

## **MV740 User Manual V1.0**

Learn how to set up your new MiCODUS Tracker

## 1. Main Features



GPS+  
GLONASS+LBS



Historical Route  
Playback



Realtime  
Tracking



9-90V Wide  
Working Voltage



Vibration  
Alarm



Tow Alarm



Power  
Disconnect Alarm



Geo-fence



Overspeed  
Alarm



Lifetime Free  
Tracking Platform

## 2.Specifications

|                         |                      |                                   |
|-------------------------|----------------------|-----------------------------------|
| Device Information      | Model                | MV740                             |
|                         | Weight               | 53g                               |
|                         | Dimensions           | 31mm(L) * 31mm(W) * 57mm(H)       |
| Working Parameters      | Working Voltage      | DC 9-90V                          |
|                         | Working Current      | <30 mA                            |
|                         | Sleep Current        | <15 uA                            |
|                         | Battery Capacity     | 3.7V 80mAh Lion Polymer battery   |
|                         | Working Temperature  | -20℃ - 75℃                        |
|                         | Working Humidity     | 10%-85%RH non-condensing          |
| Cellular Specifications | Working Frequency    | 2G GSM/GPRS: 850/900/1800/1900MHz |
|                         | SIM Card             | Nano SIM Card                     |
|                         | Cellular Antenna     | Built-in                          |
| GNSS Specifications     | Positioning Type     | GPS+GLONASS+LBS                   |
|                         | GPS Antenna          | Built-in                          |
|                         | Cold Start           | ≤32 Seconds                       |
|                         | Hot Start            | ≤1 Second                         |
|                         | Tracking sensitivity | -162 dBm                          |
|                         | GPS Channels         | 64                                |
|                         | Position Accuracy    | 5-10m                             |

### 3.How to manage the tracker to get online?

#### Step 1



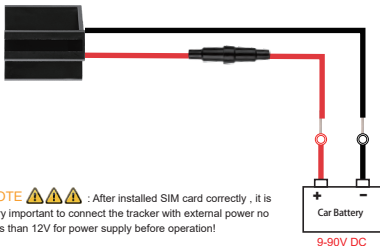
Please get a suitable SIM card from your local place. The SIM card must meet below points:

- ◆ It must be compatible with the 2G GSM network
- ◆ Please enable SMS, call, internet data traffic of the SIM card
- ◆ Enable the caller ID display feature
- ◆ Remove the PIN code
- ◆ Use Nano size SIM card for the tracker
- ◆ Please inquire the SIM card provider for the exact correct APN information

#### Step 2 SIM card installation



### Step 3 Wiring



### Step 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  |
|-----------------------------------|--------------|---------------------|---|
| 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 <b>doesn't</b> 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!

## Step 5 Indicator status description

| 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                    |                      |

## 4. Package Content

|                     |     |
|---------------------|-----|
| GPS Main Unit       | x 1 |
| Function Cable      | x 1 |
| Pick                | x 1 |
| User Guide          | x 1 |
| Genuine Packing Box | x 1 |

## 5. Functions Explanation

Please follow with the quick user guide carefully!

### a. 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***
- \* Configure the alarm ways by this sms command:  
***vibalm123456***
- \* 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

For example:



### b. Overspeed Alarm

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***
- \* Configure the overspeed alarm via this sms command:  
***speed+123456+space+speed limit***

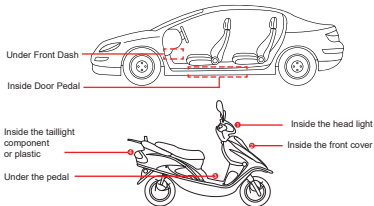
For example:



For example, if you want to set up the speed limit as 80km/h, then the sms command should be sent like this:***speed123456 080***

**NOTE** ⚠️⚠️⚠️ : The speed limit range is 20-150km/h

## 6. Installation Recommendation



- 1) The device should face up to the sky.
- 2) Metal thermal barrier of heating layer of the windshield affects the signal.

## 7. Troubleshooting

| Type                                   | Use  |
|--|--|
| Unable to connect to tracking platform | Check the APN and settings.<br>Check whether the data service of SIM card is enabled.<br>Check the balance of SIM card.                                      |
| Tracker shows offline                  | Check whether external power is still connected.<br>Check if the vehicle entered network blind area.<br>Check the balance of SIM card.                       |
| Unable to locate                       | Make sure the top side facing upward without metallic things shielded.<br>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.<br>Check whether vibration happens around to trigger the accelerator. |
| No command reply                       | Make sure command format is correct.<br>Vehicle may be in network blind area.<br>Make sure SIM card is well inserted and has SMS service.                    |

## 8. 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   |
| 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;<br>V:V: Indicates the device doesn't have GPS signal;<br>2019-11-26 10:17:01: Date and Time;<br>S: 000km/h: Speed of the tracker<br>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%;<br>ACC: off: The status of the car engine;<br>7201000006: ID number of the device;<br>S26: GSM signal is 26<br>G06: GPS signal is 06<br>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   |



| Functions       | Command Format                     | Explanation  |
|-----------------|------------------------------------|--|
| 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:AV 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<br>+speed limit | Overpeed alarm speed scope: 20-150km/h   |
| IMEI Checking   | imei+123456                        |  |
| 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 );<br>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)  |
| Tow Alarm       | towA,B                             | A: 1-4, 1: SMS alarm, 2: Call alarm, 3: SMS+Call, 4: Platform alarm; B: Distance (500-10000m)  |

## 9. Any Questions?

**E-mail:** [support@micodus.com](mailto:support@micodus.com)

**Skype:** MICODUS

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