Introduction to the Functions of the Intelligent Vehicle Terminal - TBOX Product

时 间：2023.12

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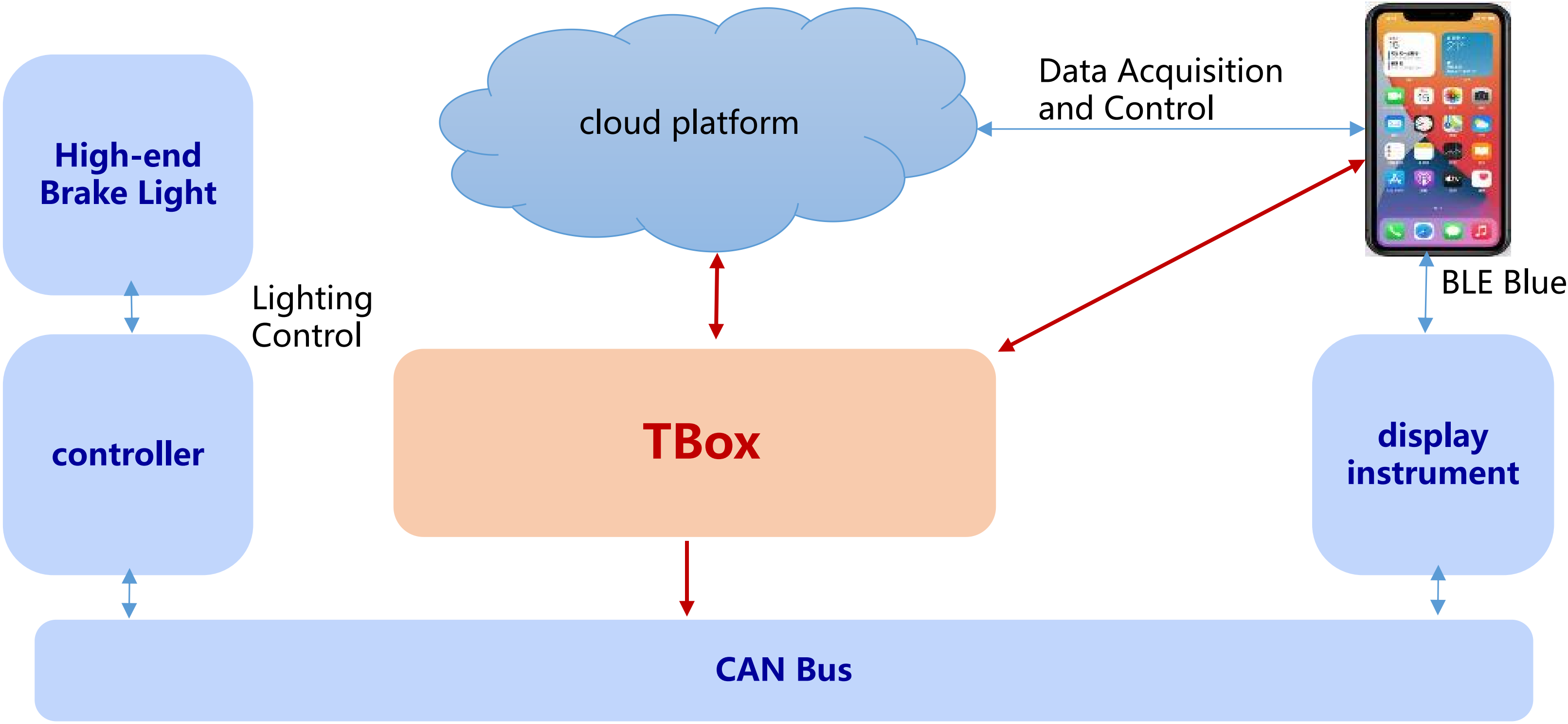
Intelligent Vehicle Infotainment Platform-TBOX

1. As the central gateway in vehicle intelligence, TBOX operates independently from the entire vehicle and is not a functional safety component. When it's not standard equipment, it does not affect the riding and use of the vehicle.
2. All vehicle data is collected, analyzed, and uploaded to the cloud platform through the TBOX, providing a basis for big data analysis and optimization decisions.
3. Multiple positioning supports GPS, LBS, and WiFi assisted positioning, ensuring intelligent safety and worry-free anti-theft.
4. BLE Bluetooth enables seamless smart entry. The vehicle automatically unlocks when the owner approaches, which is convenient and quick. It supports four-master four-slave mode and can connect to more smart devices.
5. The 6-axis G-sensor can detect riding posture, and in case of abnormal riding situations, it can activate SOS emergency rescue services.



cloud platform
Data Acquisition and Control
High-end Brake Light
Lighting Control
BLE Bluetooth Communication
controller
TBox
display instrument
CAN Bus

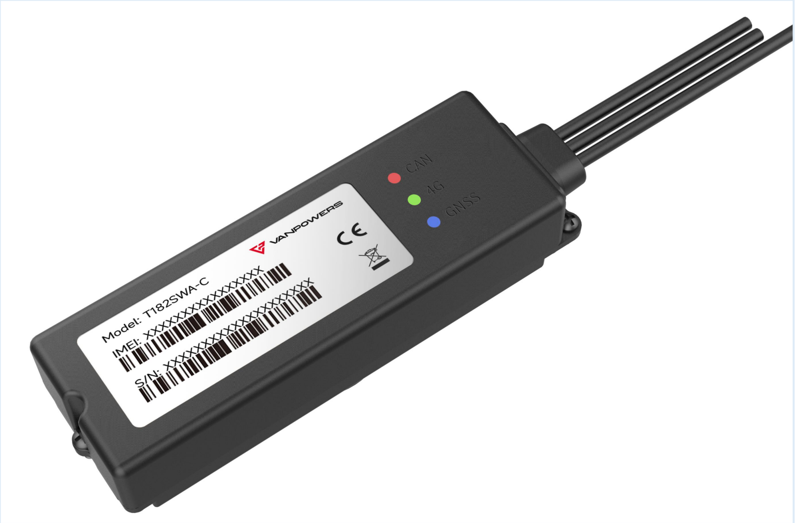
Intelligent Vehicle Infotainment Platform-TBOX

CAN
4G
GNSS
VANPOWERS
Model: T182SWA-C
IMEI: XXXXXXXXXXXXXXX
S/N: XXXXXXXXXXXXXXXXXX
CE

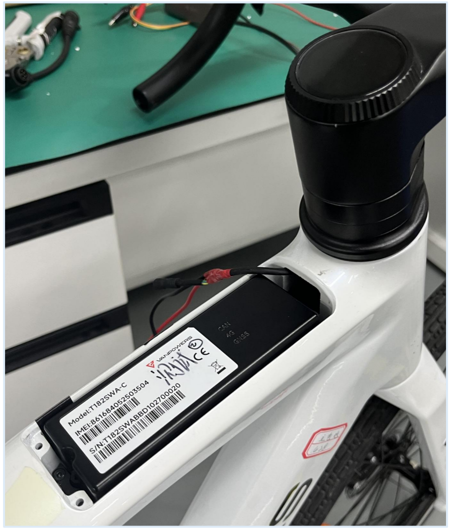
TBOX Product Specifications	
Power	25-75V
Size	150x45x33mm
Mobile Communication	Qualcomm 4G Cat.1
Status lamp	Red, Green, Blue LED Indicator Lights
Bluetooth	BLE 5.0, supports four-master four-slave mode
Seamless Entry	Supports Bluetooth Seamless Smart Entry
location	GPS、LBS、WiFi
Positioning Accuracy	Dynamic 5 meters, Static 10 meters
G-sensor	Six-axis Acceleration
Startup Time	Hot start 10S, Cold start 60S
battery	1250mAh
Protection Level	IPX6
Horn	8Ω 1.5W

Intelligent Vehicle Infotainment Platform-TBOX
Industrial Design and Installation Location

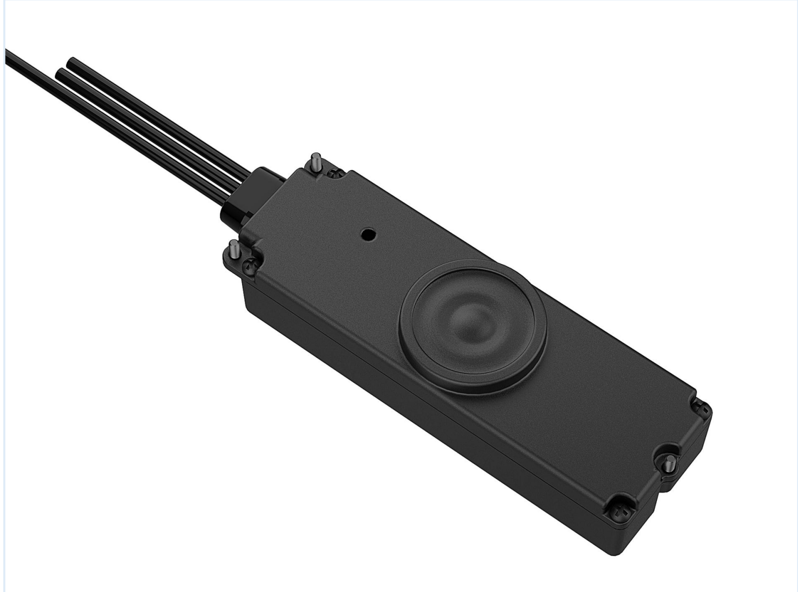
front


CAN
4G
GNSS
VANPOWERS
Model: T182SWA-C
IMEI: XXXXXXXXXXXXXXX
S/N: XXXXXXXXXXXXXXXXXX
CE

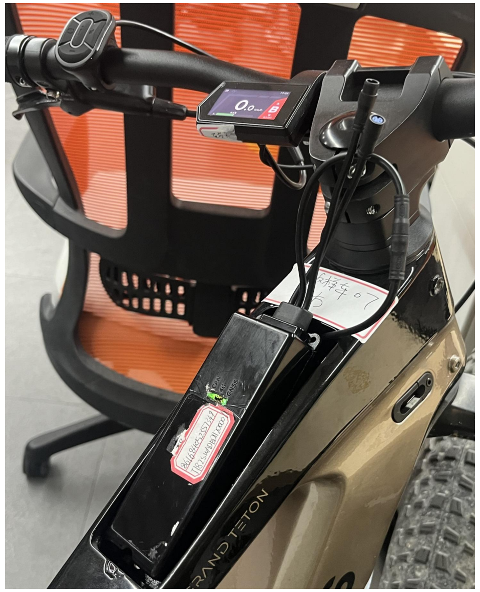
Installation
Location for
Road Bikes



back



Installation
Location for
Mountain Bikes



Intelligent Vehicle Infotainment Platform-
TBOX-Wire Harness Interface

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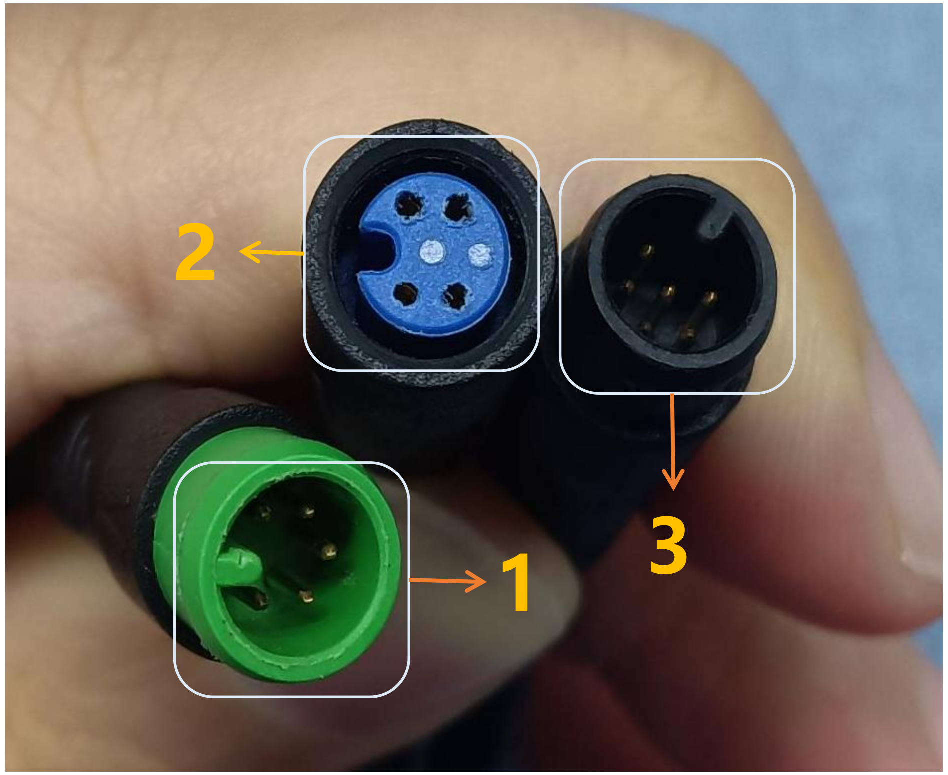
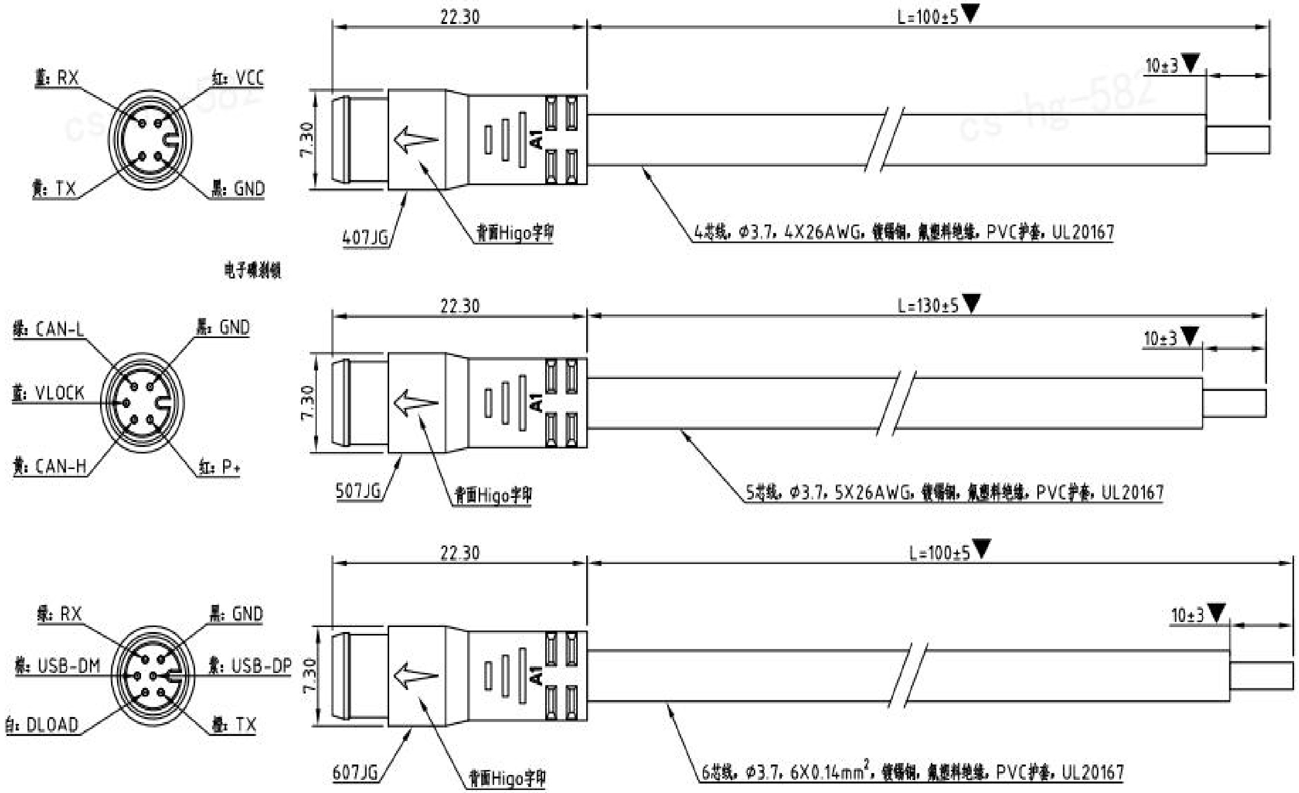


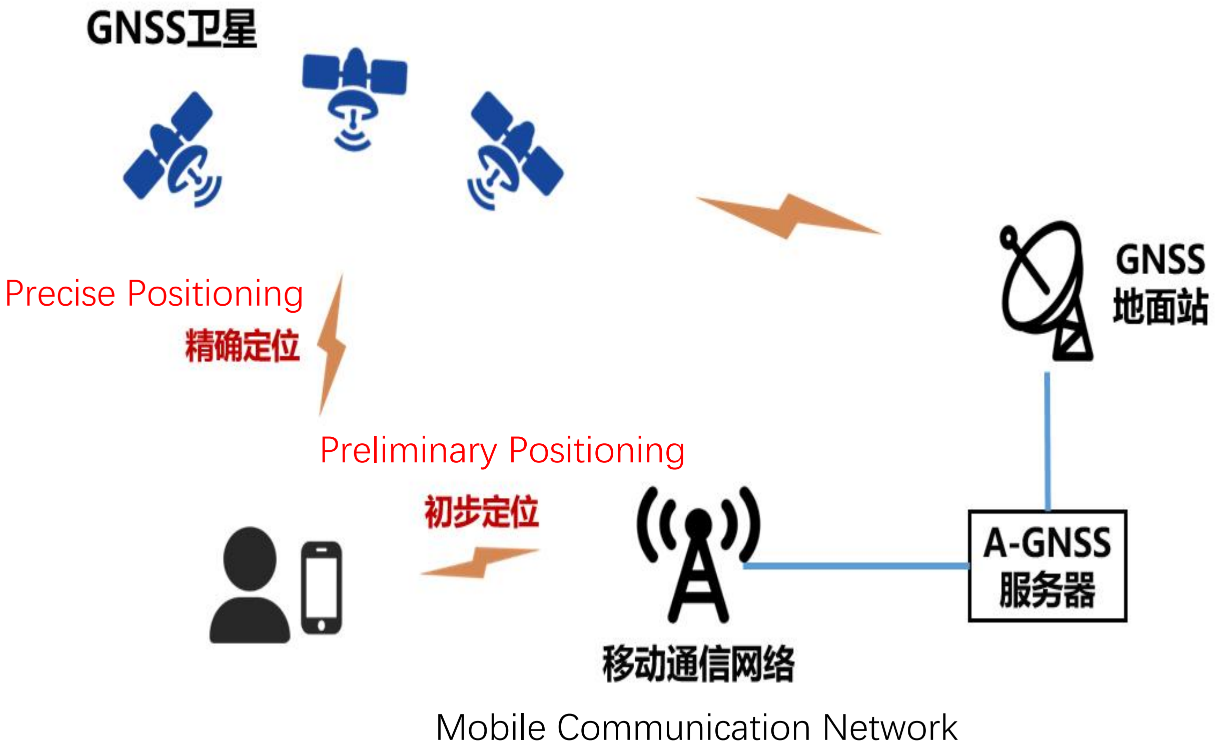
Model:T182SWA-C
VANPOWERS
IMEI:861684052503520
S/N:T182SWABBD102700022
CE

1. **Whole vehicle CAN interface**
2. **Functional serial port**
3. **Reserved debugging interface**


蓝: RX
红: VCC
黄: TX
黑: GND
22.30
L=100±5
10±3
7.30
A1
407JG
背面Higo字印
4芯线, φ3.7, 4X26AWG, 镀锡铜, 氟塑料绝缘, PVC护套, UL20167
电子螺测钢
绿: CAN-L
黑: GND
蓝: VLOCK
黄: CAN-H
红: P+
22.30
L=130±5
10±3
7.30
A1
507JG
背面Higo字印
5芯线, φ3.7, 5X26AWG, 镀锡铜, 氟塑料绝缘, PVC护套, UL20167
绿: RX
黑: GND
棕: USB-DM
紫: USB-DP
白: DLOAD
橙: TX
22.30
L=100±5
10±3
7.30
A1
607JG
背面Higo字印
6芯线, φ3.7, 6X0.14mm², 镀锡铜, 氟塑料绝缘, PVC护套, UL20167

Intelligent Vehicle Infotainment Platform-
TBOX-GNSS location

GNSS（Global Navigation Satellite System）,is a space-based radio navigation positioning system that can provide users with all-weather 3D coordinates, velocity, and time information at any location on the surface of the Earth or near-Earth space. It includes one or more satellite constellations and the enhancement systems needed to support specific tasks.


GNSS卫星
Precise Positioning
精确定位
GNSS
地面站
Preliminary Positioning
初步定位
A-GNSS
服务器
移动通信网络
Mobile Communication Network

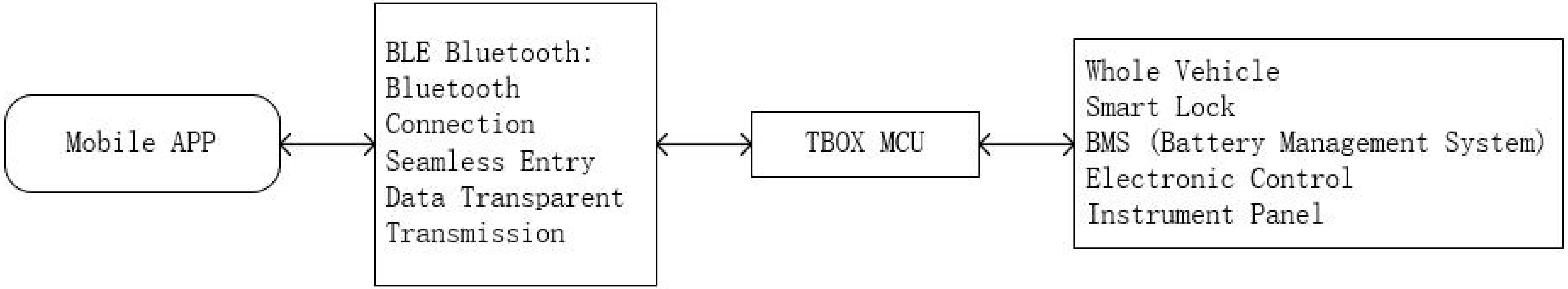
TBOX positioning supports:

1. GPS positioning: Cold start 1 minute, hot start 10S
2. WIFI positioning: Backend data analysis for indoor positioning
3. LBS positioning: Base station positioning

Intelligent Vehicle Infotainment Platform-
TBOX-Bluetooth seamless unlocking

Bluetooth technology is a short-range wireless communication technology. The TBox uses the TelinkBle Bluetooth 8258 chip with the BLE5.0 protocol. The 8258 supports a four-master and four-slave mode. In the first phase of development, the 8258 is set as the slave mode and the mobile phone as the master mode. This allows for seamless unlocking when the Bluetooth device is in close proximity.

The overall block diagram of the system is shown as follows:


Mobile APP
BLE Bluetooth:
Bluetooth Connection
Seamless Entry
Data Transparent Transmission
TBOX MCU
Whole Vehicle
Smart Lock
BMS (Battery Management System)
Electronic Control
Instrument Panel

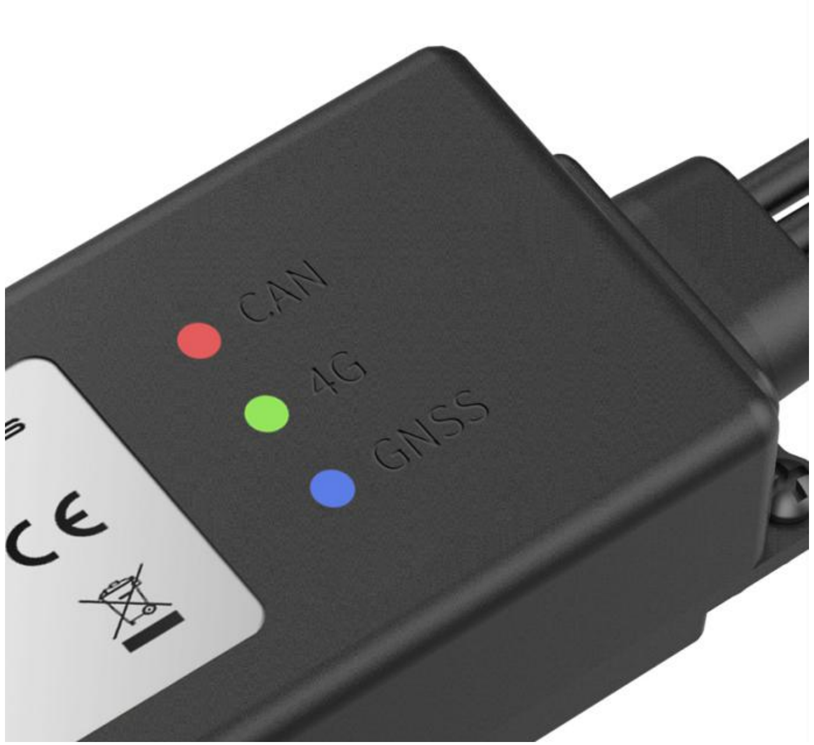
The mobile phone support includes:

1. iOS series: All models after iPhone 11.

2. Android series: Samsung, MI, OPPO, VIVO, Honor, etc. (Android 10 and above, specific models are being refined).

Intelligent Vehicle Infotainment Platform-TBOX-Pilot lamp

The TBOX comes with a three-color indicator light that corresponds to different states when working as follows:



Light color	Function	Off	Quick Flash	Slow Flash	Always On
red light	Vehicle communication	The main power is disconnected.	The main power supply is present, the main power is turned off, and communication with all nodes on the bus has failed.	The main power is on, but communication with all nodes has failed.	The main power is on and there is communication with some nodes.
green light	4G network	No SIM card.	In the process of network registration.	Connecting to the server, logging in.	Online status.
blue lamp	GPS	GNSS is in the off state.	Not activated.	Locating.	Location successfully determined.

Fast flashing: The LED is on for 100 milliseconds, and off for 900 milliseconds.
Slow flashing: The LED is on for 1 second, and off for 3 seconds.

Intelligent Vehicle Infotainment Platform-TBOX-Gsensor

A six-axis sensor typically refers to a combination of a three-axis accelerometer and a three-axis gyroscope. The three-axis accelerometer is used to detect lateral acceleration, while the three-axis gyroscope is used to detect angle rotation and balance.

The TBox is equipped with a built-in 6-axis gyroscope sensor to establish a riding posture model. It is used to detect alarms for vibrations when the vehicle is stationary, tilt alarms during riding, and rollover alarms. When such alarms occur, an alarm sound is triggered, and alarm information is uploaded to the network at the same time. The rollover alarm triggers the SOS rescue module in the APP.

Vibration and disturbance alarms are triggered by the backend TSP to push messages, reminding the internal messages in the APP to pay attention to abnormal alarms and ensure safety.

serial number	Functional item	TBOX state
1	Vibration alarm	The device is in an activated state, and the entire vehicle is powered down in a low power consumption state.
2	Abnormal movement alarm.	The device is in an activated state, and the entire vehicle is powered down in a low power consumption state.
3	Tilt alarm.	The device is in an activated state, the entire vehicle is powered on, and communication is normal: the red, green, and blue lights are functioning properly.
4	Rolling alarm.	The device is in an activated state, the entire vehicle is powered on, and communication is normal: the red, green, and blue lights are functioning properly.

Intelligent Vehicle Infotainment Platform-
TBOX-Voice Broadcasting（1）

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Serial number	Sound name	type	Trigger condition	frequency	Sound effect 1 (female voice)	Sound effect 2 (male voice)	Custom 3	APP settings	Human voice broadcast content.
1	Power on	Event type	Announcement when the power button is pressed or when the APP is started.	Single broadcast.	Human voice.	Human voice.	The voice can be customized.	Single sound switch, one-key shutdown.	Power on.
2	Power Off	Event type	Announcement when the power button is pressed or when the APP is shut down, or during automatic shutdown.	Single broadcast.	Human voice.	Human voice.	The voice can be customized.		Power off.
3	Car finding	Event type	Announcement when the APP triggers the car-finding function.	Broadcast continuously three times.	Human voice.	Human voice.	The voice can be customized.		I'm here.
4	Alarm sound	Trigger type	Alarm sound prompt when there is vibration or abnormal riding.	Single broadcast, lasting 5 seconds. If the abnormal movement continues, it will be broadcast in a loop.	Chord warning sound.	Chord warning sound.	The voice can be customized.		/
5	Low power	Trigger type	The battery capacity is low, please charge it in time.	Single broadcast.	Human voice.	Human voice.	/		My battery is low.
6	Trouble code	Trigger type	Prompt when there is a fault code in the battery or electronic control.	Single broadcast.	Human voice.	Human voice.	/		Device error, please contact your Vanpowers support.
7	Gear change	Trigger type	Prompt sound when switching to ECO Sport BOOST OFF gear.	Single broadcast.	Human voice.	Human voice.	/		ECO Mode/ Sport Mode/ Boost Mode/ Assist off
8	Overspeed safety Tips	Trigger type	Prompt sound when exceeding the motor cut-off speed.	Single broadcast.	Human voice.	Human voice.	/		Top speed limit, please be careful.
9	Vehicle binding	Trigger type	TBOX binding successful.	Single broadcast.	Human voice.	Human voice.	/		TBox binding successful
10	Car charger	Trigger type	Prompt sound when charging connection is successful.	Single broadcast.	Human voice.	Human voice.	The voice can be customized.		Charger connected.

Intelligent Vehicle Infotainment Platform-TBOX-Voice Broadcasting（2)

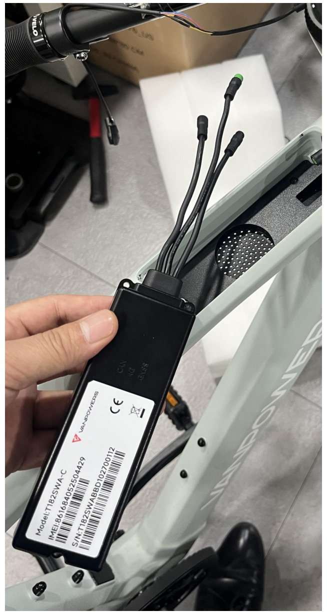
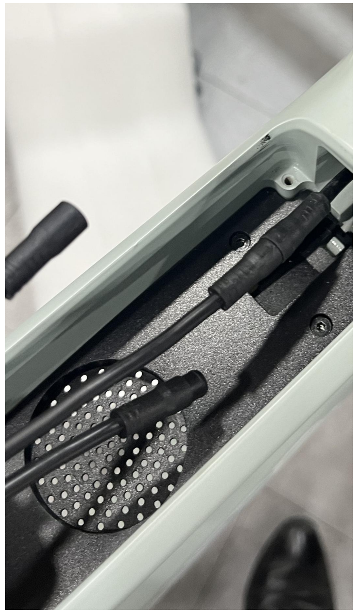
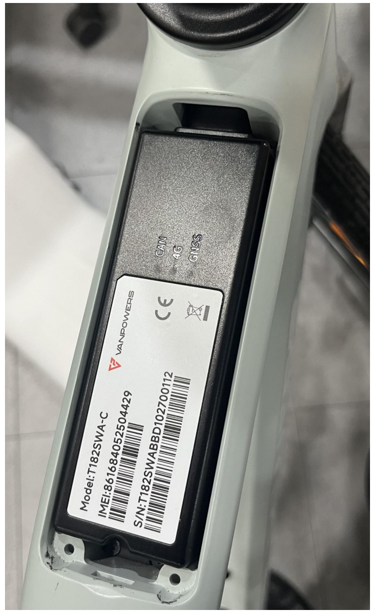
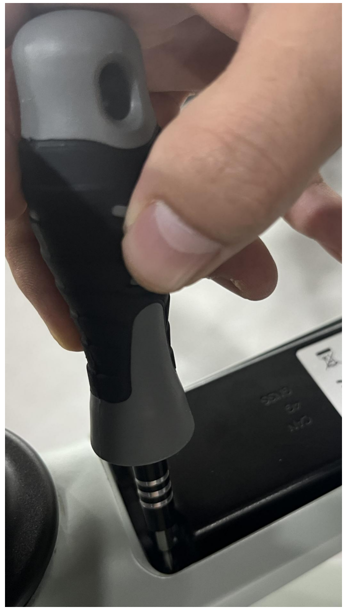
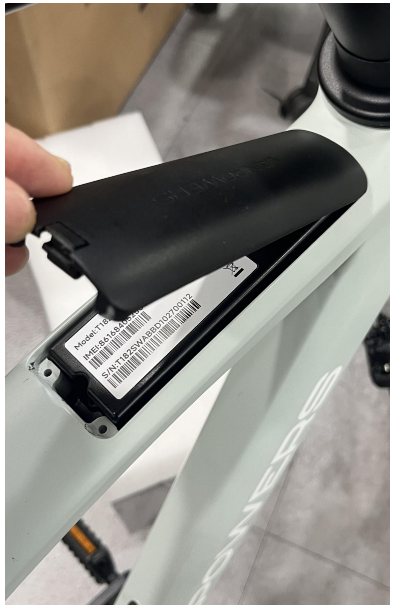
Serial number	Sound name	type	Trigger condition	frequency	Sound effect 1 (female voice)	Sound effect 2 (male voice)	Custom 3	APP settings	Human voice broadcast content.
11	Secondary battery access	Trigger type	Prompt sound when the auxiliary battery is successfully connected to the vehicle.	Single broadcast.	Human voice.	Human voice.	/		Extended battery connected.
12	Access electronic fence	Trigger type	The user rides from outside the fence into the range of the electronic fence.	Single broadcast.	Human voice.	Human voice.	/		We are back in the riding area.
13	Drive out of the electronic fence	Trigger type	The user rides from within the fence range out to outside the fence.	Single broadcast.	Human voice.	Human voice.	/		We are outside the riding area.

Intelligent Vehicle Infotainment Platform-TBOX-APP

1. "APP Page Icons"
2. "Binding Activation and Unbinding"
3. "Bluetooth Unlock"
4. "Voice and Settings"
5. "Anti-theft Positioning and Car Searching"
6. "Vibration Alarm and SOS"
7. "Electronic Fence"
8. "Vehicle Riding Trajectory"

Intelligent Vehicle Infotainment Platform-
TBOX-Installation Process

TBOX installation steps:

1. Prepare the TBOX for installation.	2. Connect the TBOX plug (green).	3. Place the device in the installation position.	4. Lock the screws at the left and right corners.	5. Install the cover plate.	6. Installation is complete.
					

Intelligent Vehicle Infotainment Platform-TBOX-APP interface

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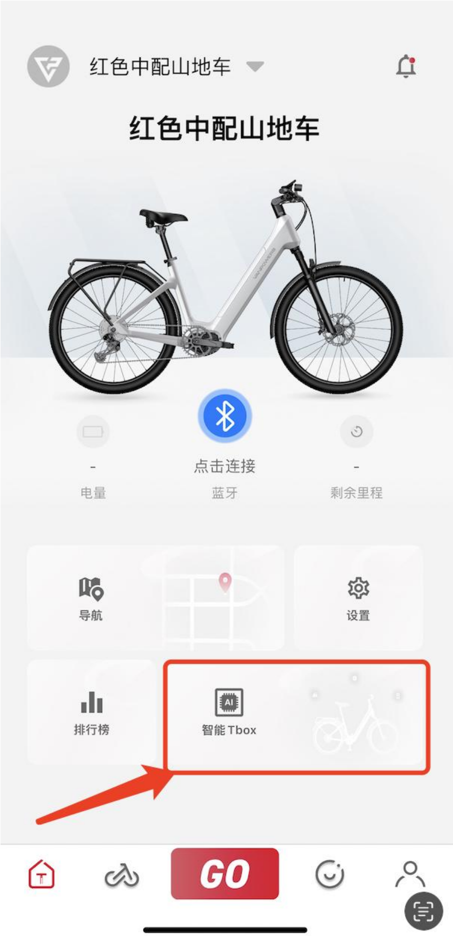
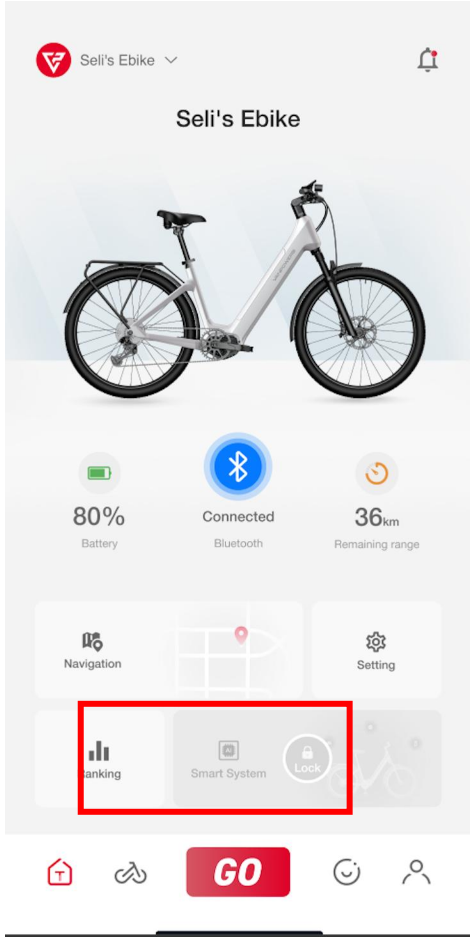
1、APP download address：

IOS：https://www.pgyer.com/2Vk3

Android：https://www.pgyer.com/5gjmWG

2.TBox feature entry：


红色中配山地车
红色中配山地车
-
电量
点击连接
蓝牙
-
剩余里程
导航
设置
排行榜
智能 Tbox
GO


Seli's Ebike
Seli's Ebike
80%
Battery
Connected
Bluetooth
36km
Remaining range
Navigation
Setting
anking
Smart System
Lock
GO

Intelligent Vehicle Infotainment Platform-
TBOX-APP interface

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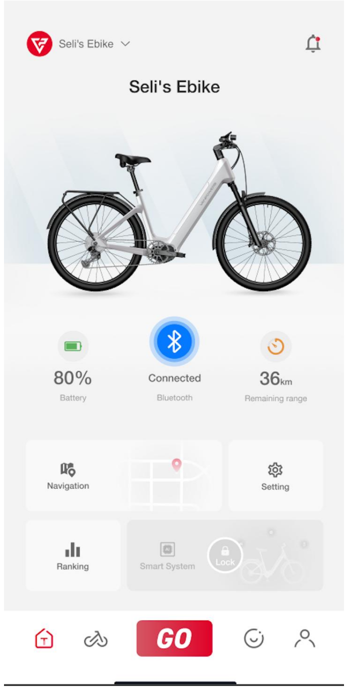
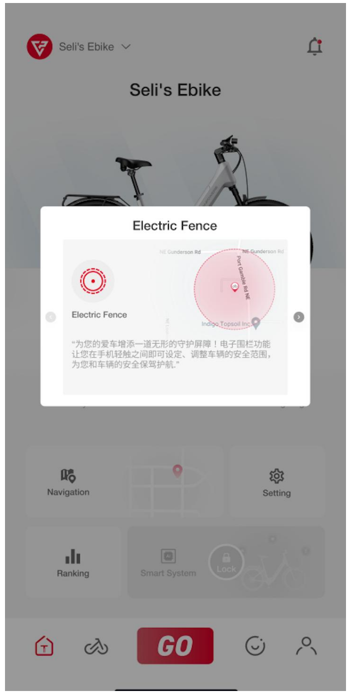
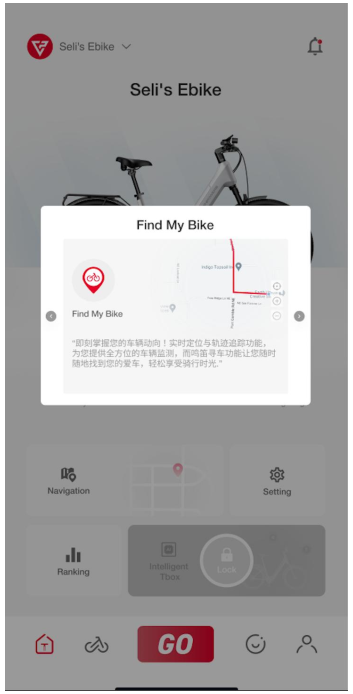
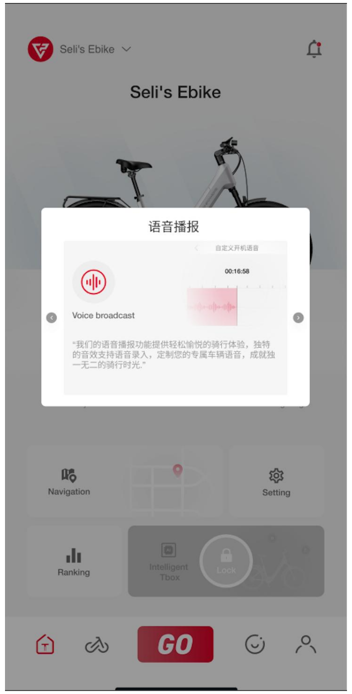
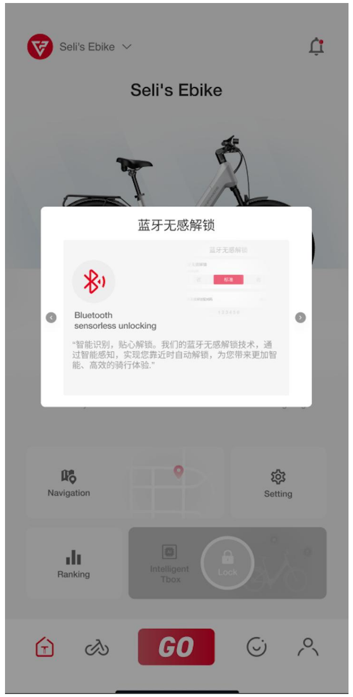
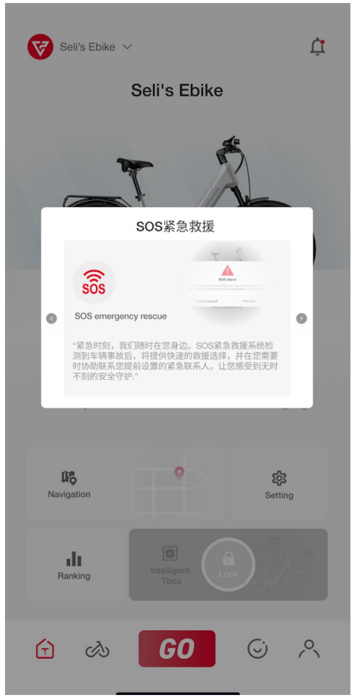
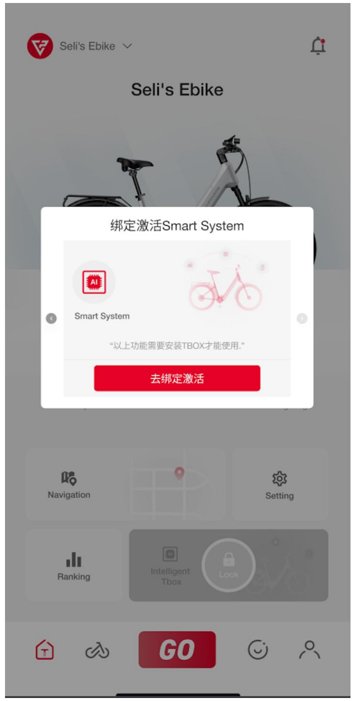
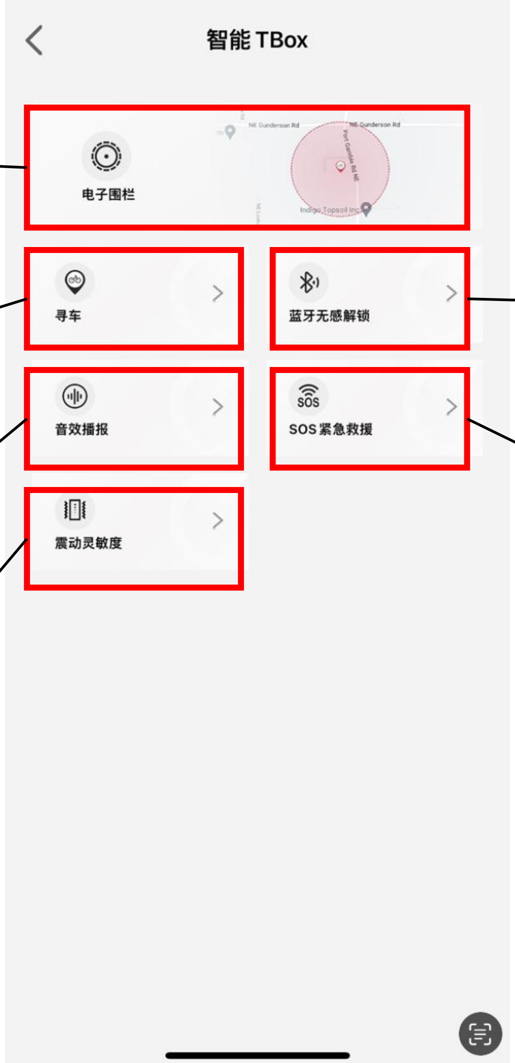
2、TBox broadcast.

When the TBOX is not purchased, the entry interface is grayed out. Clicking on it will bring up a carousel page, promoting the main functions of the TBOX.

	Electronic fence.	Find car	Voice broadcast	Bluetooth seamless unlocking	SOS emergency rescue	Activate binding
 Seli's Ebike Seli's Ebike 80% Battery Connected Bluetooth 36km Remaining range Navigation Setting Ranking Smart System Lock GO	 Electric Fence Electric Fence "为您的爱车增添一道无形的守护屏障！电子围栏功能让您在手机轻触之间即可设定、调整车辆的安全范围，为您和车辆的安全保驾护航."	 Find My Bike Find My Bike "即刻掌握您的车辆动向！实时定位与轨迹追踪功能，为您提供全方位的车辆监测，而鸣笛寻车功能让您随时随地找到您的爱车，轻松享受骑行时光."	 语音播报 自定义开机语音 00:16:58 Voice broadcast "我们的语音播报功能提供轻松愉悦的骑行体验，独特的音效支持语音录入，定制您的专属车辆语音，成就独一无二的骑行时光."	 蓝牙无感解锁 Bluetooth sensorless unlocking "智能识别，贴心解锁。我们的蓝牙无感解锁技术，通过智能感知，实现您靠近时自动解锁，为您带来更加智能、高效的骑行体验."	 SOS紧急救援 SOS SOS emergency rescue "紧急时刻，我们随时在您身边。SOS紧急救援系统检测到车辆事故后，将提供快速的救援选择，并在您需要时协助联系您提前设置的紧急联系人。让您感受到无时不刻的安全守护."	 绑定激活Smart System Smart System 去绑定激活 "以上功能需要安装TBOX才能使用."

Intelligent Vehicle Infotainment Platform-
TBOX-APP interface

3、TBox function module.



“Electronic fence.”
Allows users to set virtual boundaries on geographic locations. Once the vehicle crosses or enters this range, it will trigger an alarm or notification.

“Find car”
Real-time vehicle positioning and tracking, view the most recent driving trajectory and honk to find the car.

“Voice broadcast”
Two sets of system voice prompts, supporting custom recording of some sound effects.

“Vibration sensitivity”
Adjust the sensitivity level of the vehicle triggering the alarm.

“Bluetooth seamless unlocking”
Implement Bluetooth proximity unlocking, supporting adjustment of three unlocking distances: far, medium, and near.

“SOS emergency rescue”
When a crisis is detected, it will notify the emergency contact.

Intelligent Vehicle Infotainment Platform-
TBOX-Binding Activation and Unbinding （1）

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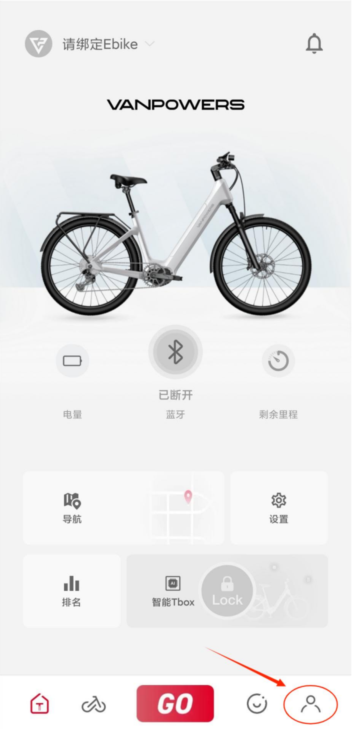
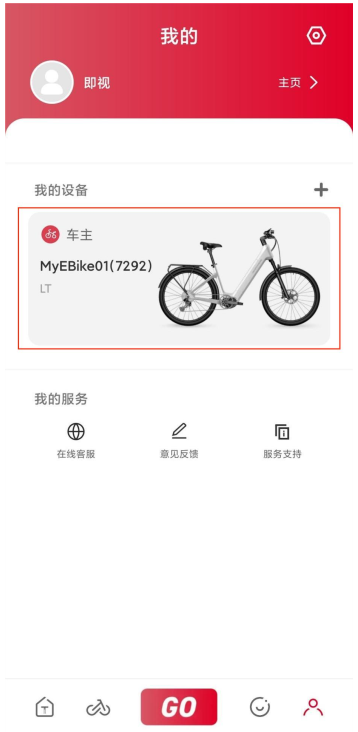
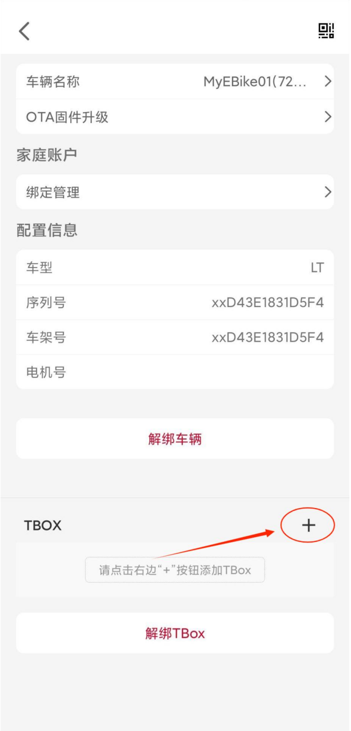
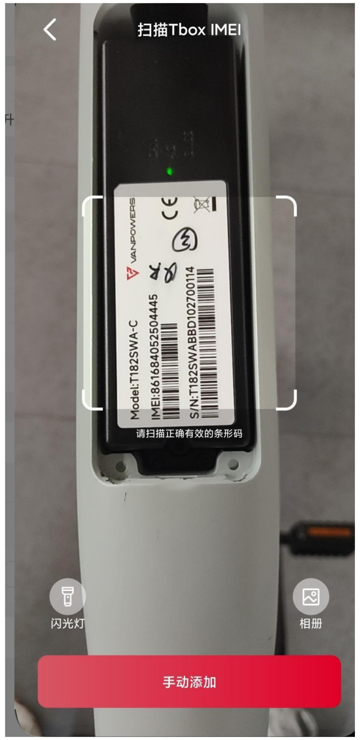
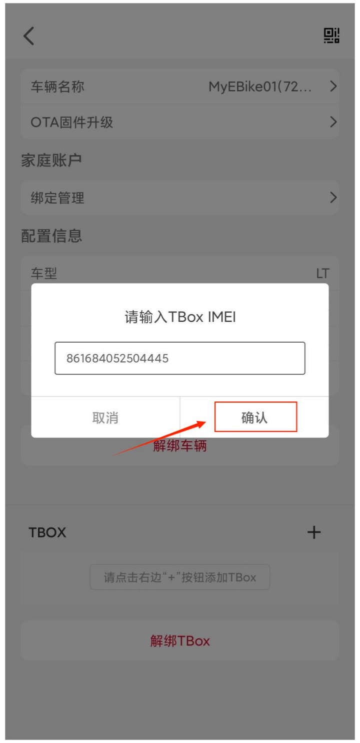
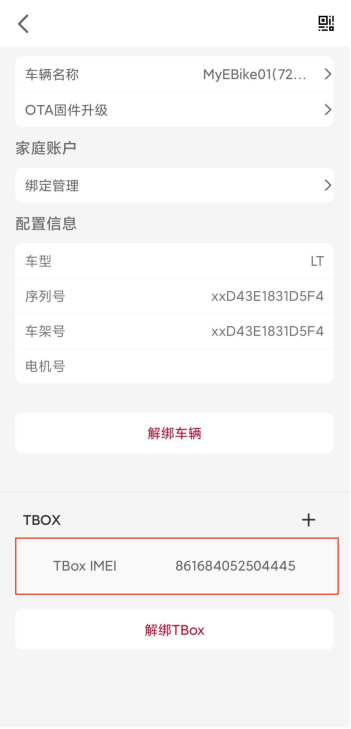
1、TBox binding and activation.

1.1 Precautions before binding.：

The vehicle binding must be completed before the TBOX binding can be performed, and the same TBOX can only be bound to one vehicle;

The TBOX is located inside the upper tube of the EBike. After opening the upper tube cover structure, you can observe the TBOX body. The binding barcode is located on the upper part of the TBOX packaging.

1.2 APP TBOX binding process.

1. Click "My" on the main interface	2. Click on the device tag	3. Click on the "+" option to bind the TBOX	4. Scan the TBOX IMEI barcode	5. Confirm (IMEI number is auto-filled)	6. Binding is successful (TBOX tag appears)
					

请绑定Ebike
VANPOWERS
电量
已断开
蓝牙
剩余里程
导航
设置
排名
智能Tbox
Lock
GO

我的
即视
主页
我的设备
车主
MyEBike01(7292)
LT
我的服务
在线客服
意见反馈
服务支持
GO

车辆名称 MyEBike01(72...
OTA固件升级
家庭账户
绑定管理
配置信息
车型 LT
序列号 xxD43E1831D5F4
车架号 xxD43E1831D5F4
电机号
解绑车辆
TBOX
请点击右边"+"按钮添加TBox
解绑TBox

扫描Tbox IMEI
请扫描正确有效的条形码
闪光灯
相册
手动添加

请输入TBox IMEI
861684052504445

取消
确认
解绑车辆
TBOX
请点击右边"+"按钮添加TBox
解绑TBox

车辆名称 MyEBike01(72...
OTA固件升级
家庭账户
绑定管理
配置信息
车型 LT
序列号 xxD43E1831D5F4
车架号 xxD43E1831D5F4
电机号
解绑车辆
TBOX
TBox IMEI 861684052504445
解绑TBox

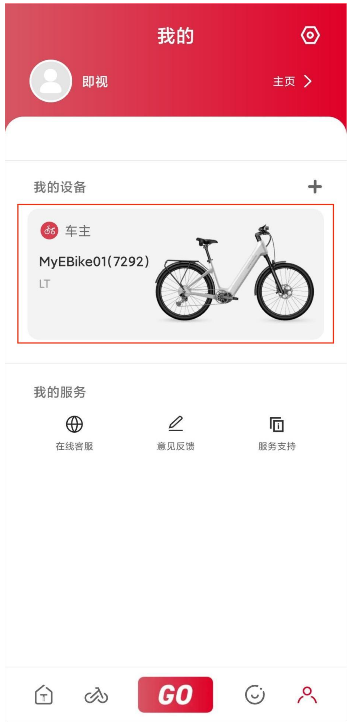
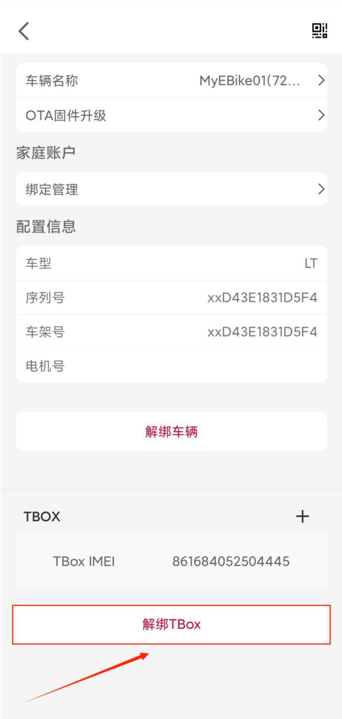
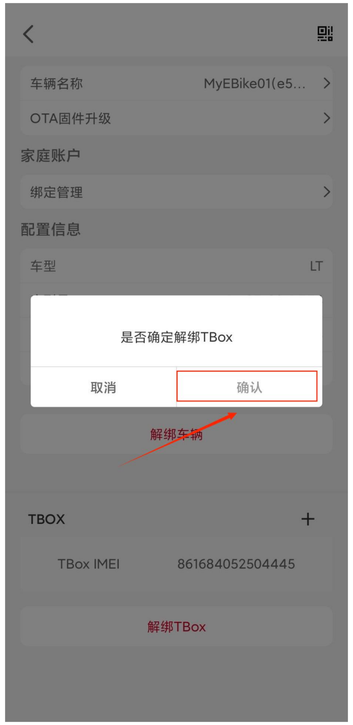
Intelligent Vehicle Infotainment Platform- TBOX-Binding Activation and Unbinding（2）

赛维时代
SAILVAN TIMES

The process of scanning the barcode to bind the TBOX does not require the TBOX to be powered. The TBOX will exit sleep mode and trigger the language indicating successful binding, but the status indicator light will not be displayed during this process.

During binding, the APP will query the current TBOX IMEI number in the backend database. If it exists and has not been bound, the target TBOX will be bound to the whole vehicle corresponding to the device tag selected on the current "My Device" interface of the APP.

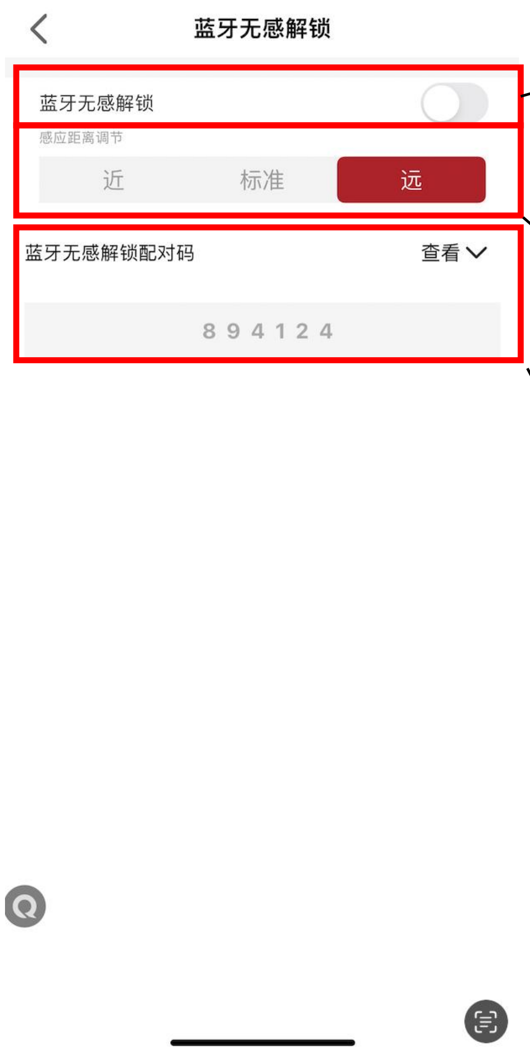
2、Unbinding of the TBox.

1. Click on the device tag in "My"	2. Click on "Unbind TBox"	3. Click on "Confirm"
 我的 即视 主页 > 我的设备 + 车主 MyEBike01(7292) LT 我的服务 在线客服 意见反馈 服务支持 GO	 车辆名称 MyEBike01(72... OTA固件升级 家庭账户 绑定管理 配置信息 车型 LT 序列号 xxD43E1831D5F4 车架号 xxD43E1831D5F4 电机号 解绑车辆 TBOX + TBox IMEI 861684052504445 解绑TBox	 车辆名称 MyEBike01(e5... OTA固件升级 家庭账户 绑定管理 配置信息 车型 LT 是否确定解绑TBox 取消 确认 解绑车辆 TBOX + TBox IMEI 861684052504445 解绑TBox

Note:
If the vehicle binding is directly unbound without unbinding the vehicle and the TBOX, although the vehicle has been unbound from the user, the TBOX is still in a mutually bound relationship with the vehicle in the database. At this time, the TBOX cannot be bound to other vehicles.

When a vehicle that has not unbound from the TBOX binds with a user again, it will default to binding the TBOX at the same time, and the user does not need to bind the TBOX again.

Intelligent Vehicle Infotainment Platform-
TBOX-Bluetooth seamless unlocking



蓝牙无感解锁

蓝牙无感解锁 ○

感应距离调节

近 标准 远

蓝牙无感解锁配对码 查看

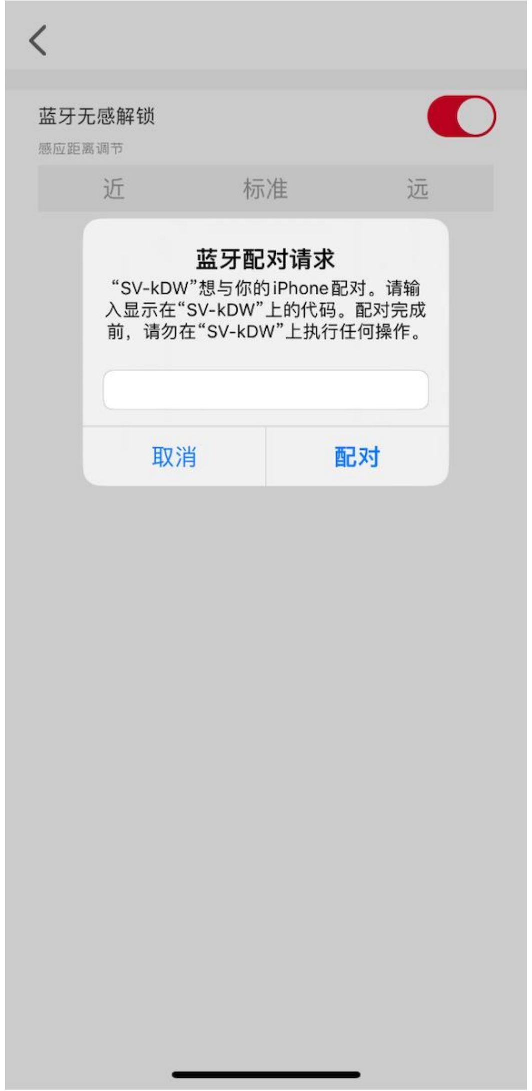
8 9 4 1 2 4

Bluetooth Senseless Unlock General Switch.

There are three types of unlocking sensing distances: "Near, Standard, Far".

The distance sensing interval is (1m, 3m).

The Bluetooth senseless unlock pairing code can be hidden.



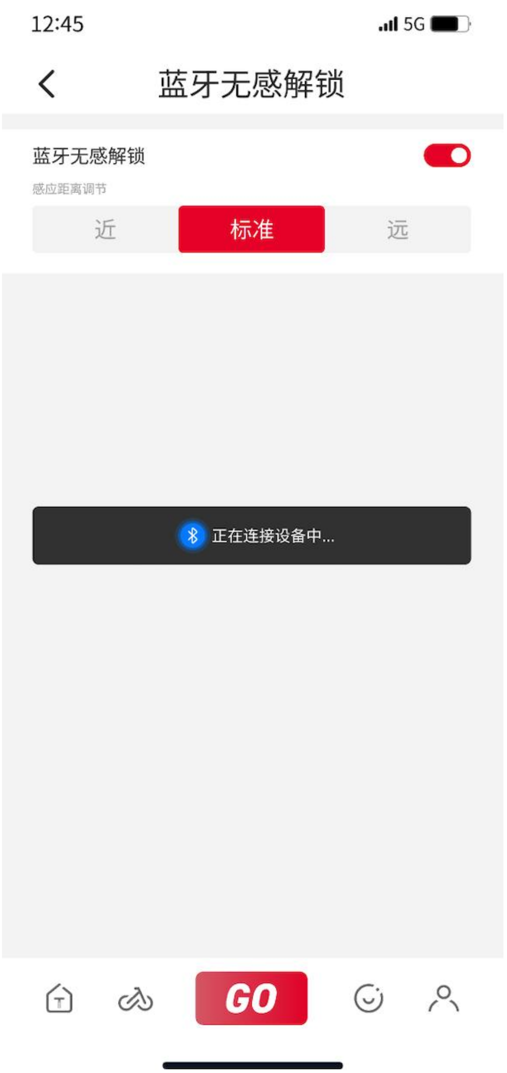
蓝牙无感解锁 ●

感应距离调节

近 标准 远

蓝牙配对请求

“SV-kDW”想与你的iPhone配对。请输入显示在“SV-kDW”上的代码。配对完成前，请勿在“SV-kDW”上执行任何操作。



蓝牙无感解锁

蓝牙无感解锁 ●

感应距离调节

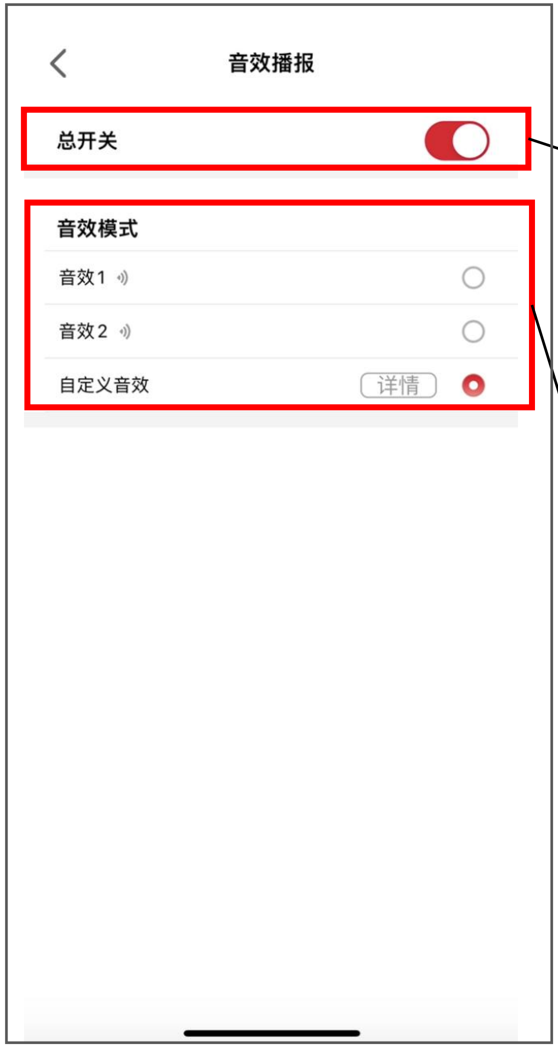
近 标准 远

正在连接设备中...

Intelligent Vehicle Infotainment Platform-
TBOX-Voice broadcast（1）

赛维时代
SAILVAN TIMES

1、Sound Effect General Interface.



总开关 ●

音效模式
音效1 ○
音效2 ○
自定义音效 ●

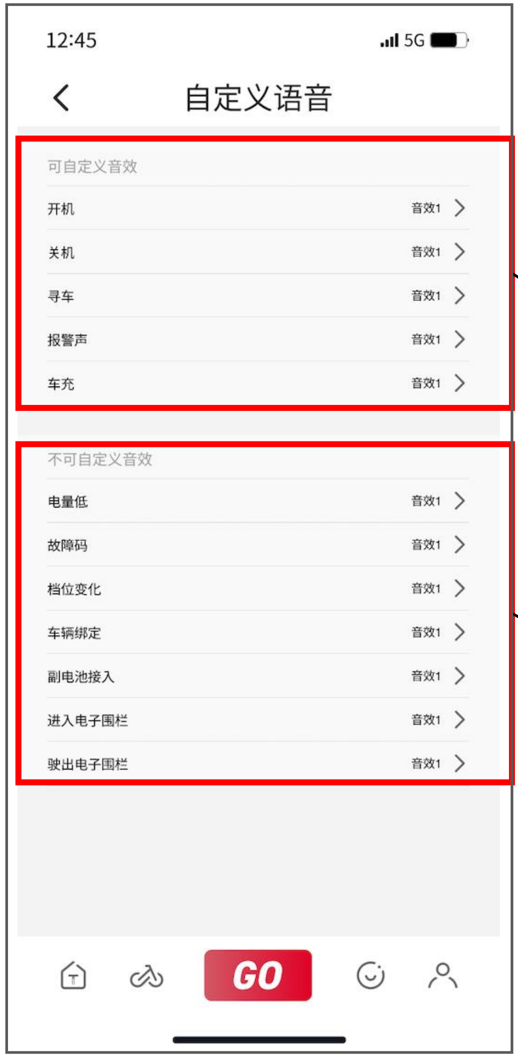
Sound Effect General Switch: When turned off, all sounds from the TBox will be turned off.

There are three sound effect modes.

"Sound Effect 1" and "Sound Effect 2" are global effects, one is a male voice, the other is a female voice - the chosen one will be applied to all sound effects.

Custom sound effects can be individually set for a total of 12 sound effects.

2、Custom Sound Effect Detail Page.



可自定义音效
开机 音效1
关机 音效1
寻车 音效1
报警声 音效1
车充 音效1

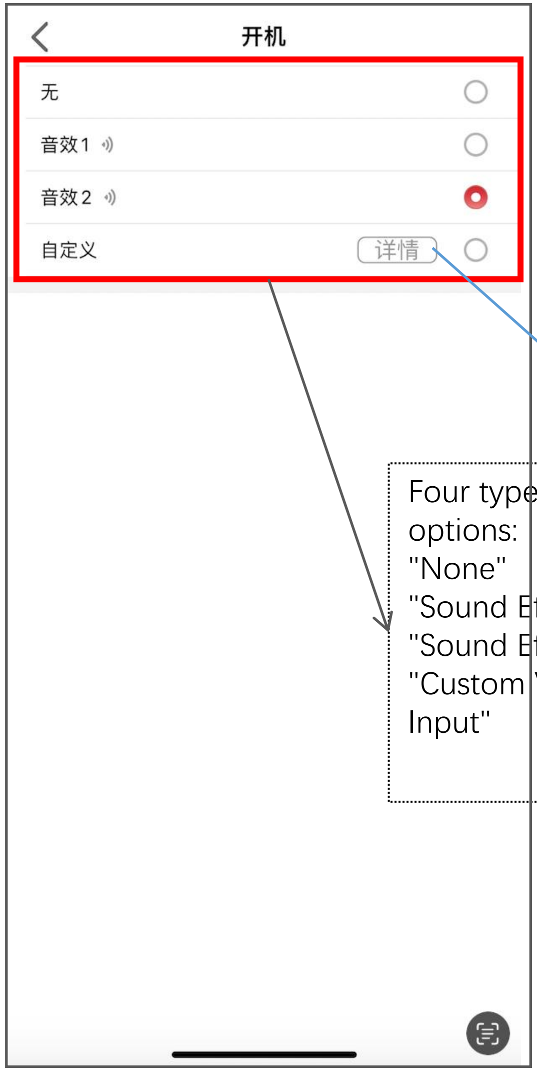
不可自定义音效
电量低 音效1
故障码 音效1
档位变化 音效1
车辆绑定 音效1
副电池接入 音效1
进入电子围栏 音效1
驶出电子围栏 音效1

Custom sound effects are divided into two categories:
The first five types support voice input settings.

The last six types do not support voice input settings, and can only choose Sound Effect 1, Sound Effect 2, or turn off.

Intelligent Vehicle Infotainment Platform-
TBOX-Voice broadcast（2)

3、Sound effects that support voice input
- Taking startup as an example.

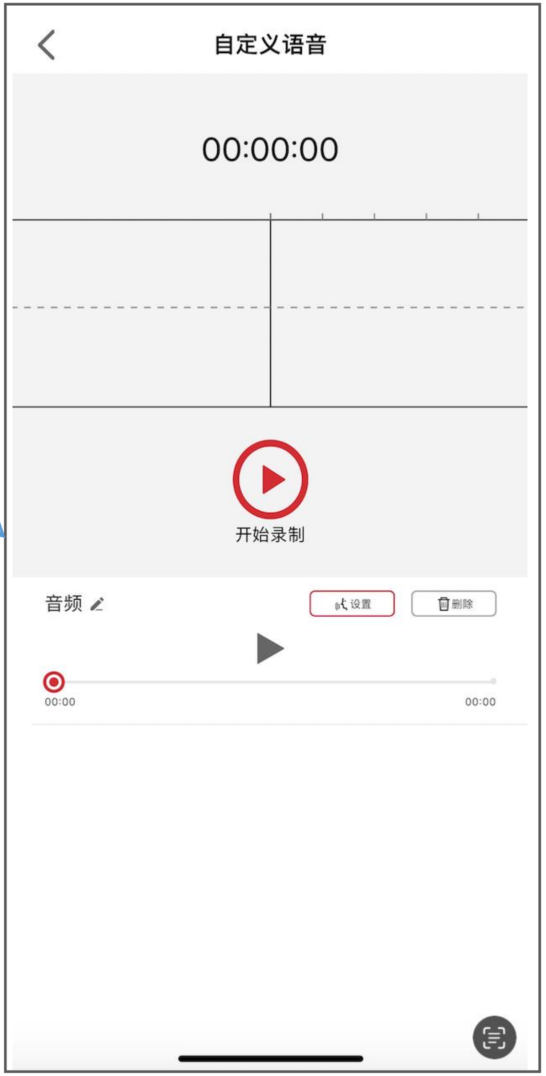


开机

无 ○
音效1 ○
音效2 ●
自定义 详情 ○

Four types of options:
"None"
"Sound Effect 1"
"Sound Effect 2"
"Custom Voice Input"

Custom Voice Input Page.



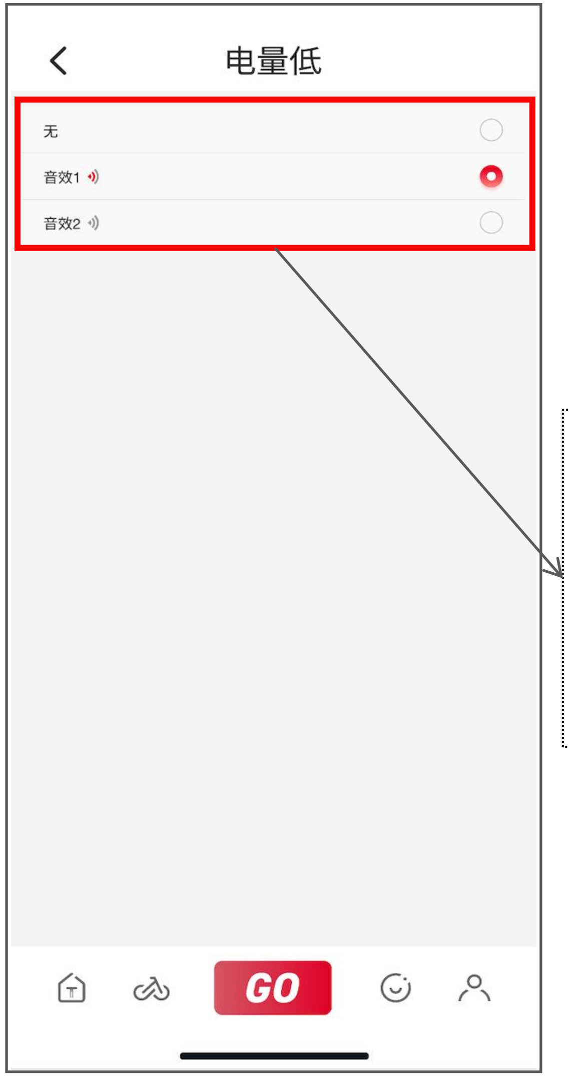
自定义语音

00:00:00

Supports functions such as recording audio, modifying audio names, setting as voice, deleting, playing, etc.

Only one voice can be saved.

4、Sound effects that do not support voice input
- Taking low battery as an example.



电量低

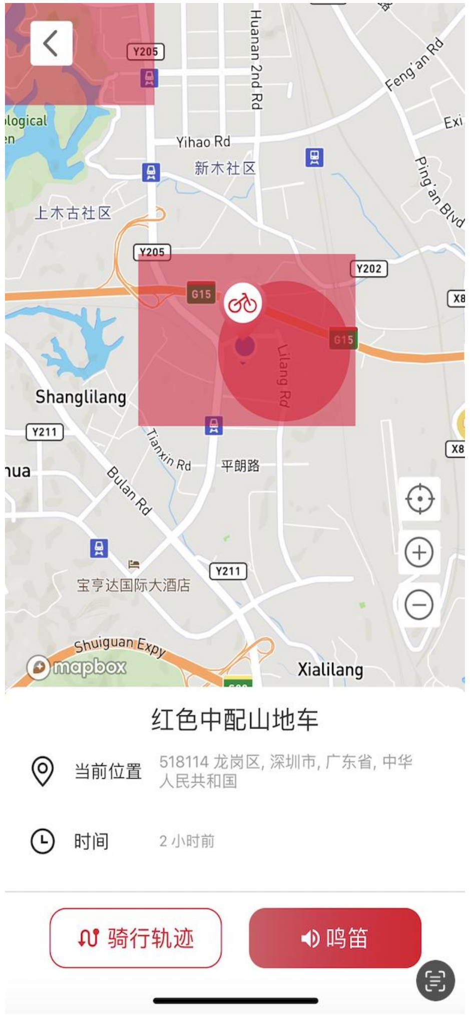
无 ○
音效1 ●
音效2 ○

Supports selection of:
"Sound Effect 1"
"Sound Effect 2"
"None"

Intelligent Vehicle Infotainment Platform-TBOX-Anti-theft Positioning and Car Searching（1）

一、The car finding page under normal conditions.

1、Car Finding Page.


Huanan 2nd Rd
Feng'an Rd
Yihao Rd
新木社区
上木古社区
Ping'an Blvd
G15
Y205
Y202
Y211
Shanglilang
Liang Rd
Tianxin Rd
平朗路
Bulan Rd
宝亨达国际大酒店
Shuiguan Expy
Xialilang
mapbox

红色中配山地车

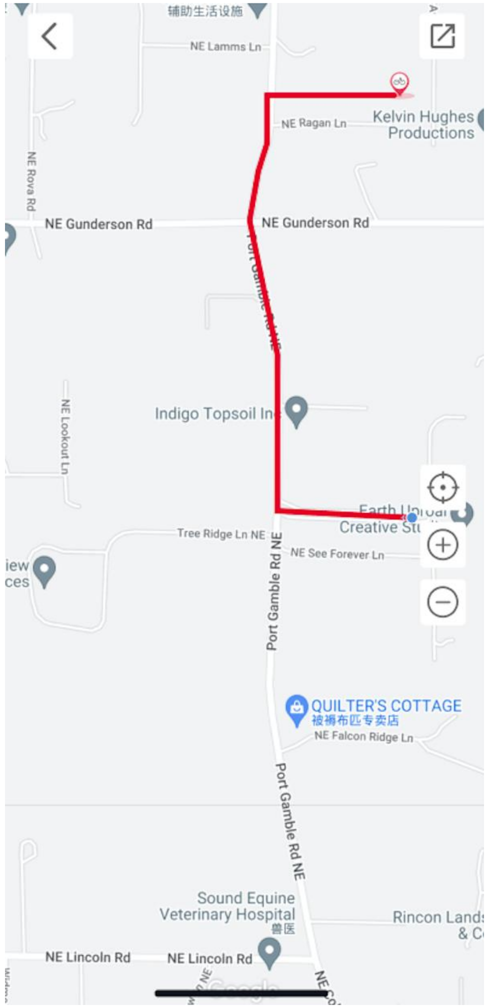
当前位置 518114 龙岗区, 深圳市, 广东省, 中华人民共和国

时间 2 小时前

骑行轨迹
鸣笛

- The map shows the real-time location of the vehicle and projects an electronic fence on the map.
- Displays the current vehicle location.
- You can view the riding trajectory of the last 24 hours.
- You can find the car by honking.

2、Trajectory Page.


NE Lamms Ln
NE Ragan Ln
Kelvin Hughes Productions
NE Gunderson Rd
NE Gunderson Rd
Indigo Topsoil
Tree Ridge Ln NE
NE See Forever Ln
Creative St
Port Gamble Rd NE
QUILTER'S COTTAGE
NE Falcon Ridge Ln
Sound Equine Veterinary Hospital
NE Lincoln Rd
NE Lincoln Rd

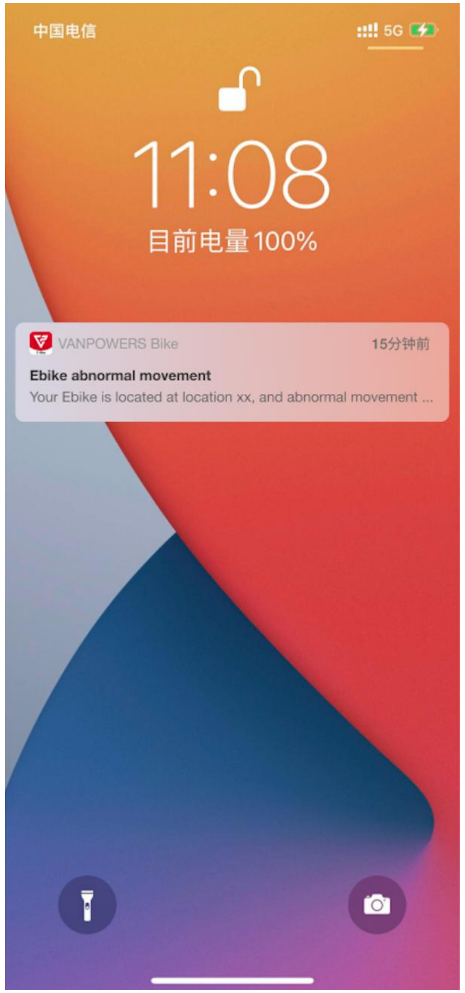
Displays the riding path of the last 24 hours.

Intelligent Vehicle Infotainment Platform-TBOX-Anti-theft Positioning and Car Searching （2）

赛维时代
SAILVAN TIMES

二、The car finding page under alarm status.

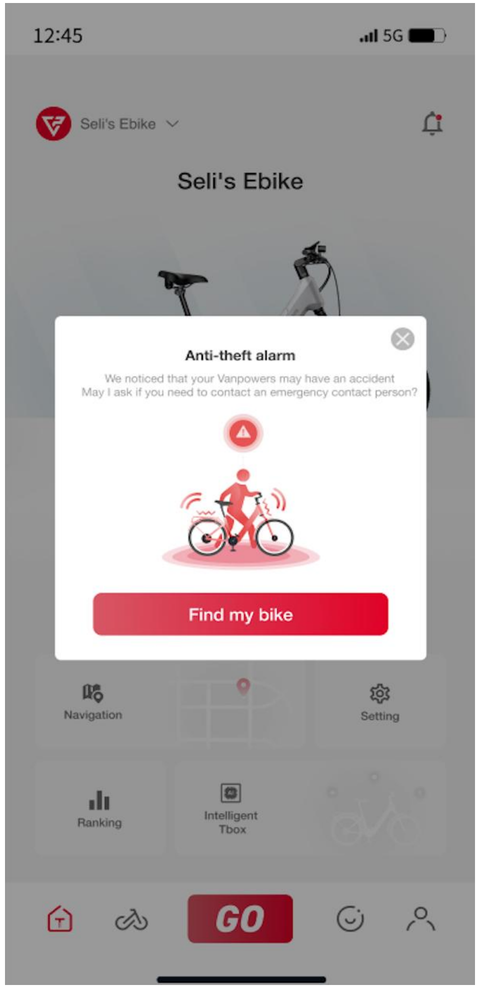
1、APP pushes alarm


中国电信
5G
11:08
目前电量100%
VANPOWERS Bike
15分钟前

Ebike abnormal movement

Your Ebike is located at location xx, and abnormal movement ...

2、Home page alarm

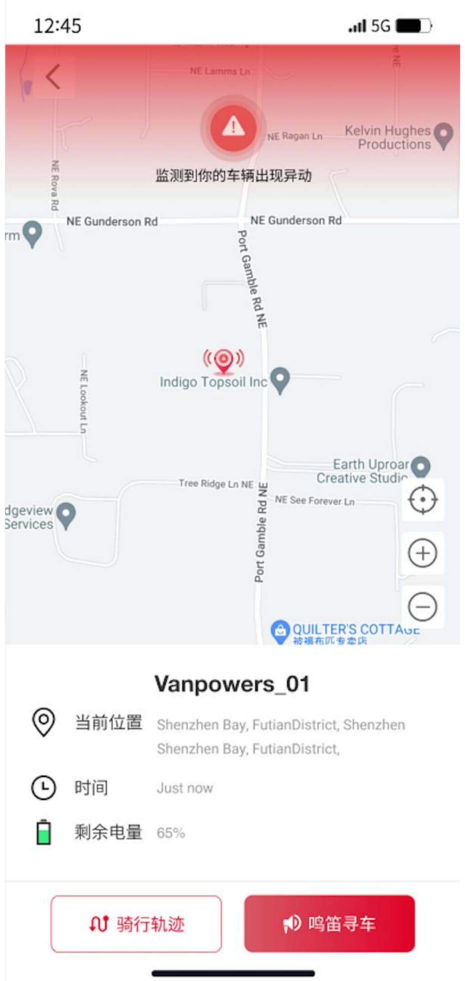

12:45
5G
Seli's Ebike
Seli's Ebike
Navigation
Setting
Ranking
Intelligent Tbox
GO

Anti-theft alarm

We noticed that your Vanpowers may have an accident
May I ask if you need to contact an emergency contact person?

Find my bike

3、Car Finding Page - Alarm Status.


12:45
5G
NE Lamms Ln
NE Ragan Ln
Kelvin Hughes Productions
NE Gunderson Rd
NE Gunderson Rd
Port Gamble Rd NE
Indigo Topsoil Inc
NE Lookout Ln
Tree Ridge Ln NE
NE See Forever Ln
Earth Uproar Creative Studio
dgeview Services
QUILTER'S COTTAGE

监测到你的车辆出现异动

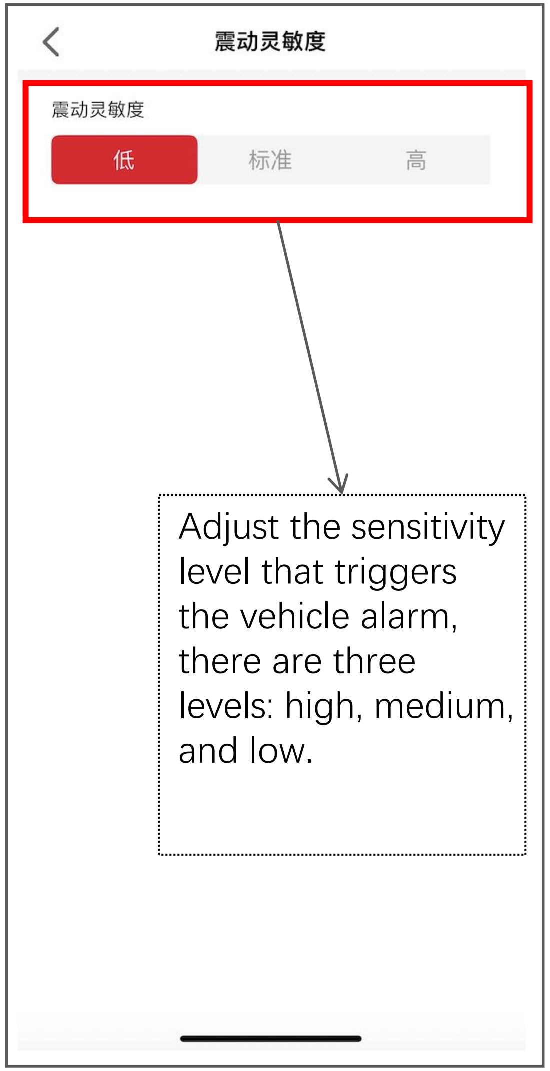
Vanpowers_01

当前位置 Shenzhen Bay, FutianDistrict, Shenzhen Shenzhen Bay, FutianDistrict,
时间 Just now
剩余电量 65%

骑行轨迹
鸣笛寻车

Intelligent Vehicle Infotainment Platform-
TBOX-Vibration Alarm and SOS（1）

一、Vibration Alarm Sensitivity Setting.

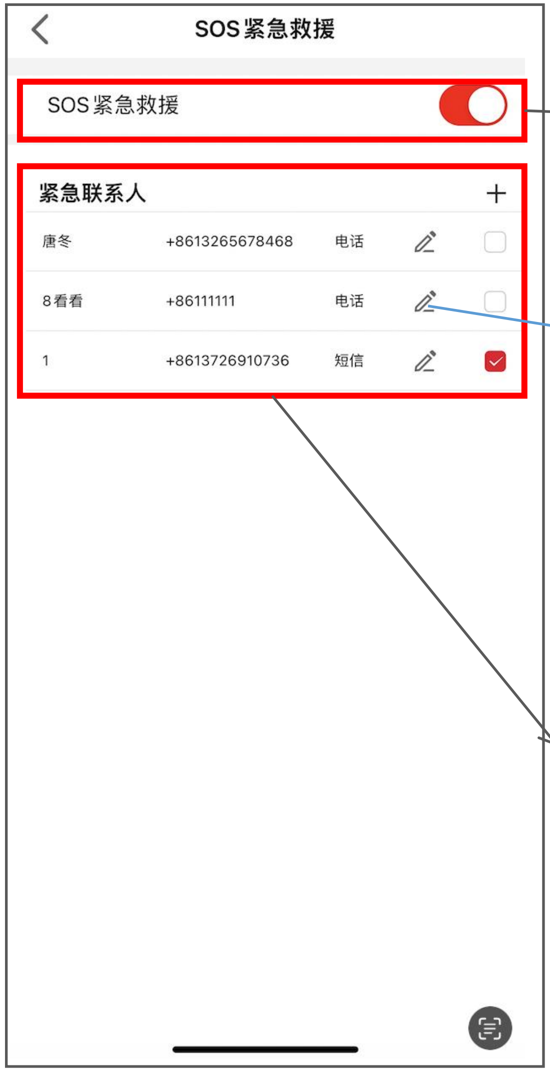


震动灵敏度

震动灵敏度

Adjust the sensitivity level that triggers the vehicle alarm, there are three levels: high, medium, and low.

二、Setting of SOS emergency contacts.



SOS 紧急救援

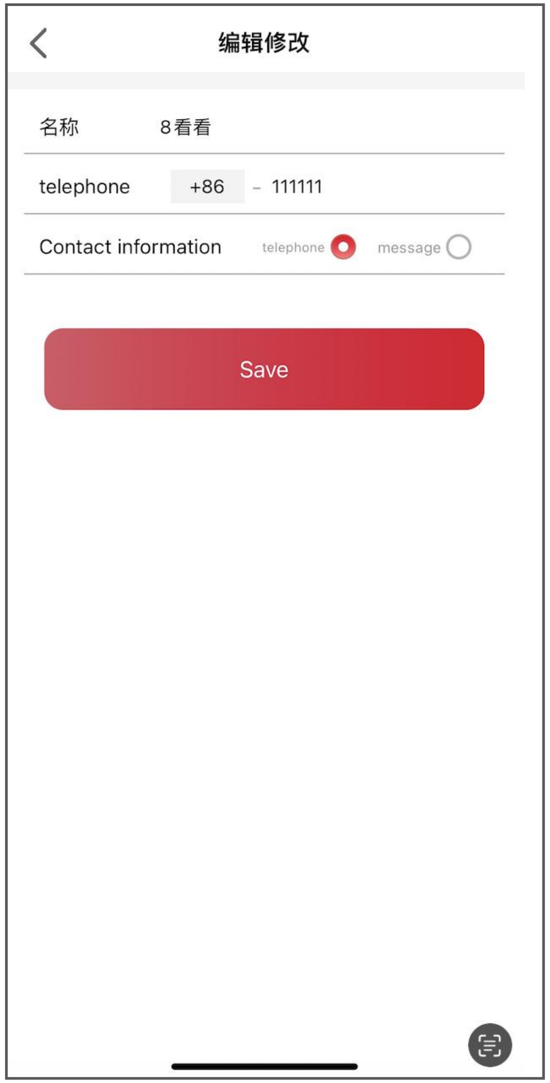
SOS 紧急救援

紧急联系人 ＋

唐冬	+8613265678468	电话	☐
8看看	+86111111	电话	☐
1	+8613726910736	短信	☑

The master switch for the SOS rescue process.

Emergency contact settings:
Up to three emergency contacts can be set.
Only one contact can be selected at a time.
Supports adding, editing, and deleting contact information.



编辑修改

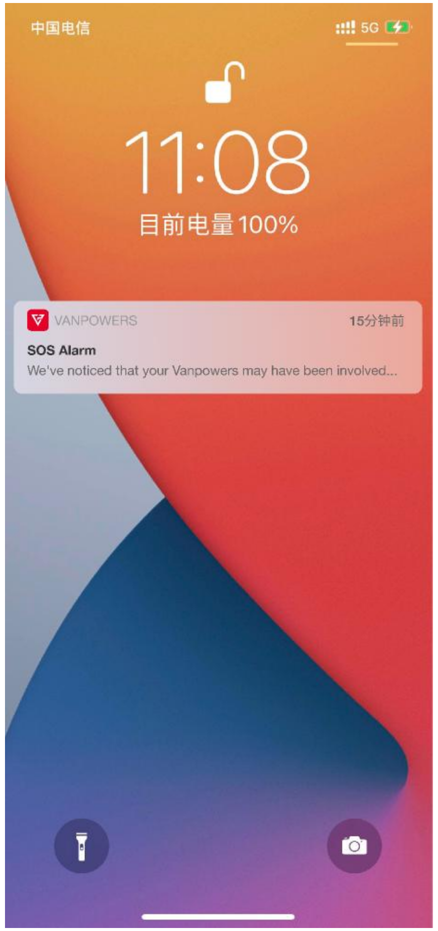
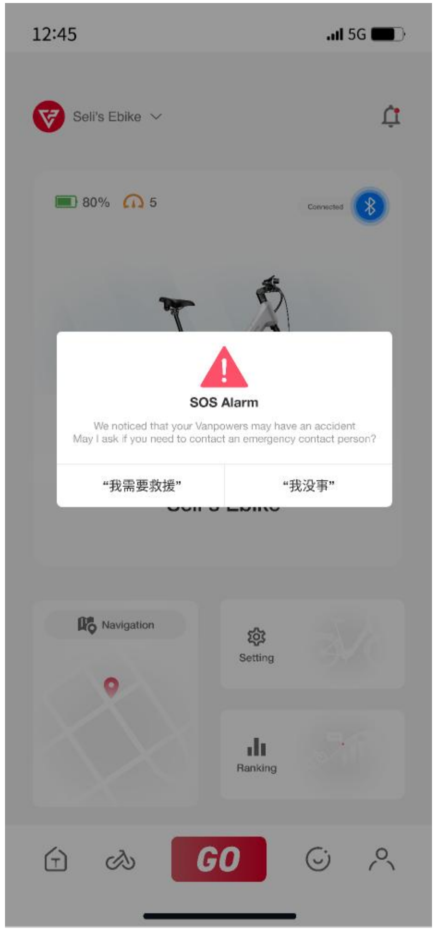
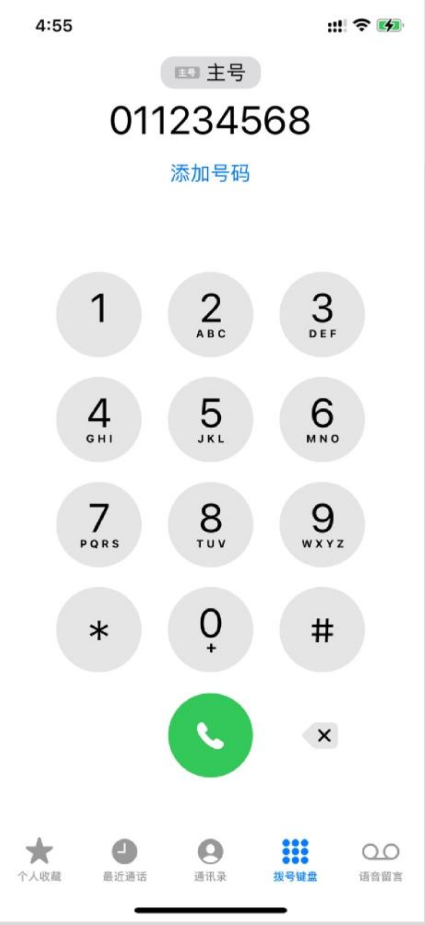
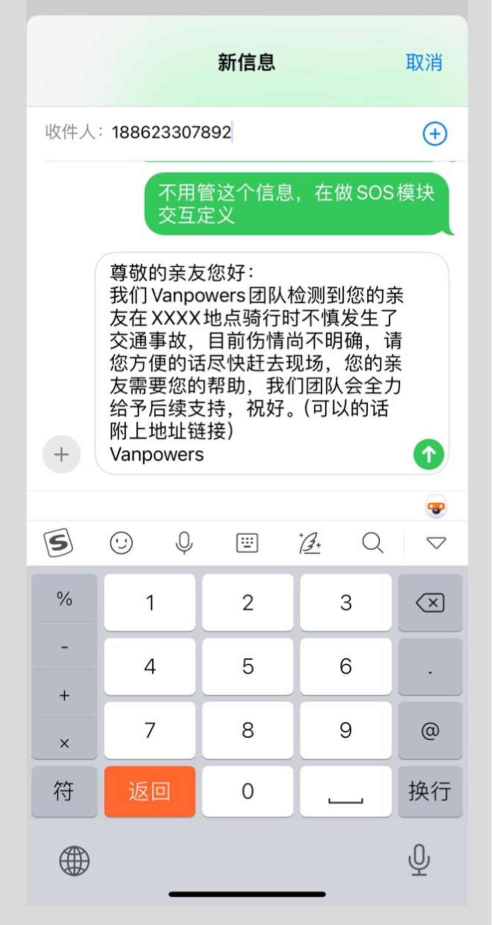
名称 8看看

telephone +86 - 111111

Contact information telephone ● message ○

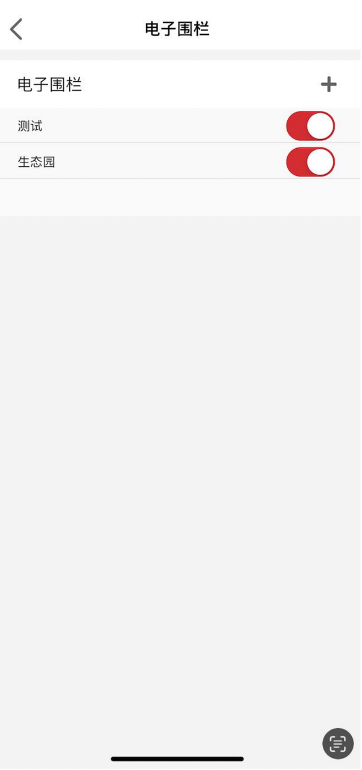
Intelligent Vehicle Infotainment Platform-
TBOX-Vibration Alarm and SOS（2)

三、SOS Emergency Rescue Process.

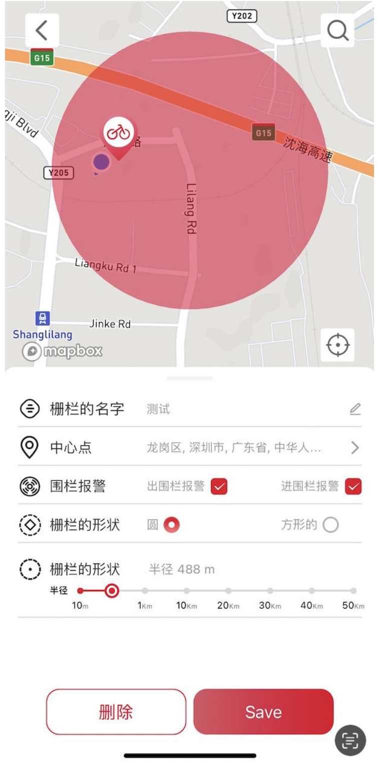
1. When an accident is detected, an SOS rescue notification will be pushed.	v2. After entering the homepage, there is an option of whether rescue is needed. If "I'm fine" is selected, the rescue process ends. If "I need rescue" is selected, the preset emergency contact will be contacted.	3. If the preset contact method is to make a phone call, after selecting "I need rescue", it will jump to the page for making a call.	4. If the preset contact method is to send a text message, after selecting "I need rescue", it will jump to the page for sending a text message.
 中国电信 11:08 目前电量100% VANPOWERS 15分钟前 SOS Alarm We've noticed that your Vanpowers may have been involved...	 12:45 Seli's Ebike 80% 5 Connected Navigation Setting Ranking GO SOS Alarm We noticed that your Vanpowers may have an accident May I ask if you need to contact an emergency contact person? "我需要救援" "我没事"	 4:55 主号 添加号码 1 2 ABC 3 DEF 4 GHI 5 JKL 6 MNO 7 PQRS 8 TUV 9 WXYZ * 0 + # 个人收藏 最近通话 通讯录 拨号键盘 语音留言 011234568	 新信息 取消 % - + × 符 返回 换行 @ 收件人：188623307892 不用管这个信息，在做SOS模块交互定义 尊敬的亲友您好： 我们Vanpowers团队检测到您的亲友在XXXX地点骑行时不慎发生了交通事故，目前伤情尚不明确，请您方便的话尽快赶去现场，您的亲友需要您的帮助，我们团队会全力给予后续支持，祝好。(可以的话附上地址链接) Vanpowers

Intelligent Vehicle Infotainment Platform-
TBOX-Electronic Fence

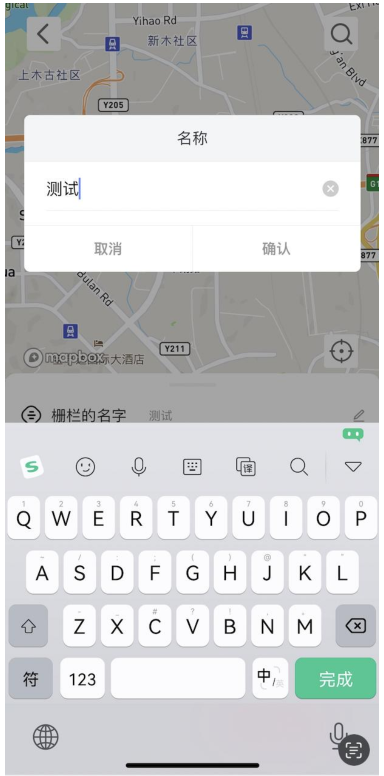
1. Electronic fence overview page, where you can choose to add a fence (up to three), close or open a fence, and enter the fence details page.


电子围栏
电子围栏
+
测试
生态园

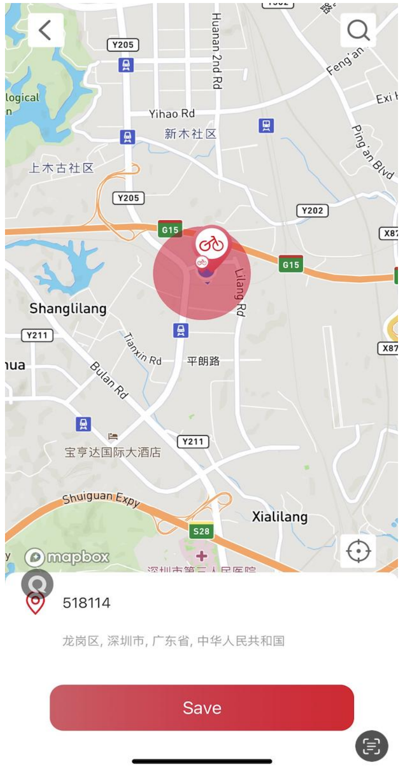
2. Fence details page, which contains the basic information of the fence and displays an overview on the map, where specific parameters can be modified.

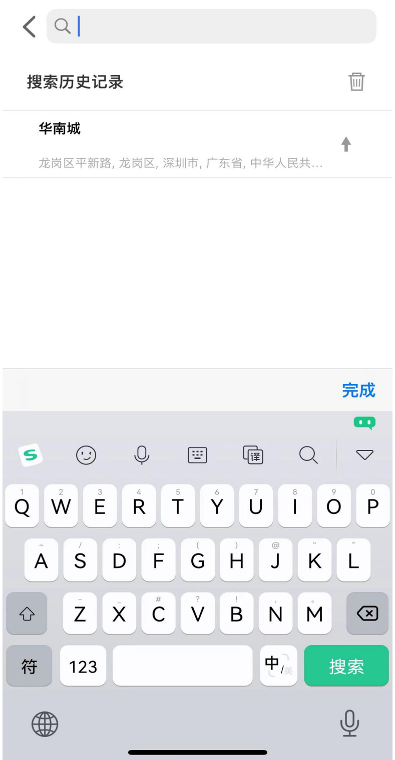

Shanglilang
Jinke Rd
mapbox
栅栏的名字 测试
中心点 龙岗区, 深圳市, 广东省, 中华人...
围栏报警 出围栏报警 ☑ 进围栏报警 ☑
栅栏的形状 圆 ● 方形的 ○
栅栏的形状 半径 488 m
半径
10m
1Km
10Km
20Km
30Km
40Km
50Km
删除
Save

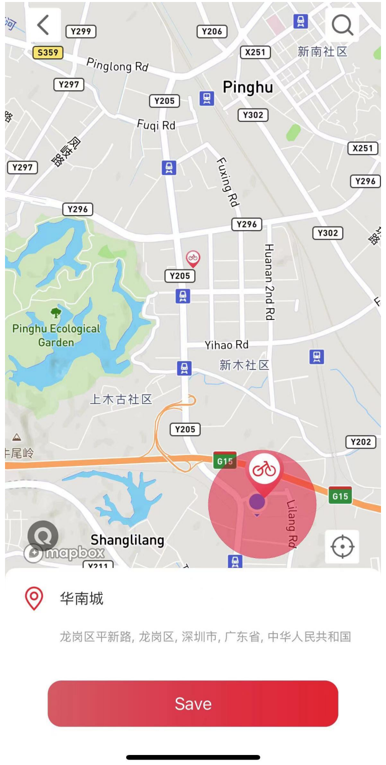
3. The name of the fence can be modified.


名称
测试
取消
确认
栅栏的名字 测试
完成

4. The center point of the fence can be modified, supporting modification by dragging the map and searching for an address. Clicking save will modify the center position of the fence and display it on the map.


Shanglilang
Xialilang
mapbox
518114
龙岗区, 深圳市, 广东省, 中华人民共和国
Save


搜索历史记录
华南城
龙岗区平新路, 龙岗区, 深圳市, 广东省, 中华人民共...
完成
搜索


Pinghu
Pinghu Ecological Garden
Shanglilang
mapbox
华南城
龙岗区平新路, 龙岗区, 深圳市, 广东省, 中华人民共和国
Save

Intelligent Vehicle Infotainment Platform-
TBOX-Vehicle Driving Trajectory

赛维时代
SAILVAN TIMES

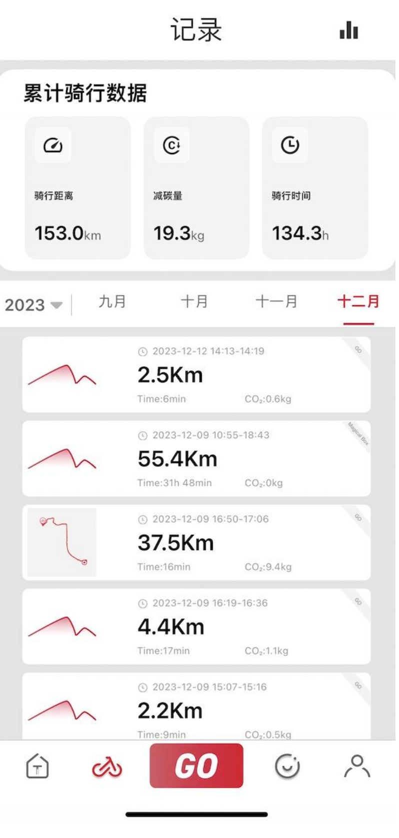
1. Overview page of the trajectory, including riding data accumulated by the TBox end, thumbnails of each trajectory, etc.

2. Detailed page of each riding trajectory. It contains basic riding data and an entry to the trajectory animation.

3. Riding trajectory sharing page, where you can share this trajectory.

4. Riding trajectory deletion page.

5. Animation display of the trajectory, including basic riding data and altitude display.
6. Overall thumbnail display after the end of the trajectory animation.


记录

累计骑行数据

骑行距离 153.0km

减碳量 19.3kg

骑行时间 134.3h

2023 九月 十月 十一月 十二月

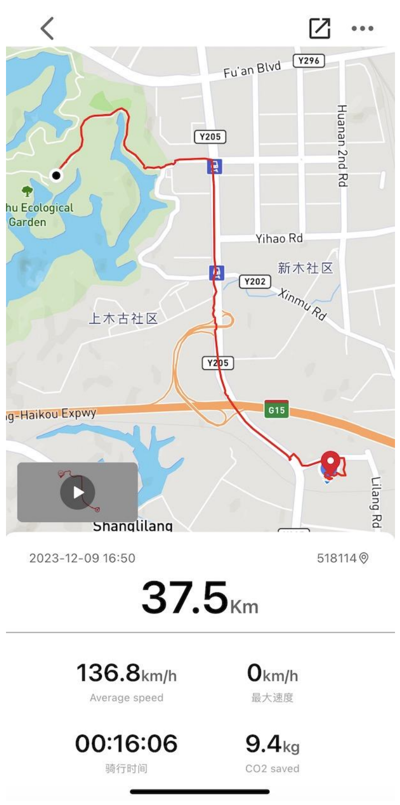
2023-12-12 14:13-14:19
2.5Km
Time:6min CO₂:0.6kg

2023-12-09 10:55-18:43
55.4Km
Time:31h 48min CO₂:0kg

2023-12-09 16:50-17:06
37.5Km
Time:16min CO₂:9.4kg

2023-12-09 16:19-16:36
4.4Km
Time:17min CO₂:1.1kg

2023-12-09 15:07-15:16
2.2Km
Time:9min CO₂:0.5kg


Fu'an Blvd
Y296
Y205
Huanan 2nd Rd
hu Ecological Garden
Yihao Rd
新木社区
Y202
Xinmu Rd
上木古社区
Y205
G15
g-Haikou Expwy
Shanglilang
Lilang Rd

2023-12-09 16:50 518114

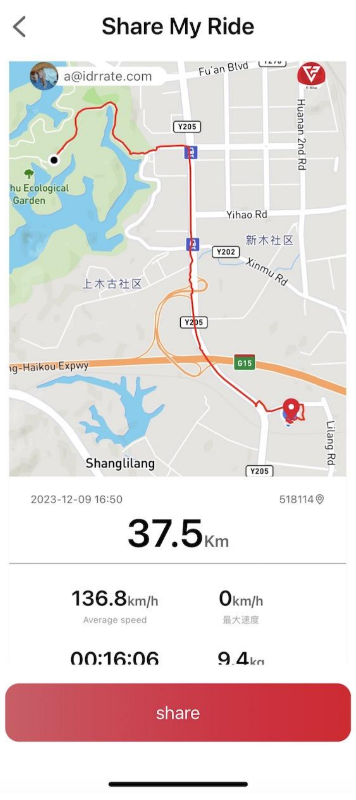
37.5Km

136.8km/h
Average speed

0km/h
最大速度

00:16:06
骑行时间

9.4kg
CO2 saved


Share My Ride

a@idrrate.com

Fu'an Blvd
Y205
Huanan 2nd Rd
hu Ecological Garden
Yihao Rd
新木社区
Y202
Xinmu Rd
上木古社区
Y205
G15
g-Haikou Expwy
Shanglilang
Y205
Lilang Rd

2023-12-09 16:50 518114

37.5Km

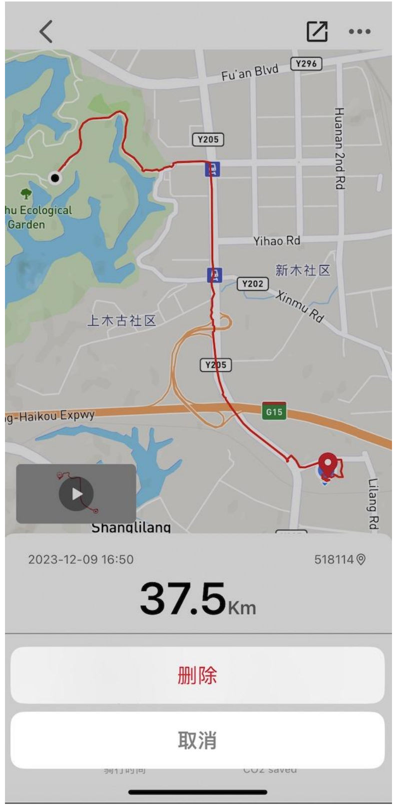
136.8km/h
Average speed

0km/h
最大速度

00:16:06

9.4kg

share

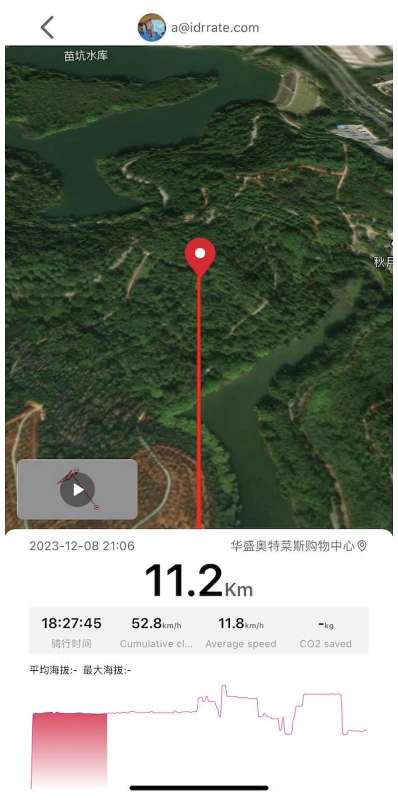

Fu'an Blvd
Y296
Y205
Huanan 2nd Rd
hu Ecological Garden
Yihao Rd
新木社区
Y202
Xinmu Rd
上木古社区
Y205
G15
g-Haikou Expwy
Shanglilang
Lilang Rd

2023-12-09 16:50 518114

37.5Km

删除

取消


a@idrrate.com

2023-12-08 21:06 华盛奥特莱斯购物中心

11.2Km

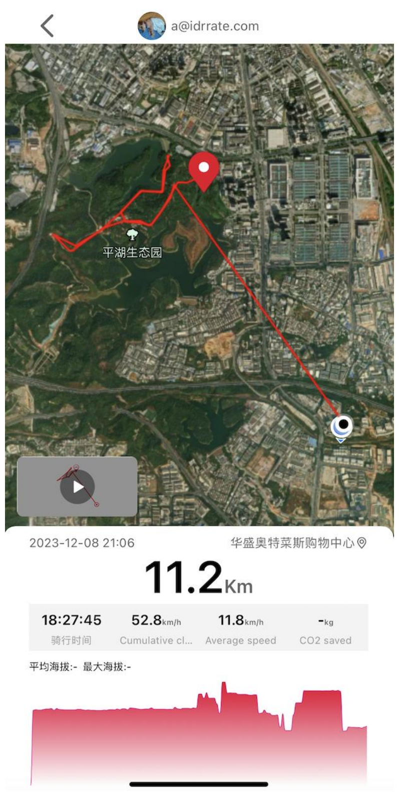
18:27:45
骑行时间

52.8km/h
Cumulative cl...

11.8km/h
Average speed

-kg
CO2 saved

平均海拔:- 最大海拔:-


a@idrrate.com

2023-12-08 21:06 华盛奥特莱斯购物中心

11.2Km

18:27:45
骑行时间

52.8km/h
Cumulative cl...

11.8km/h
Average speed

-kg
CO2 saved

平均海拔:- 最大海拔:-

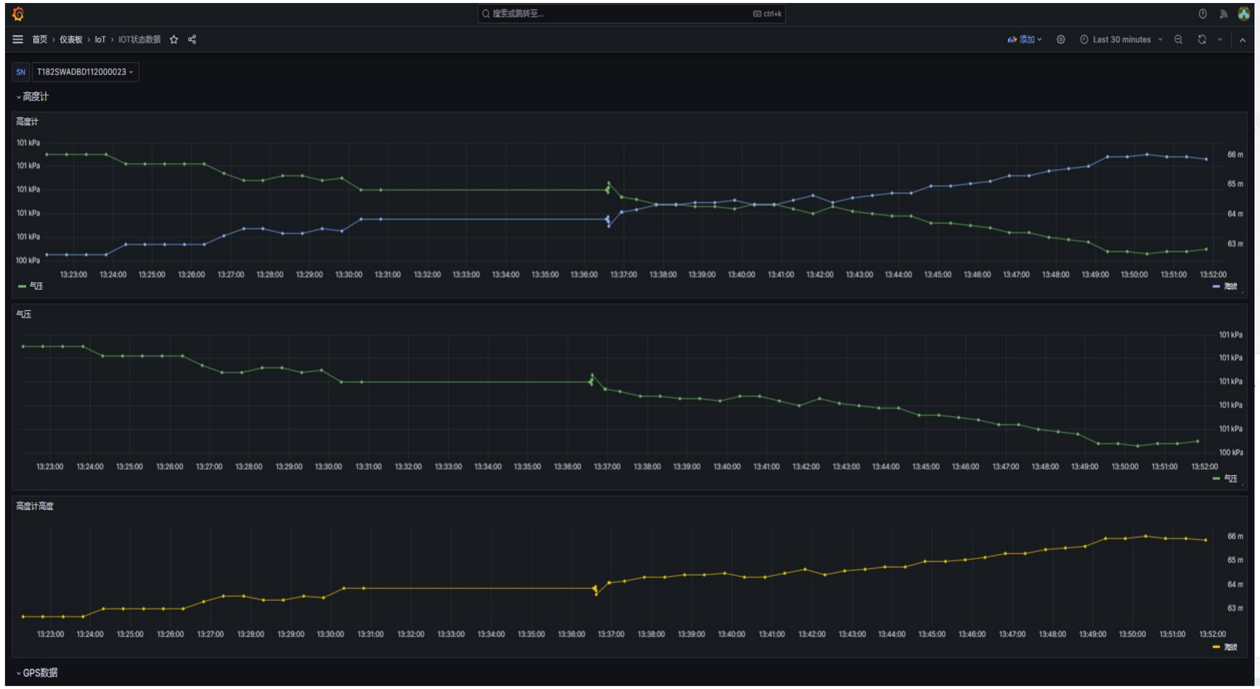
Intelligent Vehicle Infotainment Platform-TBOX
Data Collection, Providing Basis for Optimization

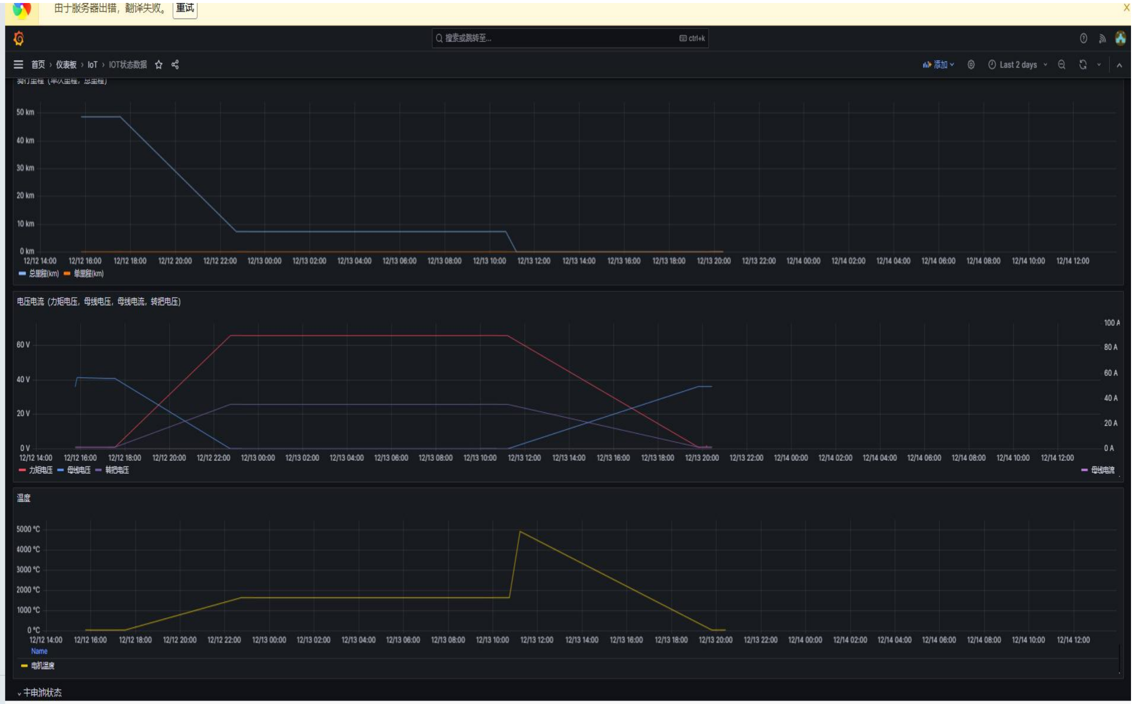
赛维时代
SAILVAN TIMES

序号	数据类型	数据项
1	Device Information	time
		Model number
		Software version number
		ICCID
		IMEI
		Bluetooth Mac
		Bluetooth SN
		GPS signal strength
		Mobile signal strength
		Terminal state
2	Satellite Positioning	Number of GPS satellites
		GPS status
		Anchor point 1 longitude
		Anchor point 1 latitude
3	Base Station Data	ID
		MCC
		Base Station1:MNC
		Base Station1:LAC
		Base Station1:CELL-ID
		Base Station1(RSSI)
4	WiFi_Mac	WiFi1:BSSID
		WiFi1:level
		WiFi1:SSID
5	Battery Data	Main battery SN
		Main battery SOC
		Main battery SOH
		Number of main battery charging cycles
		Remaining time when the main battery is charged
		Remaining capacity of the main battery
		Main battery full capacity
		Total voltage of main battery
		Total current of the main battery
		Each cell battery voltage
		Battery fault code
		Charging current
		Discharge current
		Cell temperature
6	Vehicle Condition	Endurance Mileage
		Single Trip Mileage
		Total Mileage
		Riding Status
		Electric Door Lock Status
		Charger Connection Status
		Charger Connection Status
		Single Ride Duration
		Total Riding Time
7	Electric control	Vehicle Speed
		Vehicle Speed
		Motor Status
		Motor Alarm
		Riding Cadence
		Torque Output Voltage
		Average Speed
		Maximum Speed
		Motor Input Power
		Motor Speed
		Motor Temperature
		Bus Voltage
		Bus Current
		Historical Error Information
		Power-off Brake Status
		Scheme Type
		Hardware Version Number
		Software FLASH Version Number
		Boot Program Version Number
		Controller Working Status
		Controller Mode
		Buzzer
		Controller SN
		Tail Light Status
		Electric Door (Handlebar Angle)
8	Trigger Alarm	Vibration Alarm
		Power-off Alarm
		Tilt Alarm
		Roll-over Alarm
		Destruction Alarm
		Electronic Fence Alarm
9	Terminal Fault Alarm	Gsensor Status
		GPS Status
		CAN Communication Status
		Mobile Communication Status
		Altimeter
		Watchdog Status
10	Vehicle Fault	Fault Quantity
		Fault Code
11	Altimeter	Altitude
		Air Pressure
12	G-sensor	Raw Data
13	Riding Posture	Right Handlebar Pressure Value
		Left Handlebar Pressure Value
		Saddle Pressure Value
14	Health Monitoring	Heart Rate
		Blood Pressure
		Blood Oxygen Saturation

Intelligent Vehicle Infotainment Platform-
TBOX Backend Display

赛维时代
SAILVAN TIMES


搜索或跳转至...
ctrl+k
首页 › 仪表板 › IoT › IOT状态数据
添加
Last 30 minutes
SN
T182SWADBD112000023
高度计
高度计
101 kPa
100 kPa
66 m
65 m
64 m
63 m
13:23:00
13:52:00
气压
高度
气压
101 kPa
100 kPa
高度计高度
高度
GPS数据


由于服务器出错，翻译失败。 重试

搜索或跳转至...
ctrl+k
首页 › 仪表板 › IoT › IOT状态数据
添加
Last 2 days
50 km
40 km
30 km
20 km
10 km
0 km
12/12 14:00
12/14 12:00
总里程(km)
单里程(km)
电压电流（力矩电压，母线电压，母线电流，转把电压）
60 V
40 V
20 V
0 V
100 A
80 A
60 A
40 A
20 A
0 A
力矩电压
母线电压
转把电压
母线电流
温度
5000 °C
4000 °C
3000 °C
2000 °C
1000 °C
0 °C
Name
电机温度
丰申洳状态

http://ebike-ops-test.sailvan.net/grafana/d/da3a5985-1f00-4bb9-a2e6-ffaf970489fe/iot%E7%8A%B6%E6%80%81%E6%95%B0%E6%8D%AE?orgId=1&var-sn=T182SWADBD112000011&from=1702185095043&to=1702213211328

Intelligent Vehicle Infotainment Platform-Standard Vehicle Configuration" vs "Vehicle + Optional Tbox

Serial number	Class item	Standard Vehicle Configuration Tbox	Vehicle without TBOX
1	Bluetooth Seamless Entry	support	Do Not Support
2	Highlight Brake Lights	support	Do Not Support
3	Anti-theft Positioning	support	Do Not Support
4	Whole Vehicle Data Collection	Complete Whole Vehicle Data Collection	Limited Data Collection in APP Scenario
5	Audio, Light, and Electrical Alarm	support	Do Not Support
6	SOS Emergency Rescue	support	Do Not Support
7	User Riding Posture	support	Do Not Support
8	Whole Vehicle OTA	Achieve Whole Vehicle OTA	Limited Data Collection in APP Scenario
9	Assisted Riding	Display, Battery, Electronic Control Motor Usage	Display, Battery, Electronic Control Motor Usage

FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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.

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

Specific Absorption Rate (SAR) information:
This Intelligent Terminal meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health.

FCC RF Exposure Information and Statement

– This radio is designed for and classified as "General population/uncontrolled Use", the guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health.The exposure standard for wireless radio employs a unit of measurement known as the Specific Absorption Rate, or SAR, the SAR limit set 1.6W/kg.

– Body-worn operation; this device was tested for typical body-worn operations with the back of the handset kept 0mm for body worn. To maintain compliance with RF exposure requirements, use accessories that maintain a 0mm for body worn. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with RF exposure requirements, and should be avoided.

– The highest reported SAR value for worn on the body is 1.207 W/kg.