MV33 User Manual V1.0

Learn how to set up your new MiCODUS Tracker

1. Main Features

Compact Size	Plug & Play	GPS+LBS Dual Positioning	9-90V Wide Working Voltage	Voice Monitor
Plug Out Alarm	Vibration Alert	Overspeed Alarm	Geo-fence	Movement Alarm

2.Specifications

Device Information	Model	MV33
	Weight	69g
	Dimensions	45mm(L) * 25mm(W) * 38mm(H)
	Backup Battery Working Time	1-2 hours
Working Parameters	Working Voltage	DC 9-40V
	Working Current	<30 mA
	Sleep Current	<15 uA
	Battery Capacity	3.7V 80mAh Lion 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

4. Activate Device

Install the SIM card via the correct direction as below:

- Nano SIM
- Micro SIM
- Normal SIM
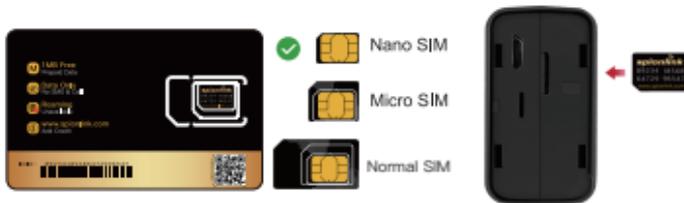
LED	Event	State
POWER LED (RED)	Charging	Solid
	Charger has not been inserted	Dark
GSM LED (GREEN)	Searching for network	Solid
	Network has been registered	Flash every 1 second
GPS LED (Blue)	GPS is in fixing	Solid
	GPS has fixed	Flash every 1 second
ALL LED	Device is working but stopped more than 5min	ALL LED TURN OFF
	Device has not been turn on	
	Device ran out of battery	

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
apn123456+space+apn name	apn ok	apn123456 cmnet	Please get the exact correct APN name from local SIM card provider."cmnet" is just an example of APN name.
apnuser123456+space+apnuser	apnuser ok	apnuser123456 cmnet	If the SIM card operator doesn't have APN user name,then please ignore this configuration
apnpasswd123456+space+apnpassword	apnpasswd ok	apnpasswd123456 123	

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
Function Cable	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+space+mobile number with country code

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

* 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+space+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:
vibalm123456

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

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

Functions	Command Format	Explanation
Set Admin Number	admin123456+space+mobile number with country code	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
Password Change	password+old password+space+ 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
APN	apn+123456+apn content	Please get the exact correct APN name from the SIM card provider of the tracker, "cmnet" is China Mobile's APN name
	apnuser+123456+space+content	If the SIM card operator doesn't have APN user, then please ignore this configuration
	apnuser+123456+space+content	If the SIM card operator doesn't have APN password, then please ignore this configuration

Functions	Command Format	Explanation
IP&Port	adminip+123456+space+ip+space+port	Micodus tracking platform's IP: 47.254.77.28; Port: 7700
Domain	SZCS,123456,DOMAIN=d.micodus.net:7700	MiCODUS server domain: d.micodus.net, Port: 7700
Google Maps Link	G123456# or where	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
Data Upload Frequency	upload123456+space+time	Time interval scope: 10-180s
Time Zone	timezone+123456+space+GMT No.	If east time zone, needn't input sign "+", for example, if the time zone is East 8, then the sms command should be sent like this: timezone123456 8
Parameter Query	param1	firmware version. ID. IP. port. domain. APN
	param2	admin number, SOS number,move distance, overspeed, auto arm time, auto disarm time, alarm interval
Status	status	BAT:10 GPRS: GSM. GPS:A/V ACC:on/off oil:on/off power:on/off
Arm	111 or SF	
Disarm	000 or CF	
Movement Alarm	move+alarm distance	Movement alarm distance scope: 100-1000m
Overspeed Alarm	speed+123456+space+080(km/h)	Overpeed alarm speed scope: 20-150km/h
IMEI Checking	imei+123456	

Functions	Command Format	Explanation
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
Vibrate Alarm	vibx,y	x=1-3(1: SMS alarm, 2: Call alarm, 3: SMS first then Call); y=1-9,1 is the most sensitive
	vibcall+123456	Vibrate call alarm set ok (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)
	vibalm+123456	Vibrate sms alarm set ok(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)
Voice Monitor	monitor123456	Note: This command is used to switch the tracker to monitor mode, then dial the sim number of the tracker from the admin number, the device will pick up call automatically.
Track Mode	tracker123456	Note: This command is used to switch the tracker back to track mode after voice monitor

11. Any Questions?

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12. Download the APP

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