

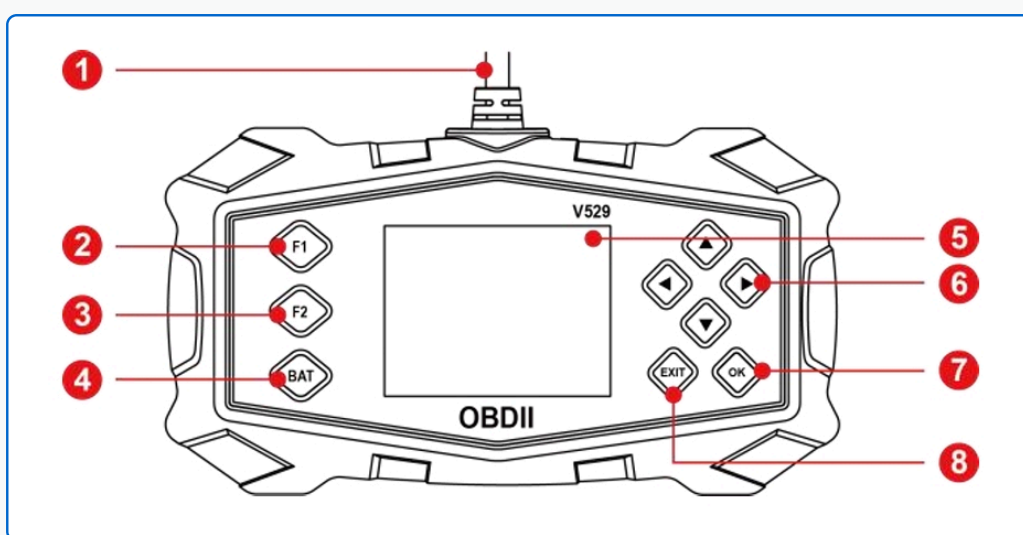
1. Product Introduction

This is a gasoline car code reader that supports 9 standard protocols of OBD II/E/OBD. Plug and play, it can quickly read the fault information and vehicle parameters of the car, and is a more comprehensive fault diagnosis instrument. Please read the product manual carefully before using this product. Thank you.

2. Precautions

- ⚠ 1. Do not use abrasive cleaners to clean this product
- ⚠ 2. Do not heat or place this product near a fire source
- ⚠ 3. Do not expose this product to direct sunlight for extended periods
- ⚠ 4. Do not attempt to disassemble this product for any modifications
- ⚠ 5. Store in a dry environment to avoid extreme temperatures and dust

3. Product Appearance Introduction



3.1 Product Description

- ① **Connection Line:** Connect car OBD interface
- ② **Carbon Button:** Carbon deposition detect
- ③ **Display Screen:** Color display
- ④ **Confirm Button:** Confirm selection
- ⑤ **I/M Ready Button:** Quickly enter I/M ready
- ⑥ **Battery Button:** Battery testing
- ⑦ **Direction Keys:** Up/down/left/right
- ⑧ **Return/Exit:** Back or exit

Quick Access Buttons:

Three dedicated buttons for instant access to I/M Ready, Carbon Deposition Detection, and Battery Testing functions

4.1 Product Parameters

Working Voltage	DC 9-16V
Working Current	Approximately 41-63mA
Working Environment	-20 ~ 60°C
Storage Temperature	-20 ~ 60°C

4.2 Accessories

- Host × 1
- User Manual × 1

4.3 Supported Protocols (9 Protocols)

- 1. SAE J1850 PWM (41.6Kbaud)
- 2. SAE J1850 VPW (10.4Kbaud)
- 3. ISO 9141-2 (5 baud init, 10.4Kbaud)
- 4. ISO 14230-4 KWP (5 baud init, 10.4 Kbaud)
- 5. ISO 14230-4 KWP (fast init, 10.4 Kbaud)
- 6. ISO 15765-4 CAN (11bit ID, 500 Kbaud)
- 7. ISO 15765-4 CAN (29bit ID, 500 Kbaud)
- 8. ISO 15765-4 CAN (11bit ID, 250 Kbaud)
- 9. ISO 15765-4 CAN (29bit ID, 250 Kbaud)

4.4 Main Functions

Standard Diagnostic Functions (9 items):

- 1 Read codes
- 2 Erase codes
- 3 Freeze frame
- 4 I/M ready status
- 5 Vehicle information
- 6 Data stream
- 7 Mode 6
- 8 Oxygen sensor test
- 9 Mode 8

Special Test Functions (4 items) :

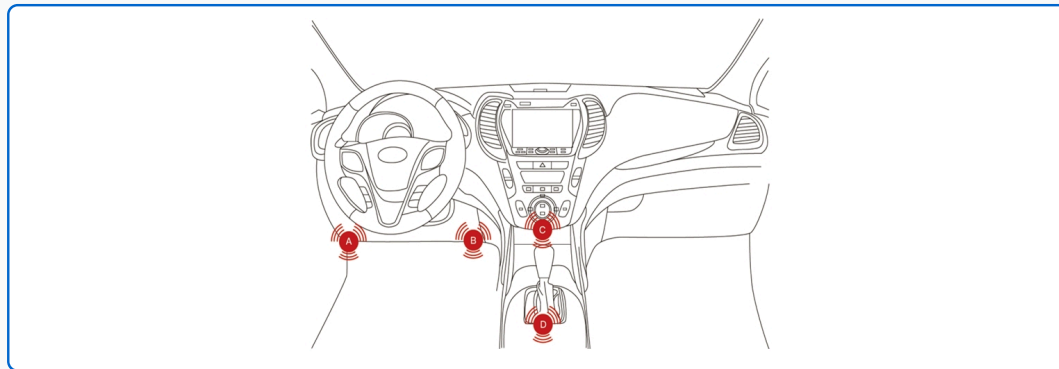
- 1 Performance test
- 2 Carbon deposition
- 3 Air flow detection
- 4 Fuel test

Additional Functions: Test Report • Battery Test • Fault Code Query • Repair Assistance Solutions

Languages (12): English, German, French, Spanish, Italian, Portuguese, Russian, Dutch, Polish, Japanese, Chinese, Arabic

5. Vehicle Inspection

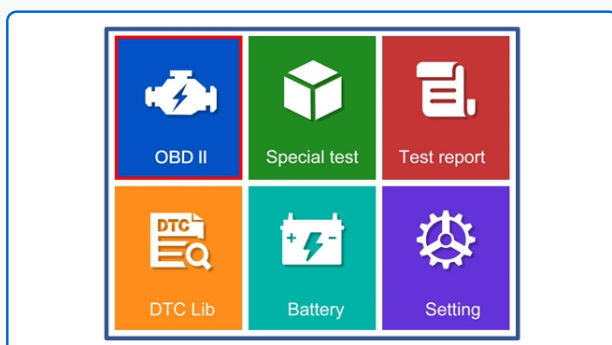
Search for OBD interfaces specifically designed for automobiles. The position varies for different cars (usually lower left dashboard, above accelerator pedal). Simply insert and start the vehicle.



Various locations

6.1 Diagnostic Menu

After connecting vehicle, enter main page, select "OBDII" menu, press OK key to enter testing function page. This menu has 9 testing functions, use directional function keys to move and select.



Main Menu



Major Functions

6.1.1 Read Codes

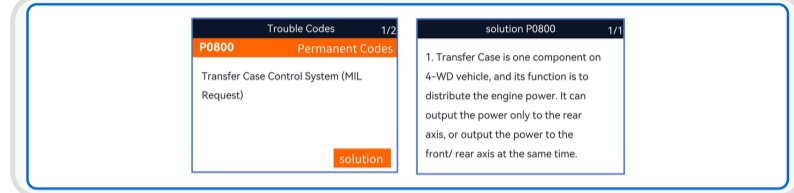
Select code reading function, product will diagnose car engine system. If engine fault exists, fault code and fault definition will be read. If multiple fault codes, use up/down buttons to flip pages. Press ESC to return.

Repair Assistance Solutions:

Some faults equipped with repair assistance. If "Solution" button displays orange, press "OK" to enter and view repair solutions



Diagnose



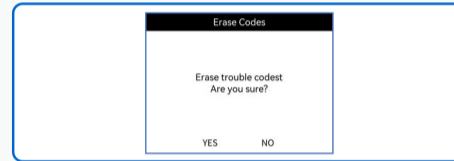
Solution button

6.1.2 Erase Codes

Selecting "Erase Code" will display confirmation message. After confirming clearing of fault code, car engine fault light will turn off and code clearing successful. If clearing fails, engine can be turned off and cleared while powered on.



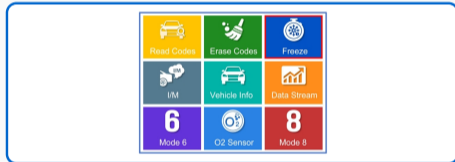
Confirm



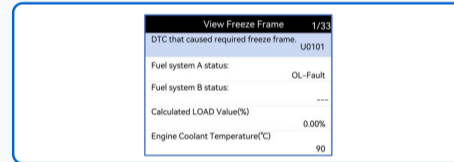
Light off

6.1.3 Freeze Frame

Freeze frame refers to snapshot data automatically recorded by car computer when fault code appears in emission system. Great feature to help determine cause of fault.



Select



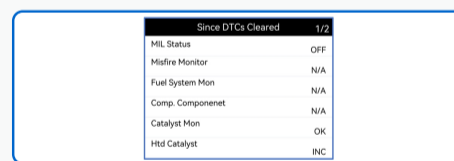
View data

6.1.4 I/M Ready Status

I/M ready function used to check if car monitor is OK or N/A. At specific driving times (each monitor has specific driving conditions and required time). OK=completion, ON=not completed, N/A=not supported.



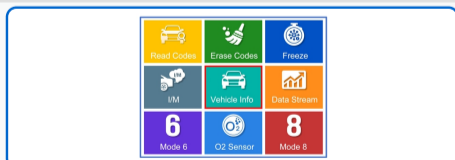
Check



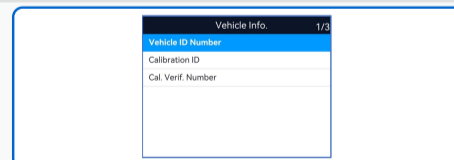
OK/ON/N/A

6.1.5 Vehicle Information

View information such as car identification code, calibration identification code, calibration verification number, etc.



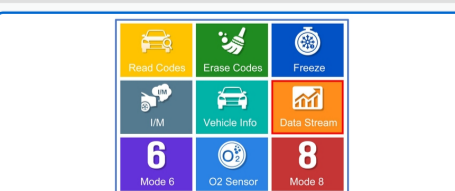
Select



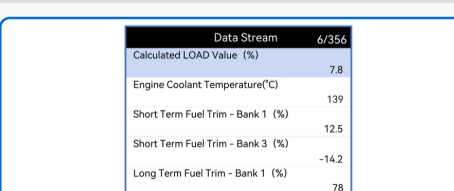
View

6.1.6 Data Stream

After entering data stream, product will read current real-time data stream information of car engine.



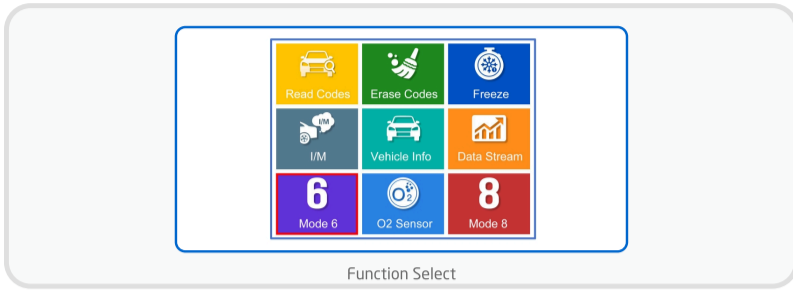
Function Select



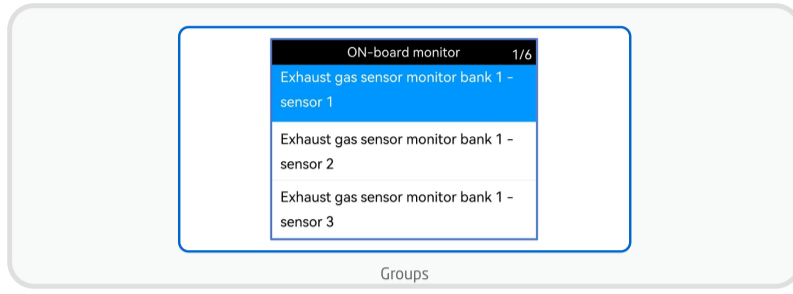
Engine data

6.1.7 Mode 6

Select mode 6 to detect groups related to car exhaust, such as exhaust sensors, catalytic converters, variable valve timing systems, exhaust sensor heating, heated catalytic converters, etc.



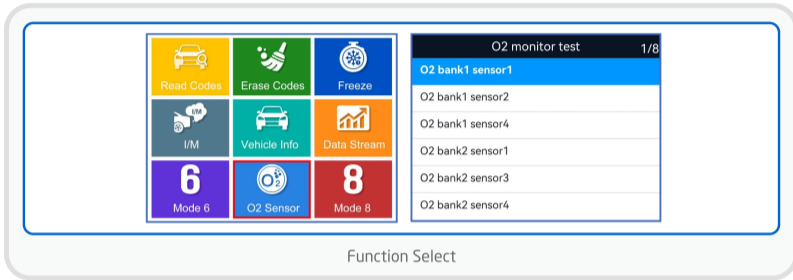
Function Select



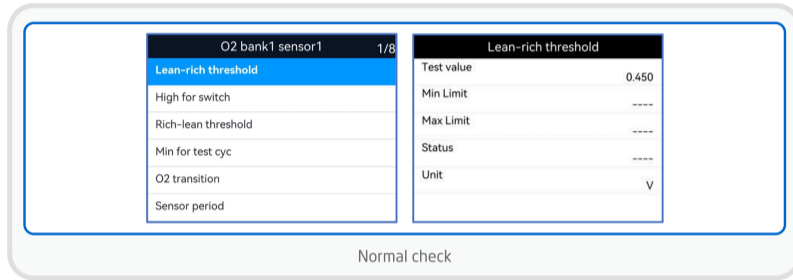
Groups

6.1.8 Oxygen Sensor Test

When entering oxygen sensor testing project, car will be subjected to oxygen sensor readings to determine whether various detection data are normal.



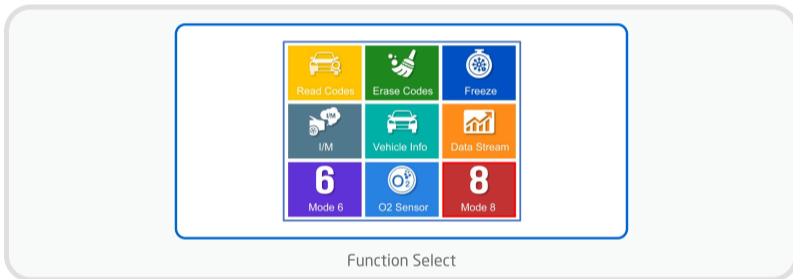
Function Select



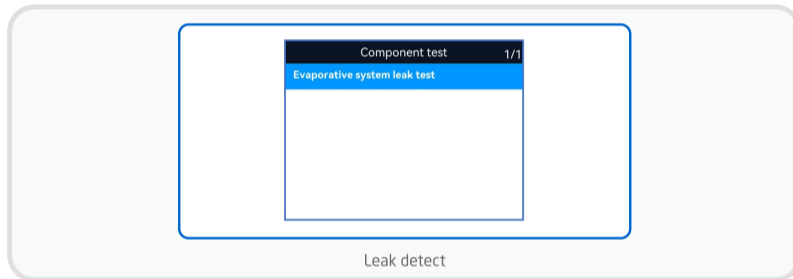
Normal check

6.1.9 Mode 8

This function can detect whether there is leak in car's fuel evaporation system.



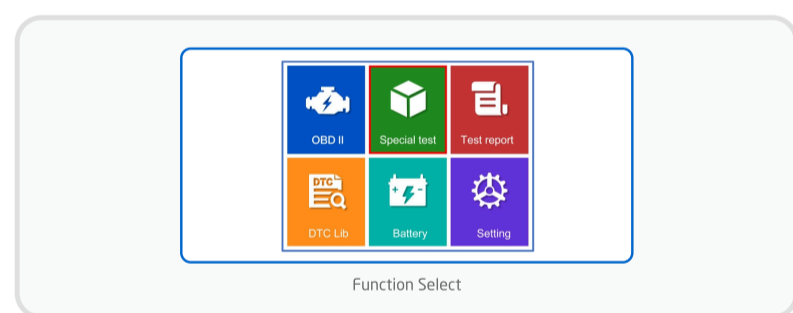
Function Select



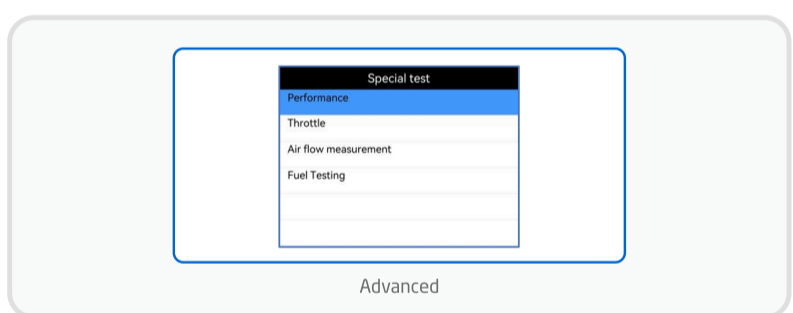
Leak detect

6.2 Special Test

Special Test includes performance testing, carbon deposition detection, air flow detection, and fuel detection. These advanced diagnostic functions provide comprehensive vehicle health analysis.



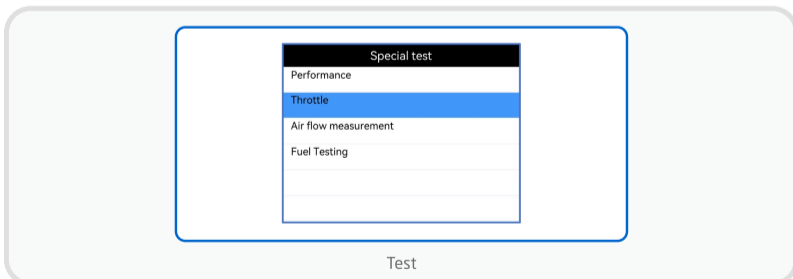
Function Select



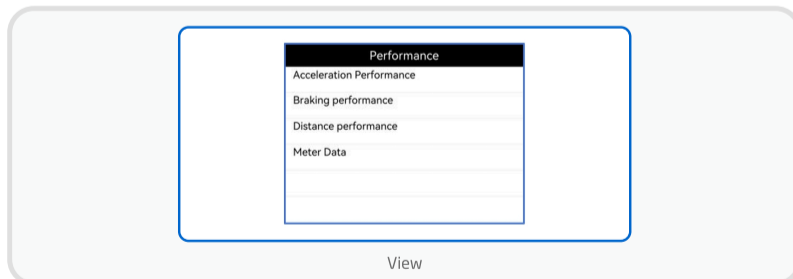
Advanced

6.2.1 Performance Test

Test acceleration performance, braking performance, distance testing, and instrument data of car.



Test



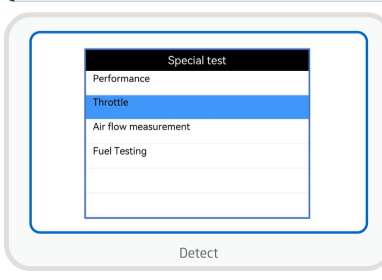
View

6.2.2 Carbon Deposition Detection

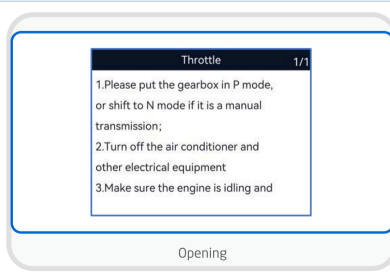
Can detect severity of carbon deposition in automobiles, throttle opening value, coolant temperature, engine speed, etc.

Detection Parameters:

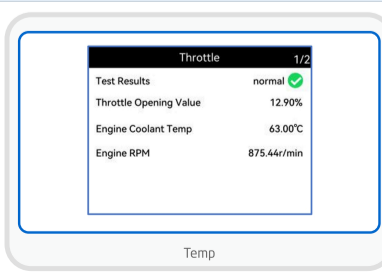
- Carbon deposition severity
- Throttle opening value
- Coolant temperature
- Engine speed



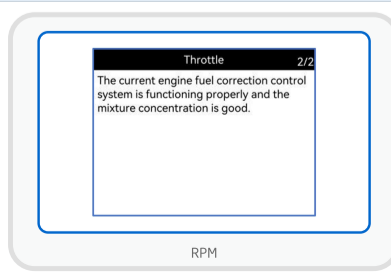
Detect



Opening



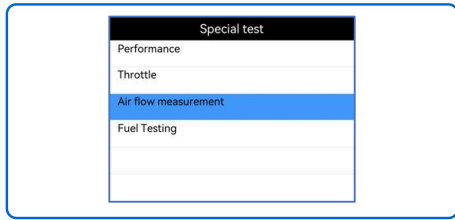
Temp



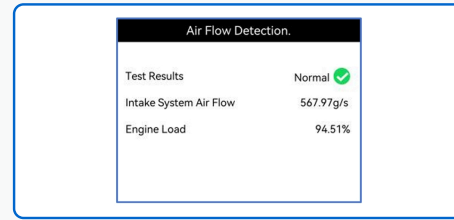
RPM

6.2.3 Air Flow Detection

Measure intake volume of engine to ensure ECU can accurately control fuel injection quantity and ignition timing, maintaining balance of mixture concentration in cylinder and ensuring stable engine operation.



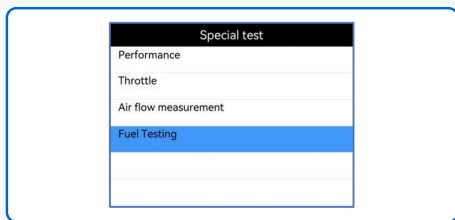
Measure



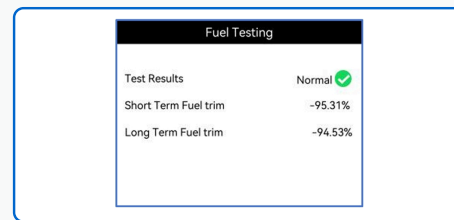
Fuel/Ignition

6.2.4 Fuel Test

Measure long-term fuel correction and short-term fuel correction of vehicle, which directly affects vehicle's fuel consumption, power output, and emission performance.



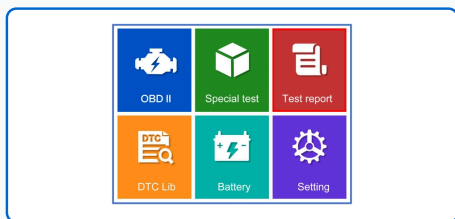
Measure



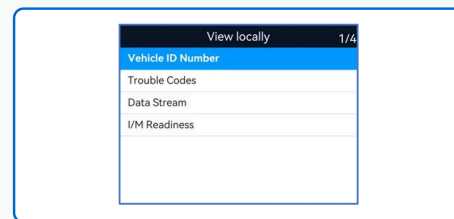
Consumption

6.3 Test Report

Summarize read vehicle information, fault codes, voltage, data flow, and I/M readiness status data for easy reference.



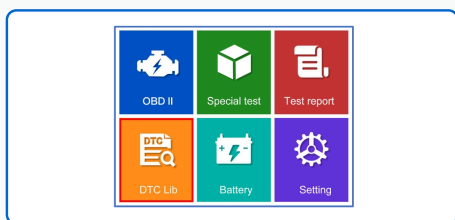
Function Select



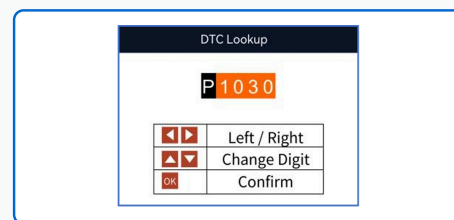
All data

6.4 Fault Code Query

Enter option to query fault codes, users can use directional buttons to adjust fault codes. Select "OK" button to search for fault definition.



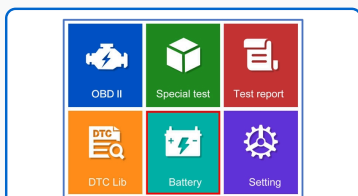
Function Select



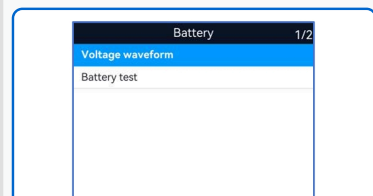
Input code

6.5 Battery Test

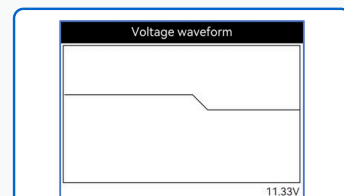
Can test voltage and instantaneous voltage of car batteries.



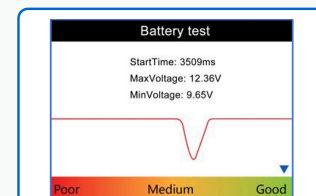
Function Select



Read



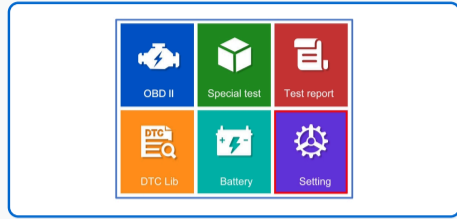
Voltage



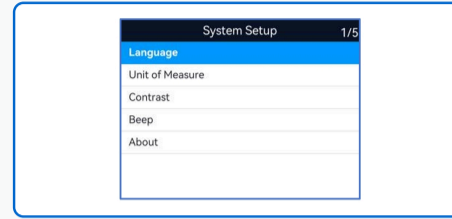
Check

6.6 Setting

Enter settings option to set multiple parameters such as language and units for product.



Function Select



Adjust

7. Excuse Conditions

We are committed to providing unparalleled customer support before and after sales. Following are our disclaimer conditions for products:

If any of following conditions are met, customers shall not be entitled to policies within scope of this limited warranty:

a) Abnormal Use: Abnormal use, abnormal situations, improper storage, exposure to moisture or unauthorized modification, misuse, negligence, abuse, accidents, changes, improper installation, or other non fault behaviors of product, including damage caused by transportation.

b) External Damage: Our company is not responsible for any damage to product caused by external reasons (such as collision with objects), fire, flood, sand, dust, storm, lightning, earthquake or weather conditions, uncontrollable acts of natural disasters, battery leakage, theft, blown fuses, improper use of any power source, etc.

Need Technical Support?

For B2B / OEM / ODM partners and after-sales teams

Contact your account manager or sales representative

www.drovest.com