



深圳市龙桥科技发展有限公司

SHENZHEN DRAGON BRIDGE TECHNOLOGYLIDE COMPANY

*Application :Rental cars, insurance cars, trucks, buses*

*Wireless Fleet management Solution Innovator*

*GSM/GPRS/GPS Tracker*

## User Manuel

LTS-3YS 4G



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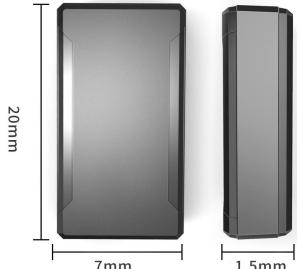
## 1 Introduction

### 1.1 product description

The LTS-3YS 4G is a long stand by ghost GPS device for tracking cars and motorcycles. Track your assets with powerful Panasonic battery, When an emergency occurs, you can enter the continuous tracking and positioning mode to find assets.

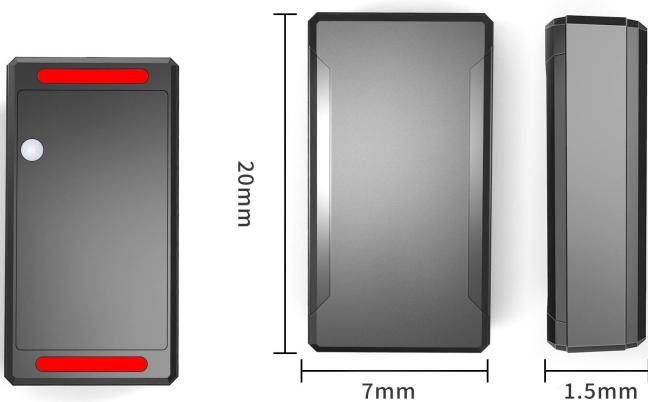
## 2 Product Overview

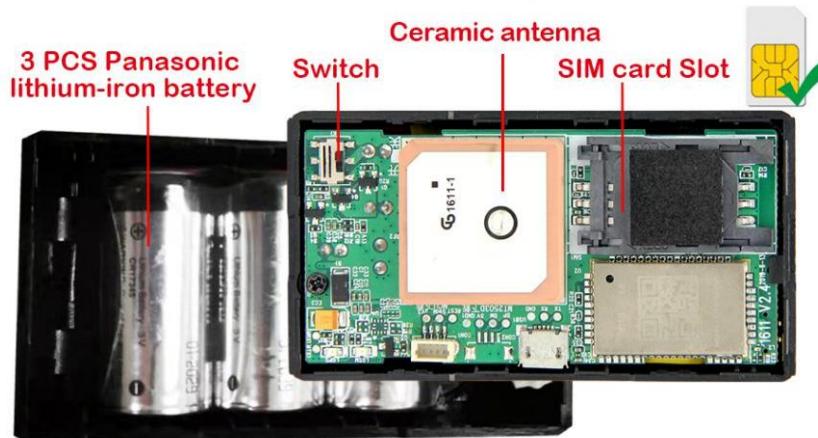
### 2.1 Product accessories

Items	description
Main device	 The diagram shows three views of the main device: front view, side view, and top view. The front view indicates a height of 20mm, a width of 7mm, and a thickness of 1.5mm. The side view shows the device's profile with a thickness of 1.5mm. The top view shows the device lying flat with its dimensions.

### 2.2 Interface Definition

#### Host interface





### 3.Specifications

project	specification
Net work	4G CAT 1 (SIM 7670) SIMCOM A7670C / A7670C/ A7670 SA A7670C: LTE-FDD B1/B3/B5/B8 LTE-TDD B34/B38/B39/B40/B41 GSM 900/1800MHz
Communications network	Support domestic 4G network
communication method	UDP/TCP
communication antenna	4G FPC Antenna
Positioning scheme	(SIM 7670C) integrated
positioning antenna	18mm*18mm*2mm GPS/BD Dual Mode Ceramic Antenna
Targeting	GPS+BDS+LBS+WIFI
Operating Voltage	3V
positioning error	GPS/BD positioning <10M, WIFI positioning error <5M, base station positioning (this data is for reference, base station positioning error is related to base station density)
battery capacity	2800mah
Equipment size	76mm (L)*41mm(W)*22.5mm(H)
equipment	black
equipment weight	90g
Operating temperature	-25°C~+75°C
Storage temperature	-40°C~+80°C
Anti-disassembly method	Photosensitive anti-tamper
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	3 years (working once a day)
LED lights	2 LED lights show GPS, GSM status
Light tamper	yes

## 4. Function

- Support domestic 4G
- Support GPS+BDS+LBS+WIFI+AGPS multi-mode positioning
- Support card slot SIM card or SMD chip card
- Small size, easy to hide
- Magnetic adsorption, easy to install
- Anti-counterfeiting base station detection to reduce the risk of being removed
- Built-in large-capacity lithium-manganese batteries, with ultra-low self-discharge rate and wide temperature adaptability
- Positioning once a day, can work for 3 years
- Light sensor removal alarm
- Three working modes to choose, flexible switching
- Support platform low battery alarm
- Support platform, APP power display
- Support SMS platform and APP remote setting parameters
- Multiple protection of software and hardware to prevent equipment abnormality
- Support web page, APP, WeChat query

## 5. Getting Started

### 5.1 Device Description

1. this product uses high-quality high-tech lithium-iron battery pack, battery life of 15 years, long standby for 3 years,

The upload interval can be arbitrarily set to 10 minutes - 671hours and 59 minutes.

2. the scope of use: rental cars, loan vehicles, logistics vehicles and valuables tracking, positioning.

3. the owner number can only be bound to one, the last binding is valid,  
Instruction: 101# car owner phone number #.

4. the light sense of dismantling the alarm: the device changes from the dark to the bright place or change from the bright place to the dark place, it will automatically start the work once, and will be reported by SMS or platform SOS alarm way, telling the owner of the equipment was removed.

5. Mobile client, check the car website, please contact the dealer.

6. The terminal will start working when you plug in the card. In the absence of any settings, the terminal will work 24 hours a day according to your boot time, once for 3 minutes, and then shut down.

Lamp Type	light status
Communication indicator (yellow)	Blinking: Network connection is being established
	Steady on: The terminal is online normally
	Off: The power switch is OFF or the device goes to sleep
Location indicator (blue light)	Blinking: The terminal searches for satellite signals, but fails to locate effectively
	Steady on: Terminal positioning is valid
	Off: The power switch is OFF or the device goes to sleep

## 5.2 SMS command

1.Insert the SIM card into the terminal, turn the switch to the "ON" position and the terminal will start to work. If there is no setting, the terminal will work once every 24 hours for 2 minutes and then shut down according to the default start-up time.

2. Only one car owner number can be bound, and the last binding is valid. Command: [101#Car owner mobile phone number#](#)

3.Chasing car mode setting (continuous working mode) How to use: You can set the continuous working time, and send a text message before the next automatic power-on Command: [DW005,005](#) means working continuously for 5 minutes, up to 300 minutes can be set, during the working period, you can send the command again to extend Or shorten the car chase time, [DW000](#) will work continuously for an unlimited time (until the battery runs out).

4.Upload interval setting, send SMS command before the next automatic boot: [WS000120](#), 120 means work once every 120 minutes (2 hours),

5.Single group alarm clock setting, send SMS command: [ALA: 0100 0100](#) means report to the platform at 01:00;

6. Set multiple alarm clocks, send SMS commands: **ALA: 0100, 1400, 1000, 2300** means 01:00, 14:00, 10:00, 23:00 and report to the platform

Function details	Function details	parameter settings
Alarm Mode	Set one or more (up to 4 sets of wake-up time) per day, automatically wake up at the set time, and sleep after sending location data	Support platform, APP, SMS settings, device serial port
timing mode	Timed return, the location data will be returned according to the set time	Platform, APP, SMS settings, device serial port
Tamper Alarm	When the light perception at the bottom of the device changes from dark to bright (the device is removed), the device tamper alarm switch will be triggered immediately, and the alarm information will be pushed to the platform	The anti-dismantling alarm can be set to be turned on or off (the device is turned on by default at the factory)

## 6. Precautions

1. Please check the terminal installation:

1) Please use the terminal's original battery. Using any other accessory will invalidate all warranty services.

2) The terminal manufacturer will not assume any warranty liability for any damage resulting from the use of non-original fittings on the terminal;

3) Do not soak the battery in water or put it in a fire, do not bend or force open the battery;

4) Do not disassemble the terminal. Improper handling by non-professionals may result in damage to the device. The battery is a one-time special battery that does not allow charging.

2, the terminal displays the off-line state in the background.

First, observe whether the 3 indicators of the device are normal. Without the condition observation, you can check the status of the card first. The steps are as follows:

1) dial the SIM card number of the device to see if you can hear the call.

2) whether the vehicle has not covered the GSM network signal in the basement.

3) observe the dropped area, whether the individual dropped or all dropped, so as to determine whether it is the operator's network problem.

4) whether the SIM card is in arrears.

5) whether the GPRS service has been canceled (the last day of the end of the month is offline).

6) query parameter settings. See if the device serial number and GPRS transmission interval are correct.

3, if the terminal GPS function has been activated, but it has not been positioned for a long time, please check whether the installation location of the terminal meets the requirements:

1) when the terminal is installed, the GPS antenna should face to the sky.

2) the terminal installation position must be the place where the material (such as metal) is shielded without electromagnetic wave absorption. In particular, attention should be paid to the vehicle glass at the

top of the terminal not attached to the explosion-proof heat insulation film (the high metal components in the film composition will absorb the high frequency electromagnetic wave), otherwise the GPS signal will receive a large attenuation and lead to the positioning accuracy. When it comes down, it can even make it difficult to locate the terminal.

4, when the GPS signal reception environment is poor (surrounded by tall buildings blocking the GPS signal), please drive to the open space to locate the sky. It takes 1-2 minutes for the first time to locate the time.

such as in the basement), please drive to a place where the GSM signal is covered.

## 7. Scenario



## 8.Troubleshooting

Q: Why can't I boot?

A: Please check whether the battery connector is completely connected with the host connector. Use a screwdriver tip to hold the wake-up button for 3 seconds and then release it.

Q: The device cannot obtain the location information?

A: Please place the equipment in an outdoor open space for testing.

Q: How to use sim card?

A: The card needs to support GSM&GPRS and ensure that there are enough fees and traffic in the card.

Q: Can overseas customers use it?

A: Overseas customers need to set the APN before they can use normally. Please edit the SMS “APN123456 cmnet” to send to the device's sim card. The cmnet is the mainland operator APN. For other operators, please replace the corresponding APN. For details, please consult the local sim card. Operators.