



# JM-VL04

INS-aided LTE OBDII GNSS Tracker

The JM-VL04 is a professional 4G OBD vehicle tracker you can easily install. With its advanced accelerometer, gyroscope, and special algorithm, JM-VL04 can detect improper driving behaviors, precisely calculate mileages, and prevent the dark spots occur in the area with poor GNSS signal. By leveraging different 4G communication modules, it covers almost all global LTE frequency bands. A revolutionary update is the voice alarm, which can remind drivers to behave correctly when their bad driving activities have been detected. Moreover, it also supports the embedded microphone for remote listen-in.



### INS-aided GPS Tracking

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



### 4G LTE Communication

The device can receive and transmit data in the coverage of 4G, 3G and 2G network.



### 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%.



### Voice Alarm

In risky circumstances, internal speaker will sound human voice to remind drivers to drive carefully.



### Remote Listen-in

An inconspicuous Mic allows you to remotely listen in the sounds around the device.



### 9-36V Rated Voltage

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



### BLE4.0 Supported

Through bluetooth connection you can configure parameters, upgrade software, and debug.

Auto Insurance



Vehicle Rental



Eco-Driving



## GNSS

Positioning system	GPS/Glonass/BDS/QZSS, AGPS/LBS assisted
Frequency	L1
Positioning accuracy	< 2,5m CEP
Track sensitivity	-165 dBm
Acquisition sensitivity	-148 dBm (cold) /-163 dBm (hot)
TTF (open sky)	Avg, hot start ≤ 1sec Avg, cold start ≤ 32sec

## Cellular

Communication network	LTE Cat1 + WCDMA + GSM
Frequency	JM-VL04E: LTE-FDD: B1/B3/B5/B7/B8/B20/B28 LTE-TDD :B38/B40/B41 GSM: B2/B3/B5/B8 JM-VL04L: LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28/B66 WCDMA: B1/B2/B5/B8 GSM/EDGE: B2/B3/B5/B8

## Power

Battery	50mAh industrial-grade LiCo battery
Input voltage	9-36VDC

## Interface

LED indication	GNSS (Blue), Cellular (Green), Power (Red)
Connector	OBD II port
SIM	Nano-SIM
USB	1 x Micro-USB for configuration
Data storage	8MB flash memory

## Physical specification

Dimensions	65,0 x 50,0 x 25,0mm
Weight	60g

## Operating environment

Operating temperature	-20°C to 70°C
Operating humidity	5%~95%, non-condensing
IP rating	IP41

## Feature

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