Jimi IoT

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)
Receive alerts when any of 8 kinds of dangerous driving behavior is detected.

Mileage Accuracy≥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 Operating 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.

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

Multiple Alerts
Instant alerts for atypical events such as low battery, speeding, abnormal vibration, etc.
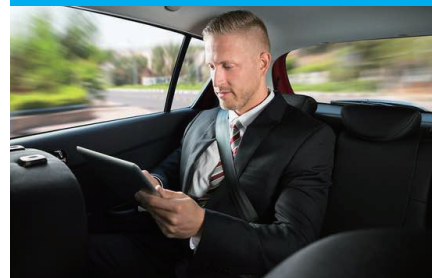
Usage-based Insurance

Eco-Driving

Corporate Cars

GNSS

Positioning system	GPS/GLONASS/BDS, LBS assisted INS (inertial navigation system)
Frequency	L1
Positioning accuracy	<2.5m CEP
Track sensitivity	-165dBm
Acquisition sensitivity	-148dBm
TTFF (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

LED Indication	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℃ to +70℃
Operating humidity	5%～95%, non-condensing

Feature

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