AOVX VG200 Quick Start

Motorcycle Tracker

V1.0

Contents

History

Revision	Date	Author	Description
V1.0	2023/02/15	Barry	Initial

1 Introduction

The VG200 is a tiny tracker device which is used for motorcycle and vehicle positioning. Ultra-small size and only 2 wires easy to install. Ultra-low power consumption, and support for USB and OTA upgrade.

NOTE: Please use the USB cable provided by AOVX.

1.1 Device overview

Figure_1 Overview of VG200

USB data to serial port cable

1.2 Wiring sequence

Table1 VG200

NO	COLOR	SIGNAL
1	Red	VCC
2	Black	GND

Figure_2 Two wires

2 Set up your device

2.1 How to insert SIM card and power supply

1 Insert the **Nano SIM card** from the top of the device

2 The device will start when it is connected to a power source.

3 Connect the device to the car fuse box according to the **wiring sequence**.If testing in a laboratory or office, power can be supplied directly using a 12V DC source

NOTE: Please note that if the device does not have vibration detected within 6 minutes of starting, the device will go to sleep.

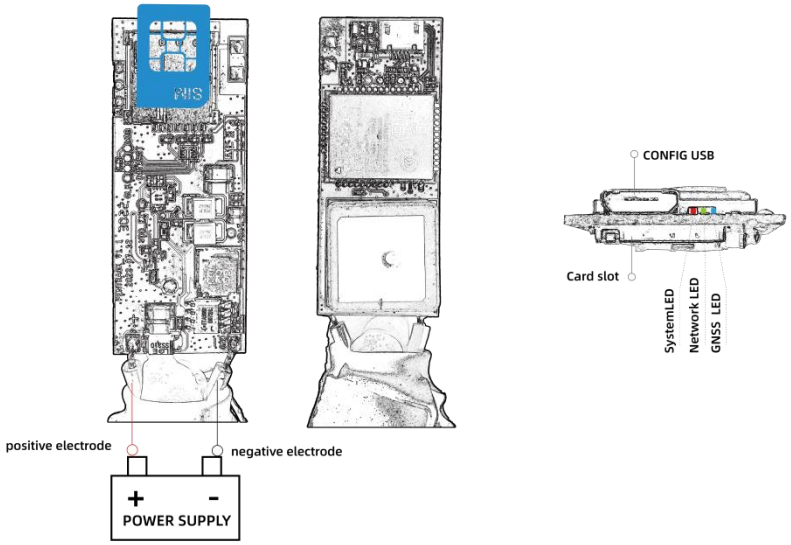

Figure_4 Insert SIM card and connect battery

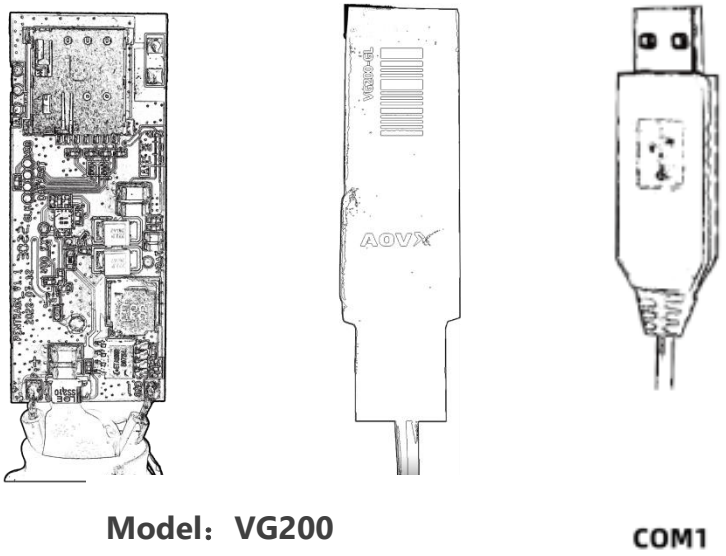

Figure_5 Connect device via cable

2.2 How to connect to computer

1 Make sure the device is powered on and check the LED lights are in normal state.See **LED indicators**.

2 Connect the device to the computer via USB data to the serial port cable.

2.3 How to install USB driver

1 Please download the USB-to-Serial cable driver **here.**

2 Install the driver according to the prompt on the screen.

3 After installation,go to **Device Manager** and check for the "**Prolific USB-to-Serial Com Port**" device and the **COM port** number assigned by Windows.

4 You are now ready to use the device on your computer.

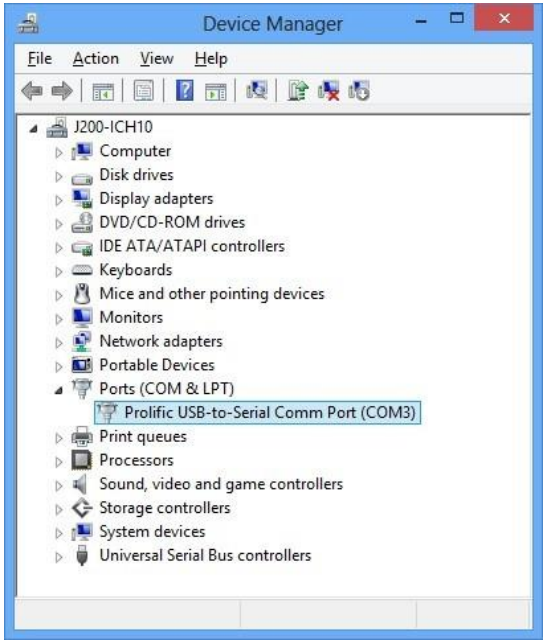

Figure_6 Check COM port

2.4 Local

All devices will have default factory settings. These settings should be changed according to the user's needs.If you need to change the parameters, please configure them through the latest **configuration tool**.

1 Configuration process begins by connecting the device to computer via cable.

Open the **configuration tool**; Select the corresponding COM port; **DeviceInfo** is in the lower left corner of the tool, it shows the **Type**, **IMEI**,**ICCID** and **Version** of the device.Main buttons offer the following functionality:

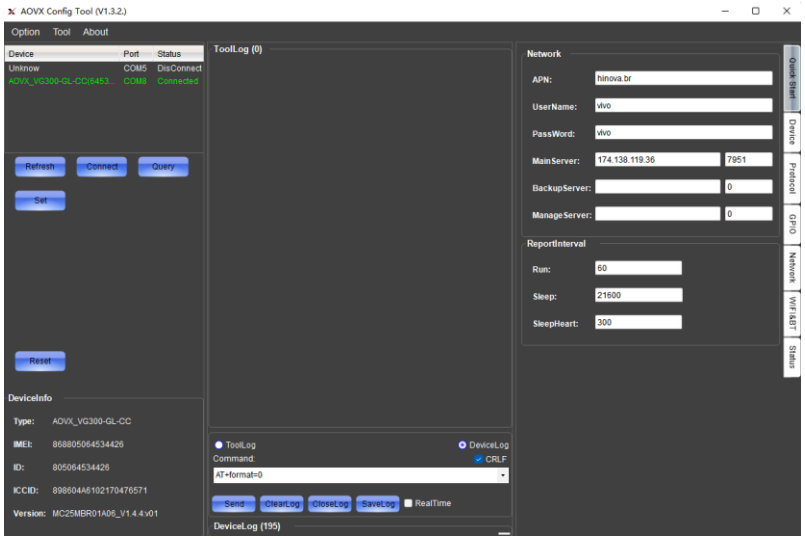

Figure_7 Config tool window

① **Option- Language-** Languages supported by the tool.

- **View**- Check the device log or tool log.

- **Property**- Settings of the tool.

② **Tool- Protocol Analyze-** Analyze JT808/T808 protocol.

-Power consumption evaluation- Evaluate usage time based on battery capacity, or evaluate battery capacity based on usage time

-Download- Loads upgrade package from file..

-Import config Information-Import the parameter configuration information of the device

-Export config Information-Export device parameter configuration information

③ **About- Version-**The version of the tool.

-Help- If you need more information contact us here..

④ **Refresh-**Refresh the COM port and device information.

⑤ **Connect-** Connect the COM port.

⑥ **Query-** Query the device information.

⑦ **Set-** Save configuration to the device.

⑧ **Reset-** Restart the device.

⑨ **Quick start-** Configure Network and Report interval.

⑩ **Device config-**configure the device information

⑪ **Network config-**configure band and LTE FDD.

2 Make sure you click **set** after every configuration.The most important configurator section is **Quick Start** – where all your server and network can be configured.

2.5 SMS configuration

Quickly set up your device by sending SMS commands to it:

Table3 SMS commands

commands	description
IP=<index>,<ip>,<port>	configure IP
APN=<apn>,<name>,<password>	configure APN
TIMEZONE=<zone>	configure timezone
GPIOMODE=<channel>,<mode>	configure GPIO MODE

More details about SMS commands can be found in **AOVX AT commands.**

Default configuration settings

Report Interval

Run mode:Report every 25 seconds in run mode by default.

Sleep mode:Report every 1800 seconds in sleep mode by default.

Sleepheart:Report every 180 seconds by default.

Device configuration

Maxspeed:Report when the speed over120km/h is overspeed by default.

Turn angle:Report when the turn angle is over 25° by default.

Shake level:Report when the shake level is over 25 by default..

Shake time:It's in run mode when the shaking time is over 15s by default. (only for 24V vehicles)

Noshake time:It's in a sleep state when no shake time over the 30s by default. (only for 24V vehicles)

Crash level:Report when the crash level is over 460 by default.

Timezone:GMT+0 by default.

Run Voltage:It's in run mode while over 13500V by default.(only for VG300)

Sleep Voltage:It's in sleep mode while lower 11850V by default.

GNSS Galaxy: GPS+BD by default.

3 LED light indications

The three indicators are always on under the normal working state of the device, and all three indicators are off under the sleep state.

System LED indication

Table 4 System LED

COLOR	STATE	MEANING
red	on	Main power supply
	off	No power or in sleep mode

Network LED indication

Table 5 Network LED

COLOR	STATE	MEANING
green	on	Linking server succeeded
	off	No power or in sleep mode
	flash	Searching for network or linking servers

GNSS LED indication

Table 6 GNSS LED

COLOR	STATE	MEANING
blue	on	GNSS positioning succeeded
	off	No power or in sleep mode
	flash	Searching GNSS

Safety Information

VG200 tiny tracker device , 2 wires easy to install.This message contains information on how to operate VG200 safely. By following these requirements and recommendations, you will avoid dangerous situations. You must read these instructions carefully and follow them strictly before operating the device!

⚠The allowed voltage range is 9-40 V DC.

⚠To avoid mechanical damage, it is advised to transport the device in an impact-proof package. Before usage, the device should be placed so that its LED indicators are visible. They show the status of device's operation.

⚠Before installing and unmounting the device from the vehicle, the ignition MUST be OFF.

Do not disassemble the device. If the device is damaged, the power supply cables are not isolated or the isolation is damaged, DO NOT touch the device before unplugging the power supply.

All wireless data transferring devices produce interference that may affect other devices which are placed nearby.

Please consult representatives of your vehicle model regarding the VG200 location on your vehicle. In case you are not sure about the proper connection, please consult qualified personnel.

The programming must be performed using a PC with an autonomic power supply.

Installation and/or handling during a lightning storm is prohibited.

The device is susceptible to water and humidity.

AOVX is not responsible for any harm caused by wrong cables used for connection between PC and VG200

WARNING! Do not use the VG200 device if it distracts driver or causes inconvenience due to VG200 placement. Device must not interfere with driver.