



深圳市龙桥科技发展有限公司

SHENZHEN DRAGON BRIDGE TECHNOLOGY LTD COMPANY

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

*Wireless Fleet management Solution Innovator*

*GSM/GPRS/GPS Tracker*

## User Manuel

LLS-300T

4G Solar Fishing Boat Dedicated GPS Tracker



## Table of contents

1. Product Features .....	3
2. Product configuration list .....	3
3. Working instructions of LED lights .....	4
4. Product Diagram .....	4
5. Product parameters .....	5
6. Basic functions of the product .....	5
7. Analysis and troubleshooting of common problems .....	6
8. Matters needing attention .....	7
9. After-sales service .....	9

# 1. Product Features

- GPS+Beidou+LBS triple positioning
- With monocrystalline silicon solar charging board, magnetic auxiliary charging design
- Built-in 20,000mAh high-capacity battery
- IP68 shell waterproof design, anti-salt spray
- Real-time positioning tracking, track playback
- Sports mode, timing mode, multi-working mode
- No need to charge, never power off
- Electronic fence alarm, illegal demolition alarm, vibration alarm, ship capsizing alarm, etc.
- Built-in light sensor and acceleration sensor, anti-demolition thimble, SOS one-key alarm and other functions
- It is suitable for many outdoor occasions where external power supply cannot be used, such as fishery ships, drop trailers, containers, etc.

# 2. Product configuration list

NO.	Name	Quantity	unit	Note
1	LLS300 host	1	tower	
2	manual	1	Book	
3	set screw	1	bag	
4	Warranty Card	1	Book	Instructions attached
5	certificate	1	Book	Instructions attached
6	packing box	1	set	
<b>Note: The above is the standard configuration list of the whole set of products, and the accessories outside the above range need to be paid extra.</b>				

### 3. Working instructions of LED lights

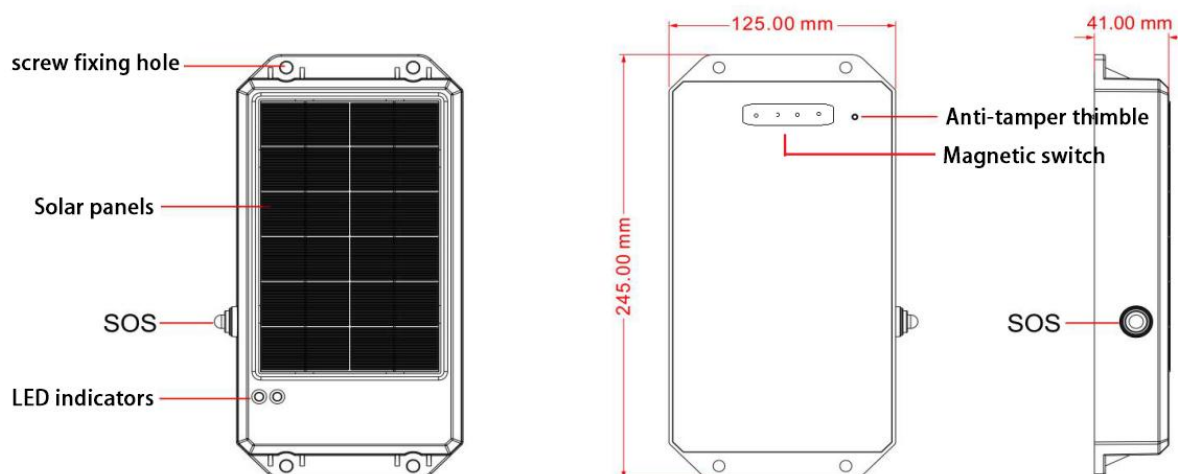
#### ① GPS positioning signal status

Blue light	Meaning
Flash (200mS/time)	Effective positioning of the terminal
Slow flashing (two seconds on and two seconds off)	The terminal searched for satellite signals, but failed to locate effectively
always on	The terminal works abnormally
not bright	The positioning module is damaged, the power switch is OFF or enters sleep mode

#### ② GSM signal status

Red light	Meaning
Flash (200mS/time)	The terminal is online normally
Two seconds on, two seconds off	Mobile signal found
always on	Indicates that GPRS has no signal or cannot register on the network
not bright	Abnormal communication, broken lights, power switch OFF or sleep.

### 4. Product Diagram



## 5. Product parameters

Specifications	Specifications
size	245*125*41mm
weight	1000g (including battery)
Built-in battery	20000mAh
Charging voltage	DC4V ~ 6V
Working current	<100mA
stand-by current	<3mA
Operating temperature	-40°C to +85°C
Storage temperature	-40°C to +85°C
frequency band	LTE FDD: B1/B3/B5/B8 LTE TDD: B34/B38/B39/B40/B41
battery working time	45 days
Solar version	156*98*4mm, monocrystalline silicon, 5V/1A
Waterproof level	IP68 deep waterproof
Positioning error	GPS positioning error <10m

## 6. Basic functions of the product

Content	Function	Illustrate
<b>Location Function</b>	timing tracking	Return positioning information such as latitude and longitude according to the set interval
	remote setup terminal	Terminal parameters can be set through SMS, platform, and client

	Blind spot follow-up pass	When the vehicle is in the 4G signal blind spot, the terminal will automatically save the location data according to the timing return time (when the car is on ignition), and when the vehicle receives the GPRS signal, the terminal will automatically upload the data stored in the blind spot to the center. Can store up to 1500 pieces of data
	Low battery alarm	When the battery power is lower than 20%, the device will report low battery alarm
	electric fence	If the driving range of the car exceeds the specified area, an alarm message will be sent to the platform
	Historical track	It can play back 365 days of driving track, playback speed, direction dwell time, etc.
	Disassembly alarm	When the shell is opened or the device is disassembled, the device immediately reports a disassembly alarm to the platform
	SOS alarm	The device has an external SOS alarm button. When the button is pressed for more than 5 seconds, the device will immediately report an SOS emergency alarm to the platform.
	Ship capsizing alarm	When the set tilt angle exceeds 70°, the device will report a capsizing alarm
	Remote software upgrade over the air	Online remote upgrade terminal

## 7. Analysis and troubleshooting of common problems

This product shows that the blue light and the red light flash quickly to indicate the normal online positioning. If other flashes occur, please follow the steps below to analyze and troubleshoot the fault.

Symptom	Failure Analysis	Approach
Steady red light	Indicates that the GPRS has no signal or cannot be registered on the network and flashes slowly	Drive the vehicle to a location with good signal and use the terminal
red light off	Abnormal communication, broken lights, power switch OFF or sleep	Ask a technician
blue light off	The positioning module is damaged, the power switch is OFF or enters sleep mode	Please drive the vehicle to a place with a good network signal and try to reinstall
Blue light is always on	The terminal works abnormally	Ask a technician
Slow flashing blue light	The terminal searched for satellite signals, but failed to locate effectively	Put the device in the open

## 8. Matters needing attention

1. Please pay attention to waterproof for electronic products.
2. Please insert the SIM card before installation to ensure that the SIM card does not have a password, otherwise the device will not work properly.
3. The USB port on the terminal device is only for factory testing, it is not a device charging port, please do not use it for charging or other purposes.
4. The top of the installation location must be a place that is not shielded by substances that absorb electromagnetic waves (such as metal, explosion-proof heat insulation film).
5. Do not expose the device to liquids or operate with wet hands.
6. Do not throw the device into fire.
7. The device may not work when the temperature is lower than  $-40^{\circ}\text{C}$  or higher than  $+85^{\circ}\text{C}$ .
8. When the vehicle is in an underground parking lot, tunnel or garage, it will affect the positioning signal. And there may be a blind area of the communication

network signal that makes the equipment unable to monitor; when the vehicle leaves the above area, the equipment will automatically resume normal operation.

9. In case of abnormal situation, please do not repair it by yourself. The manufacturer is not responsible for damage caused by connecting non-original accessories or unplugging the connections between the various parts.

10. This product is a safety driving assistance product, and any loss caused by failure or information loss has nothing to do with the company.

11. This product has passed the international CE certification, but because of the complex electromagnetic environment in the car, this product may cause electromagnetic interference with the electrical equipment in the car in some models.

12. Do not install or operate this product while the vehicle is running.

13. Do not connect the uninterruptible power supply without authorization, otherwise it may cause car or product failure. Please consult a professional for installation matters.

14. Do not subject this product to strong shock or vibration, so as not to damage the product, resulting in malfunction or unusability.

15. The temperature range for normal use of this product is -40 degrees Celsius to 80 degrees Celsius. Exceeding this temperature range may cause product failure, fire or explosion.



## 9. After-sales service

1. This product enjoys a three-month replacement guarantee and a one-year warranty service from the date of shipment. If the equipment is damaged due to non-human factors or product quality during the warranty period, please contact the dealer in time to deal with it.
2. The damage caused by the customer's unauthorized dismantling or force majeure (such as flood, vehicle accident) will not be repaired.
3. After the warranty period expires, due to product damage and failure caused by use, the cost of maintenance materials needs to be charged.
4. Provide customers with consultation and technical services such as product purchase, use, and APP installation for free.