

# **GPS Tracking Device**

Model NO.: M508

# User Manual

Version: Rope-E160704

Notes:	1
1. Product Introduction	
2. Characteristics	3
2.1 Red LED (power/working status)	3
2.2 Blue LED(GPS status indicator)	3
2.3 Green LED (GSM status indicator)	3
2.4.Specifications	4
2.5 Device outlet specification	4
2.6 Device wiring diagram	5
3. Method of installation	6
3.1. Preparation before installation	6
3.2 Installation.	
4. Web based tracking online activation	7
5. SMS Configuration	7
6. Trouble shooting	10



#### **Notes:**

- Please mount the device steadily on the flat place before using;
- Please make sure the voltage value is right before connecting with battery, and placing the wires to where shouldn't be trodden;
- Please power off when plugging or taking out of any module or connector;
- Please keep the device dry and don't let any liquid fall into the device in case any damage caused in the device or circuit;

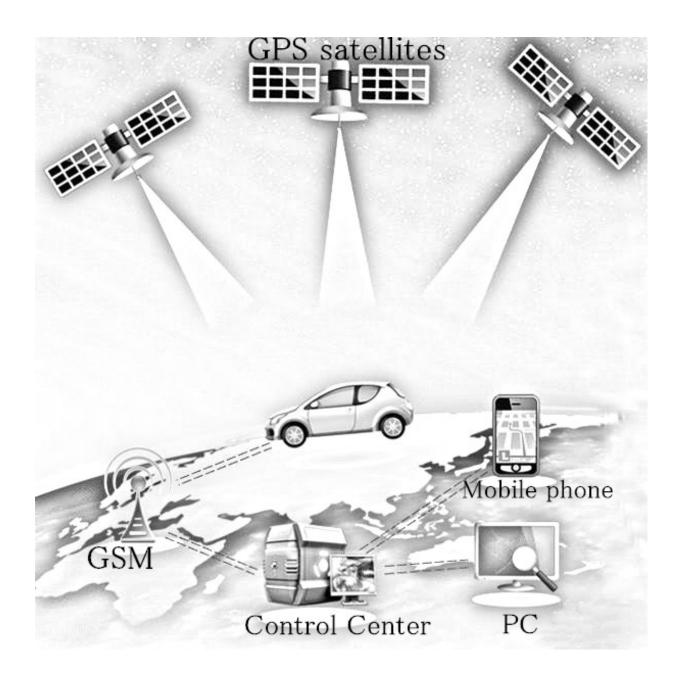
If any problem caused as follows, please turn to professional technician:

- When power wire, keyboard, or socket are damaged;
- When liquid infiltrating into the device;
- When the device work unusually or cannot resume to normal even operated according to the instruction;
- When the device cannot work as usual after falling, throwing or breaking;
- When there is obvious damage in the device.



#### 1. Product Introduction

GPS Tracking device mainly consists of two parts such as GPS module and GSM module. GPS module is for getting location data from satellite, and GSM module is for transferring data to server so that people can check the information via PC or mobile phone. Our GPS Tracking device, with the best quality, stable performance and versatile functions, can be applied to various kind of fleet management like construction trucks, rental cars, logistics vehicles and public transportation, anti-theft system and security purpose.





#### 2. Characteristics

- 1) GSM 850/900/1800/1900 Quad band
- 2) Wide for voltage input range: 11-50VDC(can customized 40-90VDC)
- 3) GPS continuous positioning, GPRS timing interval
- 4) Get location via SMS & web platform & APP.
- 5) Built-in vibration sensor, theft-proof
- 6) ACC ignition detection, car status prompt
- 7) Tele-cutoff (petrol/ electricity) remotely
- 8) Setting three SOS numbers for voice monitoring remotely and received SOS alarm
- 9) Emergency alarm
- 10) Voice monitor function
- 11) Power off alarm when the power supply is disconnected intentionally (with backup battery)
- 12) Support geo-fence alarm, over speed alarm

#### 2.1 Red LED (power/working status)

LED Status	Meaning
Alway keep on	Working normally
Continuously in dark state	Power off/Internal fault

#### 2.2 Blue LED(GPS status indicator)

LED Status	Meaning
Fast Flashing (bright 0.1s dark 2.9s)	GPS located
Slow flashing(bright 1s dark 2s)	Searching GPS signal
Continuously in dark state	Power off/Internal fault

#### 2.3 Green LED (GSM status indicator)

LED Status	Meaning
Fast Flashing (bright 0.1s dark 2s)	GSM working
Slow flashing(bright 1s dark 2s)	Start GSM
Continuously in dark state	Power off/Internal fault
Alway keep on	Dialing out /talking

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# 2.4. Specifications

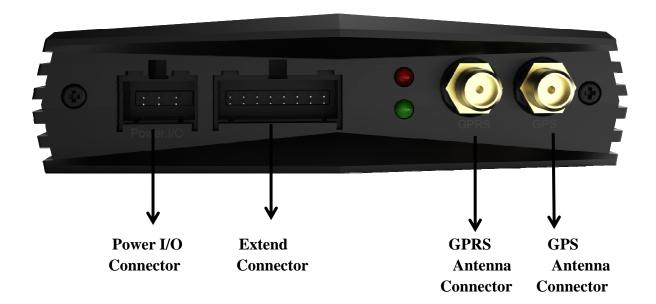
Items	Parameters
work voltage	11VDC-36VDC
work current	50mA-160mA
GSM module	inside contain frequency GSM 850/900/1800/1900Mhz
Communication protocol	TCP
GPS module	Ublox 7
GPS sensitivity	-165dBm
C/A coding	1.023 MHz chip rate
Position accuracy	5-15m
Cold boot	26s
Work temperature	-20∼70℃
Humidity	5% to 95% noncondensing
Gravity Acceleration	<4g
Operating Temperature	-20°C—65°C
Humidity	5%—95%
weight	50g

# 2.5 Device outlet specification

Line No.	Specification	Color	Instruction
1. 2	microphone	red/black	Connect to Microphone
3. 4	Power	Black(V-) red (V+)	Connect to vehicle storage battery
5	ACC	white	Connect to ACC ignition
6	Motor	yellow	Connect to relay control line
7.8	SOS button	red, black	Connect SOS button



#### 2.6 Device wiring diagram



#### **Power I/O Connector:**

- 1. Black and purple cables for microphone
- 2. Black cable to power+
- 3. Red cable to power-
- 4. White cable to ACC
- 5. Yellow cable for relay(from relay to tracker: yellow to yellow, black to black)

#### **Extend Connector:**

# 1. The first row:

1st cable to power+ of camera

2nd cable to GND

3rd cable to RX of fuel sensor

4th cable is for >5V high voltage detection

5th cable is for >5V high voltage output

6th cable is for >5V high voltage output

7nd cable to GND

8nd cable to power+ of speaker

#### 2. The second row:

1st cable to TX of camera

2nd cable to RX of camera

3rd cable to TX of fuel sensor

4th cable is for AD input

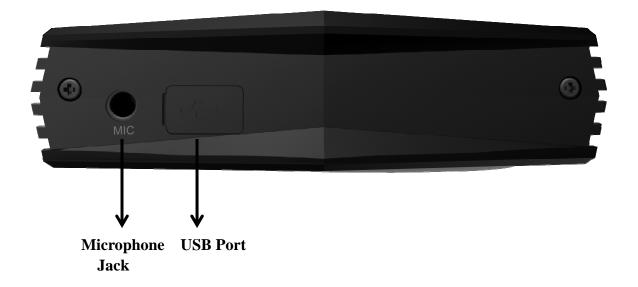
5th cable is for <5V low voltage detection

6th cable to TX of RFID reader

7nd cable is RX of RFID reader

8nd cable to power- of speakerThe 8nd cable to power- of speaker





#### 3. Method of installation

#### 3.1. Preparation before installation

- 3.1.1 Open the packing box to check whether the type of device is correct and whether the accessories are included, or else please contact your distributor.
- 3.1.2 Choose SIM card: each device needs to insert a GSM SIM card.

Please refer to the distributor's suggestions to choose the SIM card.

3.1.3 Installing SIM card into the tracker, open the device with screwdriver and put the SIM card into the tracker (do not insert the SIM card backwards).

Note:

Power off before installing SIM card, or removing the SIM card

The SIM card should have GPRS charge

Ensure the SIM card is able to send the receive SMS

#### 3.2 Installation

The device installation is covert. Please refer installation to an auto electrical contractor.

#### NOTE:

- 3.2.1 To prevent theft of the device, it should be installed as covertly as possible. Covertly installation is suggested.
- 3.2.2 Avoid placing the device close to higher power electrical devices, such as reversing radar, anti-theft device or other vehicle communication equipment;
- 3.2.3 The device should be fixed into position with cable ties or wide double-side tape.
- 3.2.4 The device has built-in GSM antenna and GPS antenna. During installation, please make sure the receiving side face is up, with no metal object above the device to interfere with GPS reception. The



following places are suggested for installation:

- -shelter in the decorated board below the front windshield;
- -shelter around the front instrument panel (non-metallic material face);
- -in the decorated board below back windshield;

#### 4. Web based tracking online activation

The GPRS web based tracking platform allows real time tracking with the latest Google maps.

Service platform login website: <a href="http://211.154.139.208:8000/webgps/">http://211.154.139.208:8000/webgps/</a>

Vehicle management platform website: <a href="http://211.154.139.208:8000/vms/">http://211.154.139.208:8000/vms/</a>

After you added device successfully on the VMS platform , you can send the SMS Commands to activate device

1. Set IP and PORT

SMS command format:

ss,apn,user\_name,user\_code,ip,port,system number,password

**E.g.**:

ss,cmnet, , ,211.154.139.208,7000, 13862626201,123456

Notes:

If no username and password, please leave it blank,

e.g: ss, apn, , ,IP,Port ,system number,Password

the system number on the platform should be the last 11digital number ,start from 13

eg: 13862626201

#### 5. SMS Configuration

3. SIVIS CUIII	ngur anon	
Function	Command	Notes
change	pwd,old_pwd,new_pwd	Default password is 123456
password	Eg: pwd,123456,666666	Replied SMS:
		Config OK=Set successfully
		Config failed=fail to set
set SOS specific	service,phone1,phone2,phone3,password	When configure OK, when press SOS
number	Eg:	button, device will sends the information to
	service ,13512345001,13512345002,135	the service number that has been set up after
	12345003,123456,	the alarm is triggered.
		SOS Information content: Your Vehicle
		Triggered emergency alarm, now the location
		Of the car is http://maps.google.com/maps?q=
		Latitude, longitude
Delete SOS	service, , , ,123456	You can choose to delete some or all the
specific number	To the number you want to delete, just	SOS specific numbers.
	leave it blank between",, "	
	For example, if you want to delete phone	
	number 1, the sms command as below:	
	service, ,phone number 2,phone number	
	3,123456	

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	If want to delete all the 3 specific	
	numbers. SMS Command is:	
	service, , , ,123456	
Checking	param,password	Setting parameters of reply terminal
Parameter	e.g: param,123456	Reply of terminal: TCP, APN, APN user
setting	Replied SMS content, eg	name, APN password, port, system number
	TCP, CMNET, 1, 1, 211.154.139.208,	When the password is worng, it will reply
	7000, 13188888888	as:Get status failed
Reboot device	Restart,password	After receiving this command, the
	Eg: restart,123456	device will reboot after 1min
	_8	
Restore factory	ResetPwd	Set successfully = Setting password has
password		been recovered to be 123456
P was or w		000010001000100000000000000000000000000
Check GPS	tgoogle,password	After sending this command to device
location	68 - 98 - 17 - 12 - 12 - 12 - 12 - 12 - 12 - 12	successfully, it will reply a location
		Google Map Link, you can check where
		the car is by clicking Link.
Close oil	disable eng, password	After the command is carried out, it will
		reply: Disable engine OK
		To ensure the safety of the driver and
		the car, this command is valid only
		under two conditions: the GPS is
		located; the speed is less than 15km/h.
Recovery oil	enable eng,password	After the command is carried out, it will
	E.g: enable eng,123456	reply: Enable engine OK
Monitoring	tap,password	When device to receive the instruction,
Widing	E.g: tap,123456	will give the number of the number of
	1.5 · mp,123730	the transmission of this call to the
		phone, after listening to the listener
		mode
		mode
, 1.0	1	C C OV C
set up defences	arm,password	Config OK=Set successfully
	E.g : arm,123456	Config failed=fail to set
		After set up arm, ACC ignition will
		automatic to send an illegal igniton
		information to the server



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dismiss defences	disarm,password	Config OK=Set successfully
	E.g : disarm,123456	Config failed=fail to set
Set up on-line	ss,apn,user_name,user_code,ip,port,id,	Config OK=Set successfully
message	password	Config failed=fail to set
inessage	E.g:	
	ss,cmnet,1,1,211.154.139.208,7000,1318	
	888888,123456	
Dunning state	·	Donlind SMS content on
Running state	status,password	Replied SMS content, eg
	E.g : status,123456	GSM=31
	Terminal reply: GSM signal strength,	GPRS=1
	connection and GPRS (GPRS=0 means	GPS=10
	disconnected, GPRS=1 means connected), GPS	ACC=N0
	location satellite number of tracker, ACC	SPEED=120
	status, interval time of ACC ON and ACC OFF,	ACCON=30S
	speed threshold (default speed threshold is 120,	ACCOFF=120S
	if you had already set speed threshold, it will	VCC=12V
	read the number which you had set),	IMEI=356823031234501
	voltage values of external voltage.	When the password is worng, it will reply
		as:Get status failed
Ouary sarrias	Cottoniae massyand	The terminal will enternationally manky to
Query service	GetService, password	The terminal will automatically reply to
number		the number of settings to send
		instructions to the number
Enable auto	AUDIO-EN,password	Config OK=Set successfully
answer call to		Config failed=fail to set
do voice		
monitoring		
Disable auto	AUDIO-DIS,password	Config OK=Set successfully
answer call to		Config failed=fail to set
do voice		
monitoring		
Restore to	Reset,password	Restore the IP to be 211.154.139.208,
factory setting	Eg:Reset,123456	port to be 7000, china mobile APN
		,
		(device version NO.before
		2016-04-07 08:00:00 use this
		command: DEF-PARA,password)
Set GPS	interval,x1,x2,password	Interval 1 is for ACC ON, interval 2 for
location	intorvar, 1, 1, 12, password	ACC OFF
	Eq. interval 20 100 122456	
uploading	Eg: interval,30,100,123456	(device version NO.before
interval time	30==ACC ON 100==ACC OFF	2016-04-07 08:00:00 use this
		command:
		GINTERVAL,X1,X2,password)

Active sleep	sleep enable,password	Config OK=Set successfully
mode	eg: sleep enable,123456	When acc off, device will not upload
		data to server ,to save battery life , it
		used for motorbike
Cancel sleep	sleep disable,password	Config OK=Set successfully
mode	eg: sleep disable,123456	Device will restore upload data server
		normal .
Enable monitoring	LisLimit,ON,password	(device version NO.before 2016-04-07
limited, only 3	Eg: LisLimit,ON,123456	<b>08:00:00</b> use this command:
service numbers		LisLimite-Enable,password)
can monitor track		
Disable the limited	LisLimit,OFF,password	(device version NO.before
of only service	Eg: LisLimit,OFF,123456	2016-04-07 08:00:00 use this
number can		command:
monitor		LisLimite-Disable,password)
		Factory default status is disable limited

#### 6. Trouble shooting

6.1. After installing it in the first time, if device cannot get connected with platform server, at this time it is "logged off" status in platform.

Follow the instructions one by one as below:

1) Call the device to see what happens.

It rings: go to the next step.

It not rings:

- a) check whether the SIM card installed correctly or not. Check whether the connection of power-line is correction or not. (Details: If the users are testing the device in office or at home, M588 has to connect with 12V DC external power supply. If it is tested in the car, make sure the installer connect all the cable correctly.)
- b) Check the LEDs' status. In normal working status, the red LED is in bright flash 0.1s dark 2s, yellow GSM LED bright flash 0.1s dark 2s and blue GPS LED bright flash 0.1s dark 2s
- c) Check whether the vehicle is in no GSM area, such as basement;
- 2) Check whether the device reply after sending SMS command. It replied:
- a) Check whether the APN is correct or not,
- b) Whether the port is correct or not,
- c) check whether the SIM card support GPRS.
- c) check the IMEI number is correct or not

It not replied: check the SMS command format, make ensure it is correction.

#### **FCC Caution:**

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

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.

#### **IMPORTANT NOTE:**

#### **FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .This equipment should be installed and operated with minimum distance 50 cm between the radiator your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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.