



MV33G User Manual V1.0

Learn how to set up your new MiCODUS Tracker

1. Main Features



Compact Size



4G LTE+
2G GSM



Realtime
Tracking



Historical Route
Playback



9-40V Wide
Working Voltage



Voice Monitor



Voltage
Detection



OBD2



Geo-fence



Overspeed
Alarm



Plug Out Alarm



Engine On/
OFF Alarm



Vibration
Alarm



Displacement
Alarm

2. Specifications

Device Information	Model	MV33G
	Weight	40g
	Dimensions	47mm(L)x46mm(W)x25mm(H)
	Battery	Built-in 80mAh Lithium Battery
Working Parameters	Working Voltage	9-40V DC
	Working Power	Working Power: around 0.72w
	Working Temperature	-20 C - 60 C
	Working Humidity	5%-95%RH
Cellular Specifications	SIM Card	Nano Size
	Cellular Antenna	Built-in
	Working Frequency	2G GSM/GPRS: 850/900/1800/1900MHz 4G LTE CAT1: B1/B2/B3/B4/B5/B7/B8/B12/ B13/B18/B19/B20/B25/B26/B28/B66/B34/ B38/B39/B40/B41
GNSS Specifications	GNSS	GPS+GLONASS+BDS+GALILEO+QZSS+SBA (WAAS, EGNOS, GAGAN, MSAS)
	Hot/warm/cold Start	<3s, <35s, <45s @ Open Sky
	GNSS Antenna	Built-in Ceramics GNSS Antenna
	Positioning Type	GNSS+LBS+AGPS
Accuracy		GNSS Accuracy: <5M @ Open Sky
		LBS Accuracy: 200-2000m (Depend on density of base stations)
	4G+2G, Voice Monitor, Vibration Alarm, Movement Alarm, Geofence, Plug Out Alarm, Engine Start/Flameout Alarm, Battery Voltage Display etc.	

3. Activate Device

First Step: Prepare And Install Sim Card

- If use your local SIM card, please make sure the SIM card already enabled SMS, internet data traffic, call and caller ID displaying functions;
- If use our spionlink SIM card, then please recharge it via this website www.spionlink.com to get data plan firstly



LED	Event	State
GSM LED (GREEN)	Searching for network	Solid
	Network has been registered	Flash every 1 second
GPS LED (Blue)	GPS is in fixing	Solid
	GPS has fixed	Flash every 1 second
ALL LED	Device is working but stopped more than 5min	ALL LED TURN OFF
	Device has not been turn on	
	Device ran out of battery	

Second Step: Connect the Tracker with OBD2 Port of Car



NOTE ⚠⚠⚠ The device just has 80mAh small backup battery, it is not enough to supports its normal working, please connect the tracking with OBD port of your car for power supply.

Second Step: Configure APN

Please get the exact correct APN name from local SIM card provider. Take the tracker to a good signal place for operation and configure the APN for it as below:

SMS Command Format	Reply	Example	Note
apn,apn content, apnuser,apnpasswd#	apn ok	apn,orange,orange, orange#	If there has APN user and APN apnpassword, then please use this command for configuration
apn,apn content#	apn ok	apn,internet#	If there doesn't have APN user and APN password, then please use this command for configuration

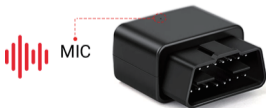
Note: The APN information is very important, it must 100% correct to match with the sim card of the tracker, if you configured wrong APN, the tracker also will reply "SET APN ok" but it will can't get online!

4.Package Content

MV33G 4G OBD Tracker	x 1
USB Charging Cable	x 1
User Guide	x 1
Packing Box	x 1

5.Functions Explanation

1. Voice Monitor



Please call the SIM number of the tracker directly from any number, the tracker will pick up the call and then you will can monitor the voice around it.

2. Engine Start/Flameout Alarm

* Set admin number: **admin123456,number**

For example, if your cellphone number is +8613366668888, then the command should be sent like this:**admin123456,+8613366668888**

* Enable ACC status detection: **smartacc123456,1**

* Set up the ACC status change alarm way: **autorep123456,33**

For example:



3. Vibration Alarm

* Set admin number: **admin123456,number**

For example, if your cellphone number is +8613366668888, then the command should be sent like this: **admin123456,+8613366668888**

* Set SOS contact numbers: **sos,sos1,sos2**

For example, if the two SOS numbers are +8613366668888,+8613755559999, then the command should be sent like this:

sos,+8613366668888,+8613755559999

* Set vibration alarm way: **vib,level,mode**

(Level: 1-9, 1 is the most sensitive; Mode: 1-4:

- 1、Platform+SMS;
- 2、Platform+Call;
- 3、Platform+SMS+Call;
- 4、Platform only Default: 4)

For example:



6. Installation Recommendation

Where is the OBD interface?

Most of the car's OBD interface is located in A and B, A small part of the car will be in C,D and E.



Area A

VW, Ford, Toyota, Hyundai, Citroen, BMW, etc./Most cars.

Area B

Honda, Lexus, etc.

Area C

Dongfeng Citroen, etc.

Area D/E

A few cars...

7. Full SMS Commands List

Functions	Command Format	Explanation
Query Commands		
Parameter Query	param,1	firmware version· ID· IP· port· domain· APN
	param,2	admin number, SOS number,move distance, overspeed, auto arm time, auto disarm time, alarm interval
Status	status	BAT:10 GPRS: GSM: GPS:AV ACC:on/off oil:on/off power:on/off
IMEI Checking	imei123456	
Check Command Password	getpsd	
Google Maps Link	G123456# or where	<p>http://maps.google.com/maps?q=00.00000%2c000.00000 V:A,2019-11-26 10:17:01 S:000km/h,Bat:5ACC:off,7801000006,S26G06;p:46000,l:13152,c:63162</p> <p>V:A: Indicates the device has GPS signal; V:V: Indicates the device doesn't have GPS signal; 2019-11-26 10:17:01: Date and Time; S: 000km/h: Speed of the tracker Bat:5: Battery level of the backup battery of the tracker, it has 6 levels: "6" means 100% , "5" 80%, "4" means 60%, "3" means 40%, "2" means 20%, "1" means 10%; ACC: off: The status of the car engine; 7201000006: ID number of the device; S26: GSM signal is 26 G06: GPS signal is 06 p:46000, l:13152, c:63162: p,l,c this 3 parameters means the LBS code</p>
Setting Commands		
Set Admin Number	admin123456,number	Example: admin123456,008613566669999 Please add your country code as prefix of the admin number
Set SOS Numbers	SOS,SOS1,SOS2	Example: SOS,008613566668888,008613566669999 Please add your country code as prefix of the admin number
Back to Factory Setting	begin123456	After sent this sms command, all your configuration will be cleared and the device will get back to factory default settings
Command Password Change	setpwd123456,new password	The password just can be 6 digitals
Restart	rst	After sent this sms command, the configurations will be saved and the device will restart
Data Traffic Switch	gprs123456,A	A=1 ON ; A=0 OFF; Default: 1

Functions	Command Format	Explanation
APN	apn,apn content,apnuser,apnpasswd	Example: apn,orange,orange,orange If there has APN user and APN password, then please use this command for configuration
	apn,apn content	Example: apn,internet If there doesn't have APN user and APN password, then please use this command for configuration
IP/Domain&Port	adminip123456, ip/domain name:port	Example: adminip 123456,47.254.77.28:7700 or adminip 123456,d.micodus.net:7700 Micodus tracking platform: Domain name: d.micodus.net, IP: 47.254.77.28, Port: 7700
Data Upload Frequency	upload123456,A	A: Time interval value: 1-3600s; if A is less than 600s, for example, A=10s, then device will upload data every 10s when moving, after the car stop more than 5min, it will just upload heartbeat data every 3min; if A is more than 600s, for example, A=1800s, then the device will upload data according to 1800s under both moving and stationary status
Time Zone	timezone123456,A	If west time zone, you need input sign "-", for example: timezone123456,-4; if east time zone, then needn't input sign "+", for example: timezone123456 8
Arm	111 or SF	
Disarm	000 or CF	
Sleep Mode	sleep123456,time	If device keep stationary more than 5 minutes the device will enter into sleep mode automatically, sms commands and call can wake up it
	sleep123456,shock	If device keep stationary more than 5 minutes the device will enter into sleep mode automatically, vibration, sms commands and call can wake up it
	sleep123456,off	Cancel sleep mode
Enable ACC Detection	smartacc123456,a	Example: smartacc123456,1 Turn on: a=1; Turn off: a=0 (when the external voltage is higher than 13.5v, the device will report it as on)
Alarm Setting Commands		
Movement Alarm	move,<distance(m)>, [mode]	Example: move,500,4 Move distance 100-3000m; Mode:1-4: 1. Platform+SMS; 2. Platform+Call; 3. Platform+SMS+Call; 4. Platform only Default: 4
Overspeed Alarm	speed, <over speed value>, [mode]	Example: speed,80,4 Speed value: 20-150km/h; Mode: 1-4: 1. Platform+SMS; 2. Platform+Call; 3. Platform+SMS+Call; 4. Platform only Default: 4

Functions	Command Format	Explanation
Vibration Alarm	vib,<level>,[mode]	Example: vib,2,4 Sensitivity Level: 1-9, 1 is the most sensitive; Mode: 1-4: 1. Platform+SMS; 2. Platform+Call; 3. Platform+SMS+Call; 4. Platform only Default: 4
Engine On/Off Alarm	autorep123456,AB	Example: autorep123456,33 A=0 (Engine ON: No Alarm); A=1 (Engine ON: SMS only); A=2 (Engine ON:Platform only); A=3 (Engine ON: SMS+Platform) B=0 (Engine OFF: No Alarm); B=1 (Engine OFF: SMS only); B=2 (Engine OFF: Platform only);B=3 (Engine OFF: SMS+Platform)
Car Battery Low Voltage Alarm	lowalarm,<voltage>,[mode]	Example: lowalarm,12,4 Voltage scope 5-100V; Mode:1-4: 1. Platform+SMS; 2. Platform+Call; 3. Platform+SMS+Call; 4. Platform only Default: 4
Power Off Alarm	pwr,A	Example: pwr,1 A: Alarm ways 0-4: 0. Off; 1. Platform+SMS; 2. Platform+Call; 3. Platform+SMS+Call; 4. Platform only Default: 4

8. Trouble Shooting

Type	Use
Unable to connect to tracking platform	Check the APN and settings. Check whether the data service of SIM card is enabled. Check the balance of SIM card.
Tracker shows offline	Check whether external power is still connected. Check if the vehicle entered network blind area. Check the balance of SIM card.
Unable to locate	Make sure the top side facing upward without metallic things shielded. Make sure it's not in area with no satellite coverage.
Location drift	In area with poor GNSS signal (tall building around or basement), drifting may happen. Check whether vibration happens around to trigger the accelerator.
No command reply	Make sure command format is correct. Vehicle may be in network blind area. Make sure SIM card is well inserted and has SMS servi

9. After-sale Contact Information

E-mail: support@micodus.com

Skype: MiCODUS

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