Pro-ET800E

GPS/GPRS/SMS

Vehicle Tracking System

---- **Fuel Monitor Solution**

---- **3D Acceleration Sensor**

---- **Blackbox Datalog**

---- **AGPS/GPS/GPRS/SMS Real Time Tracking**

12V car, 24V truck for fleet management.

Support global GSM network 850/900/1800/1900Mhz.

All-in-one map software

Customize protocol for the 3rd party web software

Customize case and re-branding

Device Accessories

Standard Package

| Main Unit | GPS Antenna | GSM Antenna |

| Power Harness | I/O Harness | Cut Relay | Velcro |

Optional Parts

| Speaker | Microphone | Fuel sensor | USB cable |

Feature List

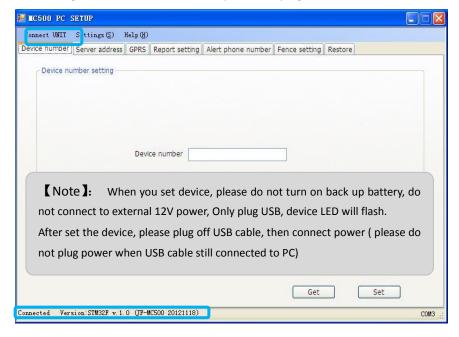| Mechanism	Status	Alarms	Control
➢ Quadband GSM	➢ ACC On / Off check	➢ SOS emergency alarm	➢ Fuel cut
➢ Support AGPS	➢ Fuel level check	➢ Power cut alarm	➢ 1 way voice monitor
➢ 3G module replaceable	➢ Door Open/Close check	➢ Speeding alarm	➢ 2 way voice talk
➢ Fixed time report	➢ Data log of last half hour 200000 data	➢ Fatigue driving alarm	➢ Remote configuration
➢ Fixed distance/heading report	➢ Movement Status by 3D motion sensor	➢ Geofence alarm (up to 25 Geofence)	➢ Remote blackbox data request
➢ Mobile phone tracking	➢ Harsh Brake detection	➢ Low battery alarm	➢ Remote door lock/unlock
➢ USB for PC configuration	➢ Mileage Caculation	➢ Low fuel alarm	➢ Remote Alarm recover
➢ 1400Mah backup battery	➢ Original car alarm input	➢ GPS/GSM signal alarm	➢ Remote reboot

Specifications

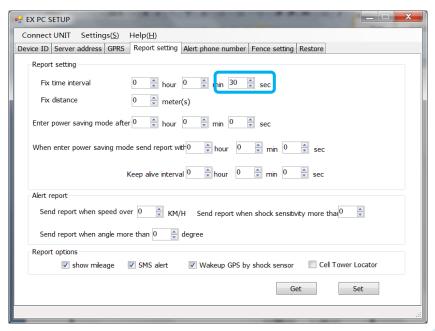|	
➢ Dimension: 88*62.5*32mm	➢ GPS: SIRFIII High Sensitive GPS module
➢ Weight: 140G	➢ GPS Sensitivity: -159db
➢ Voltage: 9~36V/1.8A	➢ GPS Accuracy: 5-10 meters
➢ Power Consumption:15Mah (GSM on only)	➢ GSM: 850/900/1800/1900Mhz
➢ Power Consumption:70Mah (GPS/GSM both on)	➢ 3 Axis Motion Sensor
➢ Operation Temp: -25℃~+60℃	➢ Input: ACC; Door; Alarm Input; MIC+/-;　Fuel Input; SOS+/-
➢ LED: Red for Power; Blue for GSM	➢ Output: Engine Cut; Speaker+ /-; One Optional
➢ Cut relay: 12V/24V　40A	➢ Fuel sensor Voltage: 0-5V

Starting (in office)

Open the EX PC setup program to set the tracker parameters. Steps:

--> Check device, no wires connected.

--> Take out USB cable, connect to PC, LED will be on, then flash. Open PC setup program

--> Press '**Connect UN IT**' on the PC program---> Wait 1-3 minutes, on the bottom of the PC program, you can see the program show JFGPS MC500/ET700, you can start to set device.

--> After setting finished and saved successfully, close the program, disconnect USB cable. LED will be off.

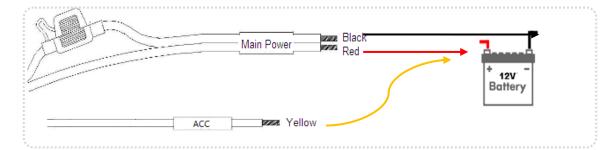【Note】: When you set device, please do not turn on back up battery, do not connect to external 12V power, Only plug USB, device LED will flash.

After set the device, please plug off USB cable, then connect power (please do not plug power when USB cable still connected to PC)

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Testing (in office)

Preparation: | <1>. SIM Card with APN information | | <2>. 12V battery   or   12V output power adaptor |

Wiring:

Main Power — Black
Red
ACC — Yellow
12V Battery
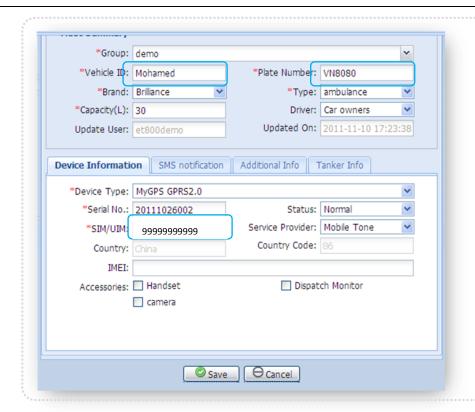
1. Insert SIM card

2. Connect the left 3 wires: Power +, -, ACC.

3. Connect GPS/GSM antenna, put GPS antenna outside the window

4. Device LED will start to flash at the beginning:

   Red 2 times, Green 1 time.

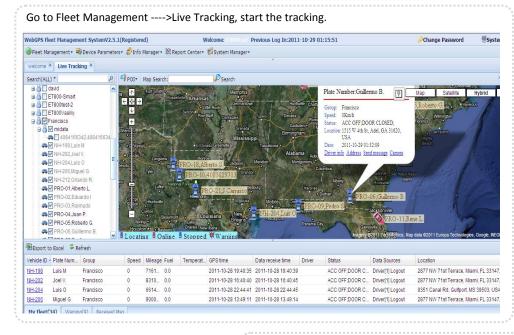5. Write down the unit ID you set just now with the PC program

| Web | Software |

➢ Log in:

server 1:www.webgpsfleet.net   server 2: http://211.154.151.97:8080   server 3: http//203.86.8.201:8080

Username: et800demo

Password: 123456

Info Manager ▾   Report Center ▾
Group Manager
Vehicle Manager

Click   Double Click

welcome ⊠   Vehicle Manager ⊠
⊕ Add ⊖ Delete ☒ Export to Excel
Vehicle ID ▲   Plate Number
un-registered 02   20111026002
un-registered 03   20111026003

➢   Please find one **un-registered** unit for your car, modify 3 items of parameters, then save setting.

*Group: demo
*Vehicle ID: Mohamed   *Plate Number: VN8080
*Brand: Brilliance   *Type: ambulance
*Capacity(L): 30   Driver: Car owners
Update User: et800demo   Updated On: 2011-11-10 17:23:38

Device Information | SMS notification | Additional Info | Tanker Info

*Device Type: MyGPS GPRS2.0
*Serial No.: 20111026002   Status: Normal
*SIM/UIM: 99999999999   Service Provider: Mobile Tone
Country: China   Country Code: 86
IMEI:
Accessories: ☐ Handset   ☐ Dispatch Monitor
☐ camera

Save   Cancel

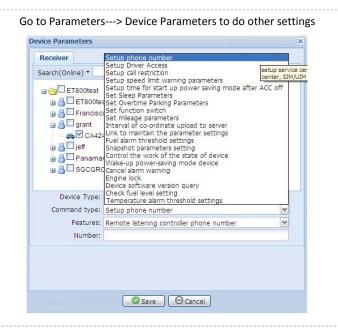1. Vehicle ID: there are many account in the system,   use one of the un-registered account for you, change it to your name

2. Plate Number: Change to your car Plate No.

3. SIM/UIM:9999999999 It is the number of tracker SIM card

SIM No.: 99999999999

Go to Fleet Management ---->Live Tracking, start the tracking.

Go to Parameters---> Device Parameters to do other settings
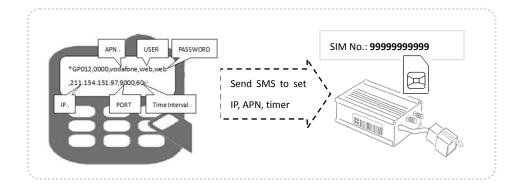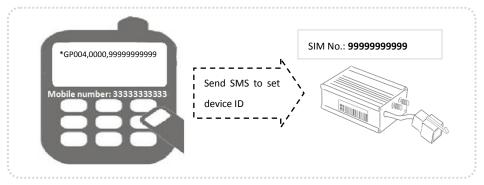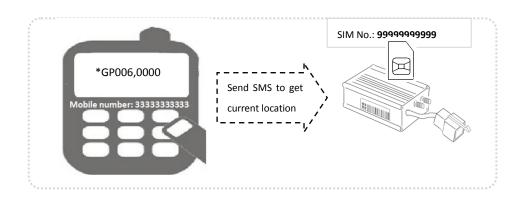

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SMS Configure

You can also send SMS message to configure the tracker online on web software, no need PC program. Calling, using the SMS to get a location (SMS command: *GP006,0000)

APN. USER PASSWORD

*GP012,0000,vodafone,web,web
,211.154.151.97,9000,60

IP. PORT Time Interval.

Send SMS to set IP, APN, timer

SIM No.: **99999999999**

*GP004,0000,99999999999

Mobile number: 33333333333

Send SMS to set device ID

SIM No.: **99999999999**

*GP006,0000

Mobile number: 33333333333

Send SMS to get current location

SIM No.: **99999999999**

Calling

定位器
正在呼叫"广东深圳移动"…

结束

定位器

2011-7-21 16:40

Now.110721
16:40,V,10.0Km/h,97%,http://
maps.google.
lat=22.513015&lng=114.05723
5

maps.google.com/?la...

7

Use below command to set/control device for other features:

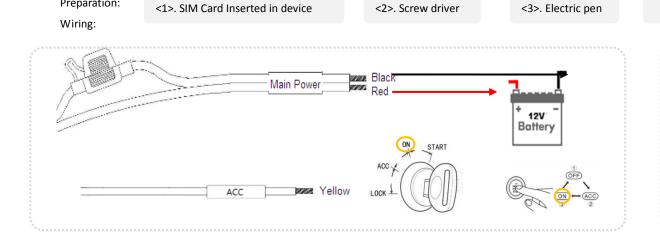| Command Details	Functions	Command Details	Functions
*GP001,0000,13728791848	Set Control number	*GP0F0,0000,1,1	Set automatic circular geofence
*GP002,0000,15	Set fix distance as 15 km	*GP019,0000,0906010300,0906010310	Set upload time span
*GP003,0000,05	Set heart beat rate as 5 minutes	*GP020,0000	Clear all logged data
*GP004,0000,10000000001	Set device ID as 10000000001	*GP0F1,0000,113.9504E,22.5828N,114.9504E,23.5828N	Set regtangular geofence
*GP005,0000,a,b,c	Set 3 alarm numbers	*GP0F2,0000,1,R,1,113.9504E,22.5828N,114.9504E,23.5828N	Set multiple geofence
*GP006,0000	Current position request	*GP0F3,0000	Clear all geofence
*GP007,0000,110,1	Set speed limit as 110 km	*GP022,0000	Voice montor with password
*GP008,0000	Reset tracker	*GP024,0000 ,36125	Reset mileage
*GP000,0000	Cancel all alarms	*GP025,0000,a,b,t	Set fuel alarm
*GP010, 0000,13728791848	Set voice monitor dial in number	*GP026,0000	Request for fuel level
*GP012,internet,wap,wap,211.154.151.97,9000,180	Set IP, APN, Port, fix report time	*GP027,0000, SwitchPosition, FullFuelV, EmptyFuelV	Set fuel meter parameeters
*GP011,0000	Cut vehicle fuel	*GP028,0000,1,60,1,600, 0	Set sleep mode
*GP013,0000	Recover vehicle fuel	*GP028,0000,0,60,1,600,0	Cancel sleep mode
*GP014,0000	Lock vehicle door	*GP030,08:00,0000	Set beijing time zone
*GP016,0000,00012	Set the data logging time interval	*GP040, <Password>, <a>,<t1>,<t2>,<b>,<t3>	Set fatigue driving, overtime park alarm
*GP015,0000	Unlock vehicle door	*GP047, <Password>,<a>	Set acceleration sensor
*GP019, 0000	Request for IMEI number	*GP049, 0000,1,1	Arming vehicle
*GP017,0000,00006	Upload 6 pcs logged data	*GP052, <Password>,CMNET,,, 211.154.151.97,9000,180	Set second IP, APN, Port
*GP018,0000	Restore to factory setting, reboot	*GP054,0000,A	Activate / Disactivate the AGPS

[Note]: Each command start with *GPXX, Device reply with *CRXX

1> If set GPRS, system report to server at default interval of every 1 minutes

2> When GPRS is disconnected, device will store data 2000 points, and forward this data automatically when GPRS reconnected.

3> Low battery alarm warning: when internal battery lowers than 25%, 15%, 5%, device sends low battery alarm report

4> Each event report will trigger the position update immediately

5> when stopping, G-sensor will trigger device to idle mode if set GP028.

6> When GPRS network disconnected for 15 minutes, device will restart.

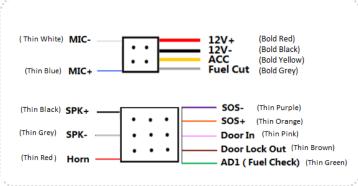For Command description, or examples, please refer to the ' ET800 Protocol' document.
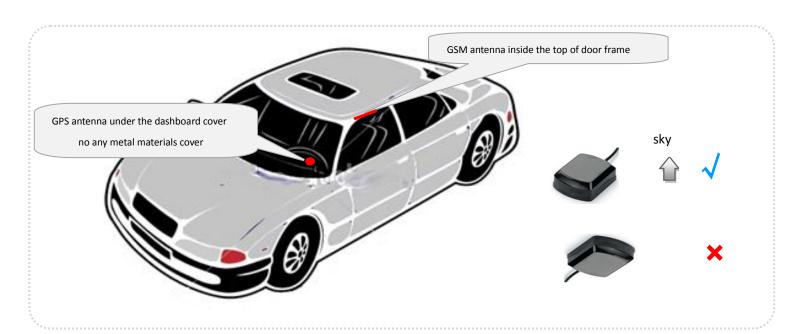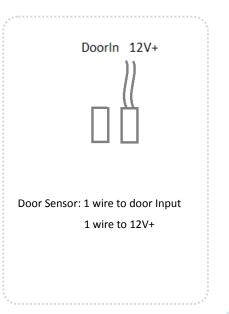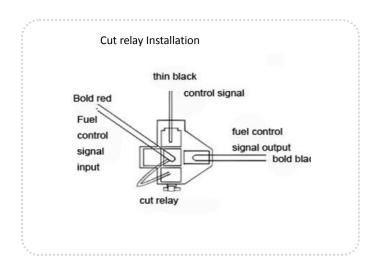
Installation

Preparation:

Wiring:

| <1>. SIM Card Inserted in device | <2>. Screw driver | <3>. Electric pen | <4>. Black sticky tape |

Main Power — Black
Red →

12V Battery

ACC — Yellow

ON START
ACC
LOCK

OFF
ON ACC

(Thin White) **MIC-**   **12V+** (Bold Red)
                            12V- (Bold Black)
                            ACC (Bold Yellow)
(Thin Blue) **MIC+**   **Fuel Cut** (Bold Grey)

(Thin Black) **SPK+**   **SOS-** (Thin Purple)
                            SOS+ (Thin Orange)
(Thin Grey) **SPK-**   **Door In** (Thin Pink)
                            Door Lock Out (Thin Brown)
(Thin Red) **Horn**   **AD1 (Fuel Check)** (Thin Green)

GSM antenna inside the top of door frame

GPS antenna under the dashboard cover

no any metal materials cover

sky

✓

✗

DoorIn 12V+

Door Sensor: 1 wire to door Input

1 wire to 12V+

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Note: can't put in water

Cut relay Installation

thin black
control signal

Bold red

Fuel
control
signal
input

fuel control
signal output
bold black

cut relay

First: please connect the 2 button tester to fuel sensor.

1. Put sensor fully in oil tank, press "F"
   for 10 seconds, LED flash then become stably on

2. Again put sensor in empty tank, press "E"
   for 10 seconds, LED flash then become stably on

Second: Connect fuel sensor to ET800
   Red ---> ET800 12V+
   Blue---> ET800 12V-
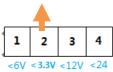   Black--> ET800 green wire

SMS Configure Fuel

Fuel monitor solution by connecting to original fuel meter.

1). Measure the fuel meter wire voltage when fuel tank is full. Usually it is 3.3V, 6V, 12V, 24V. Normally it is 3,3V for cars. And measure the empty fuel voltage as well. Usually it is 0.

1	2	3	4
<6V	<3.3V	<12V	<24

2). If fuel meter wire voltage is 3.3V, please put the 4 toggle switch to position '2' as below image shows:

3). Connect the green wire of ET800 to the fuel meter cable, power on device.

4). Send an SMS to tracker:

*GP027,0000, SwitchPosition, FullFuelVol, EmptyFuelVol   (Set fuel parameters)

SwitchPosition：The tracker has a 4 toggle switch**, 3.3V, 6V, 12V, 24V.**

FullFuelVol：Fuel meter voltage when fuel tank is full

EmptyFuelVol：Fuel meter voltage when fuel tank is empty

Note: If car fuel meter voltage measured to be XX

1. If XX less than 3.3V(≠3.3), for example, if full fuel voltage is 2.8V, empty fuel voltage is 0 -----> Please switch to position 2, and set below

Command:*GP027,0000,3.3,2.8,0   (if full fuel voltage = 3.3, please select below 6V position)

2. If XX less than 6V(≠6), for example, if full fuel voltage is 5.2V, empty fuel voltage is 0 -----> Please switch to position 1, and set below

Command:*GP027,0000,6,5.2,0   (if full fuel voltage =6, please select below 12V position)

3. If XX less than 12V (≠ 12), for example, if full fuel voltage is 9V, empty fuel voltage is 0 -----> Please switch to position 3, and set below

Command:*GP027,0000,12,9,0 (if full fuel voltage = 12V, please select below 24V position)

4. If XX less than 24V (≠ 24), for example, if full fuel voltage is 19V, empty fuel voltage is 0 -----> Please switch to position 4, and set below

Command:*GP027,0000,24,19,0   ----> Reply: $GPRMC,ID,092313.299,A,2238.8947,N,11355.2253,E,0.00,311.19,010307,0,,0,0,0,**80.5 (means 80.5% of fuel)**

Warranty

Customer's information	Name		Phone		Mobile	
	Address					
	Serial number		Date of purchase			

Supplier	Retailer

Remarks	1. The warranty is valid for 1 year of product maintenance (excluding improper uses) starting from the date of purchase. 2. Should the product malfunctioned under proper use, free maintenance service is provided within warranty period. This service does not cover due to human causes, natural causes. 3. Serial numbers on the warranty must be the same as it is shown on the main unit. 4. The company is not responsible for re-issuing the product warranty if it is lost. 5. Warranty is invalid without supplier's seal or defaced. 6. Service fee is charged if warranty period is over or product warranty is not shown with.