

IDD-213G Technical Specification

1 Description



IDD-213G is an intelligent on-board diagnostic device compatible with passenger and commercial vehicles, it features plug-and-play technology, could read diagnostic info from vehicle ECU and capture location data, then send them to backend server for real-time remote diagnostic and tracking purpose.

2 Features

- ◆ Industrial class components with high quality
- ◆ OBD II/EOBD, J1939 and J1708 compliant
- ◆ Plug & Play technology
- ◆ Comprehensive data collection and analysis, including diagnostic data, location data and driving behavior data

3 Functions

- ◆ Real-time tracking
- ◆ Read diagnostic data, including vehicle speed, RPM, ECT etc.
- ◆ Read diagnostic trouble codes and freeze frame data
- ◆ Mileage statistic
- ◆ Fuel consumption statistic
- ◆ Driving behavior monitoring, including speeding, hard acceleration, hard deceleration, excessive engine idle time etc.
- ◆ Support passenger car / heavy duty / tracker mode
- ◆ Up to 24,000 GPS data storage
- ◆ Data reporting according to time interval, distance and heading change
- ◆ Ignition on/off detection
- ◆ Vehicle battery monitor
- ◆ Base station ID report (when no GPS signal)
- ◆ Internal battery for unplug notification
- ◆ Alarms and events
 - ◇ Engine on/off
 - ◇ High engine coolant temperature

- ◇ Speeding
- ◇ High RPM
- ◇ Hard acceleration
- ◇ Hard brake
- ◇ Low battery voltage
- ◇ Excessive engine idle time
- ◇ Towed
- ◇ Plug indication
- ◇ Unplug notification
- ◇ Fatigue driving
- ◇ Excessive exhaust emission
- ◇ MIL on/off
- ◇ Emergency

- ◆ SMS alarm to user phone
- ◆ Connect backend server via domain or IP address
- ◆ Google Map link in location SMS
- ◆ OTA FW update

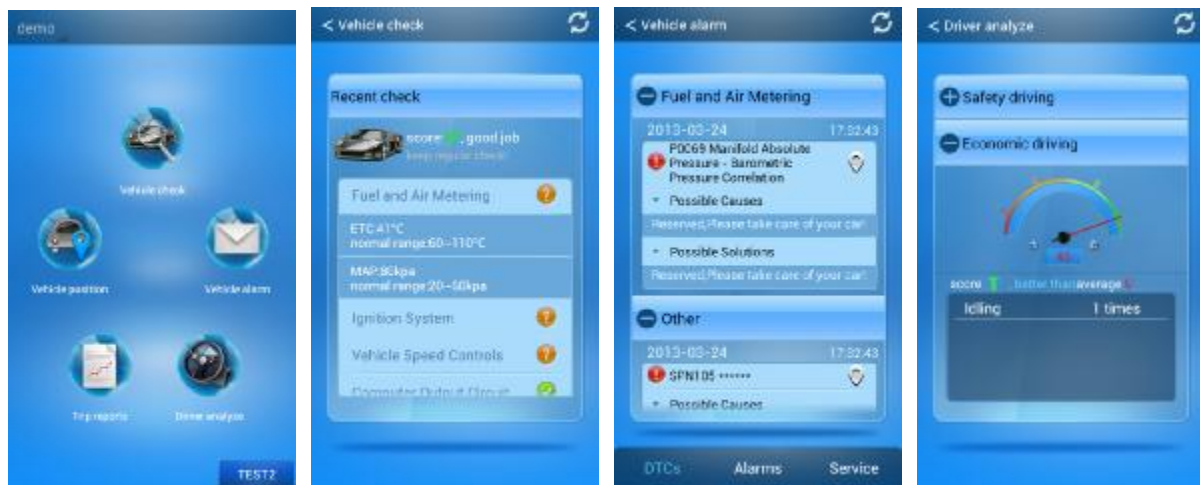
4 Application

- ◆ Fleet management and vehicle tracking

- ◆ Car service shop
- ◆ Vehicle insurance
- ◆ Car rental

5 Smart phone APP

Cloud based smart phone APP, manage vehicles and drivers, supports Android and iOS system.



6 Technical Specification

Mechanical	Size	63mm (L) x 48mm (W) x 28mm (H)
	Weight	50g
Interface		<p>OBD interface: 16 pin standard OBD II</p> <p>Configuration interface: Mini-USB</p> <p>SOS button interface: MMCX</p> <p>SIM card interface: Push-Push Type</p>

Data transmission		GPRS/SMS
Positioning method		GPS/A-GPS
Storage		2MB FLASH, up to 24,000 GPS data storage
OBD protocol		SAE J1850 PWM SAE J1850 VPW ISO 9141-2 ISO 14230-4 ISO 15765-4 SAE J1939 SAE J1587/J1708
Power	Working Voltage	9-36VDC
	Working Current	Max.: <200mA@13.8/27.6VDC Average: <150mA@13.8/27.6VDC Sleep mode: <10mA@12/24VDC
	Backup battery	3.7V/160mAH
GPS		Channels: 50 Sensitivity: -160dBm Accuracy: 5m CEP Time to first fix: Cold start: <32s (typ.) Warm start: <32s (typ.)

		Hot start: <1s (typ.)
	GSM	<p>Frequency: 850/900/1800/1900MHz</p> <p>Network protocol: Embedded TCP/IP stack</p> <p>Sensitivity: -107dBm@850/900MHz</p> <p style="padding-left: 40px;">-106dBm@1800/1900MHz</p> <p>Output power: Class 4 (2W)@850/900MHz</p> <p style="padding-left: 40px;">Class 1 (1W)@1800/1900MHz</p> <p>GPRS data: GPRS Class 10, Mobile Station Class B</p>
	3 axis Accelerometer	+/-2g, +/-4g, +/-8g, +/-16g, driving behavior detection
	LED Indication	GPS/GSM/OBD indication
	Buzzer	System status/Alarm indication
Antenna	GSM	Internal
	GPS	Internal
	Accessories	<p>Configuration cable</p> <p>OBD II extension cable</p> <p>9-Pin deutsch wiring harness</p> <p>6-Pin deutsch wiring harness</p> <p>SOS button</p> <p>Power Cable</p>
Certification		CE
		E-Mark (Pending)

Environment	Working Temperature	-30°C ~ +70°C
	Storage Temperature	-40°C ~ +85°C
	Humidity	5%~95% (no frog)