



深圳市龙桥科技发展有限公司

SHENZHEN DRAGON BRIDGE TECHNOLOGY CO., LTD.

Application : Rental cars, insurance cars, trucks, buses

Wireless Fleet management Solution Innovator

GSM/GPRS/GPS Tracker

User Manual

LTS-100DST 4G



Contents

| | |
|--|---|
| 1 Introduction | 2 |
| 1.1 product description | 2 |
| 2 Product Overview | 2 |
| 2.1 Product accessories | 2 |
| 2.2 Interface Definition | 2 |
| 2.3 Field of application | 3 |
| 2.4 Product accessories | 3 |
| 2.5 Function | 3 |
| 2.6 Specification Description | 3 |
| 3 Instructions for use | 4 |
| 3.1 SIM card installation and device start up | 4 |
| 3.2 Device LED light status | 5 |
| 3.3 Equipment charging | 5 |
| 3.4 SMS command | 6 |
| 3.5 Query device status | 7 |
| 4 Monitoring platform applications | 7 |
| 4.1 Real-time monitoring, network / mobile check car | 7 |
| 4.2 Track playback | 7 |
| 4.3 Report Statistics | 7 |
| 4.4 Customer Service | 8 |
| 5 Trouble shooting | 8 |

1 Introduction

1.1 product description

The LTS-100DST 4G GPS TRACKER Tracker combines GSM wireless communication technology and GPS global positioning system technology, using industrial-grade fire protection materials, six 18MM × 3MM strong magnetic devices, IPX-5 waterproof design, built-in 10400MAH large-capacity battery, Solar panel charged device, Through the SMS and global positioning service platform for remote target positioning and monitoring management. Magnetic free installation design, easy to use.

2 Product Overview

2.1 Product accessories

| Items | description |
|-------------|---|
| Main device |  |

2.2 Interface Definition

Host interface



2.3 Field of application

- Car Rental / Small Fleet Management
- Outdoor activities
- Guardianship of children/elderly people/disabled persons/valuables
- Personal security
- Staff Management
- Tracking and positioning
- Animal Protection and Range Management

2.4 Product accessories

- 5V 10400MAh Charger One (Solar version)
- One charging line
- Use guide and warranty card
- One GPS TRACKER tracking device

2.5 Function

Powerful magnet
Solar charged
Electronic Fence
IPX-5 waterproof design
Light sense alarm
Vibration alarm
Speeding alarm
Low-power alarm
Remote Monitoring
Real-time Tracking
Historical route
Free Installation
AGPS

2.6 Specification Description

| Item | specification |
|-------------------------|-------------------------------|
| Power supply | Battery powered |
| Charge | Solar charging & USB charging |
| Operating voltage range | DC 3.4V - 4.5V |
| Working current | 4V/average 35mA |
| sleep current | 4V/less than 5mA |
| Charging voltage | DC 5V/10400mA (MICRO USB) |
| Built-in battery | 10400MAH |

| | |
|----------------------------|--|
| Size | 110mm*77mm*26mm |
| Weight | 410g |
| Operating temperature | -20° to 55° C |
| Working humidity | 5% to 95% Non-condensing |
| GSM module | Quad-band GSM 850/900/1800/1900Mhz Support 4G CAT 1 network |
| GPS chip | TD1030 GPS+ BeiDou Dual Mode Positioning Chip |
| GPS sensitivity | --162Db |
| GPS frequency | L1, 1575.42 MHz |
| C/A code | 1.023 MHz chip rate |
| Channels | 56 channel all-in-view tracking |
| Position accuracy | 10 meters, 2D RMS |
| Speed accuracy | 0.1 m/s |
| Time accuracy | Satellite time 1 microsecond synchronization |
| Default data | WGS-84 |
| Update time | Average 0.1 sec. |
| Hot Start | Average 1 sec. |
| Warm start | Average 30 sec. |
| Cold start | On average 32 sec. |
| maximum height | 18,000 meters (60,000 feet) max. |
| Maximum speed | 515 meters/second (1000 knots) max. |
| Maximum acceleration | Less than 4g |
| Instantaneous displacement | 20 m/sec |
| Standby time | 100 days |
| LED lights | 3 LED lights show charging, GPS, GSM status |

3 Instructions for use

3.1 SIM card installation and device start up

3.1.1 Open the packing box and check whether the device model is correct and the accessories are complete. Otherwise, please contact your dealer.

3.1.2 SIM card selection, the device needs to insert a GSM SIM card, GSM card Unicom or mobile optional (Global GSM network)

3.1.3 Installation of the SIM card, disassemble the device waterproof plug, according to the label, insert the SIM card chip downwards into the card slot, and put on a waterproof plug.

Note:

- (1) The card is automatically turned on;
- (2) The device SIM card needs to enable the GPRS function;
- (3) The equipment SIM card needs to enable the caller ID display function (open or not open according to the function required by the customer);
- (4) If your SIM card is turned on and you are asked to enter your SIM PIN, please refer to your phone's user manual to switch the SIM PIN feature off;
- (5) Please make sure the equipment SIM card has a fee.
- (6) To avoid burglar damage, equipment selection should be concealed as much as possible;
- (7) Avoid placing with sources, such as reversing radars, anti-theft devices and other telematics equipment;
- (8) The device has a built-in GSM antenna and a GPS antenna. It should be installed face up (towards the sky) and there should be no metal shielding shielding.

3.2 Device LED light status

3.2.1 Red light - charging indicator

| The status of the light | Meaning |
|-------------------------|------------------------|
| Long bright | Charging / normal work |
| not bright | Charging full/off |

3.2.2 Yellow Lights - GSM Indicatorss

| The status of the light | Meaning |
|-------------------------|---|
| Flash once in 2 seconds | GSM initialization |
| Long bright | GPRS communication is normal/already online |
| not bright | GSM dormancy |

3.2.3 Blue light - GPS indicator

| The status of the light | Meaning |
|-------------------------|-------------------------|
| Flash once in 2 seconds | GPS signal search |
| Long bright | GPS has been positioned |
| not bright | GPS sleep |

3.3 Equipment charging

Each time the device is charged, charge it for more than 20 hours. Please use the original charger and battery.

Note:

- (1) The battery of this product contains chemical components. Please do not use force to beat, prick and put into fire
- (2) Please charge in time to ensure the normal operation of the equipment.

3.3 Master Control Number Settings

3.3.1 The master number can only be bound to one, and the last bound master number is valid.

3.3.2 The default master control number password is: 123456;

3.3.3 The command to set the master control number is: admin123456 13712345678 reply: admin ok;

3.3.4 modify the master control number password command: password123456 666888 (666888 for the new password) Reply: password ok.

Note: The GPS TRACKER sets the parameters via SMS. The master control number sends the SMS code to the device's SIM card number. The separated symbol is a comma. The comma in the following function parameter setting instruction format is the English input state format.

3.4 SMS command

When using a mobile phone to send a short message code to the SIM card number of a GPS vehicle communication terminal, the space bar is the space bar. The comma in the following SMS command format is the English input state format, and the letters are case-sensitive according to the command requirements.

| Common query functions | SMS command format | Device reply |
|--|--------------------------|---|
| Center number settings | 101#13712345678# | OK |
| Terminal status query | CXZT | Reply to device status, software version, ID number, GPS signal value, GSM signal value, battery power, ICCID number, IMEI number |
| Chinese address query | 123 | Address |
| Longitude and latitude link query | G1234 | Google Link Map |
| APN settings | apn123456 cmnet | apn ok |
| Username command format corresponding to APN | apnuser123456 user | spnuser ok |
| Password instruction format corresponding to APN | apnpasswd123456 password | apnpasswd ok |
| Ignition movement upload time setting | freq,123456,20 | OK |

| | | |
|---|--|-----------|
| Turn off the static upload time setting | static,123456,120 | OK |
| Server IP modification settings | IP space IP address space port number example : IP 106.3.230.234 8185 | set IP OK |

3.5 Query device status

SMS command: CXZT

GT25_MC25_LQ_TQ_V_1_1_20220901

ID: 6170697545

IP: :lqkj.yzxgps.com 7018

BAT: 85%

APN: CMMTM

Mode:

UP: 120

GPS: A-30-00

GSM:20

The order is: device software version; ID; IP; BAT: power level; move: work mode, M is single, A is Automatic, C is continuous; UP: Upload interval; GPS: GPS signal value; GSM: GSM signal value.

4 Monitoring platform applications

4.1 Real-time monitoring, network / mobile check car

GPS+LBS dual-mode positioning, GPS positioning accuracy of 2 meters, with GPS signal GPS positioning, no GPS

Location of the signal is localized by LBS base station, dual mode automatic switch, keep your device always online, ensure your monitoring

365 days x 24 hours is online.

Platform real-time monitoring: Computer Internet access monitoring platform

4.2 Track playback

Login platform, click on the historical track playback function

4.3 Report Statistics

The logistics company can use this software to set the departure time, route notifications, line alerts, and area of the monitored goods.

Alarms, collision alarms, rollover alarms, driving speeds, etc. We will comprehensively analyze the status of goods in transit and issue statements.

Landing platform, point report statistics.

4.4 Customer Service

Windows, Android, Ipad, Iphone, Wechat Customer Service Please download to the dealer service platform.

Client applications please contact customer service.

5 Trouble shooting

5.1 After the device is installed for the first time, it cannot connect to the background server. The device is not online in the background. Please check the device installation:

5.1.1 Is the device fully charged?

5.1.2 Is the SIM card installed correctly? Refer to the user guide.

5.1.3 Check the status of the LED indicator, please refer to the description of the indicator;

5.1.4 Check if the GPS is positioned. If it is not positioned, go to the outdoor open area for the first time.

5.2 The device is offline in the background

First observe whether the three indicators of the device are normal. In the absence of conditional observation, you can first check the SIM card.

The status is as follows:

5.2.1 dial the device's SIM card number to see if it can hear the phone connected to the sound;

5.2.2 Whether the vehicle does not cover the GSM network signal in the basement;

5.2.3 Observe whether the dropped line area is dropped individually or all to determine whether it is an operator network problem.

5.2.4 Whether the SIM card owes fees;

5.2.5 Has the GPRS service been cancelled (offline on the last day of the month);

5.2.6 Query parameter settings to check if the GPRS transmission interval is correct.

5.3 If the GPS function of the device has been activated but it has not been positioned for a long time, check whether the installation position of the device meets the requirements.

Please refer to the usage guide.

5.4 When the GPS signal reception environment is poor (surrounding tall buildings block the GPS signal), please drive to the sky to open

A wide area to locate, generally takes 1-2 minutes to locate for the first time.