### **1.Start Guide**

### 1.1 Packaging

- GPS tracker
- Power cableAudio cableSOS cable
- MIC
- Relay
- User manual

### **1.2 Main Functions**

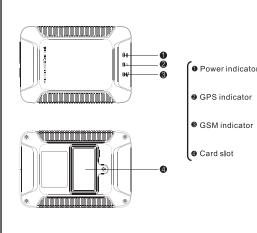
- Real-time GPS+AGPS tracking
- Track by time interval or distance
- Remotely fuel/power cut-off
- Listen-in
- + TTL
- Instant alerts for vibration, overspeed, etc.
- External power supply cut-off alarm
- Two-way talk
- Door status detection
- Multiple analog & digital I/Os
- Battery charging protection

### 1.3 Specifications

Frequency	GSM 850/900/1800/1900MHz
GPRS	Class 12, TCP/IP
Operating Voltage	9-36VDC / <300mA
Location Time	Cold Start: <35s
	Hot Start : <2s
Storage	32Mb+32Mb
Battery	450mAh
Location Accuracy	<10 meters
Operating Temperature	-20°C ~ +70°C
Dimension	80.9(L)×55.8(W)×23.4(H)mm
Weight	95g

### 2.My Device

### 2.1 Appearance



### 2.2 LED indicators

GPS LED Indicator - Blue			
•-()	0.1s ON & 0.1s OFF	Searching GPS signal	
•	Steady on	GPS is fixed	
$\bigcirc$	OFF	Sleep or not work	

GSM LED Indicator - Green			
•-0	0.1s ON & 0.1s OFF	GSM initializing	
•-00	0.1s ON & 2s OFF	Receive GSM signal normally	
•	Steady on	Connected to GPRS network	
0	OFF	No GSM signal	

Power Sta	atus - Red	
•-0	0.1s ON & 0.1s OFF	Low battery
<b>••</b> - 00	2s ON & 2s OFF	Fullcharged
•-00	0.1s ON & 2s OFF	Normal operating
•	Steady on	Device is charging
0	OFF	Low battery/Power off

Flash in a loop
Device is in defense status

# **3. Wire Connection** 3.1 Wire Definition

# 

Line	ne Color Description		
1		MIC + SPK	3.5mn
2		GND	Groun
3		5VDC_OUT	Contro
4		TX	Trans
5		RX	Recei
6	Green	IN1	Config input
7	White & ye <b>ll</b> ow	OUT 1 -	Negat
8	White & red	OUT2+	Contro voltag
9	Yellow	Relay	Fuel/F
10	Black	SOS-	SOS (
11	White	SOS+	SOS(F
12	Purple	ADC	Detec
13	Orange	ACC	ACC
14	Black	GND	Groun
15	Red	PW+	Power

### 5.9 Restore oil/electricity

When alarm is all-clear, you can send restore oil/electricity command by platform, APP or SMS and restore vehicle power. (See command list 7-16)

### 5.10 Restart device

If GPRS is abnormal (device is offline), user can send SMS command RESET# to restart the device. Device will reboot after 20 seconds after receiving the command.(See command list 7-17)

### 5.11 Door detection

The device is able to detect door status. It uploads car status to platform and APP timely. Negative triggering is default. When car door's status is negative triggering, there is no need to set. Instead if car door status is positive triggering, the triggering way has to be nodified. (Command:DOOR,1#). See 3.2 diagram-1 for wiring way. (See command list 7-18)

### Votice

Negative triggering (default); when door is open, signal level of door is 0V; when door is closed, signal level of door is power voltage. Positive triggering: when door is open, signal level of door is powe voltage; when door is closed, signal level of door is 0V.

# 5.12 Analog signal

The device can measure car battery's voltage and upload it to latform/APP in fixed time based on your needs. Purple line (ADC) of device extended port can receive analog signal, like voltage o external device, analog temperature sensor and fuel sensor. Voltage range of analog input is 0~30Vdc. See 3.2 diagram for wiring way. (See command list 7-19)

### 5.13 Lithium battery charging protection

or less than -20°. As soon as the temperature is lower than 48  $^\circ\!C$  or above -18°, battery charging will be restored.

### 5.14 Controllable output

The device supports high/low level output, which could be configured by commands based on needs.

### 6.Platform Operation

Get registered on the designated service platform by authorized lealer, then you can start the tracking service and settings.

### 6.1 APN & Server setting

To ensure normal network operation, please confirm your APN and server setting before login.

In most countries, APN could be automatically adapted to local mobile operators. If not, please send SMS to set the APN. If username and password is required for APN, please add it into the mand. (See command list 7-7)

Confirm the server address and setting with distributors. If server is ncorrect, please send SMS to change.(See command list 7-8)

### 6.2 Login service platform

Please login the designated sevice platform to set and operate the device

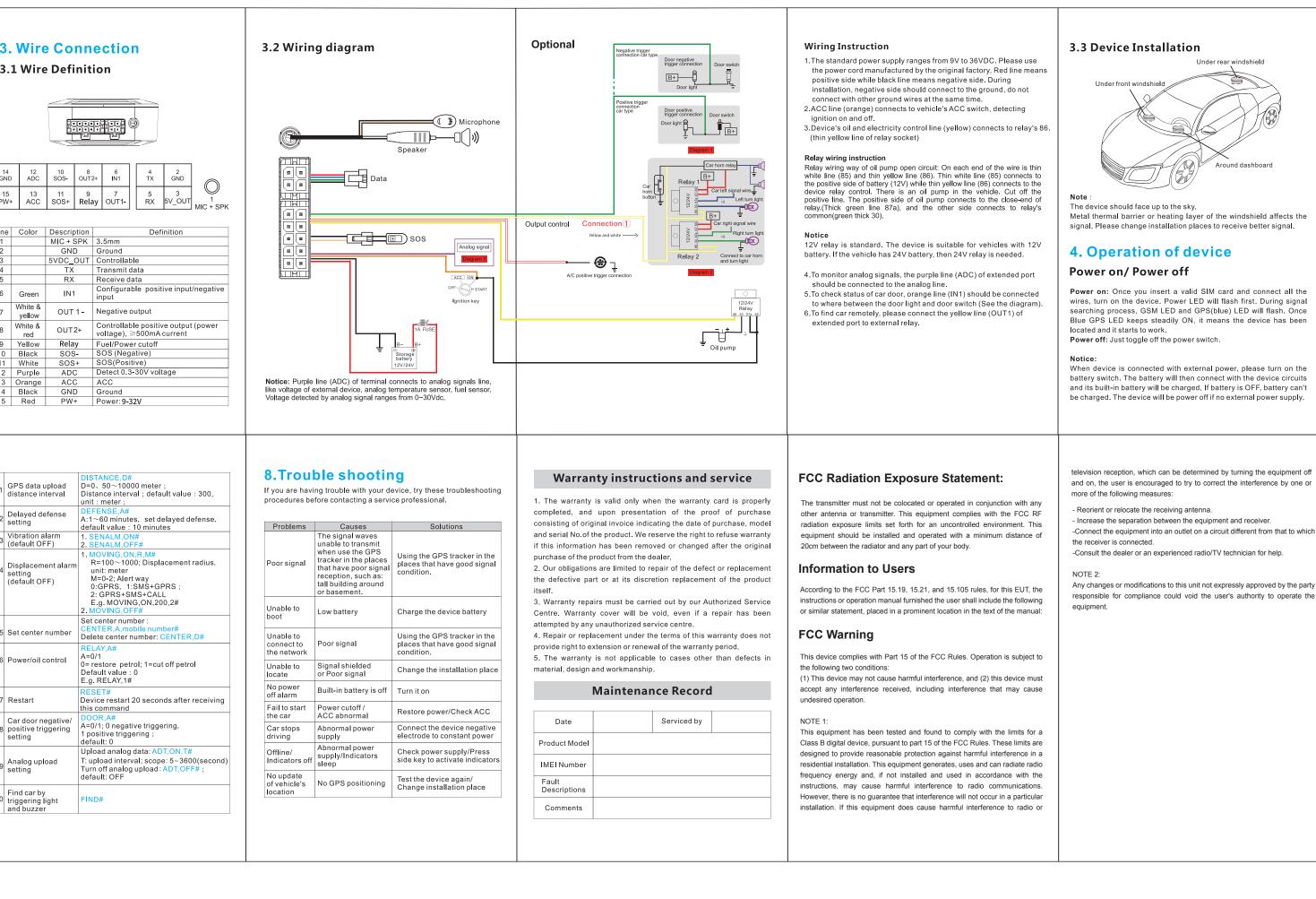
### 6.3 Download APP

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

### 7.Common Command List

Edit SMS command in the right column to the device SIM number to achieve respective function as below:

1	Device status	STATUS#	1	12	Delayed defense setting	D A d
2	Device coordinate	WHERE#		13	Vibration alarm	1
3	Location URL	URL#		13	(default OFF)	2
4	Check version	VERSION#				1
5	Network setting	GPRSSET#		14	Displacement alarm	
6	6 Check parameter PARAM#			14	setting	
7	APN setting	1. APN, apnname# E.g: APN, internet# 2. APN, apnname, user, pwd# E.g: APN, internet, CLIENTE, AMENA#			(default OFF)	
		SERVER,mode,domain/IP,port,0# E.g. SERVER,1,www.ydpat.com,8011,0# SERVER,0,211.154.135.113,8011,0#	15	15	Set center number	S C D
8	Server setting	mode1 means set with domain name mode 0 means set with ip address	1	16	Power/oil control	R A 0
9	9 SOS setting	1. Add SOS number: SOS,A,number 1,number 2,number 3# 2.Delete subjected sequence of SOS number: SOS,D,number sequence 1, number sequence 2, number sequence 3#	1	17	Restart	D E R D th
	E.g. SOS,D,1,2,3# 3. Delete the SOS number : SOS,D,phone number# 4. Query SOS number : SOS#	1	18	Car door negative/ positive triggering setting	D A 1 d	
10	GPS data upload time interval	TIMER,T1,T2# T1=5~18000 seconds; ACC ON upload interval; default value : 10 T2=5~18000 seconds; ACC OFF upload interval; default value : 10(when GPS is	1	19	Analog upload setting	U T T d
	not sleep)	2	20	Find car by triggering light and buzzer	F	



# Under rear windshiel

Metal thermal barrier or heating layer of the windshield affects the

Power on: Once you insert a valid SIM card and connect all the wires, turn on the device. Power LED will flash first. During signal arching process, GSM LED and GPS(blue) LED will flash. Once Blue GPS LED keeps steadily ON, it means the device has been

battery switch. The battery will then connect with the device circuits and its built-in battery will be charged. If battery is OFF, battery can't be charged. The device will be power off if no external power supply

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

responsible for compliance could void the user's authority to operate the

# **5. Main Functions**

### 5.1 SOS

In emergent case, press SOS for 3 seconds to activate SOS alarm. Then the device will send SOS SMS to preset SOS numbers and nen dial the numbers in a loop for 3 times until the call is picked u Alarm message will also send to platform. (See command list 7-9)

### 5.2 Power cut-off alarm

When the electricity supply of device is cut off, it will activate cut-of

### 5.3 Low battery alarm

When battery is low, the device will activate low battery alarm. evice will send alert through SMS and to the plat

### 5.4 Vibration alarm (default OFF)

When vehicle vibrates for several times, the vibration alarm will be triggered. If ignition keeps OFF for 3 minutes (ACC OFF), the device will send vibration alarm message immediately. (See command list 7

### 5.5 Voice monitoring

1.When MIC is connected while speaker is not, use pre-set  $\ensuremath{\mathsf{SOS}}$ number to dial the device, after 10 seconds, device enters into monitoring mode automatically. The caller can hear the voice inside the vehicle.

1.Pre-set SOS number is necessary. Non-SOS number cannot activate this function 2.SIM card of device must have caller ID sevice.

### 5.6 Two-way communication

To activate this function, ensure that both MIC and speaker are connected well.

Jse pre-set SOS number to dial the device, after 10 seconds, device enters into two-way talk mode.

### 5.7 Displacement alarm(default OFF)

Device will send movement alarm when vehicle moves out the preset distance (when ACC is off and GPS is fixed).

### 5.8 Oil/Electricity cut-off

vehicle speed is less than 20km/h.

When vehicle is stolen, oil/electricity cut-off command can be sent by platform, APP or SMS.

I.Make sure ACC is correctly connected. 2. When ACC is OFF, command will be executed immediately. 3.When ACC is ON, but GPS is not fixed, command will be postponed. 4.When ACC is ON, GPS is fixed, command will be executed when

If you want to cut off/restore oil by SMS command, you have to set a center number firstly. Only the center number can send the cut off/restore oil command to the device. (See command list 7-15)

1.Only the SOS number can be used to set center number. 2.Only the SOS number can be used to delete center number. 3. There is only one center number can be set.

### VEHICLE GPS TRACKER

### **User Manual** (Version 1.5)



This user manual has been specially designed to guide you through the functions and features of your GPS vehicle tracker.