

# Locator

## Product Specification



**Product Name:** Locator

**Product Model :** O301

**VER:** Version 1.0

**Manufacturer:** Shenzhen Omni Intelligent Technology Co., Ltd.

## 1 Product Overview

The pet locator is used for pet tracking and positioning; The terminal has 4G network remote control, GPS real-time positioning, Bluetooth communication, mobile detection and positioning tracking. The terminal interacts with the background and Bluetooth and mobile app through 4G network to realize real-time position monitoring of pets.



## 2 Product Features

The Built in large capacity rechargeable polymer lithium ion battery with long working time.

The Built in microphone for voice monitoring.

The Built-in three-axis accelerometer can realize the movement detection function.

The Built-in GPS positioning module can quickly determine the pet's position.

The Built in WiFi and Bluetooth communication functions, which can directly communicate with mobile app.

The Built in nano SIM card 4G wireless communication module, which can report real-time location and other information through the operator's wireless network IP67 waterproof grade.

## 3 Technical Parameter

### Basic parameters

| Item                      | Description                                                                          |
|---------------------------|--------------------------------------------------------------------------------------|
| Input Voltage             | 4.9-5.5VDC                                                                           |
| Input Current             | $\geq 1000\text{mA}$ (5VDC )                                                         |
| Battery Voltage /Capacity | 3.7V/1200mAh Rechargeable polymer lithium ion battery                                |
| Battery Life              | $\geq 20\text{hour}$ (It depends on data reporting frequency and network conditions) |



|                     |                                                    |
|---------------------|----------------------------------------------------|
| Working Temperature | -20~+60℃                                           |
| Waterproof grade    | IP67                                               |
| Shell material      | PC+10%GF                                           |
| Overall size        | length, width and height: 70.5mm × 34.4mm × 21.9mm |
| Rope length         | Adjustable max. 40cm                               |
| SIMCard             | NANO-SIM card                                      |

## 4G network parameters

| Product version        | Use area      | 4G network parameters |
|------------------------|---------------|-----------------------|
| North American Edition | North America | B2/B4/B5/B7/B12/B13   |

## Position parameter

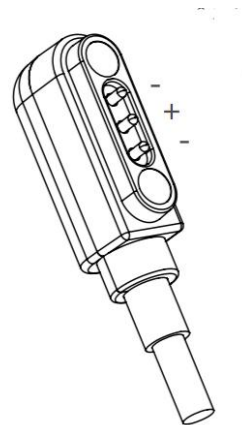
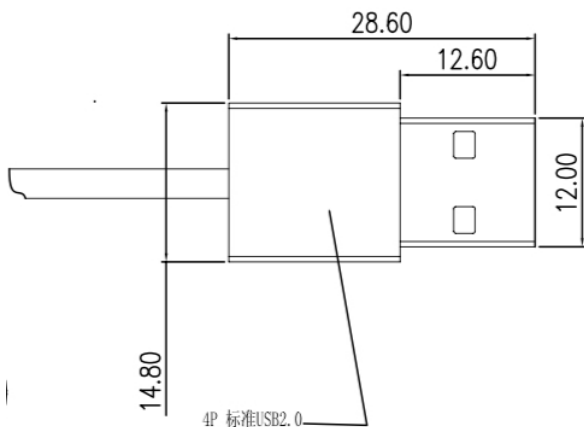
| Item                   | Description                                                                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Positioning mode       | GPS, GLONASS, BeiDou, Galileo, WiFi assisted positioning                                                                                                |
| Receiving sensitivity  | -158dBm                                                                                                                                                 |
| Start time             | Cold start is less than 120 seconds and hot start is less than 30 seconds (open ground, sunny days, no shelter, including coordinate optimization time) |
| Positioning accuracy   | ≤15m (open land, no shelter in sunny days)                                                                                                              |
| Positioning conditions | The number of search satellites $\geq 4$ , and the SNR is greater than 30dB                                                                             |

## Bluetooth parameters

| Item                   | Description       |
|------------------------|-------------------|
| Working Frequency      | 2.4GHz            |
| Bluetooth version      | BLE5.2            |
| Communication distance | ≥ 10m (open area) |

## Charging line and interface

| Item              | Description |
|-------------------|-------------|
| Length            | 950mm       |
| External Diameter | 3mm         |



## 4 Basic Function Description

### Location

It supports single positioning, continuous positioning, tracking and positioning modes, and the moving track recording can remotely issue instructions to obtain the current vehicle position information. Support GPS, GLONASS, Beidou, Galileo and WiFi assisted positioning.

### 4G communication

Through the server command, you can remotely obtain the pet's location, battery power, temperature and other information

## OTA upgrade

Support remote firmware upgrade and Bluetooth upgrade through the server.

## Movement detection

It can be positioned according to whether the pet moves on or off, so as to save power

## Security fence

When it exceeds the set activity range, the locator will automatically push the message to the app through the network to realize the alarm of pet movement beyond the area

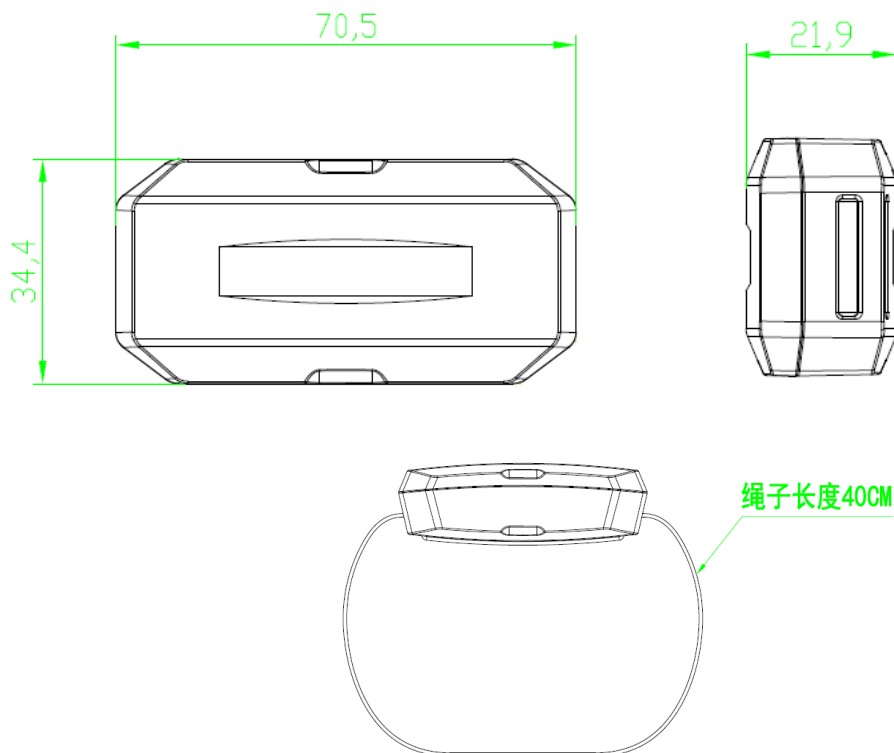
## Moving track recording

You can view the pet's moving route within a certain period of time through the app

## Tracking and positioning

You can view the real-time location of user terminal (mobile phone) and pets through app to quickly find pets

## 5 OutlineDimension





## **FCC Warning Statement**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **FCC Radiation Exposure Statement**

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.