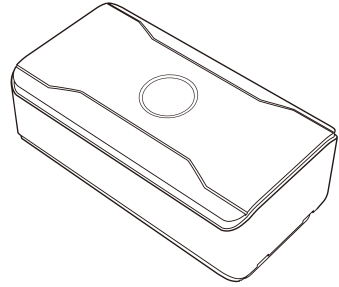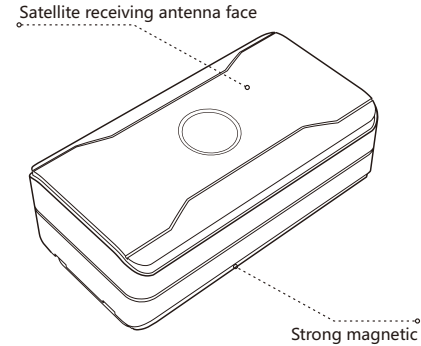# Long Standby GPS Tracker User Manual

To ensure quick and correct usage,
please read the instruction manual carefully before using it.
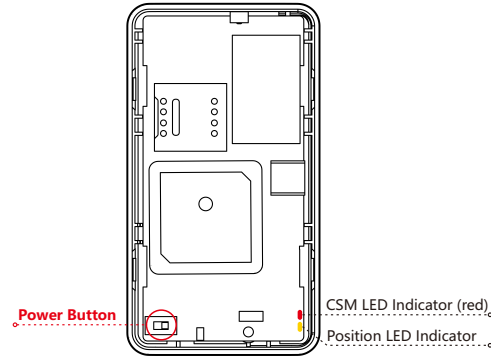
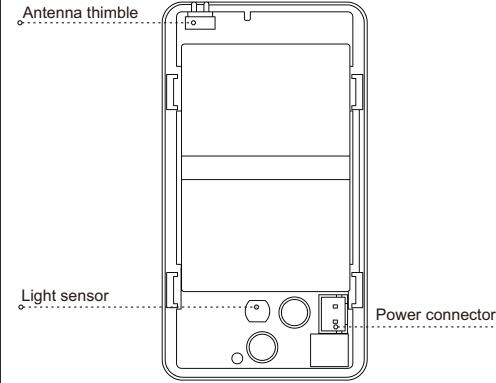## 1 Structure description

1.1 Host structure description
Structure appearance

Satellite receiving antenna face

Strong magnetic

1.2 Internal structure

Power Button

CSM LED Indicator (red)

Position LED Indicator

1.3 Side structure

Antenna thimble

Light sensor

Power connector

1.4 Standard list

No.	Name	Quantity	Unit
1	Host	1	PC
2	Strong magnetic	1	PC
3	Velcro	1	PC

2 Parameters instructions

Product parameter table

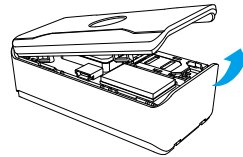| Item	Specifications	Item	Specifications
Operating voltage	DC 3V	Communication network	GPRS
Working current	60~80mA@3V	Communication method	UDP
Standby current	< 3.5uA	Working temperature	-25℃~+75℃
Standard sizes	L77mm*W41mm*H27mm	Storage temperature range	-40℃~+85℃
Targeting	GPS+LBS	Net weight	106g
Positioning error	GPS positioning error ≤5m (this data is for reference, the positioning error is related to the terrain and time of the area where the vehicle is located) The base station positioning error is based on the base station density in the interval	Battery working time	Use brand new batteries to work continuously for 3 years

Product function table

Function Details	Function Description
Alarm mode	Up to 4 groups of wake-up times can be set every day, automatically wake up at the set time, and sleep after sending location data
Timed return mode	Timed return, then return location data according to the set time
Week mode	You can set a time point and choose one day of the week or days to send location data to sleep
LBS + GPS	Automatically enable base station positioning when GPS cannot be positioned
Wiring-free installation	No external wiring is required
Serial port settings	IP and port, APN, local number, local time calibration, alarm mode, timing mode, week mode can be set
SMS settings	Please consult the service provider for parameter setting details
SMS query	
SMS correction time	
Anti-demolition alarm	Detecting from dark to bright, send alarm to the platform

3 Installation

Product installation process

1.Device installation
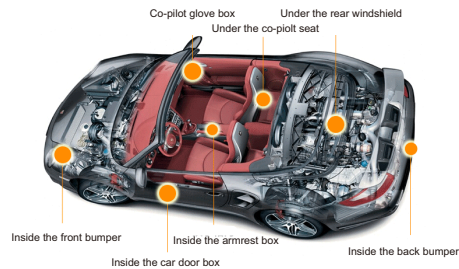Check device shell and its accessories before installation

2.Install SIM card
Turn on the device and place the SIM card in the card holder. Please avoid damaging the card holder with excessive force, and do not insert or remove the SIM card when the device is powered on. Please make sure that the SIM card has Internet access.

3.Select terminal installation location requirements
Waterproof: Please choose somewhere is waterproof. Be careful to let device stay away from the air conditioning outlet to prevent condensate water from accumulating, which can avoid damaging the service life of the product.
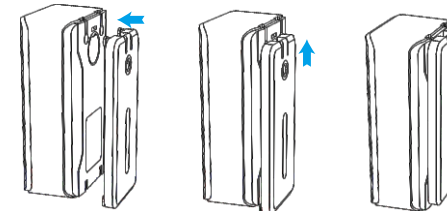
Shakeproof: Do not install the device in the position with large vibration amplitude.

Tamper-proof: GPS device should be away from electronic equipment to prevent signal interference.

Co-pilot glove box
Under the rear windshield
Under the co-pilit seat
Inside the front bumper
Inside the armrest box
Inside the back bumper
Inside the car door box

Strong magnetic installation
No need to install, no wiring pains, the back cover of the device is equipped with strong magnet, which can be adsorbed to the place with metal, the strong magnet is also very convenient to remove.

4 Common problems and solutions

Please contact to sales when you cannot handle problems.

Common problems	Fault description	Solutions
Poor signal	Some poor signal areas like basement, tunnels are not able to acquire GPS signal.	Use the device where the signal is good
Unable to boot	Low battery	Replacement battery
	Fuse blown	Contact the dealer to replace the fuse of the same specification and model
Cannot connect internet	SIM card not installed	Check the SIM card and reinstall
	Dirt on the metal surface of the SIM card	Please wipe with a clean cloth
	Damaged or invalid SIM card	Please replace a valid SIM card
	Out of GSM service area	Please move to a place with strong signal and try again
Cannot find location information	SIM card does not open GPRS service	Please contact the network service provider to open GPRS service
	SIM card arrears	Recharge fee
Send command to modify the parameters without changing	Command format error	Please re-edit the command and send again
	Send command without reply	The terminal has been woken up, can connect to the network normally and activate the terminal SIM card SMS function

5 LED Indicator

Indicator	LED Indicator Status
GSM LED indicator (Red)	No light: abnormal communication, damaged light, power switch OFF or sleep
	Long light: GPRS has no signal or cannot register on the network
	Slow flashing (on for two seconds and off for two seconds): GPRS has signal but not online
	Fast flashing (2 times/sec): The terminal goes online normally
Location LED indicator (Yellow)	No light: the positioning module is damaged, the power switch is OFF, or the sleep state
	Long light: the terminal works abnormally
	Slow flashing (on for two seconds and off for two seconds): The terminal has searched for satellite signals, but there is no effective positioning
	Slow flashing (on for 0.2 seconds for 3 seconds): the positioning module sleeps
	Fast flashing (2 times/sec): effective positioning of the terminal