



JM-VG02U

INS-aided OBDII GNSS Tracker



The JM-VG02U is an OBD II tracker that can be installed effortlessly. With the built-in 3-axis accelerometer, 3-axis gyroscope and a practical algorithm, it can detect 8 types of improper driving behaviors and prevent dark spots, even in areas with poor GPS signal. Its improved system of alerts increases the safety of both the drivers and the vehicle, while at the same time reducing false alerts.



INS-aided GPS Tracking

Ensures constant tracking in the area with poor GPS signal or even without it.



Driving Behavior Analysis (Advanced)

Acceleration, braking, cornering, sudden lane change, collision, skidding, rollover, roll & pitch.



Mileage Accuracy $\geq 98\%$

Precise mileage calculation based on a unique algorithm, the mileage error can be less than 2%.



6-axis Accelerometer & Gyroscope

Sensitive detection of linear acceleration and angular velocity.



9-36V Supported Voltage

Compatible with a wide range of input voltage, able to work on diverse vehicles.



Effortless Installation

Simply plug this device into OBD II socket, you don't have to turn to professionals.



Fatigued Driving Alert

Get alerted of the situation that a driver has continuously driven over a long time period.



Multiple Alerts

Instant alerts of typical events such as power cut-off, low battery, speeding, geo-fence, etc.

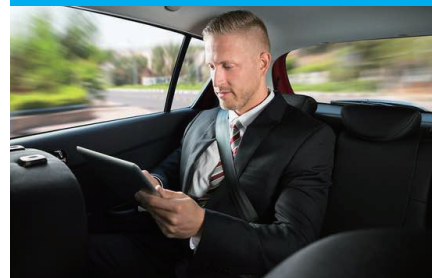
Usage-based Insurance



Eco-Driving



Corporate Cars



GNSS

| | |
|-------------------------|--|
| Positioning system | GPS/GLONASS/BDS |
| Frequency | L1 |
| Positioning accuracy | <2.5m CEP |
| Track sensitivity | -165dBm |
| Acquisition sensitivity | -148dBm |
| TTF (open sky) | Avg. hot start ≤ 1sec Avg. cold start ≤ 32sec |

Cellular

| | |
|-----------------------|---|
| Communication network | GSM |
| Frequency | Dual-band 900/1800 & Dual-band 850/1900 MHz |

Power

| | |
|---------------|--|
| Battery | 50mAh/3.7V industrial-grade Li-Polymer battery |
| Input voltage | 9-36VDC |

Interface

| | |
|--------------|--|
| Connector | GNSS (Blue), Cellular (Green), Power (Red) |
| SIM | Nano-SIM |
| USB | OBD II port |
| Data storage | 32+32Mb |

Physical specification

| | |
|------------|-----------------------|
| Dimensions | 45.0 x 22.5 x 30.0 mm |
| Weight | 30g |

Operating environment

| | |
|-----------------------|------------------------|
| Operating temperature | -20 C to +70 C |
| Operating humidity | 5%~95%, non-condensing |

Feature

| | |
|---------------------------|--|
| Voice monitoring range | ≤ 5 meters |
| Sensors | Accelerometer and gyroscope |
| Ignition detection | External Power Voltage |
| Scenarios | Vehicle movement alert, Over-speed alert, Geo-fence, Vehicle battery detection, Power supply disconnection |
| Driving behavior analysis | Harsh acceleration, Harsh braking, Harsh cornering, Sudden lane change, Collision, Skidding, Rollover, Roll & pitch |