

## **MV66 User Manual V2.0**

Learn how to set up your new MiCODUS Tracker

# 1. Main Features



Compact Size



Plug & Play



Real-time Tracking



Historical Route Playback



Overspeed Alarm



Engine On/  
OFF Alarm



Shift Alarm



Vibration Alarm



Geo-fence



Plug Out Alarm



Low Voltage Alarm



Voice Monitor

# 2.Specifications

Device Information	Model	MV66
	Weight	30g
	Dimensions	48.2mm(L) * 28.6mm(W) * 29.1mm(H)
	Backup Battery	3.7V 60mAh Li-Polymer Battery
Working Parameters	Working Voltage	DC 9V - 35V
	Working Current	12V/45mA
	Sleep Current	12V/8mA
	Working Temperature	-20℃ - 75℃
	Working Humidity	5%-95%RH
Cellular Specifications	Communication Module	QUECTEL MC25
	SIM Card	Micro Size
	Cellular Antenna	Built-in
	Working Frequencies	2G GSM/GPRS: 850/900/1800/1900MHz
GNSS Specifications	GNSS	GPS+BDS
	Satellite Channels	32
	GPS Frequencies	L1: 1575.42±1.023MHz
	BDS Frequencies	B1: 1561.098±2.046MHz
	Hot/warm/cold Start	<1s, <32s @ Open Sky
	Tracking sensitivity	-162dBm
	GNSS Antenna	Built-in Ceramics GNSS Antenna, 18mm*18mm*4mm
	Positioning Type	GNSS+LBS+AGPS
GNSS Specifications	Accuracy	GNSS Accuracy: <10M @ Open Sky
		LBS Accuracy: 100-2000m (Depend on density of base stations)

### 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](http://www.spionlink.com) to get data plan firstly



Nano SIM



Micro SIM



Normal SIM



LED	Event	State
POWER LED (RED)	Charging	Solid
	Charger inserted and battery has been fully charged	Dark
	Charger has not been inserted	Dark
CELL LED (YELLOW)	Searching for network	Flash every 1 second
	Network has been registered	Solid
GPS LED (BLUE)	GPS is in fixing	Flash every 1 second
	GPS has fixed	Solid
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: 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 <i>doesn't</i> 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

MV66 OBD Tracker	x 1
User Guide	x 1
Packing Box	x 1
OBD Extension Cable (optional)	x 1

## 5. Functions Explanation

### 1. Voice Monitor

Step 1: Set up a center number for the device:

**CENTER,password,A,CENTER NUMBER#**

For example, if your cellphone number is

008613655559999, then you can set up the center number like this: **CENTER,888888,A,+8613655559999#**

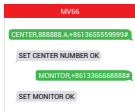
**Note:** Please add country code as prefix with your cellphone number!

Step 2: Use the center number to set up a number for the tracker to call back:

**MONITOR,number for monitor#**

For example: **MONITOR,+8613366668888#**

The tracker will make a call to this number +8613366668888 and this number can pick up the call to monitor the voice around it.



## 2. Set Data Upload Interval

***TIMER,T1,T2#***

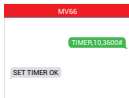
T1 ranges 0/5~18000 or 0(seconds), upload interval when ACC ON, 0 means no upload, default is 10;

T2 ranges 0/5~18000 (seconds), upload interval when ACC OFF, 0 means no upload, default is 10;

For example: ***TIMER,10,3600#***

This command means the tracker will upload every 10 seconds when it engine is on, and every 3600 seconds when engine is off.

For example:



## 3. Vibration Alarm

Step 1: Set up a center number for the device:

***CENTER,password,A,CENTER NUMBER#***

For example: if you want to set up this number as center number:+8613366668888, the command should be sent like this: ***CENTER,888888,A,+8613366668888#***

**Note:** Please put the country code as prefix with the center number!

Step 2: Set up SOS contact numbers:

***SOS,A,SOS1,SOS2,SOS3#***

For example: ***SOS,A,+8613366667777,+8613366667778,+8613366667779#***

**Note:** You can set up 3 SOS alarm numbers for the device at the same time

Step 3: Set up the vibration alarm way: ***SENALM,A,M#***

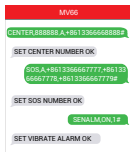
A=ON/OFF, default: OFF;

M=0/1/2, way of alarming, 0 : Server only, 1: SMS+Server, 2 : SMS+Server+Call, default:2

For example: ***SENALM,ON,1#***

This means the vibration alarm message will be sent out via server and SMS

For example:



## 6. Installation Recommendation

### Where is the OBD interface?

Most of the car's OBD interface is located in A and B,



#### 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. 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.

## 8. Full SMS Commands List

### Query Commands

Functions	Command Format	Explanation
Version Inquiry	VERSION#	Device Reply Example: ID:7201074948 IMEI:354188046912460 ICCID:898602A51314F1298017 VERSION:MV66_V2.0.2 BUILD:OCT 19 2016 16:31:00
Map URL Inquiry	URL#	<a href="http://map.google.com/?q=22.557868,113.935090&lt;0.0km/h 0.0&gt;&lt;2023-01-06 17:32:13&gt;IMEI:354188047752402">http://map.google.com/?q=22.557868,113.935090&lt;0.0km/h 0.0&gt;&lt;2023-01-06 17:32:13&gt;IMEI:354188047752402</a>
Check IMEI	IMEI#	DEVICE IMEI No. : 354188046912458

Functions	Command Format	Explanation
Address Inquiry	POSITION#	<b>NOTE:</b> Reply message's language is determined by device's language setting, if get position content failed, device will reply Google Map location link.
Parameter Inquiry	PARAM#	ID: ID number of the tracker IMEI: IMEI number of the APN:APN name,APN user,APN password, IP:Domain name and port number or IP address, port number TIMER:Moving upload interval; Static upload interval SPEEDLIMIT: The overspeed threshold ANGLERPT: Data uploading angle CENTER: Center number of the tracker SOS: SOS1,SOS2,SOS3 GMT:Time zone
Status Inquiry	STATUS#	GPRS: CLOSED (No Network) FAILED (Connecting Network or Failure) SUCCESS (Connected to Network) GSM: NONE (No cellular Signal), HIGH / MED/ LOW (Signal Strength) , 18(Signal value) GPS: CLOSED (GPS Module Closed); FIXED,N (Positioned and satellite number); UNFIX,0 (Not Positioned yet) SPEED: 30KM/H ACC: ON / OFF (ACC on or off) POWER: CONNECTED / DISCONNECTED (Power Connected or Disconnected), 12.5V (Vehicle battery voltage) SENSOR: ON/OFF (Sensor on or off), LEVEL: 3 (Sensitivity level 1-9) STATE: ARM (Arm or Disarm)
Alarms Parameters	ALARM#	ID: 19172012644 (ID number of device) STATE: ARM(DISARM)(Defense status of device) SPEED: ON/OFF(alarm status); 30km/h(alarm value); alarm way SHIFT: ON/OFF(alarm status); 300m(alarm value); alarm way VIBRATE: ON/OFF(alarm status);3(sensitivity level); alarm way ACC: ON/OFF(alarm status); 0/1/2(0: ACC ON, 1: ACC OFF; 2: ACC ON&OFF) (alarm situation); alarm way ; POWER DOWN: ON/OFF(alarm status);alarm way LOW VOLTAGE: ON/OFF(alarm status);alarm way <b>NOTE: Alarm Ways: Server Only, Server+SMS, Server+SMS+Call</b>
Latitude&Longitude Inquiry	WHERE#	LAT:N23.02930,LON:E114.32180,COURSE: 0.00,SPEED:0.00KM/H,DATETIME: 2023-01-06 17:39:11



## Setting Commands

Functions	Command Format	Explanation
Change IMEI	IMEICHG, 354188046912460#	NEW IMEI No. : 354188046912460
Restore factory settings	FACTORY#	RESTORE FACTORY SETTINGS OK
Restart device	RESTART#	RESTARTING...1 MINUTE WILL BE OK
APN Setting	APN,Network name [name,password]#	APN,CMNET# (if no name & Password) APN,internet,internet,internet# (if with name & Password)
Server Setting	If set with Domain Name: SERVER,1,Domain,Port#	SERVER,1,d.micodus.net,7700#
	If set with IP: SERVER,0,IP,Port#	SERVER,0,47.254.77.28,7700#
Internet Traffic Switch	TRAFFIC,ON#	OPEN TRAFFIC OK
	TRAFFIC,OFF#	CLOSE TRAFFIC OK
Time Zone Setting	GMT,Time zone orientation,Whole Time Zone [,Half Time Zone]#	GMT,E,8# (if no half time zone) GMT,W,9,30# (if has half time zone) <b>NOTE: Parameter : E / W ; 0 ~ 12; 0/15/30/45</b>
Set the angle upload	ANGLEREP,X,A,B#	Example: <b>ANGLEREP,ON,30,3#</b> ( Means the tracker will send a data supplement when the angle change exceeds 30 degrees and lasts for 3 seconds) X=ON/OFF, default: ON; A=5~180 degrees, diversion angle degree, default: 30 degrees; B=2~5 seconds, detecting time, default: 3 seconds,
	ANGLEREP,OFF#	CANCEL UPLOAD ANGLE OK
Mileage Statistics	MILEAGE,A,B#	Example: <b>MILEAGE,ON,5000#</b> (Means the initial mileage value is 5000KM) A=ON/OFF, On/Off mileage calculation, default: Off B=0~999999, Mileage initial value, unit: km ; default: 0, mileage return to zero
	MIELEAGE#	Query current mileage
Add SOS Administrator Number	SOS,A,1st number, 2nd number, 3rd number#	<b>Set 3 numbers at a time:</b> SOS,A,13800138000,1380013800 1,13800138002# <b>Set the first numberseparately:</b> SOS,A,13800138000# <b>Set the second number separately:</b> SOS,A,,13800138001# <b>Means to set 3rd number separately:</b> SOS,A,,,13800138002#

Functions	Command Format	Explanation
Delete SOS Administrator Number	SOS,D,1st number,2nd number,3rd number# or SOS,D,1,2,3#	Directly delete the number: SOS,D,13800138000# Delete 1st number: SOS,D,1# Delete 2nd number: SOS,D,2# Delete the 2nd and 3rd number: SOS,D,2,3#
Add Center Number	CENTER,password,A, center number#	Example: CENTER,888888,A,+8613800138000# Note: Please set up the center number with the country code as prefix!
Delete Center Number	CENTER,password,D#	Example: CENTER,888888,D#
Set the instruction password	PWD,password,ON#	Enable instruction password successfully!
	PWD,password,OFF#	Cancel instruction password successfully!
Change the instruction password	PWDCHG,[A],[B]#	A=old password, six digitals, digital range: 0-9, default: 888888; B=new password, six digitals, digital range: 0-9
Reset password	RSTPWD,A#	A=ID Number, ID number of the device;
Data Upload Time Zone Setting	DATAGMT,Time zone orientation,Whole Time Zone [,Half Time Zone]#	DATAGMT,E,8# (if no half time zone) DATAGMT,W,9,30# (if has half time zone) NOTE: Parameter : E / W; 0 ~ 12; 0/15/30/45
Data Upload Time Interval	TIMER,T1,T2#	Example: TIMER,5,3600# T1 ranges 0/5~18000 or 0(seconds), upload interval when ACC ON, 0 means no upload, default is 10; T2 ranges 0/5~18000 (seconds), upload interval when ACC OFF, default is 10;
Heartbeat Packet Upload	HBT,time#	Example: HBT,3# ( Means the tracker will send heartbeat data package to server very 3min to keep the network connected ) Time: 1-60min, default 3min
Sensor Sensitivity	LEVEL,A#	Example: SENLEVEL,4# ( Means shake sensor level is set to 4 ) A=1-9 NOTE: 1-9 is from weak to strong vibration
Arm manually	DISARM#	Set the device into arm mode

Disarm manually	ARM#	Set the device out of arm mode
Auto Arm By ACC	ACCARM,ON,M#	<b>Example:</b> ACCARM,ON,60# (Means the tracker will enter into arm status automatically when the ACC off more than 60 seconds) Arm Time: M=5-1800s, default: 60s
	ACCARM,OFF#	Close auto arm function
Voice Monitor	MONITOR, +8613428768257#	<b>Example:</b> MONITOR,+8613366669999# (Means the tracker will make call to this number +8613366669999, then this number +8613366669999 can pick up the call to monitor the voice) N: Number for Voice Monitoring <b>NOTE:</b> 1. Please send this monitor command via the center number; 2. Any number can be set up to monitor the voice, the tracker will make a call to the number N and it will can pick up the call to monitor voice

## Alarm Setting Commands

Functions	Command Format	Explanation
Shift Alarm Setting	SHIFT,A,B,M#	<b>Example:</b> SHIFT,ON,100,1# ( Means Setting 100 meters shift alarm range, when the ignition turned off, vehicle's 100 meters' shift will trigger the alarm.) A=ON/OFF; default:ON B=Shift Distance (Range: 100-9999m) M=0/1/2; way of alarm, 0 : GPRS only, 1: SMS+GPRS, 2: GPRS+SMS+CALL, default:1
	SHIFT,OFF#	CANCEL SHIFT ALARM OK
ACC Status Change Alarm	ACCALM,A,B,M#	<b>Example:</b> ACCALM,ON,0,2# (Means the tracker will send alarm message out via Server, SMS and Call when the engine is start) A=ON/OFF, Default: ON; B: 0/1/2; 0: ACC ON Alarm; 1: ACC OFF Alarm; 2: ACC ON&OFF Alarm; Default:2 M: 0/1/2 (way of alarm): 0 : Server only, 1: SMS+Server, 2: SMS+Server+Call, Default:1;
	ACCALM,OFF#	Cancel ACC alarm function
Power Disconnect Alarm	PWRALM,A,M#	<b>Example:</b> PWRALM,ON,2# (Means if the external power disconnect the tracker will send alarm message out via Server, SMS and Call) A=ON/OFF, default ON; M=0/1/2, ways of alarming, 0: Serveronly, 1: SMS+Server, 2 : SMS+Server+Call, default:2;
	PWRALM,OFF#	Close power disconnect alarm

Functions	Command Format	Explanation
Low Voltage Alarm Setting	LVALM,A,B,M#	Example: <b>LVALM,ON,13,2#</b> (Means when the voltage of the car battery is lower than 13V, the tracker will send alarm message via Server, SMS and Call ) A=ON/OFF, default: ON; B=9-95V (Low Voltage Limit Value) M=0/1/2, way of alarming, 0: GPRS only, 1: SMS+GPRS, 2: SMS+GPRS+Call,default:1;
	LVALM,OFF#	CANCEL LOW VOLTAGE ALARM OK
Vibration Alarm Setting	SENALM,A,M#	Example: <b>SENALM,ON,2#</b> ( Means the vibration alarm already been enabled and the alarm message will be sent via Server, SMS and Call ) A=ON/OFF, default: OFF; M=0/1/2, way of alarming, 0 :GPRS only, 1: SMS+GPRS, 2: GPRS+SMS+phone call, default:1
	SENALM,OFF#	CANEL VIBRATE ALARM OK
Overspeed Alarm Setting	SPEED,A,B,M#	Example: <b>SPEED,ON,120,1#</b> ( Means the speed limit is 120km/h and the alarm way is via SMS and Server ) A=ON/OFF, open or close over speed alarm, default: OFF B=1 ~ 255(km/h), speed limit, default: 100(km/h); M=0/1/2, way of alarm, 0 : SERVER only, 1: SERVER+SMS, 2: SERVER+SMS+CALL; default: 1

## 9. Any Questions?

**E-mail:** support@micodus.com

**Skype:** MiCODUS

## 10. Download the APP

Search "MiCODUS" in iOS APP store or Google Play Store, or just scan the QR code as below to download MiCODUS APP:

