


# Personal GPS Tracker

with SMS/GPRS functions

## U Type



### GPS Personal Tracking System U Type (SMS/GPRS)

Standard	Applications:	CHF	incl. 8% VAT
<ul style="list-style-type: none"> <li>a) SOS</li> <li>b) better signal</li> <li>c) GPS tracking</li> <li>d) Call back with longitude/latitude</li> <li>e) Setting of two groups contact phone number</li> <li>f) An emergency call button</li> <li>g) Hands-free communication</li> <li>h) Remote monitor</li> <li>i) history playback by the gprs network</li> </ul>	<ul style="list-style-type: none"> <li>1) for elder people</li> <li>2) for children,disable people</li> <li>3) etc.</li> </ul> 	CHF	95.30

## 1. Product Overview

This Tracker provides peace of mind by showing you with your mobile phone or PC the location of your targets via SMS or GPRS.

TRACKER has the following features

- ◆ *Tracking via SMS or GPRS*
- ◆ *Current location report*
- ◆ *Tracking by time interval*
- ◆ *Two-way conversation*
- ◆ *SOS alert*
- ◆ *Geo-fencing control*
- ◆ *Low battery alert*
- ◆ *Speeding alert*
- ◆ *Four buttons for making phone call and/or sending message*
- ◆ *Removable and rechargeable internal battery*
- ◆ *Built-in speaker and microphone*
- ◆ *Alert when Track enter/exits GPS blind area*
- ◆ *Live Voice monitoring*

## 2. For Your Safety

Read these simple guidelines. Not following them may be dangerous or illegal. Read the full user manual for more information.

**Switch on safely-** *Do not switch on Track when wireless phone use is prohibited or when it may cause interference or danger.*

**Switch off in Hospitals-** *Follow any restrictions. Switch Track off near medical equipment.*

**Switch off in Aircraft -** *Follow any restrictions. Wireless devices can cause interference in aircraft.*

**Switch off when refueling-** *Do not use Track when at a refueling point. Do not use near fuels or chemicals.*

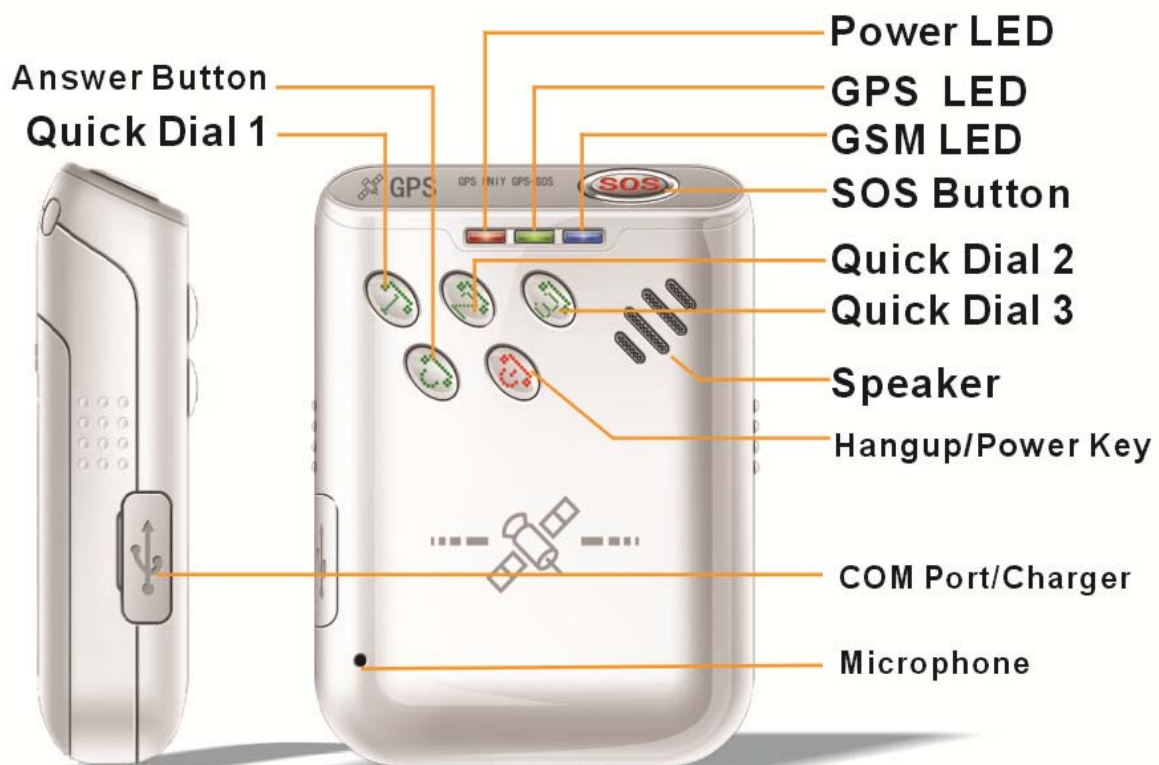
**Water Resistance -***Track is not water resistant. Keep it dry. Use waterproof bag if necessary.*

## 3. Track Parameters& Panel Description

Item	Specification
Charging Voltage	DC 5V/500mA (Micro USB port)
Internal Battery	Rechargeable and removable 830 mAh battery (3.7V)
Operating temperature	-20° to 55° C
Humidity	5% to 95% Non-condensing
GSM module	GSM 900/1800/1900Mhz
GPS Chipset	latest GPS (AGPS)
GPS Sensitivity	-158Db
GPS Frequency	L1, 1575.42 MHz
C/A Code	1.023 MHz chip rate
Channels	20 channel all-in-view tracking
Position Accuracy	10 meters, 2D RMS
Velocity Accuracy	0.1 m/s
Time Accuracy	1 us synchronized to GPS time
Default datum	WGS-84
Reacquisition	0.1 sec., average
Hot start	1 sec., average
Warm start	38 sec., average
Cold start	42 sec., average
Altitude Limit	18,000 meters (60,000 feet) max.
Velocity Limit	515 meters/second (1000 knots) max.

Acceleration Limit	Less than 4g
Jerk Limit	20 m/sec
Work time	60 hours in sleep mode and 10 hours in normal mode
LED	3 LED indicators showing power, GPS, GSM status and other operation status.

## Panel Description



## 4. Getting Started

### 4.1 Hardware and Accessories

- USB Power Cable
- User Manual
- Other document or software if required

### 4.2 Light and Button Functionality

TRACK has four buttons and three LED lights with three different colors to indicate the status of the unit. All LED is enabled when power on, and short click SOS key to change GSM & GPS LED enable / disable status.

Red LED	Indicating power status
Off	Power is off / charging is complete / working
Flashing(on for 0.05sec and off for 4.95 sec)	Low power
On	Charging

<b>Green LED-indicating GPS status</b>	
Off	Device is not ready
On	GPS fix
Flashing (on for 1 second and off for 4 seconds)	GPS no fix / GPS power off

<b>Blue LED-indicating GSM status</b>	
On	One call is coming in / one call is being made
Flashing (on for 0.05 second and off for 4.95 seconds)	TRACK is connected to GSM network
Flashing (on for 1 second and off for 4 seconds)	TRACK is not connected to the GSM network

<b>Power Button</b>	<b>To turn on/off</b>
SOS Button	Long press SOS button to send an alarm to location center and make a phone call and/or send an SMS to the preset phone number. Short press SOS button to change GSM & GPS LED enable / disable status.
1 Button	Long press 1 button to make a phone call and/or send an SMS to the preset phone number.
2 Button	Long press 2 button to make a phone call and/or send an SMS to the preset phone number.
3 Button	Long press 3 button to make a phone call and/or send an SMS to the preset phone number.

### 4.3 First Use

#### Ensure that Track has a working SIM installed

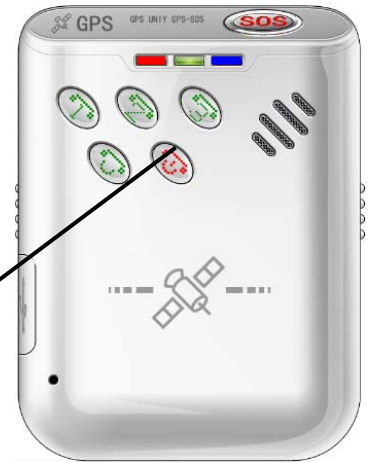
- ◆ Check that the SIM has not run out of credit
- ◆ Check that the SIM Lock code is turned off  
Use some other mobile phone to confirm that the PIN code Can not been set ,and that it can dial out and receive telephone calls, and that it can connect to internet by GPRS.
- ◆ Charge the battery for at least 3 hours in power-off status using the wall charger or car charger.  
Red light is on during charging and is off when charging is complete.

#### 4.4 Operation Instructions

##### (1) Power On/Off

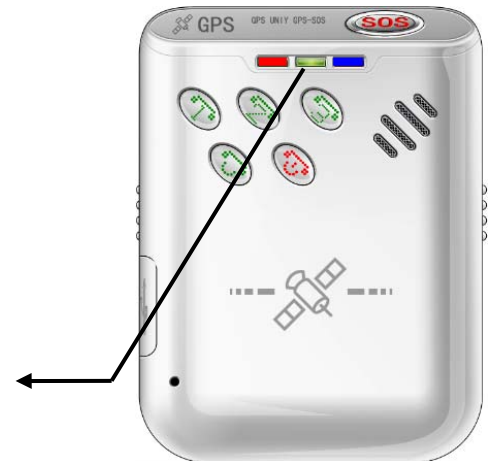
###### ➤ Power On:

**Step 1.** When it is off, press the **power button** for 5 second to switch on the power.



**Step 2.** After power on, **GSM LED** will light on first (on 1 second and off 4 seconds for searching GSM network, or on 0.05 second and off 4.95 seconds after get GSM network).

**Step 3.** Some 10 seconds later, **GPS LED** starts to flash (on 1 second and off 4 seconds for searching GPS, or always on after GPS fixed). By then, the device is ready to work.



###### ➤ Power Off:

When it is on, press the power button for 3 seconds to switch off the power; Power/GPS/GSM LED will shut off right now. By then, the device is turned off.

##### (2) SOS Emergency Help Function

When SOS button is long pressed, Track will send alarm to location center, and send a SMS message and make phone call for emergency help. The phone number can be set by the users.  
When 1 2 3 button is long pressed, Track will make normal phone call. The phone number can be set by users. The phone number list can be set by SMS command.

### (3) Conversation Function

Call In: One can make phone call to Track by simply dialing the SIM card number.



To receive the incoming phone call.



To refuse the incoming phone call.

Call Out: Track has four speed dial; you can long press preset 4 sets of phone



### (4) Connect to our **Monitoring Center**

TRACK will connect to our **Monitoring Center** automatically per 10s to report its position info and fetch the new configuration. Ensure that Track has been registered on the **Monitoring Center**

**Step1.** Register your Track device on **Monitoring Center** to get username and password. The device IMEI number is required. The IMEI number is printed on the back of Track.

**Step2.** Check preset APNs list (Appendix 2)

If your GSM operator's APN is not in this list, please set APN by SMS (Preference 5.2.1)

**Step3.** When APN is set, Track will connect to **Monitoring Center** automatically per 5 mins to report its pos info to center. You can login **Monitoring Center** website to trace the Track.

## 5. SMS Command

TRACK will only accept commands from a user with the correct password. Commands with wrong password are ignored. **The default password is 000000.**

### 5.1 Basic SMS Commands

#### 5.1.1 Return the location of the tracker

Description: To know the location of your Track, send an SMS to Track and it will report its location by SMS.

Command: W<password>, <000>

Notes: The default password is 000000.

Example:

SMS sent: W000000,000

SMS received:

W00,000,\$GPRMC,034522,662,A,2232,3126,N,11359,3061,E,000.0,000.0,241209,,A\*6E

#### 5.1.2 SOS/Call 1/Call 2/Call 3

Description: To authorize a mobile phone number for the SOS, 1, 2 or 3 buttons. When the button is pressed, a message will be sent and/or simultaneously a call will be made to the authorized number.

Command: W<password>,003,F,P, <telephone number>

Notes:

(a) F =0, cancel this function

=1, set send SMS to the preset number

=2, set call the preset number

=3, set send SMS and also call the preset number

P =1, set a authorized number for SOS button

=2, set a authorized number for 1 button

- =3, set a authorized number for 2 button
- =4, set a authorized number for 3 button
- (b) When one of the buttons is pressed and a call is made, you can call and talk with the tracker-holder.
- (c) Press END button to hang up the call or cancel a calling

Example:

SMS sent: W000000,003,3,1,123456789

SMS received: W01,003,Set phone number OK

Meaning: When the SOS button is pressed, Track will send an SMS to telephone number "123456789" and also make a phone call to it.

When a call is coming in, the blue light is on. Press ACCEPT button to receive the incoming call and then talk with the caller. To complete the conversation, hang up the call by pressing END button.

## 5.2 GPRS Settings by SMS

Tracking via GPRS, you should set APN for Track

Ensure that your SIM card in Track supports GPRS connection prior to setting.

### 5.2.1 Set APN

Command: W<password>,011,APN,APN Name,APN Password,APN DNS,APN Second DNS

Note: If no APN name, APN password, APN DNS and APN Second DNS required, input APN only.

Example: W000000,011,CMNET

TRACK will reply with an SMS (like 'W01,011, Set device APN OK') to confirm this setting.

## 6. Command List

Remarks: \*\*\*\*\* is user's password and the default password is 000000.

Description	Command	Remarks
<b>Get current location</b> NMEA format	W*****,000	Get current location of Track, NMEA format
<b>Get current location</b> Google Earth format	W*****,051	Get current location of Track, Google Earth format
<b>Get current location</b> Plain address	W*****,052	Get current location of Track, plain address
Change user's password	W*****,001,#####	***** is old password ##### is new password Max 8 characters.
Set preset phone number for SOS button	W*****,003,F,P,T	F=0, to turn off this function; F=1, set sending SMS; F=2, set calling preset phone number; F=3, set SMS and calling (default) P=1, set a authorized number for SOS button P=2, set a authorized number for 1 button P=3, set a authorized number for 2 button P=4, set a authorized number for 3 button T: Preset phone number. Max. 16 digits



<b>Presetting by SMS for GPRS tracking (Ensure that your SIM card supports GPRS connection prior to setting)</b>		
<b>Set APN</b>	W*****,011,APN,APN Name,APN Password,APN DNS,APN Second DNS	If no APN name and password required, just insert APN only; APN defaulted as 'CMNET'; APN + APN name + APN password + APN DNS + APN Second DNS not over 39 characters.
<b>Set phone number for wiretapping</b>	W*****,030,T	T is the telephone number for Wire tapping and max. 16 digits
<b>Set character for SOS alert message</b>	W*****,033,P,Char	P is the button number. P=1, 2, or 3. P=1, SOS button P=2, 1 button P=3, 2 button P=4, 3 button Char is the character in SOS message and max 32 characters
<b>Restore factory settings</b>	W*****,048	Restore factory settings
<b>Get version and serial number</b>	W*****,600	To get version and serial number of current firmware
<b>Get IMEI</b>	W*****,601	To get IMEI

#### Appendix 1

##### Format of SMS reply: W\*\*,###

\*\* Reply number  
### Command number

Reply number:

- 00: Get location succeed
- 01: Setting succeed
- 02: Setting failed
- 03: Format error
- 04: Password error
- 05: Command error
- 06: Change password error
- 07: Parameter error
- 08: No GPS data
- 09: Protocol not support
- 10: Over speed
- 11: Geo-Fence
- 12: GPS no fix
- 13: Port open failed
- 14: Timeout
- 15: Reject
- 16: Get GPS data failed
- 17: Allocate memory failed
- 18: Automatic alert
- 19: GPRS login



## Appendix 2

### Mobile Operator APN preset by Track

# Albania, vodafone AL	# Hungary, H pannon	# Qatar, Qat-Qtel
# Argentina, Movistar	# Hungary, T-Mobile H	# Congo Dem. Rep, Vodacom CD
# Argentina, Personal	# Hungary, vodafone HU	# Romania, RO ORANGE
# Austria, A1	# Iceland, Siminn	# Romania, RO Vodafone
# Austria, T-Mobile A	# India, Airtel	# Russia, Beeline RUS
# Austria, telering	# India, BPL MOBILE	# Russia, MegaFon RUS
# Australia, Optus	# India, IDEA	# Russia, MOTIV RUS
# Australia, Telstra Mobile	# India, MTNL	# Russia, MTS RUS
# Australia, 3	# Indonesia, XL	# Russia, NTC RUS
# Australia, vodafone AU	# Indonesia, INDOSAT	# Russia, TELE2 RUS
# Azerbaijan, AZE ACELL	# Indonesia, Telkomsel	# Russia, Utel RUS
# Bangladesh, GramenPhone	# Ireland, METEOR IRL	# Saudi Arabia, STC
# Belarus, Velcom	# Ireland, O2 IRL	# Singapore, SSTARHUB
# Belarus, MTS	# Ireland, vodafone IRL	# South Africa, Cell C
# Belgium, BASE	# Israel, Cellcom	# South Africa, MTN-SA
# Belgium, Mobistar	# Israel, Orange	# South Africa, VodaCom-SA
# Belgium, Proximus	# Italy, TIM IT	# Spain, vodafone ES
# Botswana, MASCOM	# Italy, vodafone IT	# Sri Lanka, SRI DIALOG
# Brazil, Claro	# Italy, WIND IT	# Sri Lanka, Mobitel
# Brazil, Oi	# Jamaica, Digicel	# Sweden, TELIA SE
# Brazil, TIM BRASIL	# Kazakhstan, Beeline KZ	# Sweden, Telenor SE
# Bulgaria, BG GLOBUL	# Kenya, Safaricom	# Switzerland, Sunrise
# Bulgaria, M-Tel BG	# Latvia, LMT LV	# Switzerland, ORANGE
# China Mobile	# Latvia, TELE2 LV	# Switzerland, Swisscom
# China Unicom	# Lebanon, Alfa	# Taiwan, ChungHwa
# Cameroon, MTN CAM	# Lithuania, LT BITE GSM	# Taiwan, FarEasTone
# Canada, Fido	# Lithuania, OMNITEL LT	# Taiwan, KG Telecom
# Canada, ROGERS	# Lithuania, TELE2	# Thailand, AIS GSM
# Chile, ENTEL	# Luxembourg, L LUXGSM	# Thailand, DTAC
# Costa Rica, I.C.E.	# Luxembourg, L TANGO	# United Arab Emirates, ETISALAT
# Croatia, T-Mobile	# Luxembourg, L VOX	# Uganda, MTN
# Croatia, VIPnet	# Malaysia, MY CELCOM	# United Kingdom, Orange UK
# Czech Republic, T-Mobile CZ	# Malaysia, DiGi	# United Kingdom, T-Mobile UK
# Denmark, TDC MOBIL	# Malaysia, MY MAXIS	# United Kingdom, Vodafone UK
# Denmark, TELIA DK	# Malta, go mobile	# United Kingdom, O2 UK
# Dominican, orange	# Malta, vodafone MT	# Ukraine, Beeline
# Egypt, Vodafone EG	# Mexico, TELCEL	# Ukraine, Kyivstar
# Egypt, MobiNiL	# Moldova, MOLDCELL MD	# United States, AT&T
# Estonia, EE EMT	# Morocco, MEDITEL	# United States, T-Mobile
# Finland, DNA	# Nepal, Mero Mobile	# Uruguay, Movistar
# Finland, FI Elisa	# Netherlands, KPN NL	# Venezuela, Digitel
# Finland, FI SONERA	# Netherlands, Orange NL	
# France, Bouygues FR	# Netherlands, T-Mobile NL	
# France, Orange F	# Netherlands, Vodafone NL	
# France, SFR FR	# New Zealand, vodafone NZ	
# Ghana, Areeba	# Nigeria, MTN NG	
# Ghana, Onetouch	# Norway, N NetCom	
# Ghana, Tigo	# Norway, N Telenor	
# Germany, Vodafone.de	# Pakistan, Mobilink	
# Germany, E-Plus	# Pakistan, Telenor PK	
# Germany, O2-de	# Pakistan, PK-UFONE	
# Germany, T-Mobile D	# Philippines, Globe Telecom	
# Greece, COSMOTE GR	# Philippines, SMART	
# Greece, vodafone GR	# Poland, Era	
# Hong Kong, CSL	# Poland, Orange PL	
# Hong Kong, New World	# Poland, Plus	
# Hong Kong, SmarToneVodafone	# Portugal, Optimus P	
# Hong Kong, 3 HK	# Portugal, TMN P	
	# Portugal, vodafone P	

\*Non listed APN can be added anytime.