

1. Product Introduction

This product is a multi-functional vehicle fault diagnosis instrument, supporting OBD II/EODB nine standard protocols. Plug and play, can quickly read vehicle fault information and vehicle parameters, is a comprehensive function of the fault diagnosis instrument. Please read the product manual carefully before using this product, thank you.

2. Notes

- ⚠️ **1)** Do not use abrasive cleaners to clean this product
- ⚠️ **2)** Do not allow this product to be heated or close to fire sources
- ⚠️ **3)** Do not expose the product to direct sunlight for a long time
- ⚠️ **4)** Do not attempt to disassemble this product to make any modifications
- ⚠️ **5)** Do not use this product in rain
- ⚠️ **6)** Store in a dry environment to avoid extreme temperatures and dust

3. Introduction to Product Appearance and Function Keys



3.1 Button Description

- 1. Connection Cable:** For connecting automotive OBD interface
- 2. Display Screen:** 2.8-inch color display screen
- 3. I/M Ready:** I/M ready status shortcut
- 4. Query Fault:** One-click query fault codes
- 5. Return/Exit:** Return to previous menu or exit
- 6. Battery Voltage:** View battery voltage quickly
- 7. Confirmation:** Confirm selection
- 8. Direction Keys:** Up/down/left/right navigation
- 9. Status Lights:** Red light = read failure • Yellow light = connection not possible • Green light = connection successful

4.1 Product Parameters

Operating Voltage	9V ~ 16V
Working Current	36 ~ 54mA
Operating Environment	-30 ~ 70°C
Storage Temperature	-30 ~ 70°C
Overall Dimensions	171 × 85 × 28 mm

4.2 Product Fittings

- Main Unit × 1
- Instructions × 1

4.3 Support Agreements (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 (14 Functions)

- ① 9 OBD II/E0BD protocols
- ② Read automobile fault code
- ③ Clear engine fault code
- ④ Vehicle fault freeze frame
- ⑤ I/M ready state
- ⑥ Vehicle information
- ⑦ Automobile data flow
- ⑧ Battery voltage reading
- ⑨ Mode 6 detection
- ⑩ Oxygen sensor test
- ⑪ Mode 8 detection
- ⑫ Fault code query
- ⑬ Cloud Print

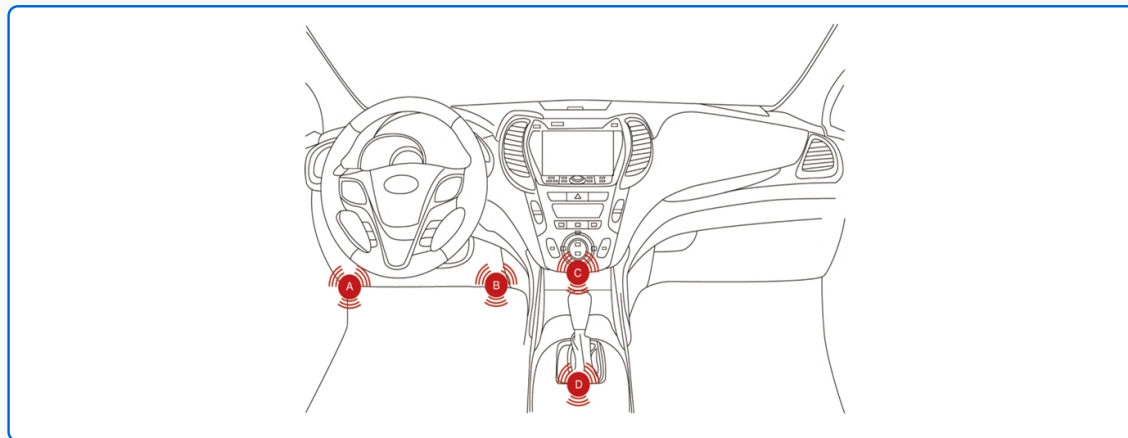
⑭ **Support ten languages:** English, German, French, Spanish, Italian, Russian, Dutch, Chinese, Japanese, Portuguese

Cloud Print Feature:

Generate two-dimensional code after detecting fault code, data stream, and frozen frame items. Display detection data on mobile phone screen by scanning code. Save data or send to other maintenance engineers

5. Automobile Inspection

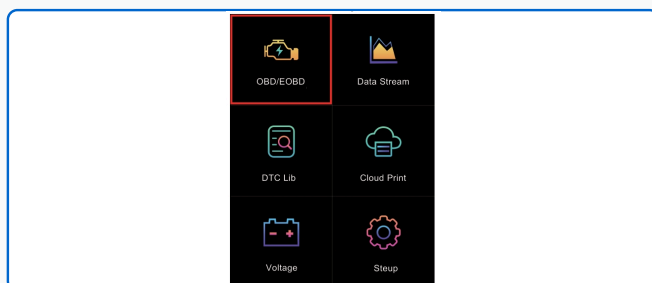
Find the special OBD interface for cars. The positions of OBD interfaces of different models are different (usually located in the inner panel at the lower left of the instrument panel, that is, above the accelerator pedal). Start the vehicle after insertion.



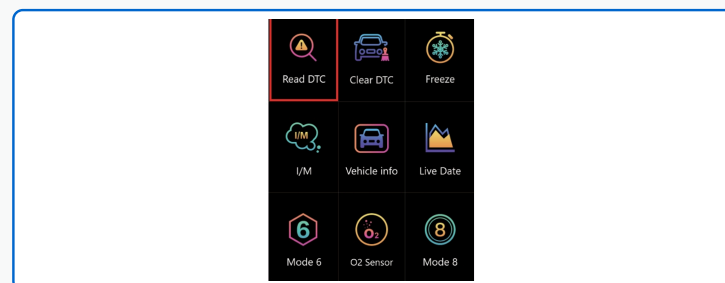
Various OBD port locations

6.1 Test Main Menu

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



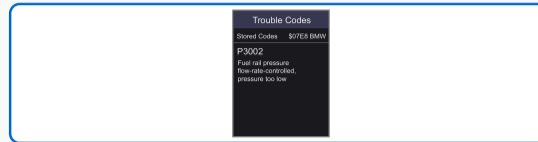
Various Functions



Various Functions

6.1.1 Code Reading

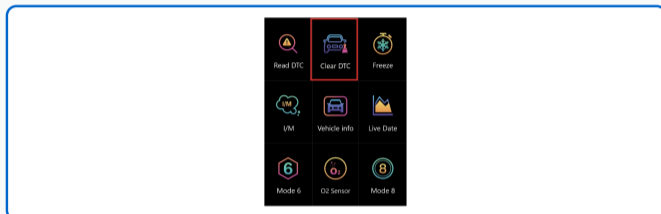
Select code reading function, product will diagnose automobile engine system. If vehicle has engine fault, engine fault code and fault definition will be read. If multiple fault codes, use up/down/left/right buttons to turn pages. Press OK/EXIT to return.



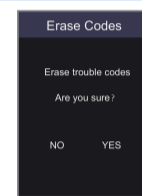
Fault codes and definitions

6.1.2 Clear Code

Select "Clear Code" and confirmation message will appear. After confirming fault code is cleared, vehicle engine fault light will go out and code cleared successfully. If clearing fails, it can be cleared when engine is powered off.



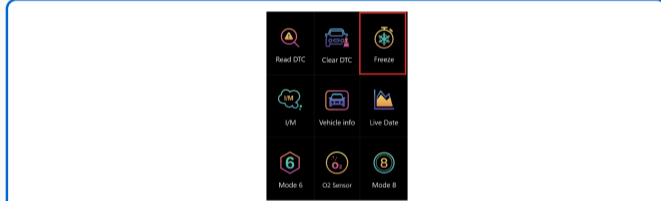
Function Select



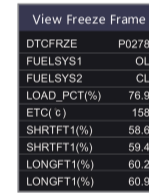
Choose to Proceed

6.1.3 Freeze Frame

Freeze frame refers to snapshot data automatically recorded by automobile computer when emission system has fault code. Good function to help determine cause of fault.



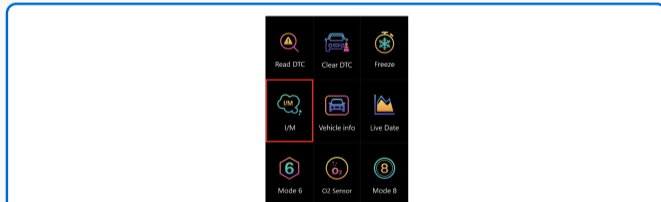
Function Select



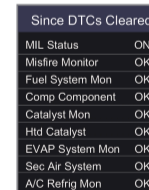
Data list View

6.1.4 I/M Ready State

I/M ready function used to check whether car monitor is OK or N/A. During specific driving time (each monitor has specific conditions and required time). OK=monitoring test completed, INC=vehicle not completed monitoring, N/A=modified vehicle does not support this monitoring.



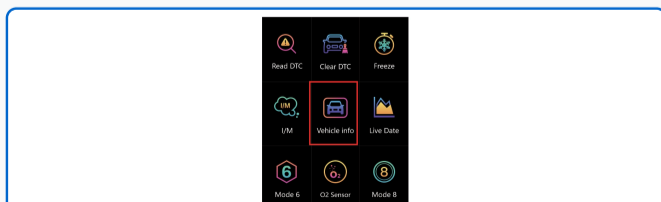
Check Status



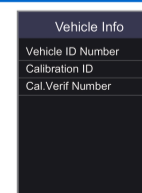
Data list View

6.1.5 Vehicle Information

Vehicle identification code and other information can be viewed after entering vehicle information.



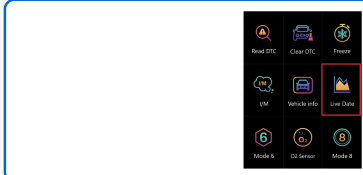
Function Select



Data list View

6.1.6 Data Stream

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



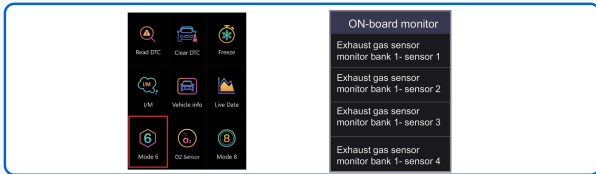
Function Select

Data Stream	
DTC_CNT	9
DTCFRZF	P1212
FUELSYS1	OL Drive
FUELSYS2	CL
LOAD_PCT(%)	41
ETC (c)	97
SHRFT1(%)	23.4
SHRFT3(%)	25
LONGFT1(%)	54

Data list View

6.1.7 Mode 6

Select mode 6 to enter vehicle monitoring test. Due to vehicle manufacturer factors, some models may not be able to read the item. The sensor monitoring page is displayed.



Function Select

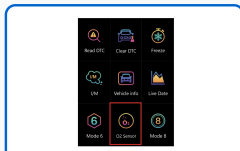
Sensor monitor	
No support Test Id 255	

Sensor value	
Test value	515
Min Limit	1024
Max Limit	0
Status	Fail
Unit	

Data list View

6.1.8 Oxygen Sensor Test

When entering oxygen sensor test project, oxygen sensor value of tested vehicle will be read to determine whether detection data is normal or not.



Function Select

O2 monitor test	
O2 bank1 sensor 2	
O2 bank1 sensor 4	
O2 bank2 sensor 1	
O2 bank2 sensor 2	
O2 bank2 sensor 3	

Sensor Choose

O2 bank1 sensor2	
Rich-lean threshold	
Lean-rich threshold	
Low for switch	
High for switch	
Rich-lean threshold	
Lean-rich threshold	

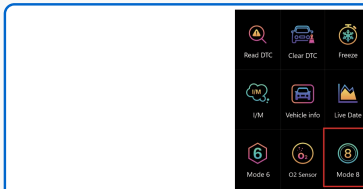
Select Data to View

Rich-lean threshold	
Test value	0.500
Min Limit	0.250
Max Limit	0.500
Status	Fail
Unit	V

Data list View

6.1.9 Mode 8

Mode 8 component test project. Due to vehicle manufacturer factors, some models may not be able to read the item.



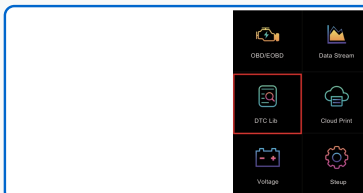
Function Select

Component test	
Evaporative system leak test	

Test project

6.2 Query the Fault Code Library

Enter query fault code option, user can use direction keys to adjust fault code, turn to fault code to be queried and select "OK" to query fault definition.



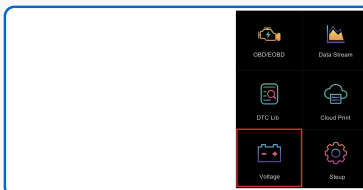
Input code

DTC Lookup	
P 2 0 0 0	
Left/Right	
Change Digit	
Confirm	

View meaning

6.3 Voltage

Enter voltage option to read current battery voltage data of detected vehicle.



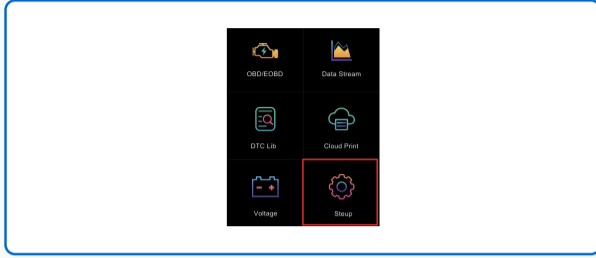
Function Select

Voltage	
11.8V	

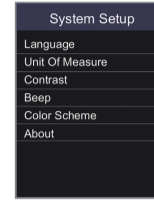
View voltage

6.4 Settings

Enter setting option to adjust language, unit and other settings of multiple product parameters.



Function Select



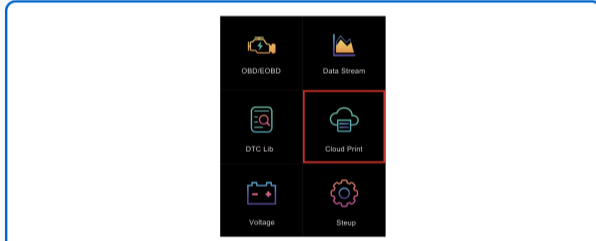
Select function

6.5 Cloud Print

The cloud printing function is very convenient, the product will generate two-dimensional code after detecting the fault code, data stream, and frozen frame items, and the detection data will be displayed on the mobile phone screen by scanning the code with the mobile phone. At this time, you can save the data displayed on the mobile phone or send it to other maintenance engineers.

Cloud Print Procedure:

- 1) Read fault codes, data stream, or freeze frame first
- 2) After reading data that needs to be printed, click "OK" button
- 3) Product generates data two-dimensional code on screen
- 4) Scan QR code with mobile phone camera
- 5) Detection data displays on mobile phone screen
- 6) Save data displayed on phone or send to other engineers



Select function



Choose Data to print

Important Note:

If the printed item has no data, it needs to be re-detected in the "OBD/EOBD" menu. Make sure vehicle is connected and data has been read before generating QR code.

8. Notes

Products are not compatible with new energy vehicles and models that do not comply with the OBD2 agreement.

9. Disclaimer

We are committed to providing customers with unparalleled customer support before and after sales. Here are our exemption conditions for products:

If any of the following conditions are met, the customer shall not enjoy the policy within the scope of this limited warranty:

a) Abnormal Use: Abnormal use, abnormal conditions, improper storage, exposure to humidity or unauthorized modification, misuse, negligence, abuse, accident, change, improper installation or other non fault behaviors, including damage caused by transportation.

b) External Damage: Our company will not be responsible for the product damage caused by external reasons (such as collision with objects) or fire, flood, sand, dust, storm, lightning, earthquake or weather conditions, acts of God irresistible or battery leakage, theft, fuse breaking, incorrect use of any power supply.