



DNO GPS[®] Vehicle Tracker

DIVERSE NET OPTION[®] DNO-V3



User Guide

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2. Applications

- Vehicle Tracking and Protection
- Assets Tracking and Security

3. Product Function and Specifications

DNO-V3 default mode is smart interval mode, when ACC OFF, GPRS will offline when ACC OFF, device reply to SMS and calling..

*Smart mode: device report one location at turning point, when travel straight line will report one location every 3 minutes.

Description:

DNO-V3 special designed with high water proof grade IP66, embedded GSM & GPS antennas, Build in motion

sensor, with optimized power management mode, device will never drain off battery in months. With smart interval mode, DNO-V3 use extra low data consumption.

- uBlox 7 GPS Chip set and Quad Band GSM 850/900/1800/1900Mhz
- Sleep mode when ACC OFF or Static
- GPS and GSM base station of bi-module positioning
- Track by SMS/GPRS
- Track by Smart Interval & Time Interval
- Internal 16MB Memory for Logging
- Inbuilt Motion Sensor
- Inbuilt Battery
- Geo-fence Alarm
- Speeding Alarm

3.1 Specifications

| Items | Specification |
|-----------------------|--|
| Dimension | 122 x 52 x 20mm |
| Weight | 70g |
| Input Voltage | 9-70v, surge protection 100v |
| Back-up Battery | 300mAh/3.7V rechargeable and replaceable lithium-ion battery(optional) |
| Power Consumption | 2mA@12v standby current average |
| Operating Temperature | -20°C~65°C |
| Water Proof | IP66 |
| Memory | 16MB Byte, up to 10,000 points. |
| Sensor | Motion Sensor |
| GSM Frequency | GSM850/900/1800/1900MHz |
| GPS Chip | Latest uBlox 7 chipset |
| GPS Sensitivity | -160dB |
| Positioning Accuracy | 10 meters, 2D RMS |

4. DNO-V3 and Accessories

- DNO-V3 main unit
 - Double sticker
-

5. View



Insert SIM card with metal chips face upwards

6. First Use

Wiring Connection:

| | | | |
|---|----------------------------------|--------|----------------------------------|
| 1 | Power + | Red | To Battery + |
| 2 | Power + | Black | To Battery - |
| 3 | ACC Status | Orange | To Ignition Switch ACC line |
| 4 | Relay Control (Ground effective) | Blue | To Relay Trigger Ground pin (86) |

6.1 Install SIM Card



| | | |
|-------------|---------------------|------------------------|
| Green Light | GSM Status | |
| | GSM searching | Blink 1 times every 1s |
| | GSM online | Blink 3 time every 1s |
| Red light | GPS Status | |
| | GPS Fixed | Blink 1 time every 1s |
| | Search or no signal | OFF |

Please power off the DNO-V3 before inserting the SIM card.

Insert SIM card with metal chips face upwards until hear a click sound.

Push again to eject SIM card

Ensure that your DNO-V3 has a working SIM card installed.

Make sure the SIM card has enough balance (it's available to phone and SMS test).

Make sure the SIM coded lock is turned off

If you need to use the authorized number to call DNO-V3, please make sure the SIM has the caller ID display

function.

6.2 Basic SMS commands

6.2.1 Require device position

Description: To know the location of your DNO-V4, send an SMS to DNO-V4 and it will report its location by SMS.

Command : `*#WHERE#`

Example:

SMS sent: `*#WHERE#`

SMS received:

<http://maps.google.com/?q=22.56313N,113.93497E>

ACC OFF

Power down

Engine on

ver:11-4 time:1-26

GPS valid

RF: 25

Speed=35 km/h

Power ok

Battery Voltage:4005

6.2.2 Set Interval for Position SMS Report

`*#WHERE*T,N#`

T: SMS reply interval, unit: second

N: Reply times

Example:

`*#WHERE*180,10#`

device reply one Google map url immediately the reply 10 times at 180s interval.

<http://maps.google.com/?q=22.56335N,113.93498E>

ACC ON

Engine on

ver:46-24 12-15

GPS valid

RF: 21

Speed=40 km/h

Power ok

Battery Voltage:4007

6.2.3 Set APN, IP, Port, ID , Domain Name and Main Admin number

Command Format:

***#SET*PASSWORD*S<Admin Number>, <ID>, <IP>, <Domain Name>, <Port>, <APN>#**

PASSWORD: Password of tracker, default password 1111

S: Capital S, Command Flag

Admin Number: Administrator's mobile number

ID: system ID of sever software

IP: IP address of host sever

PORT: com Port of host sever

APN: Access Point Number, Please contact your mobile operator if not clear.

Example:

***#SET*1111*S13500000000, 2151000012, 104.236.195.32,avl.dnogps.com,3712,CMNET#**

1111: Password

S: Command flag

13500000000: Center or Authorized mobile number

2151000012: system ID

104.236.195.32: Sever IP and Port

avl.dnogps.com: Tracking server domain name

3712: port number

CMNET: APN of simcard

SMS Command List:

| SMS command | function | Feed Back | Description |
|---|------------------------------------|--|---|
| *#SET*PASSWORD*S<CEN NUM>,ID,IP,Domain Name,Port, APN# | Set device IP,DNS, port, APN | Device reply a normal status message example: ver:11-2 time:1-15 CEN:15853165367 IP: 104.236.195.32,3712 DNS:www.gps.com APN:CMNET SN:2140626001 LK:O GPS valid RF: 30 Battery Voltage:4007 mv sleep:5,wake:0 | Example: *#SET*1111*S13500000000, 2151000012, 104.236.195.32,WWW.GPS.COM,37 12, CMNET# |
| *#SET*Old Password*N<New Password># | Change device password | Device reply a normal status message | Example: *#SET*1111*N2222# Password Change from 1111 to 2222 |

| | | | |
|---|--------------------------------|-----------------------------------|---|
| Unit: minute TIME=0 means no sleep status, device always online. default TIME=5 | enter sleep mode after ACC OFF | | ACC OFF 3 minutes sleep time definition: When device in online status, set how long should device take to enter sleep (offline) status after ACC OFF. |
| *#SET*Password*D[ip+port]# | Remote update command | update Begin wait moment | *#SET*Password*D123.21.33.132.3045# |
| *#SET*Password*Y# | Cancel Remote updating status | | #SET*Password*Y# This command force device to quit from remote updating status. |

Feature of V2.1

- 1, add differential remote updating feature;
- 2, add wake time and sleep time setting options;
- 3, could use S command to set remote updating address (*#SET*password*).

