JM-LL02
LTE CAT M1/NB2 ASSET TERMINAL

USER MANUAL(V1.0)
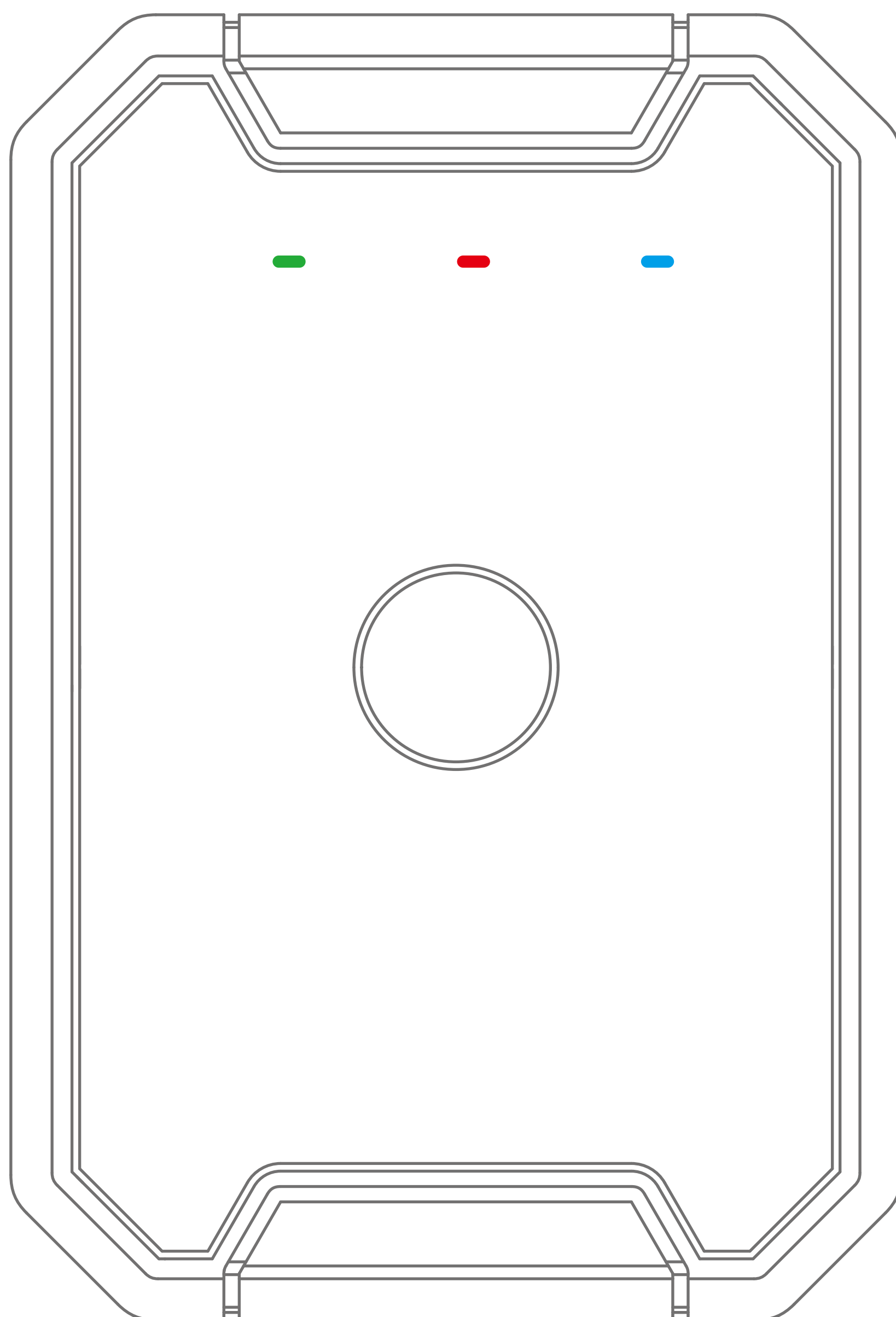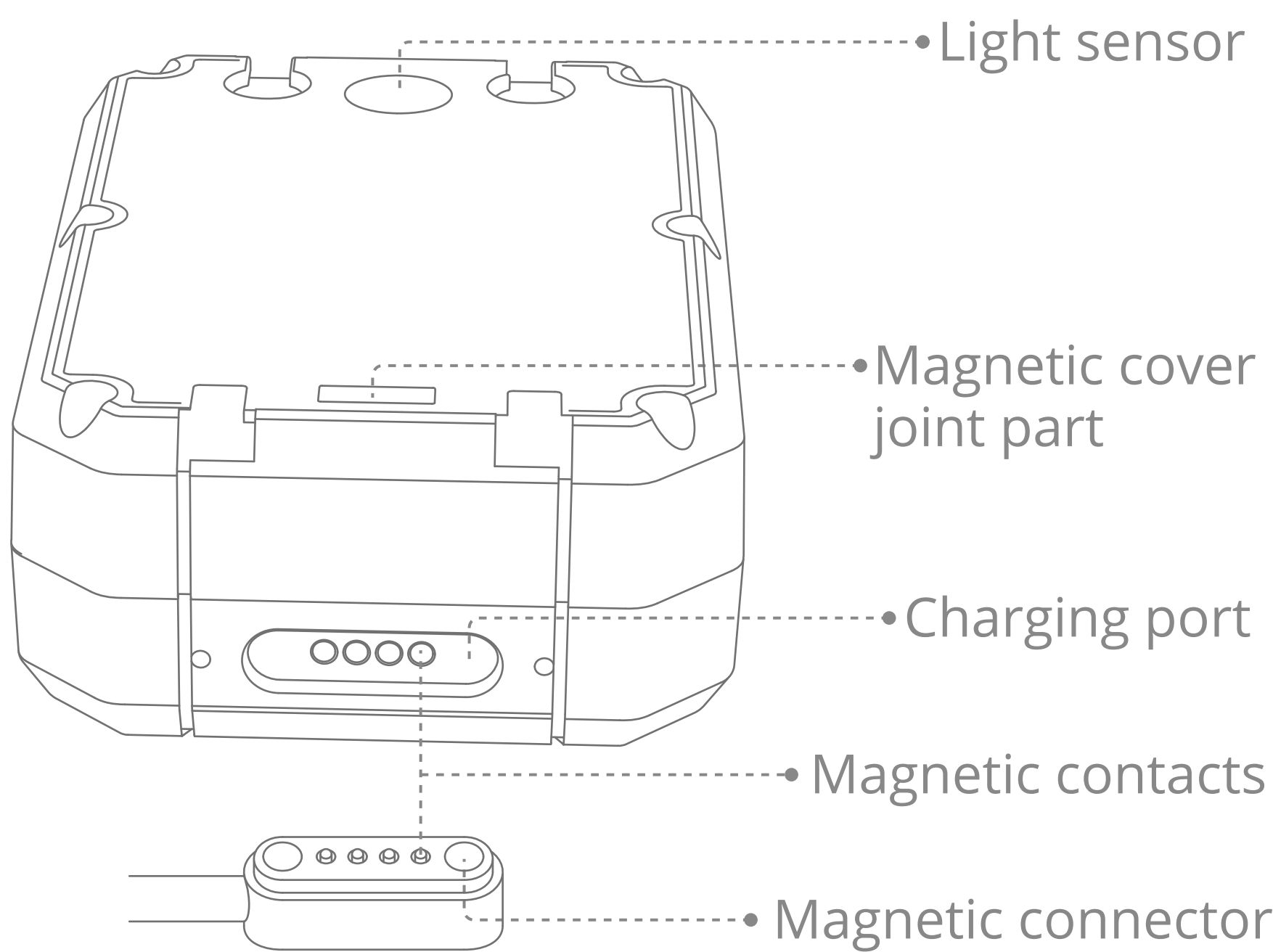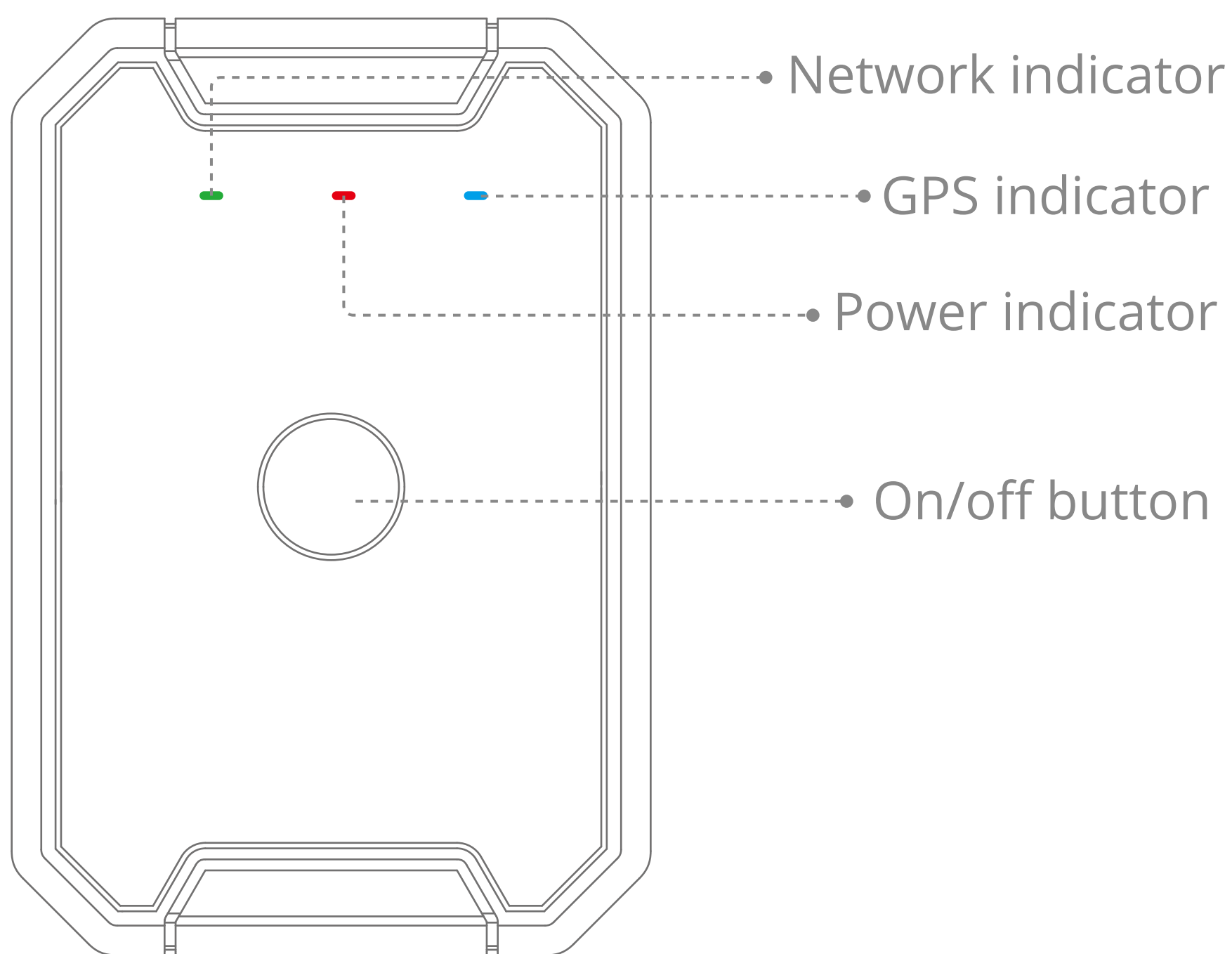
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01/Product overview

Network indicator

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Light sensor

Magnetic cover joint part

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Magnetic connector

- GPS + WIFI + LBS positioning
- Geo-fence alert
- Tamper alert
- 6,000mAh battery powered
- IP67 dust and water resistant

- Real-time location query
- Vibration alert
- Strong magnet cover
- Magnetic charging
- Bluetooth configuration

02/Standard parts list

Item	Device	Magnetic cover	User guide	Charger	Charge cable	Tool
Quantity	1	1	1	1	1	1

03/Specification

Frequency band	LTE M1/NB2：B2/B4/B5/B12/B13/B66 GSM：850/1900MHz
TTFF(opensky)	Avg. Cold start: <40sec Avg. Hot start: <1sec
Location accuracy	< 10m
Dimensions	85 X 58 X 29 mm
Weight	6000 mAh,37V Li - Polymer battery
Operating Temperature	-20°C to+70°C
Transmit Protocol	TCP

04/LED indications

Power Status (Red)

Quick flicker (0.3s on, 0.3s off)	Low battery
Moderate flicker (1s on, 3s off)	Fully charged
Slowflicker (0.1s on, 3s off)	Normally working
Solid on	Charging
Solid off	Low battery voltage or battery failure

GNSS Status (Blue)

|	
Quick flicker (0. 3s on, 0. 3s off)	Searching GPS
Slow flicker (0.1s on, 3s off)	GPS connected successfully
Solid off	GPS is in sleep mode,or not active

Network Status (Green)

Quick flicker (0.3s on, 0.3s off)	GSM initializing
Moderate flicker (1s on, 3s off)	GSM connected successfully
Slow flicker (0.1s on, 3s off)	GPRS online
Solid on	Calling

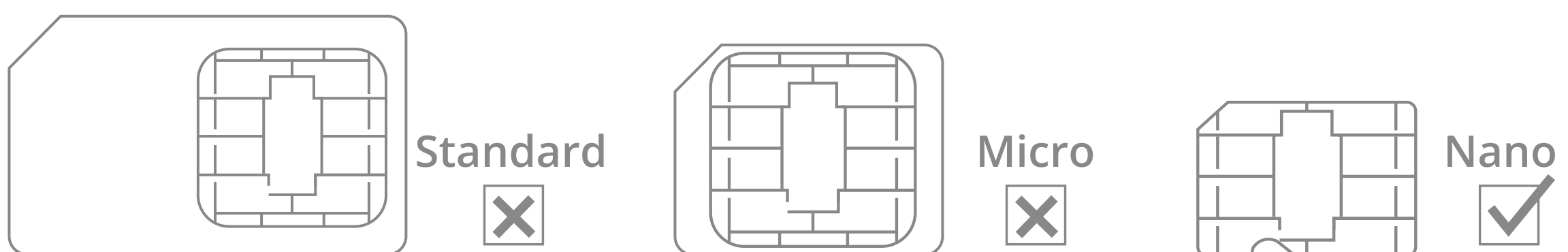| Solid off	No GSM signal/ No SIM card

05/Charging

Please charge the device by original 5V/2A charger. It takes about 3 hours to fully charge the device.

Charging LED
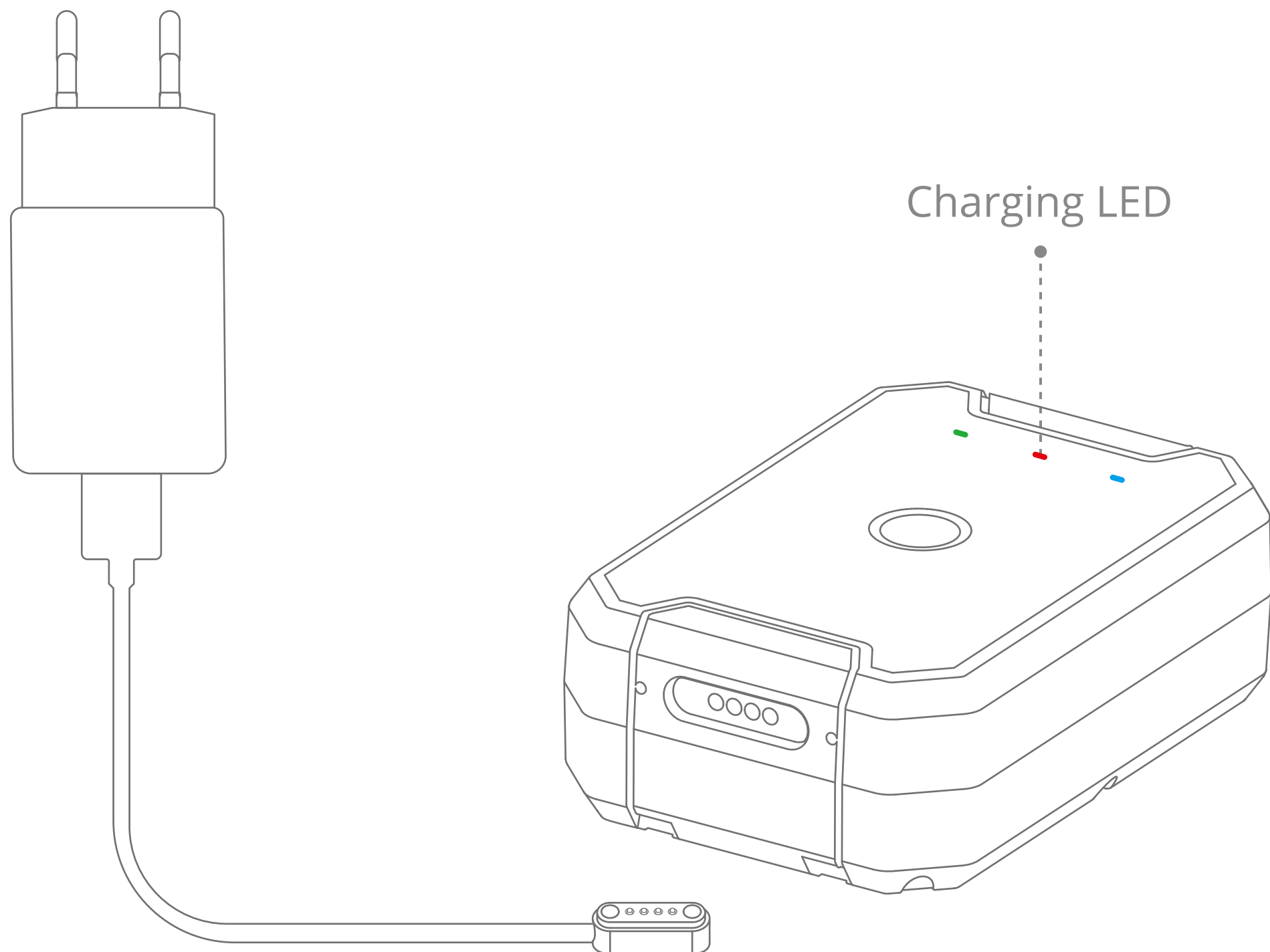
06/Product setup

Insert SIM card: Please use a screw driver to remove the screws and open the case to insert a SIM card (Size: Nano).

Standard ✗   **Micro** ✗   **Nano** ✓

Power on: Press and hold the ON/OFF button for 3 seconds, and the LEDs will flicker regularly if the device power on successfully.

Power off: Press and hold the ON/OFF button for 3 seconds and the LEDs will be off in 2 seconds.
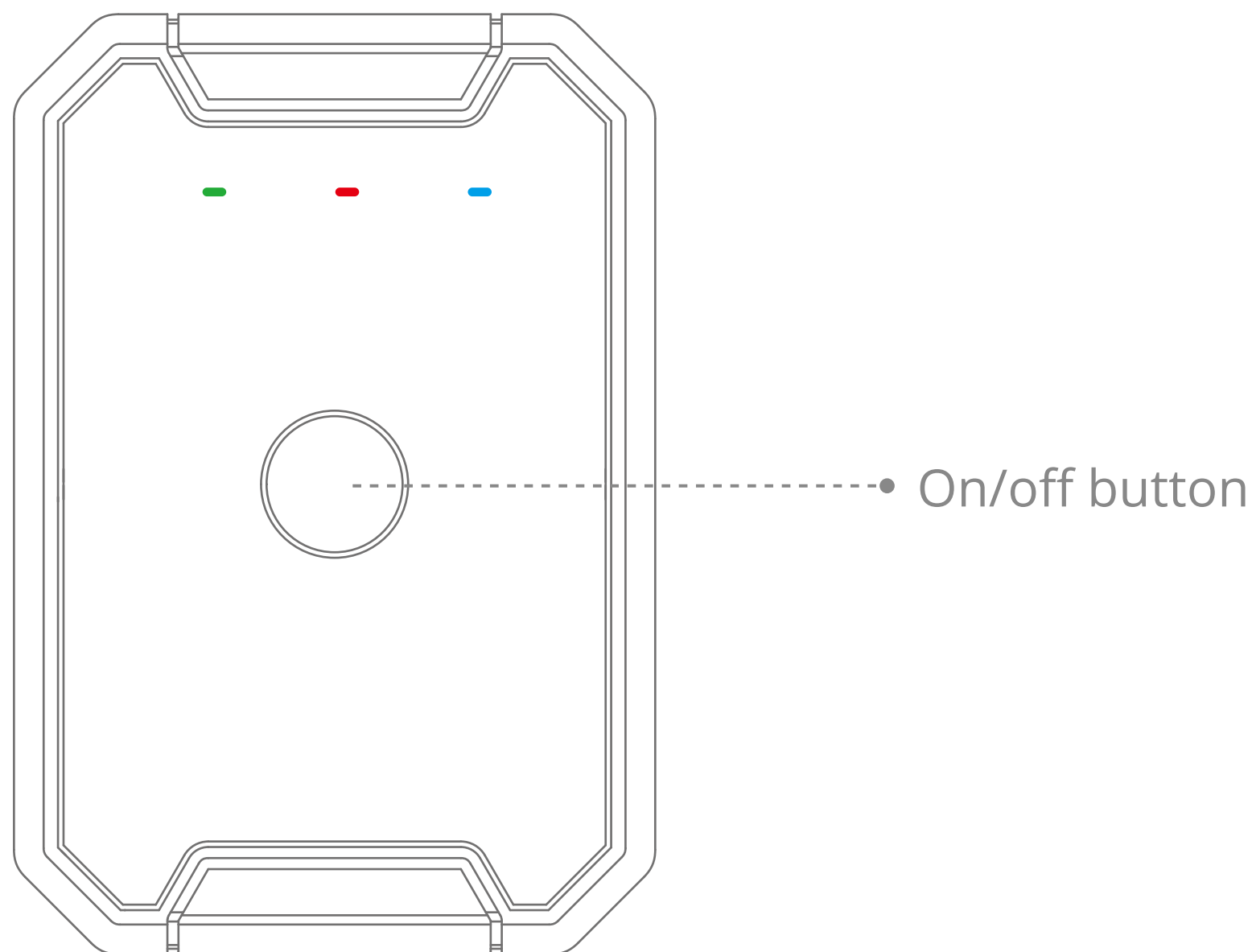
• On/off button

Note:

1. Press the ON/OFF button and the LED will flicker for 15 seconds if the device power on successfully.

2. Press the ON/OFF button and nothing will happen if the device power off successfully.

07/Configure the device

Method 1 :

Use your mobile phone to send commands to the device SIM card number by SMS, please refer details of the commands in Commands list section .
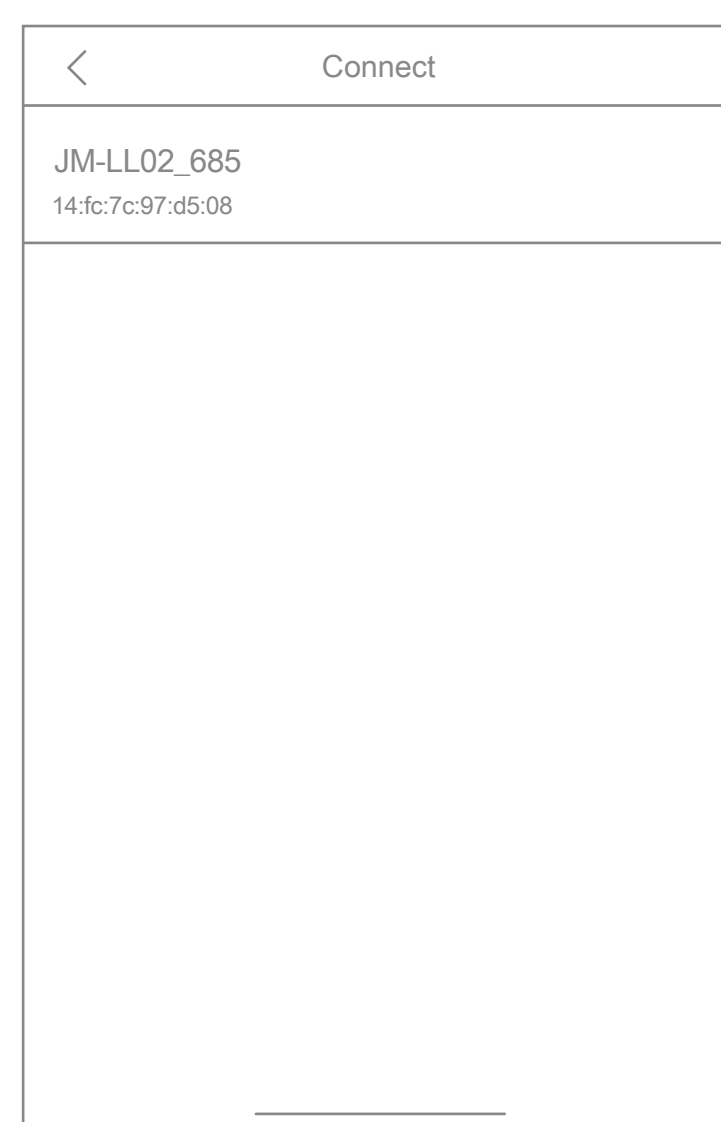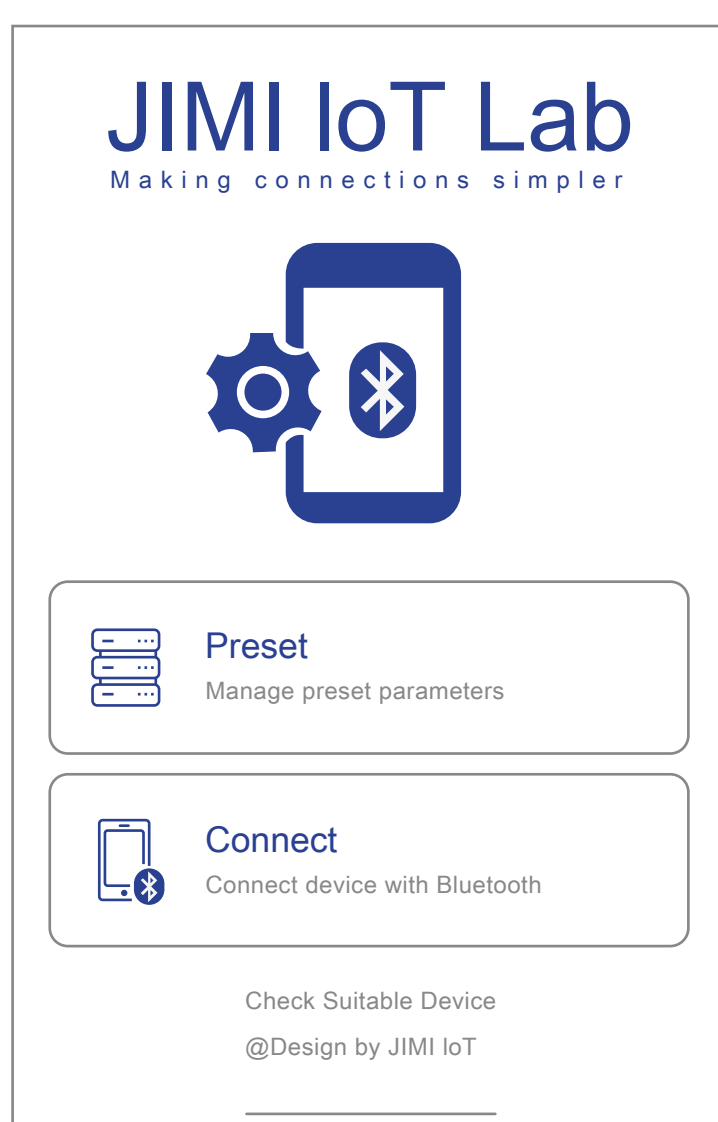
Method 2 :

1. Download and install the "Jimi IoT Lab" app by the following link: http://d.6short.com/lnbr.
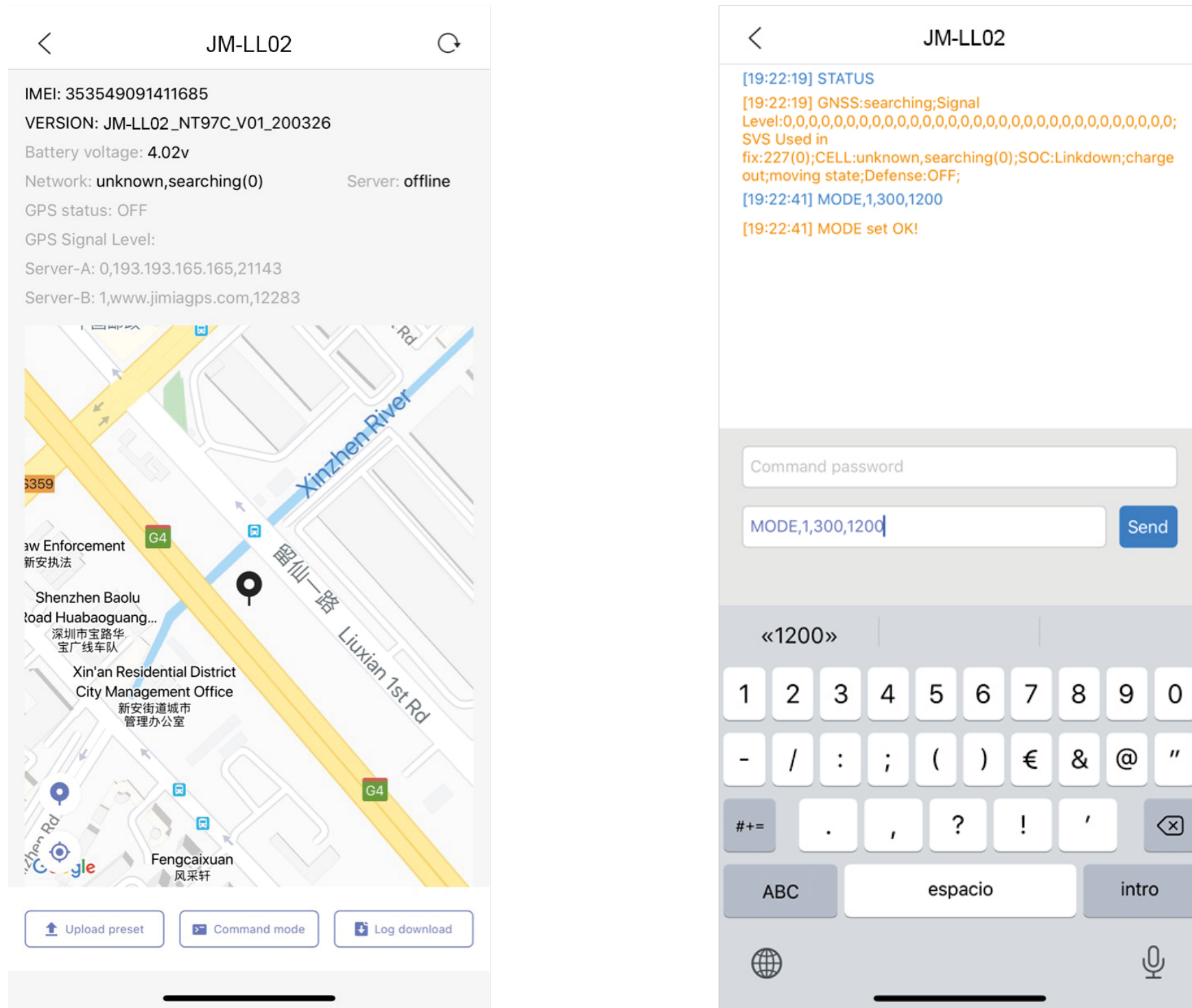

For iOS 9 and above Only

2. Make sure the Bluetooth is enabled on your iPhone, choose Connect on landing page.

3. Power on LL02 and then short press the power button for 3 times, the device name will automatically show on Connect page, tap on it to connect.

4. After the device is connected successfully, you can view the basic data of the device, click "Command mode" button at the bottom can enter the command setting page.

5. Type and send the command to query and and make configurations. The device has no password by default, you can set password (See details in command list) to secure the device. If the password has been set, each command will need to be sent with the password filled.

6. In "Jimi IoT Lab" app landing page, you can create a template with multiple commands in Presets page, when the device is connected you can tap the "Upload preset" button instead to send multiple commands that you created in Presets at a lime.

08/Command List

| Command	Usage	Instructions
APN	Set APN	APN, ApnName# or APN, ApnName,User,Password# Auto set APN will be turned off when set APN manually. APN# Query current APN
ASETAPN	Auto set APN	ASETAPN,X# X=ON/OFF, ON:Enable auto set APN, OFF:Disable auto set APN ASETAPN# Query auto set APN settings

ASETGMT	Auto set time zone	ASETGMT,<X># X=ON/OFF, ON:Enable auto set time zone, OF:Disable auto set time zone ASETGMT# Query auto set lime zone settings
SERVER	Platform server setting	SERVER, 1,domain name,port# SERVER,0,IP,port# Default:SERVER, 1,GPSDEV. TRACKSOLID.COM,21102# SERVER# Check the current sever settings
GMT	Time zone setting	GMT,A,B,C# A:E/W; E for eastern, W for western; Default: E B:0-12, time zone;Default:8 C:0/15/30/45; half time zone; Default:0 GMT# Query current time zone setting
MODE	Set working mode	MODE,A,T1 ,T2# A=1-2;1:Tracking mode, 2:Ultra power saving mode;Default:1 When A=1, T1:Report interval of GPS data in moving status, range: 10-3600 seconds; default: 10 T2:Report interval of GPS data in static status, range:180-86400 seconds;default:0 When A=2, T1:start time of the report, format:HH:MM T2:time interval, range:1-72 hours, default:24 MODE# Query the current working mode setting
HBT	Heartbeat packet interval	HBT,T# T=1-10 minutes, heartbeat packet interval, Default:3 Minutes; HBT# Query the current heartbeat interval

PWDSW	Set command password	PWDSW,A# A=ON PWDSW,A,B# A=Numbers and alphabets, 1-19 digits;Default:666666 B=OFF When PWDSW is ON, all the command has to send with the password as the first parameter, e.g.:MODE,666666, 1,30,30# PWDSW# Query current password selling
PASSWORD	Modify command password	PASSWORD,A,B# A=Old password, Default:666666 B=New password
CENTER	Set center number	CENTER,A,Number 1,Number 2, Number 3# Add center number CENTER,D, 1, 2, 3# Delete center number according to the serial ID CENTER,D,Number# Delete center number according to the matched number CENTER# Query the current center number
PWRLIMIT	Power OFF limitation	PWRLIMIT,ON # X=ON/OFF;ON:Not allow to power off with the device button, OFF: Allow to power off with the device button; PWRLIMIT# Query the current PWRLIMIT setting
RESET	Reboot the device	RESET# The device will reboot in 20 Seconds when receive this command
FACTORY	Recover the settings to factory	FACTORY# Recover all the settings to factory (Except server and APN) Query the current center number

PARAM	Query device parameters	
GPRSSET	Query platform server and APN Setting	
STATUS	Query status	

09/Installation recommendation

Under rear windshield

Under front windshield

Device

Device

Device

•Around dashboard
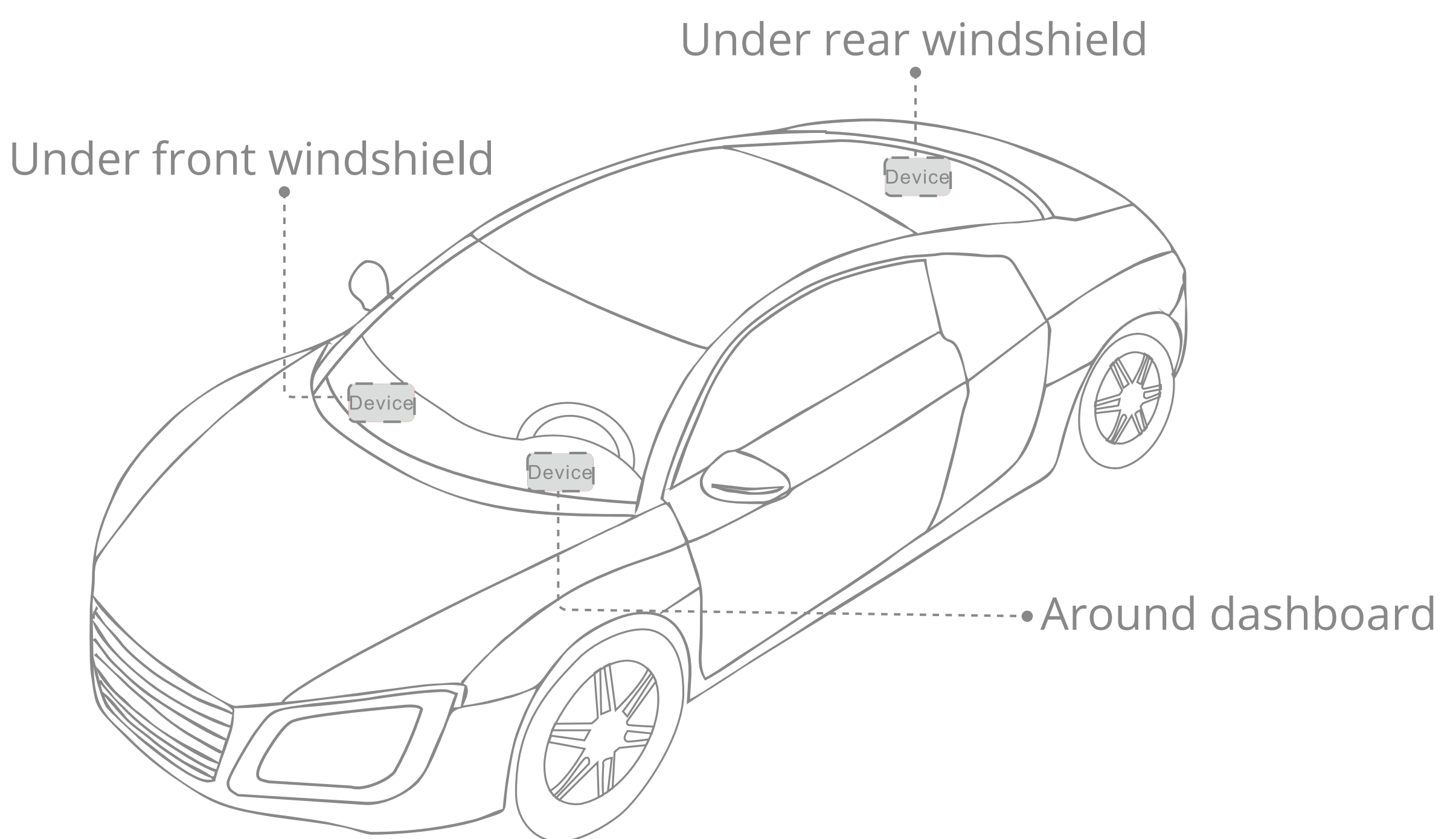
1. The device should face up to the sky.

2. Metal thermal barrier or heating layer of the windshield affects the signal. Please change installation position to receive better signal.

10/Web Platform & App

1. Please login the designated service platform provided by your distributor to track and operate the device

2. Please download and install the APP in designated website, iOS App store or Google Play store.

11/Troubleshooting

Type	Use
Unable to connect to tracking platform	Check theAPN and IP settings. Check whether the data service of SIM card is enabled. Check the balance of SIM card.
Tracker shows offline	Check if the device entered network blind area. Check the balance of SIM card.
Unable to locate	Make sure the top side facing upward without metallic things shielded. Make sure it's not in area with no satellite coverage.
Unable to boot	Check whether the battery is exhausted. Check whether the SIM card is inserted.
No command reply	Make sure command format is correct. Vehicle may be in network blind area.

12/Warranty instructions and service

1. The warranty is valid only when the warranty card is properly completed, and upon presentation of the proof of purchase consisting of original invoice indicating the date of purchase, model and serial No.of the product We reserve the right to refuse warranty if this information has been removed or changed after the original purchase of the product from the dealer.

2. Our obligations are limited to repair of the defect or replacement the defective part or at its discretion replacement of the product itself.

3. Warranty repairs must be carried out by our Authorized Service Centre. Warranty cover will be void, even if a repair has been attempted by any unauthorized service centre.

4. Repair or replacement under the terms of this warranty does not provide right to extension or renewal of the warranty period.

5. The warranty is not applicable to cases other than defects in material, design and workmanship.

Maintenance Record

Date		Serviced by	
Product Model			
IMEI Number			
Fault Descriptions			
Comments			