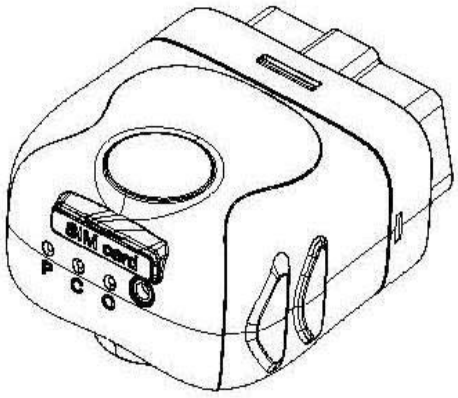
OBD-Smart

PRODUCT HANDBOOK



Shenzhen Sinocastel Electronics Technology Investment Co., Ltd

OBD Smart Product Guide

One.Product introduction

iDD-212 is based on OBDII/EOBD standard protocols, an intelligent terminal with tracking and remote diagnostic function. It combines the world leading GPS global statistics positioning technology, GPRS global mobile data communications technology, Bluetooth data transfer technology and intelligent control technology all in one.

OBD Smart Terminal is divided into two versions

iDD-212G is consisted with OBD diagnostics module and GSM communications modules, and has optional external G-Mouse (Model: HT-166U). This terminal will deliver vehicles live data and GPS data to the back-end server via GPRS. The server platforms will analysis, statistics, storage and display to user.

IDD-212B is consisted with OBD diagnostics module and Bluetooth communication modules, and has optional external G-Mouse (Model: HT-166U). This terminal will deliver vehicle live data and GPS data to the vehicle display via Bluetooth communication technique. Car display will analysis, statistics, storage and display to user in real-time.

Two.Product function

1) OBD protocol types supported

J1850-VPW / J1850-PWM / ISO9141-2 / KWP2000 / ISO15765-4(CAN)

2) GPS

OBD Smart has GPS satellite signal reception, enabling global positioning.

1. **Real-time monitoring**
   OBD Smart terminal can keep contact with control center through GSM features for enabling real-time monitoring.
2. **View vehicle location**
   User can visit our website: http://www.uuroad.com or use vehicle display monitor to check view-time position.
3. **Abnormal alarm**
   When the following conditions beyond the default value data, OBD Smart terminal will send back an extension alarm to server and accompanied by “Tick-tick-tick..” alarm tone including:
   Engine speed, vehicle speed, battery voltage, temperature, hard acceleration, hard deceleration, parking without ignition off, towed.
   Note: For details,please see this handbook – Installation guide – Parameter setting
4. **Mileage and fuel consumption statistics**
   When the stroke end, OBD Smart Terminal will gather statistics of driving mileage and average fuel mileage by itself and report to the backend servers.
5. **Remote installation and maintenance**
   Through http://www.uuroad .com, remote parameter setting and maintenance can be done into OBD Smart terminal.
6. **Diagnostic function**
   Upon user’s request, OBD Smart Terminal can read/clear the vehicle fault codes, clear fault warning light, real-time analysis by back-end server, display fault information, and also provide maintenance recommendation to prevent high maintenance cost.

Three.Installation Guide

1. **Account registration (iDD-212G)**

   For specific steps, please visit http://www.uuroad.com

2. **SIM card installation (iDD-212G)**

Remove the SIM card slot cover and insert the SIM card into the card slot (Note: SIM card gap and slot miter edge must fit), then replace the device cover (Note: Align the SIM card within the SIM card slot and gently push)

3. Parameter settings

Download and install from the site preference tools. Set the iDD-212G terminal and connected to PC through USB cable. Open the setup software and set up part of parameter based on individual vehicles condition. IDD-212B terminal can set parameters directly through Bluetooth display.

4. Terminal installation

Stop and turn off the vehicle and insert the G-Mouse into the function interface. Light up and flat on the car. Also ensure that no block of metal and other items. At the end, firmly connected to the OBD diagnostic block. (Individual model may need OBD extension cable)

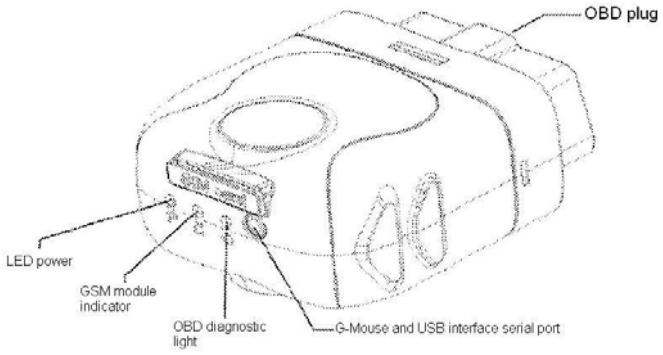
5. Use

After terminal can connect to vehicle OBD diagnostic block, red light lit and will accompanied with “Beep” one-tone that means successful. In the same time, green light flashes to indicate that the terminal is trying to communication with the vehicles. Start the engine and wait a bit, green light will be lit and accompanied with “Di-Di” two-tone that means connection is successful. For the G version, yellow light starts blinking that means terminal is searching for GSM network. Then yellow light is changing to slow blinking and accompanied with “tick-tick-tick” three-tone that means terminal is connected to GSM network. Engine off, green light is blinking at about 1-5 minutes with “tick-tick-tick” three-tone that means the terminal disconnected from the network. After then, terminal will go into sleep mode and accompanied with ‘tick” one-tone that mean terminal can be removed out of the OBD diagnostic block. In additional, light lit when G-Mouse power on, blinking when positioning.

Four.Specifications

1. External interface

Multi-interface (G-Mouse access port and parameters access port), SIM card insert port, OBD diagnostic connector, Power indicator (P), GSM module indicator (C), OBD Diagnostic light (O), as shown in Picture 1



Picture 1: OBD Smart Product appearance

2. Technical parameters:

Working voltage	9～16V DC	Normal working current	<150 mA@13.8V
Positioning	GPS statistics positioning	Standby working current	<50mA@13.8V
Location positioning accuracy	≤15m	Save working current	<30mA@13.8V

Speed positioning accuracy	≤0.1m/s	Working temperature	－30℃～＋70℃
Network	GPRS/Bluetooth	Storage temperature	－40℃～＋85℃
GSM band	850/900/1800/1900MHz	Relative humanity	5% ～ °95% no frost
Backup battery	3.1V/5.5mAH (Lithium)	Dimension	55*50*28mm(L*W*H)

Five.Disclaimer

1. This handbook is only applies to OBD Smart Terminal.
2. This handbook is only applies to the vehicle with OBD II/EOBD
3. In order to work properly, G-Mouse must be with satellite communication. The device function may be affected in electromagnetic shielding area or bunker place.
4. iDD-212G terminal have built-in wireless communication module. It should be used as far as possible away from fuel depots, chemical plants and other areas could cause an explosion. Most sensitive to external RF sites (such as gas stations, hospitals and school, etc.) may be equipped with radio frequency jamming equipment, the interference of some features of this product may be affected.
5. Due to iDD-212G Terminal is using GPRS communication technology for transmitting data, user must use SIM card that can support GPRS data service and also have positive account balance. Do not use any SIM card is restricted by region.
6. To protect the normal use of the product, please use the original accessories.
7. This handbook is based on the “Present” situation for development. Shenzhen Sinocastel Electronics Technology Investment Co.,Ltd will not guarantee the accuracy, reliability and content of the handbook. Also Castel reserve the right to amend or withdrawn this handbook without any prior noticification.

Six Packing list

Parts name	Quantity	iDD-212G	iDD-212B
OBD Smart terminal	1	●	●
USB cable set	1	●	○
Product handbook	1	●	●
Warranty card	1	●	●
G-Mouse receiver	1	○	○
OBD extension cord	1	○	○

Note ● Standard configuration ○Optional configuration

(If not select any when ordering; the optional devices will not be included when packing)

Seven.Product warranty

1. If product got quality problem during the warranty period, please bring the product together with a valid warranty card and purchase invoice to the dealer for checking. Please do not disassemble this product, the company shall not be responsible for those problem caused.
2. Since purchase, the whole warranty for 1 year and life time maintenance. It will not warranty if it is improper use or human damage.

User name: _____

Contact number: _____

Address: _____

Post code: _____

Purchasing date: _____

Serial number: _____

Installation unit and phone: _____

_____

Remark:

Please keep this card carefully in order to better serve you.

For the services details, please see next page.

Distributor(Company Chop):

Maintenance Records

Product model:

Date	Faults and maintenance of records		Maintenance (Signature)	User (Signature)
	Fault Description	Maintenance Record		

Note: Warranty units in warranty must complete this form carefully

Eight. Statement

FCC Caution:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

To meet the FCC's RF exposure rules and regulations:

- The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all the persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.