MV33 User Manual V2.0

Learn how to set up your new MiCODUS Tracker

1. Main Features

Compact Size	Plug & Play	GPS+LBS Dual Positioning	9-60V Wide Working Voltage	Voice Monitor
Plug Out Alarm	Vibration Alert	Overspeed Alarm	Geo-fence	Movement Alarm

2. Specifications

	Model	MV33
Device Information	Weight	69g
	Dimensions	45mm(L) * 25mm(W) * 38mm(H)
	Backup Battery Working Time	1-2 hours
Working Parameters	Working Voltage	DC 9-60V
	Working Current	<30 mA
	Sleep Current	<15 uA
	Battery Capacity	3.7V 70mAh Lion Lithium Polymer battery
	Working Temperature	-20℃ - 70℃
	Working Humidity	10%-85%RH non-condensing
Cellular Specifications	Working Frequency	2G GSM: 850/900/1800/1900MHz
	SIM Card	Nano SIM Card
	Cellular Antenna	Built-in
GNSS Specifications	Positioning Type	GSM/GPRS
	GPS Antenna	Built-in
	Cold Start	≤32 Seconds
	Hot Start	≤1 Second
	Tracking sensitivity	-162 dBm
	GPS Channels	64
	Position Accuracy	5-10m

3. Activate Device

Install the SIM card via the correct direction as below:

Nano SIM

Micro SIM

Normal SIM

LED	Event	State
POWER LED (RED)	Charging	Solid
	Charger has not been inserted	Dark
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	
	Device has not been turn on	ALL LED TURN OFF
	Device ran out of battery	

4.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,ApnName,User, Password#	SET APN OK	APN,orange, orange,orange#	If the SIM card has APN user and APN password, then use this command.
APN,ApnName#	SET APN OK	APN,internet#	If the SIM card operator **doesn't** have APN user and APN password, then please use this command.

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!

5. Activate Device

GPS Main Unit	x 1
User Guide	x 1
Genuine Packing Box	x 1

6. Applications

Private Car

Truck

Fleet Management

Car Rental

7. Functions Explanation

Please follow with the quick user guide carefully!

a. Voice Monitor:

* Set admin number by this sms command:
  admin123456,+mobile number with country code

* Switch the tracker to voice monitor mode
  by this sms command:*monitor123456,1*

* Dial the sim number of the tracker from the admin
  number, then the tracker will pick up the call automatically
  and you will can remote monitor the voice around it.

For example:

b. Vibration Alert:

This vibration alert function just work under stationary
status. How to use this function:

* Set admin number by this sms command:
  admin123456,+mobile number with country code

* Enable the device to enter into arm mode by this
  sms command: *111*

* Conifgure the alarm ways by this sms command:
  vib,2,4

For example:

* Keep the device under stationary status more than 5min to let it enter into sleep arm mode;

* Vibrate the device then the tracker will send the vibration alarm messages

8. Installation Recomendation

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 Citronen,etc.
Area D/E	A few cars...

9. Troubleshooting

Type	Use
Unable to connect to tracking platform	Check the APN and settings. Check whrther 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 netword 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.

10. Full SMS Commands List

Inquiry Commands

Functions	Command Format	Explanation
Parameters Inquiry	param,1	Firmware version、ID、IP、Port、Domain name、APN
	param,2	Admin number，SOS numbers，movement alarm distance，overspeed threshold，auto arm time，disarm time，alarm time interval
Google maps link Inquiry	where	Reply with google maps link
Status Inquiry	status	Battery，GPRS level, GSM level, GPS:A/V, ACC status Fuel circuit situation，External power situation
IMEI Inquiry	imei123456	Reply with IMEI number

Setting Commands

Functions	Command Format	Explanation
Admin number	admin123456,number	**Example: admin123456,186**********
Restore factory settings	begin123456	After sent this sms command, all your configuration will be cleared and the device will get back to factory default settings
Restore password	setpwd<old password>,<new password>	**Example: setpwd123456,654321** The default password is 123456. Note: The password must be a 6-digit number.
Restart device	rst	After sent this sms command, the configurations will be saved and the device will restart
APN	apn,apn content,apnuser,apnpasswd	**Example: apn,cmnet,user,passwd** If APN without username and password, then just set up the APN name will be ok
IP&Port&Domain name	adminip123456,ip:port	**Example: adminip123456,47.254.77.28:7700 or adminip123456,d.micodus.net:7700**
Voice Monitor	monitor123456,a	**Example:monitor123456,1** A=1 Open A=0 Closed Default: Open
Data upload interval	upload123456,A	**Example: upload123456,30** A:Upload time interval，unit: second，Scope: 5-18000s, Default: 20s. NOTE: If set a fixed upload time of over 600 seconds, then the device will upload according that time interval on both ignition on and ignition off status.
Time zone setting	timezone123456,A	**Example: timezone123456,-4** After setting the time zone, the alarm time via will changes to the corresponding time zone. Default time zone is 0
Arm	111	Enable vibration alarm
Disarm	000	Disable vibration alarm
Track Mode	tracker123456	Note: This command is used to switch the tracker back to track mode after voice monitor
Sleep by time	sleep123456,time	The device enters sleep mode after being stationary for five minutes without any operation, and can be awakened by SMS and phone call.
Sleep by vibration	sleep123456,shock	The device enters sleep mode after being stationary for five minutes without any operation, and can be awakened by vibration, SMS and phone call.
No sleep	sleep123456,off	The device keeps working without sleeping

Alarm Commands

Functions	Command Format	Explanation
Vibration alarm	vib,A,B	**Example:vib,2,4** A: Sensitivity level, Scope: 1-9, 1 is the most sensitive level, Default: 2 B: Alarm way: 1: Server+SMS; 2: Server+Call; 3: Server+SMS+Call; 4: Server Only Default:4 NOTE: After connecting the ACC wire, if the ignition status changes from on to off, the device will automatically arm after 2 minutes. If the ignition status changes from off to on, the device will automatically disarm after 30 seconds. If the device detected vibration, it will check the ignition status firstly, if the ignition status is off within 30s, the vibration alarm will be triggered. If device is under ignition on status, then the vibration alarm will not be triggered.
Movement Alarm	move+alarm distance	Movement alarm distance scope: 100-1000m
Overspeed Alarm	speed,A,B	**Example:speed,80,4** A: Overspeed value B:Alarm way: 1:Server+SMS; 2:Server+Call; 3:Server+SMS+Call; 4:Server only, Default:4

11. Any Questions?

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