

## GPS Tracker with Camera & Fuel Monitoring (NR-024)

### Specification

<b>Size</b>	137*75*29mm
<b>Working Voltage</b>	DC:6.3~40V
<b>Input Fuse</b>	5A
<b>Working Temperature</b>	-40~85°C
<b>Humidity</b>	10% to 90%
<b>CPU</b>	TI:MSP430F5419(100MHz)
<b>GSM Module</b>	<p>GSM Module:SIM900</p> <p>Band:850/900/1800/1900MHz,</p> <p>Tally with: GSM phase 2/2+</p> <p>-Class 4 (2W @ 850/900MHz)</p> <p>-Class 1 (1W @ 1800/1900MHz)</p> <p>Max RF Output: 33.0dBm±2dBm</p> <p>Dynamic Input Range: -15 ~ -102dBm</p> <p>Receiving delicacy: Class RBER≤2%(-102dBm)</p> <p>Frequency Stability: &gt; 2.5ppm</p> <p>Max Frequency Deviation: ±0.1ppm</p> <p>RMS Deviation: ≤5deg</p>
<b>GPS Module</b>	<p>GPS chip set: SiRF Star III</p> <p>Frequency: L1, 1575.42 MHz</p> <p>Number of Channel: 20</p>

	<p>Altitude limit: 18000 m</p> <p>Velocity limit: 515 m/s</p>
<b>Input I/O</b>	<p>7 I/O input Port</p> <p>1 port use to check the engine ( <b>ACC check</b> )</p> <p>1 port use to SOS</p> <p>1 A/D Input port( <b>Fuel monitoring</b> )</p> <p>1 Output port ( <b>Car engine control</b> )</p> <p>3 Extend ports ( Input/Output control by software)</p>
<b>RS232</b>	<p>Two</p> <p>One is connect to the camera ( <b>130M pixel</b> )</p> <p>Other is extending ports, can connect to LED screen</p>
<b>Microphone</b>	3.5mm single track
<b>earphone</b>	3.5mm
<b>Current</b>	<p>Not working Current 16mA</p> <p>working Current:60~150mA</p> <p>Current of opening infrared of Camera at night :100~200mA</p> <p>Charging current: Max&lt;500mA</p>
<b>Battery</b>	Lithium battery :400mA( <b>working time is about 3.5 ho</b>
<b>Accessories</b>	<p>Device, Connecting cable ,GPS antenna ,GSM anten</p> <p>Engine controller, SOS button, Microphone, Camera</p> <p><b>advertising display(optional)</b></p>

**Ports:**

No.	Description	No.	Description
1	DC(12V)	6	GND
2	Reserved	7	SOS
3	GND	8	Extension interface1
4	ACC	9	Extension interface2
5	Power/oil control	10	Extension interface3

## 2、 Data2: Camera interface

The port in other side:



SIM: card port

Phone: headphone port

MIC: to listen

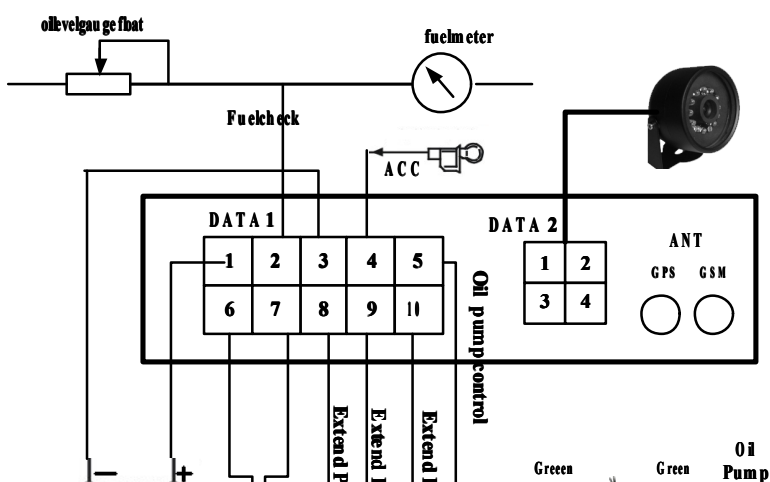
LED1: power indicator light (RED)

LED2: status indicator light(Green)

RESET: Reset Button

1. Quick flash is initialization. It shows GPS and GSM Abnorm
2. 1 second on, 1 second off shows GPS abnormal.
3. 0.1 second on, 3 seconds off shows GPS normal.
4. Keeping on shows the system normal.

## Connect diagram:



## **Main features:**

1. Real time uploads location information via time/distance interval
2. Image transmit (take photos)
3. Real-time Positioning & Tracking
4. SOS Function & Power-cut Alert
5. Audio Monitoring
6. Geo-fence & Over Speed Alert
7. Fuel Monitoring
8. Remote controlling oil & circuit
9. With a camera
10. Special Vehicle Monitoring (dump trucks pouring, mixers rotating, etc)
11. **GPS & A-GPS (LBS—location based service)**
12. LED Advertising Screen, RS232 Printer, Temperature sensor, 3D Accelerometer Sensor, RFID (optional)

**Positioning and tracking:** through the on-line positioning platform or phone to locate at anytime, and get the working status. You can choose positioning Platform by yourself

**Geo-fence Mode:** Set up a geo-fence for the unit to restrict its movement within a district. The unit will send the message to the authorized number when it breaches the district

**Over Speed Alert:** When the target moves exceeding a preset speed the unit will send an SMS to the authorized numbers

**Fuel Monitoring:** Remote monitoring vehicle fuel (oil, oil spills, oil steals consumption, etc.)

**SOS Function:** You can press the SOS alarm button to send an alert. To give the location to the registered phone numbers in case of an emergency. The SOS function also allows you to talk into the GPS tracker & make your voice heard on the receivers end with the mobile cell phone

**Auto track:** Auto track by SMS or online positioning platform; Mileage statistics; ACC checking

**Cutting off power and alert:** When tracker cut off power, the tracker send alert SMS to user

**Remote controlling oil and circuit:** You can Cut off or turn on the oil & remotely via SMS or Online whenever you want

**GPS & A-GPS(LBS—location based service):** Using Global Satellite Positioning technology, LBS(Location Based Service) technology(while can't location via GPS, the devices will get the location information via LBS automatically)

**Images transmit:** Take photo by the digital camera, to check what's happen in the vehicles

**hot**

**NR-024**

VEHICLE TRACKING SYSTEM



 [www.sznoran.com.cn](http://www.sznoran.com.cn)

## Noran International Technology Co.,

Add: Room 202, Management Building, High-tech Park, Nanshan, Shenzhen C

Tel:86-755-26506932    Contact person: David Wei    E-mail:[wymdavid@gmail.com](mailto:wymdavid@gmail.com)