

80\*80mm,105克铜版纸 2020-10-27 2.0版本

<p><b>Product overview</b></p> <p><b>INS(Inertial Navigation System)</b> INS can be used as an alternative tracking system when vehicle is in an area without GPS signal, such as urban canyon, tunnel or underground parking lot.</p> <p><b>Driving behavior analysis</b></p> <ul style="list-style-type: none"> <li>Harsh acceleration alert</li> <li>Harsh braking alert</li> <li>Harsh cornering alert</li> <li>Sudden lane change alert</li> <li>Collision alert</li> <li>Skidding alert</li> <li>Rollover alert</li> <li>Roll and pitch alert</li> </ul>	<p><b>Vehicle tracking</b> GPS &amp; LBS positioning Real-time location query</p> <p><b>Easy installation</b> After insert SIM card, plug device into OBD II port and start to use.</p> <p><b>Multiple alerts</b> Over-speed alert Drowsy driving alert Tow/Threat alert Vibration alert Other alerts</p> <p><b>Standard Parts List</b></p> <table border="1"> <thead> <tr> <th>Item</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>JM-VG02U device</td> <td>1</td> </tr> <tr> <td>Pry tool</td> <td>1</td> </tr> </tbody> </table>	Item	Quantity	JM-VG02U device	1	Pry tool	1	<p><b>Specification</b></p> <table border="1"> <thead> <tr> <th>GNSS Type</th> <th>GPS+INS(Inertial navigation system)</th> </tr> </thead> <tbody> <tr> <td>Antenna</td> <td>Built-in GPS ceramic antenna; GSM quad-band antenna</td> </tr> <tr> <td>LED indicator</td> <td>GPS(Blue), GSM(green), Power(red)</td> </tr> <tr> <td>Battery</td> <td>50mAh/3.7V Li-Polymer battery</td> </tr> <tr> <td>Working voltage/current</td> <td>9-36VDC/38mA(12VDC)</td> </tr> <tr> <td>Standby current</td> <td>5mA</td> </tr> <tr> <td>Working time</td> <td>1 hour (power supply disconnected)</td> </tr> <tr> <td>Operating temperature</td> <td>-20℃~+45℃</td> </tr> <tr> <td>Weight</td> <td>37g</td> </tr> <tr> <td>Dimension</td> <td>48.0*49.0*24.0mm</td> </tr> </tbody> </table> <p><b>Storage temperature</b> -20℃~85℃( &gt; 60℃ will enter storage mode)</p>	GNSS Type	GPS+INS(Inertial navigation system)	Antenna	Built-in GPS ceramic antenna; GSM quad-band antenna	LED indicator	GPS(Blue), GSM(green), Power(red)	Battery	50mAh/3.7V Li-Polymer battery	Working voltage/current	9-36VDC/38mA(12VDC)	Standby current	5mA	Working time	1 hour (power supply disconnected)	Operating temperature	-20℃~+45℃	Weight	37g	Dimension	48.0*49.0*24.0mm	<p><b>LED indications</b></p> <p><b>Power Status (Red)</b></p> <table border="1"> <thead> <tr> <th>Indication</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td>Fast blinking (on 0.1s, off 0.1s)</td> <td>Network initializing</td> </tr> <tr> <td>Slow blinking (on 0.1s, off 0.1s)</td> <td>Receiving signal normally</td> </tr> <tr> <td>Solid on</td> <td>GSM/GPRS is online</td> </tr> <tr> <td>Off</td> <td>No signal received or no SIM card detected</td> </tr> </tbody> </table> <p><b>GNSS Status (Blue)</b></p> <table border="1"> <thead> <tr> <th>Indication</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td>Fast blinking (on 0.3s, off 0.3s)</td> <td>Searching GNSS signal</td> </tr> <tr> <td>Solid on</td> <td>Positioned</td> </tr> <tr> <td>Off</td> <td>GNSS module is in sleep mode or not working</td> </tr> </tbody> </table>	Indication	Definition	Fast blinking (on 0.1s, off 0.1s)	Network initializing	Slow blinking (on 0.1s, off 0.1s)	Receiving signal normally	Solid on	GSM/GPRS is online	Off	No signal received or no SIM card detected	Indication	Definition	Fast blinking (on 0.3s, off 0.3s)	Searching GNSS signal	Solid on	Positioned	Off	GNSS module is in sleep mode or not working	<p><b>Cellular Status (Green)</b></p> <table border="1"> <thead> <tr> <th>Indication</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td>Fast blinking (on 0.1s, off 0.1s)</td> <td>Network initializing</td> </tr> <tr> <td>Slow blinking (on 0.1s, off 2s)</td> <td>Receiving signal normally</td> </tr> <tr> <td>Solid on</td> <td>GSM/GPRS is online</td> </tr> <tr> <td>Off</td> <td>No signal received or no SIM card detected</td> </tr> </tbody> </table> <p><b>Product Setup</b></p>	Indication	Definition	Fast blinking (on 0.1s, off 0.1s)	Network initializing	Slow blinking (on 0.1s, off 2s)	Receiving signal normally	Solid on	GSM/GPRS is online	Off	No signal received or no SIM card detected	<p><b>Insert SIM card and Power on</b></p> <ol style="list-style-type: none"> <li>Choose Nano SIM card with access to GPRS and SMS.</li> <li>Take the pry tool out and plug it into the gaps one by one, pry them until the case is loose, then separate the case from core.</li> <li>Insert SIM card into the slot.</li> <li>Align the half hole and half cylinder of double sides, then fasten the case and core (LEDs will be damaged if without alignment).</li> </ol> <p><b>Note:</b> After SIM card inserted, device will power on itself automatically. Low battery voltage may affect its self-activation, in this situation please plug it into vehicle OBD interface to charge.</p>	<p><b>Configuration</b></p> <p><b>Login platform</b></p> <p>To interact with this device, please login the location service platform that your distributor designates, and enter the designated website to download mobile app.</p> <p><b>Tracked by mobile phone</b> Send the command URL by SMS to the device's SIM card number. The device will reply with a msg link. Click the link to have the location displayed on Google Maps on your mobile phone. If device is somewhere not positioned, device will reply "Positioning please wait for a moment" or "Positioning fail".</p> <p><b>Monitored by tracking platform</b> APN &amp; Server setting To ensure normal network operation, please confirm your APN and</p>	<p>server setting before you login. In most countries, APN could be automatically adapted to local mobile operators, if not, please send SMS to set the APN.</p> <p>If user name and password are required for APN, please add it into the command. APN:apnname E.g:APN:nttnet APN:apnname,user:passwd E.g:APN:nttnet,CLENTE,AMENAS#</p> <p>Confirm the server address and setting with distributors. If server is incorrect, please send SMS to change. SERVER: mode,server: name,IP:port E.g: SERVER: 1, www.your.com, 8011,0# SERVER: 2, 111.154.125.113,8011,0# mode:1 means set with domain name mode:0 means set with IP address</p> <p>Please login the designated service platform and enjoy your monitoring experience.</p> <p><b>GPS upload interval setting</b> By time interval (Default Valid) TIMER:T1,T2#</p>
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<p>T1 means upload interval when ACC ON T2 means upload interval when ACC OFF Range: 5~1800 or 0 (seconds) 0 means no upload Default valid setting: TIMER:10,10# Query current TIMER setting: <a href="#">TIMER#</a></p> <p><b>By distance interval (Default OFF)</b> <a href="#">DISTANCE:ON</a> D ranges 50~10000 or 0 (meters) Note: When user enable uploading by DISTANCE, the preset TIME uploading turns invalid.</p> <p><b>Over-speed alert (Default OFF)</b> <a href="#">SPEED:AS:ON#</a> A=ON/OFF; speeding alarm; default: OFF B=5~600 seconds; detection time range; default: 20 C=1~255 km/h; speeding threshold; default: 50 M=0/1; alert report mode; GPRS: 1; SMS+GPRS; default: M=1 E.g: SPEED:ON,80,120,1# When vehicle speed has been over 100km/h for 80 seconds, you will receive alerts via SMS and GPRS. Note: Send <a href="#">SPEED:OFF#</a> to disable over-speed alert when necessary.</p>	<p><b>Tow alert (Default OFF)</b> When vehicle is dragged, device could send alert. <a href="#">MOVING:SR:ON#</a> S=1 means ON; S=0 means OFF R means radius, range 100~1000 (meter) M means alert way M=1 SMS+GPRS; M=0 means GPRS Note: Send <a href="#">MOVING:OFF#</a> to disable tow alert when necessary.</p> <p><b>Drowsy driving alert (Default ON)</b> <a href="#">FATIGUE:ALM:ON,T1,T2,T3,M:SR</a> If a driver has continuously driven over Maximum Driving Time (T1), and the total break time is less than Minimum break time (T2), drowsy driving alert will be activated.</p> <p>Drowsy driving alert: A period of time (T3) before reaching Maximum Driving Time, device will start to warn driver (e.g. buzzer) to have a break. T1=60-600 minutes; Maximum driving time; default: T1=240, T2=1-255 minutes; Minimum break time; default: T2=20, T3=10-240 minutes; Pre-alert time before reaching T1; default: T3=30 (Need: T1&gt;T3).</p>	<p>M=0/1; alert report mode; G: GPRS; 1: SMS+GPRS; default: M=0, S=ON/OFF; activate/deactivate buzzer. ON: Buzzer will sound to pre-alert drowsy driving. OFF: Buzzer will not sound to pre-alert drowsy driving. Default: ON; Buzzer sounds in a cycle of 1s active and 1s inactive to pre-alert drowsy driving, total 5 cycles). Note: Send <a href="#">FATIGUE:ALM:OFF#</a> to disable drowsy driving alert when necessary.</p> <p><b>Driving Behavior Analysis</b> Device support detecting eight types of driver behaviors, which are transmitted via GPRS and can be displayed on server.</p> <p><b>1.Harsh acceleration alert</b> When vehicle's speed increases sharply, an alert will be sent to platform. E.g.: One vehicle's speed increases from 0KM/H to 50KM/H in 2 seconds.</p> <p><b>2.Harsh braking alert</b> When vehicle's speed decreases sharply, an alert will be sent to platform. E.g.: One vehicle's speed drops from 50KM/H to 10KM/H in 2 seconds.</p>	<p><b>3.Harsh cornering alert</b> When vehicle makes sharp turning, an alert will be sent to platform. E.g.: The driving speed is greater than 30KM/H, and the angle change is greater than 90 degrees.</p> <p><b>4. Sudden lane change alert</b> When vehicle suddenly changes lanes at high speed, an alert will be sent to platform. E.g.: The driving speed is greater than 60KM/H, and the angle change is less than 20 degrees.</p> <p><b>5. Collision alert</b> If collision occurs, the device will send alert to the platform. Slight impact and scratch will not trigger the alert.</p> <p><b>6. Rollover alert</b> When vehicle's rolling angle exceeds 70°, an alert will be sent to platform.</p> <p><b>7. Skidding alert</b> When vehicle changes the course angle for more than 3 seconds at an angular velocity greater than 20° / s, an alert will be sent to platform.</p>	<p><b>8. Roll and pitch alert</b> When vehicle pitches or rolls greater than 20° and smaller than 70°, an alert will be sent to platform.</p> <p><b>Troubleshooting</b></p> <table border="1"> <thead> <tr> <th>Problem</th> <th>Solution</th> </tr> </thead> <tbody> <tr> <td>Unable to connect to tracking platform</td> <td>Check APN and server settings. Check whether the data service of SIM card is enabled. Check the balance of your SIM card.</td> </tr> <tr> <td>The device is offline on the platform</td> <td>Check whether the external power is well connected. Check if the device is in an area without network. Check the balance of SIM card.</td> </tr> <tr> <td>Unable to locate</td> <td>Check if there is a metallic layer above the device shielding satellite signal. 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Check if SIM card is well inserted and supports SMS services.</p> <p><b>Warranty instructions</b></p> <ol style="list-style-type: none"> <li>The warranty is valid only when the warranty card is properly completed, and upon presentation of the proof of purchase consisting of original invoice indicating the date of purchase, model and serial No. of the product. We reserve the right to refuse warranty if this information has been removed or changed after the original purchase of the product from the dealer.</li> <li>Our obligations are limited to repair of the defect or replacement the defective part or at its discretion replacement of the product itself.</li> <li>Warranty repairs must be carried out by our Authorized Service Centre. Warranty cover will be void, even if a repair has been attempted by any unauthorized service centre.</li> </ol>	<p><b>Maintenance Record</b></p> <table border="1"> <thead> <tr> <th>Date</th> <th>Serviced by</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td>Product Model</td> <td> </td> </tr> <tr> <td>IMEI Number</td> <td> </td> </tr> <tr> <td>Fail Descriptions</td> <td> </td> </tr> <tr> <td>Comments</td> <td> </td> </tr> </tbody> </table>	Date	Serviced by			Product Model		IMEI Number		Fail Descriptions		Comments		<p><b>JM-VG02U</b></p> <p><b>INS-AIDED OBD</b></p> <p><b>GPS VEHICLE TERMINAL</b></p> <p><b>Quick Start Manual</b></p> <p><b>V2.0</b></p> <p>FCC ID : 2AMLF-JM-VG02U</p>																																		
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This mobile phone complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This mobile phone has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiated radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Please keep 20cm use distance away from human body.