1,5,1** Received response from the device: **Fall alarm setting ok!**
Default setting	fl1,1,1
Esempio notifica	For example: notification Fall Alarm! Date: 23/05/2021 Localization Time: 13:44:22 Alarm Time: 13:44:10 Speed: 36km/h Battery: 34% maps.google.com/maps?q=loc:45.47777,9.1213012

19.3 GEO Area Alarm

Command	geo<n>,<yes/no>,<exit/enter>,<radius>
Description	**<n>** Accepted values: 1~4 Ispecifies which of the four GEO areas to configure. <yes/no> toggles the GEO area alarm on (1) or off (0). <exit/enter> triggers the alarm when the device exits (0) or enters (1) the GEO area.

	<radius> Accepted values: 100~65535 <radius> sets the GEO area's radius, which can be in meters (M) or kilometers (KM)
Response	Example: GEO1,1,1,100M indicates setting GEO area 1 with an entrance alert and a 100M radius.
Note	The central point of the GEO area that is activated upon command submission is the GPS location identified by the device. If the GPS fix has not been completed yet or if one is in an area without GPS signal coverage, it will not be possible to activate the function, and the following response will be obtained from the device: **Unable to set the GEO fence now, please perform the GPS fix for localization first.**
Exaple	For example: GEO fence 1 Alarm! Date: 23/05/2021 Localization Time: 13:44:22 Alarm Time: 13:44:10 Speed: 36km/h Battery: 34% Location: maps.google.com/maps?q=loc:45.47777,9.1213012

19.4 mmobility Alarm

Command	nmo<n>,<inactivity_time>,<call yes/no>
Description	<n> Accepted values: 0~1 0 - Deactivate immobilization alarm 1 - Activate immobilization alarm <inactivity_time> Accepted values: 60~36000 Values can be expressed in S (seconds), M (minutes), or H (hours). <call yes/no> Accepted values: 0~1 0 - No phone call in case of alarm 1 - Phone call in case of alarm
Responde	Example command: **NMO1,03M,1** Response received from the device: **Immobilization alarm activation successful.**
Default Setting	NMO0
Example	For example: Immobilization alarm. Date: 23/05/2021 Localization Time: 13:44:22 Alarm Time: 13:44:10 Speed: 36km/h Battery: 34% Location: [maps.google.com/maps?q=loc:45.47777,9.1213012] (https://maps.google.com/maps?q=loc:45.47777,9.1213012)

19.5 Allarme movimento

Command	mo<n>,<inactivity_time>,<movement_duration>,<call yes/no>
Description	<n> Accepted values: 0~1 0 - Deactivate motion alarm 1 - Activate motion alarm <inactivity_time> and <movement_duration> Accepted values: 60~36000 Values can be expressed in S (seconds), M (minutes), or H (hours). <call yes/no> Accepted values: 0~1 0 - No phone call in case of alarm 1 - Phone call in case of alarm
Response	Example command: MO1,05M,03S,1 Response received from the device: Motion alarm activation successful. In this example, if movement is detected for 3 seconds after the device has been stationary for 5 minutes, the alarm is activated.
Default Setting	MO0

19.6 Tilt Alarm

Command	ttilt<n>,<degrees>,<duration>,<call yes/no>
Description	<n> Accepted values: 0~1 0 - Deactivate tilt alarm 1 - Activate tilt alarm **<degrees>** Accepted values: 30~90 Values are expressed in degrees. **<duration>** Accepted values: 10~3600 Values can only be expressed in S (seconds). <call yes/no> Accepted values: 0~1 0 - No phone call in case of alarm 1 - Phone call in case of alarm
Response	Example command: TILT1,45,30S,1 Response received from the device: Tilt alarm activation at 45 degrees successful. In this example, the alarm is activated after the device has been tilted at 45 degrees for at least 30 seconds. Before starting the alarm cycle with calls and SMS notifications, the device emits an audible beep for 30 seconds. During this period, if it is moved, the alarm is automatically canceled.

Default Setting	tilt0
Exaple	For example: Tilt alarm at 48 degrees. Date: 23/05/2021 Localization Time: 13:44:22 Alarm Time: 13:44:10 Speed: 36km/h Battery: 34% Location: [maps.google.com/maps?q=loc:45.47777,9.1213012] (https://maps.google.com/maps?q=loc:45.47777,9.1213012)

19.7 Speed Alarm

Command	speed<n> <speed>
Description	<n> Accepted values: 0~1 0 - Deactivate speed alarm 1 - Activate speed alarm <speed> Accepted values: 20~400 Km/h Values are expressed in Km/h.
Response	Example command: **speed1,100** Response received from the device: **Speed alarm activation at 100 Km/h successful.**
Default Setting	speed0

20. Setting Check

Command	status
Response	Esempio: GEO+ by Vebiro Mode4, 1 hour LED: Active Beep: On Vibration: On Time Zone: +01:00 GEO Fence: 0, 0, 0, 0 Motion Alarm: Off Immobilization Alarm: Off Tilt Alarm: Off Fall Alarm: Activated, level: 4 Low Battery Alarm: Activated, 20% SOS Call: 1 minute, cycle 2 Side Button: 1 RT: 100 MIC: 9 Volume: 90

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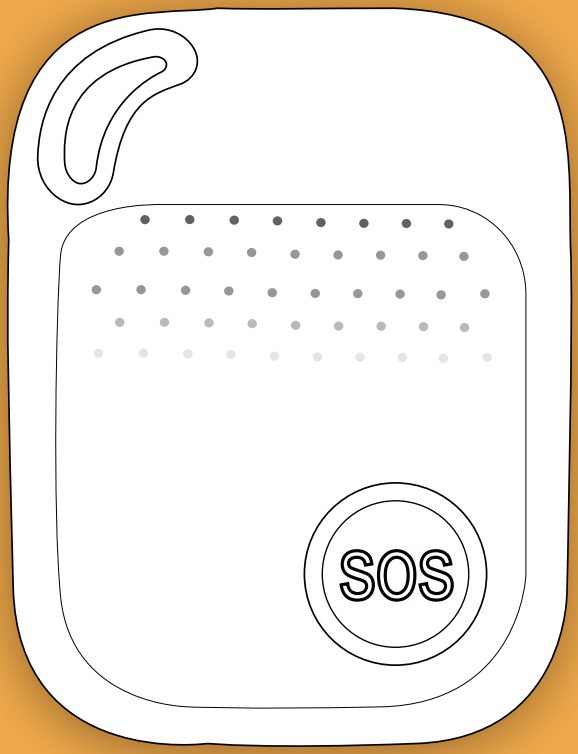

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