F207 User manual
Real-time tracking | Remote Training Collar Tracer

Document information	
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Revision History

Version	Description	Make	Date
V1.01	Initial version	Wilson	20220517

Product list

NO.	product name	Amount	Remark
1	GPS tracker	1	
2	Magnetic suction USB charging cable	1	
3	Screwdriver	1	
4	Operation instruction	1	
5	Warranty card	1	
6	Conformity certificate	1	

Contents

1. Product Introduction

This product is based on LTE / GPRS network and GPS satellite positioning system. It is the most technologically advanced dual positioning of GPS and AGPS. IPX-68 waterproof professional is designed for individuals and hound. A new pet tracker and activity state 4G GPS locator for pets.

Figure 1 F207 Product picture

2. Functional Characteristics

◆ Real-time tracking / AGPS assisted positioning;

◆ Upload methods: timing, real-time mode;

◆ Vibration dog training in multiple modes, and its own speaker;

◆ Virtual fence / history track playback / displacement / low power alarm etc., alarm data upload to cloud background;

◆ Real-time health oversee (sleep, step counting);

◆ LED indicator: charging, GPS, communication, dog training status;

3. Product Parameter

Product name	4G Pet（Dog training）GPS Tracker
Model	F207
Suitable Object	Dog and other medium or large-sized animals

4G Bands（Option）	A/North America version A: 　LTE-FDD—B2/B4/B12; WCDMA—B2/B5 　Europe version E: 　LTE-FDD—B1/B3/B5/B7/B8/B20 　LTE-TDD—B38/B40/B41 　WCDMA—B1/B5/B8;GSM—900/1800MHz South America SA: 　LTE-FDD—B1/B2/B3/B4/B5/B7/B8/B28 　LTE-TDD—B40 　WCDMA—B1/B2/B5/B8;GSM—850/900/1800/1900MHz
Network	GSM/GPRS/LTE
Battery	Polymer lithium battery
Start-up time	Cold start 35s-80s
	Hot start 1s
LTE Module GPS accuracy	10m
	Sim7600
GPS sensitivity	-159dBm
Operating temperature	-20℃~70℃
Operating humidity	5%-90% Noncondensing
Storage temperature	-40℃ ～85℃
IP grade	Soak in 1.5m water depth
SIM card	Nono-card，self-bouncing card
Dimension	88*44*32mm
Weight	65g

4. LED Indicator Definition

Red indicator - System indicator

Status of indicator	Meaning
Flash	Normal working

Not bright	Standby or fault

Green indicator - GSM/LTE signal indicator

Status of indicator	Meaning
Continuously in bright status	Communication initialization
Flash	Communication is normal
Not bright	Standby or fault

Blue light -GPS signal indicator

Status of indicator	Meaning
Continuously in bright status	Searching for GPS signals
Flash	GPS signal is normal
Not bright	Standby or fault

Note: When the device is in power-saving sleep mode, the device will be shut down after 5 minutes (configurable) if there is no operation indicator.

5. Device Start up

1. Open the USB rubber plug by hand, Insert a Nano SIM card support LTE/GSM/GPRS network into the slot and make sure the chip side is up.

2. Switch the power button,the device would turn on.

3. Set admin number, by sending a SMS command to the SIM card inside device. For example: admin123456 86132********* (86132*********should be your phone number).

4. Set APN: APN123456 CMNET (please use your local APN instead of CMNET, if you do not know the APN content,you should contact your SIM card supplier)

Or Start up (that to active device)

The three steps to activate the device connection platform are as follows:

1. Open the cover by screwdriver, Insert a nano SIM card support LTE/ GSM/GPRS network into the slot and make sure the chip side is up.

2. Turn on the unit outdoors by Pushing the button to"On"the indicator is on. (when the green light and blue light are both flashing , you can do setting by step as below:)

Set admin number,APN and open GPRS as below:

Step	SMS format for setting	Reply from uni
1.Set admin	admin123456+space+your phone number	Admin OK
2.Set APN(abroad)	apn123456+ space+local apn content	APN OK
3.Set IP or domain (Factory default)	SZCS,123456,DOMAIN=a.lk gps.net:7700	SET IP OK
4.Query parameters	Param1	Software version, ID, IP address, port, domain name, and APN
5.Detection signal status	status	BAT: 6; GPRS: 1; GSM: 2; GPS: 1; ACC: 0; Oil: 0; Power: 1; S: 0
6.Dialing the device	Get latitude and longitude and Google location links to activate the device	

6. APP and SMS instructions

Function	Descriptions	APP support	SMS support	Command Format
Master number	Set the mobile phone number for receiving alarms	YES	YES	admin123456 cell-phone number
Frequency of upload	Set the frequency of uploading device location and other information(Unit: second)	YES	YES	Upload123456 frequency
Time zone	Setting the Device Time Zone	YES	YES	Timezone123456, time zone
Sensitiveness to shock	Set vibration sensitivity of equipment	YES	YES	vibxyz123456,3,5,5,5
Power saving mode	In power-saving mode, vibration cannot wake up the	YES	YES	sleep123456 time

	device, GPS is off, SMS phone keys can wake up the device for 5 minutes			
Vibration of dormancy	In vibration mode, the vibration can wake up the device to work for 5 minutes. If the vibration continues, the device will work continuously	NO	YES	sleep123456 shock
Electronic fence	Electronic fence can be edited through the web page or APP. Warning messages will be sent when the device enters or exceeds the electronic fence	YES	NO	
Low battery alarm	If the built-in battery is less than 3.7V, the device will report a low power alarm	YES	YES	LOW,1 ON /LOW, 0 OFF
Time to upload	The device periodically uploads location and other information at a set frequency.(Unit: second)	YES	YES	upload123456,3600
点名/Call the roll	发送点名消息，设备从休眠状态进入工作状态，工作 5 分钟，上传位置信息/ Send the roll call message, the device from the sleep state into the working state, work for 5 minutes, upload location information	YES	YES	d123456
Dormancy online	When the device is sleeping, keep the network connected to ensure that the APP can send commands	NO	YES	gprson123456,1
Dormancy offline	When the device is sleeping,	NO	YES	gprson123456,0

	close the network connection and app cannot send instructions			
To change the domain name, IP	Example Change the domain name or IP address	NO	YES	szcs,123456,domain= a.zg666gps.com:7700
Language settings	Modify the text reply language	NO	YES	Lag1 (English) lag2(Chinese)
APN settings	Example Set the APN of the device	NO	YES	apn123456, Access Point ; apn123456, Access Point, User name ; apn123456, Access Point, User name, Password
Factory reset	Restore the factory Settings of the device	YES	YES	format
Remote restart	Restarting the device	YES	YES	RST
Parameter Query 1	View software version number, device ID, domain name, APN, network signal, defense status, vibration sensitivity	NO	YES	param1
Parameter Query 2	Check the main control number, SOS number, and defense parameters	NO	YES	param2
Query status	Check battery, network, GPS status, etc	NO	YES	status
Do Not Disturb	Set the do not disturb period, during which the device enters the flight mode	YES	NO	
Turn off do not disturb mode	Cancel the Do not Disturb function	YES	NO	
Step down the switch	This feature is not currently implemented	YES	NO	
Weak vibration	When the command is issued, the equipment will	YES	NO	

	vibrate 10 times, and the vibration intensity is weak			
Moderate vibration	Send the command, the equipment will vibrate 10 times, vibration intensity	YES	NO	
Strong vibration	Send the command, the equipment will vibrate 10 times, vibration intensity is strong	YES	NO	
Voice	When the command is issued, the device will beep for 10 consecutive seconds	YES	NO	
Finding indicator light	When the command is issued, the red light of the device blinks continuously	YES	NO	
Language play	The voice in the APP will be delivered to the device to play	YES	NO	
Upgrade instructions	Check whether the software has a new version. If yes, the software is automatically upgraded	NO	YES	CheckUpdate

7. Download phone APP

1. Android mobile phone: Scan above QR to download;

2. Ios: search"LKGPS2"   in the app store or Google play store to download.

8. Log in by website and phone APP
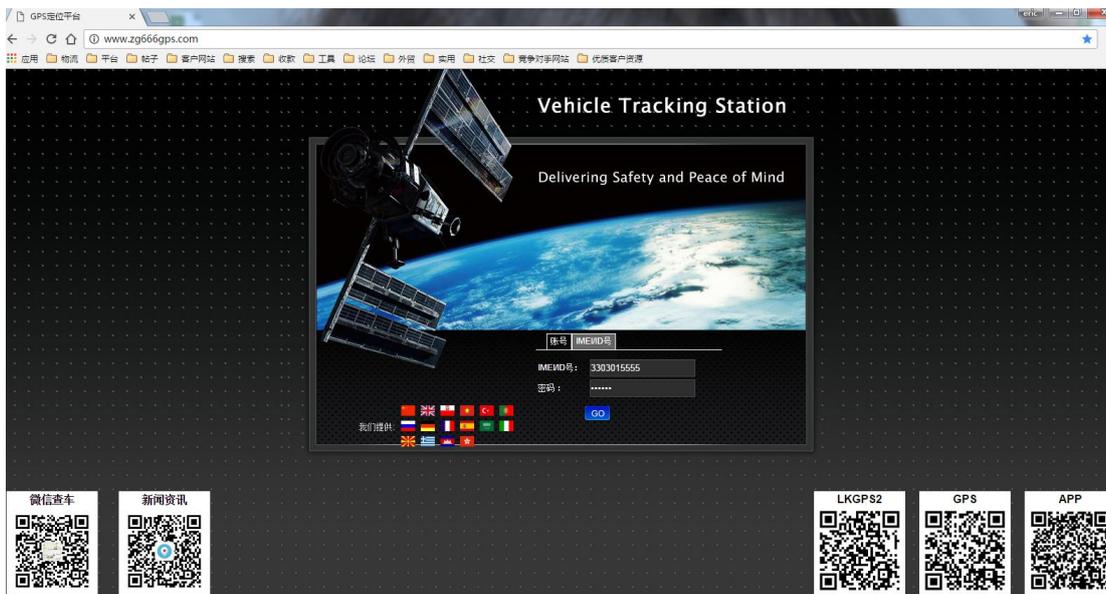
Type www.zg666gps.com/www.lkgps.net in the browser address bar, click the enter key.

Select IMEI, enter 10 digits of device ID, and the default password is 123456. Click GO to log in.

8.1 Log in by Phone APP

Please refer to the picture below：

Select "IMEI / ID login" for the first login, select "666" for the first column of address, input 10 digits on the device barcode, and the default password is 123456, Click "log in" to log in. After logging in, set up and improve the user information, you can use other login methods.

Note:

(1) The optional items in the address column of the first column: select "666" for domestic users and "lkgps" for foreign users;

(2) Error "wrong user name or password" appears in the address bar, unable to log in normally.

8.2 App usage introduction

The settings include: reminder settings (mobile phone sound and vibration settings), password modification, skin replacement, instructions for use (multi version instructions), log out of the current login.

More settings include: command issuing (instruction 1, instruction 2, instruction 3, instruction 4, instruction 5, instruction 6, instruction 7, instruction 8, instruction 9) Electronic fence, equipment information (equipment name, equipment number, expiration time, equipment model, equipment SIM

card number, type, gender, weight, age, birthday, owner name, owner phone number, icon), product description, equipment message.

Instruction: instruction 1, instruction 2, instruction 3, instruction 4, instruction 5, instruction 6, instruction 7, instruction 8, instruction 9.

Health: step counting, sleep

Note: If you need to use a multi machine version of the advanced account, please contact the equipment manufacturer. You can use it after opening the exclusive account. The software operation interface is slightly different.

8.2.1 Dog training function

Instruction set

| Operation interface | Send command | Long press rename instruction name |

Command setting(edit command name from APP)

Default instruction name	command function	Vibration mode
Command 1	Weak vibration 0.5 s	One Vibration for 0.5s
Command 2	Weak vibration for 10s	Interval Vibration，0.5s every time，20times, for 10s
Command 3	Moderate vibration for 0.8s	One Vibration for 0.8s
Command 4	Medium vibration for 0.8s	Interval vibration，0.8s every time，13 times for 10s

Command 5	Strong vibration for 2s	One Vibration for 2s
Command 6	Interval vibration For 10s	Interval Vibration, 1.25s every time，9 times for 10s
Command 7	"Ticking" for 0.5s	One ticking for 0.5s
Command 8	"Ticking" for10s	Interval ticking，0.5s every time，20 times for 10s
Command 9	On：Light flashes	Off：Light turns off

8.2.2How to use health Oversee interface

9. Faults & The solutions

Q：Start up Fail?

A：Please fully charge the device before turning it on.

Q：The device can not obtain location information?

A：Please place the device in an open area for testing. There is no GPS signal in the room.

Q：How to choose SIM card?

A：The SIM card must support LTE&GSM&GPRS network, please make sure the balance in the card is sufficient and there is enough traffic.

Q: Whether the equipment can be used overseas?

A：Overseas customers need to set the APN before normal use. Edit the SHORT message APN123456 CMNET and send it to the SIM card of the device. Cmnet is the APN of the mainland carrier.

10. Cautions

Please be sure to follow the instructions when using:

1.Keep the device in a dry environment. The internal circuit may be damaged in a damp environment.

2.Please do not place it in too hot or cold places..

3.lease do not shake the equipment violently during use.

4.If soiled, clean up with a dry cloth. Do not use chemicals or cleaners.

5.Please do not paint the equipment, this may cause internal circuit failure.

6.Do not disassemble or disassemble equipment.

11. Contact information

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