

## 1. Product Introduction

This is a gasoline car code reader, which supports nine standard protocols of OBD II/EOBD. Plug and play, can quickly read the car's fault information and vehicle parameters, is a more comprehensive function of the fault diagnosis instrument. Please read the product manual carefully before using this product, thank you.

## 2. Matters Needing Attention

- ⚠ ① Do not use abrasive cleaners to clean this product
- ⚠ ② Do not let this product be heated or close to the source of the fire
- ⚠ ③ Do not expose this product to direct sunlight for a long time
- ⚠ ④ Do not try to disassemble this product to make any modifications, because it does not contain any maintenance components
- ⚠ ⑤ Do not use this product in the room
- ⚠ ⑥ If you do not plan to use this product for a long time, please store it in a dry environment to avoid extreme temperature and dust

## 2.1 Tool Description



### Button Functions:

- 1. Diagnostic Joint:** Connect decoder to vehicle DLC
- 2. LCD Display:** Display detection result
- 3. I/M Button:** I/M READINESS KEY, Quick checks state emissions
- 4. Up Roll Button:** Roll menu and submenu
- 5. ESC Button:** Cancel selection, return to menu
- 6. OK Button:** Confirm selection
- 7. Down Roll Button:** Roll menu and submenu

## 2.2 Specification

<b>Display</b>	160×128 dpi, 1.8-inch TFT color screen
<b>Working Temperature</b>	0-60°C (32-140°F)
<b>Storage Temperature</b>	-20 to 70°C (-4 to 158°F)
<b>External Power Supply</b>	Vehicle battery 9.0 to 16.0V
<b>Dimensions</b>	125 × 62 × 21 mm
<b>Supported Languages (10)</b>	German, Dutch, English, Spanish, French, Italian, Russian, Chinese, Japanese, Korean

## 2.3 Power Supply of Vehicle

Vehicle data link connector (DLC) supplies the power to decoder. Open the decoder by the following steps:

1. Take down DLC cover plate from the vehicle (Some vehicles have plastic cover plate, need to take down it before inserting OBD2 cable)
2. Insert OBD II wire to vehicle DLC

## 2.4 Application Range of Vehicle

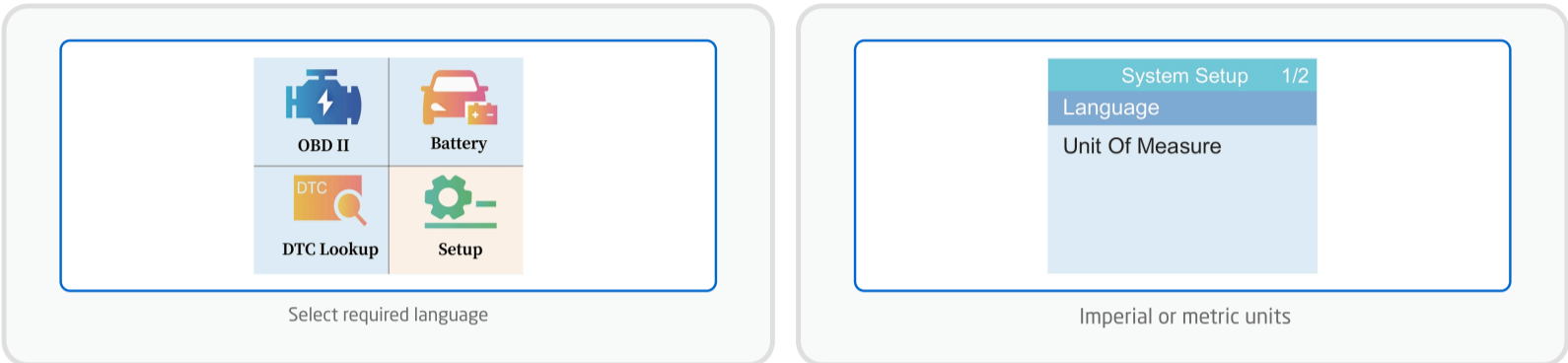
This OBD II/EOBD decoder is specially applied to all the vehicles that accorded with OBD II standard, including the vehicles for preparing the next generation of protocols - controlling the area network (CAN capacity). All the vehicles selling in USA as required by United States Environmental Protection Agency, and 1996 newer (automobile) light trucks must be accorded with OBD II standard. Including all the domestic, Asian and European vehicles.

**Note:** A small amount of 1994 and 1995 petrol vehicles are accorded with OBD II standard. Check the vehicle emission control information (VECI) label. If accorded with OBD II standard, the label is marked with "OBD II certification". All OBD II vehicles must have "General" 16 pin data link connector (DLC).

## 2.5 Included Accessories

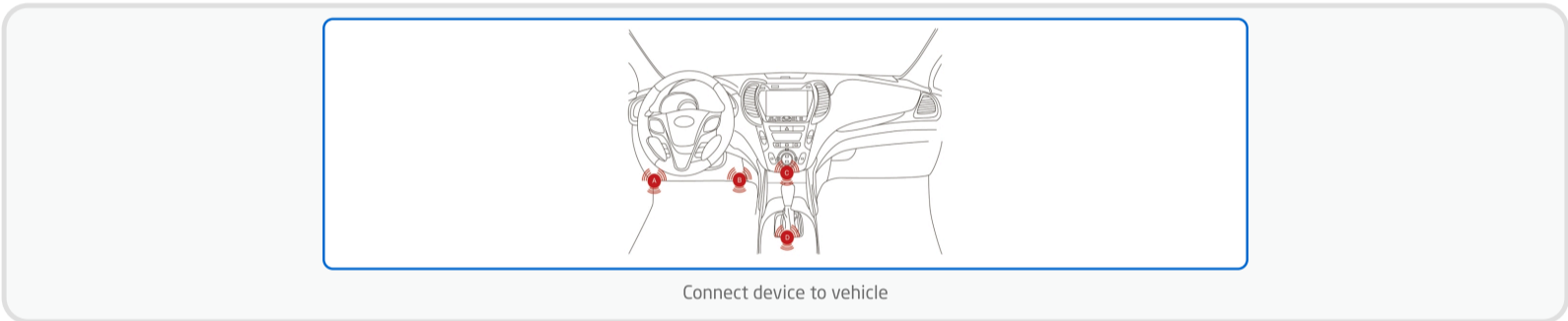
- User's Manual - Tool operating instruction
- OBD2 Wire - Supply power to the tool, and communicate between tool and vehicle

## 2.6 Product Setup



**Language:** Select the required language  
**Measurement Unit:** Set the measurement unit as imperial or metric units

## 3. OBD II Diagnosis



1. Turn off ignition switch
2. Find the vehicle 16 pin data link connector (DLC)
3. Insert OBD II wire to vehicle DLC
4. Turn on ignition switch. Engine stops or runs
5. Press Return/Confirm button to enter diagnostic menu. A series of OBD2 protocol information will be displayed until the vehicle protocol is detected

- If "Connection error!" appears:**
- Confirm ignition switch is turned on
  - Check if OBD II connector is connected to vehicle DLC
  - Confirm the vehicle is accorded with OBD2 standard
  - Turn off ignition and wait 10 seconds, then retry

## 3.1 Read Codes

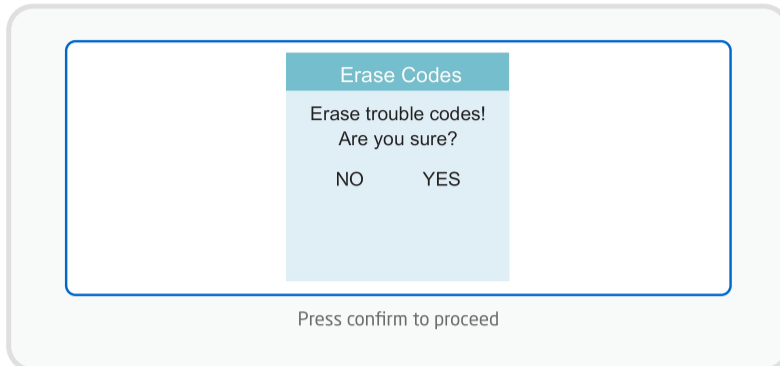
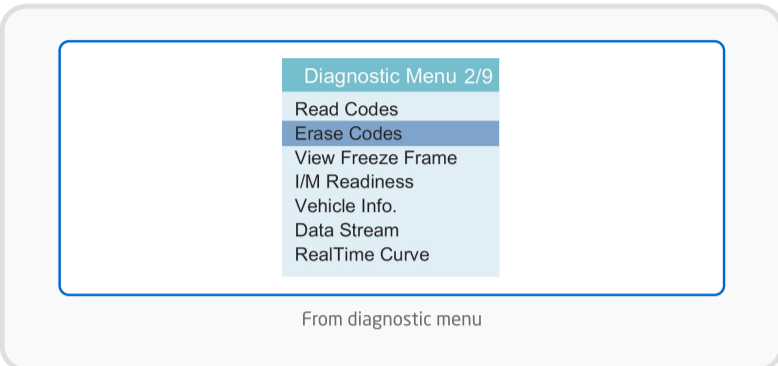
Press Up/Down button to select "Read code" from diagnostic menu, then press Return/Confirm button.



Control module No., diagnostic code order, total numbers of code and types of code (general or manufacturer specified) will be displayed on the upper right corner. If no code detected, "Code is not stored in module!" will be displayed.

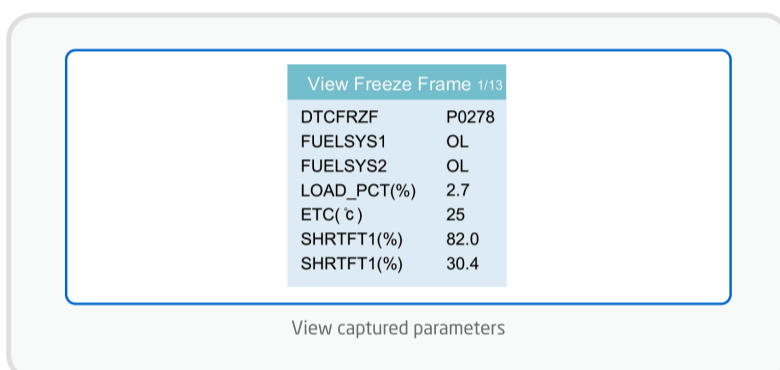
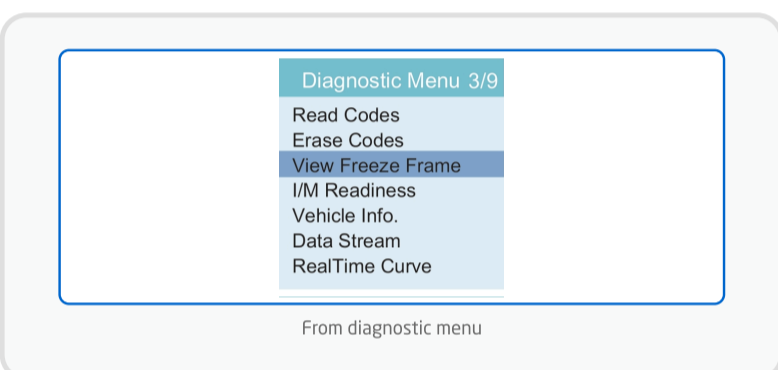
## 3.2 Erase Codes

**Caution:** Delete diagnostic code may not only delete the code on truck-mounted computer, but also delete "Freeze Frame" data and enhanced data. All I/M ready monitor status will be reset. Do not delete before complete system check.



If deletion successful: "Delete is finished!" will display. If failed: "Delete is failed. Rotate the key in the case of engine is turned off!" will display. You can try to turn off engine and choose to clear fault code when power is on.

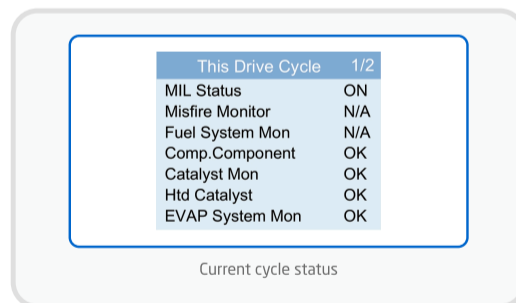
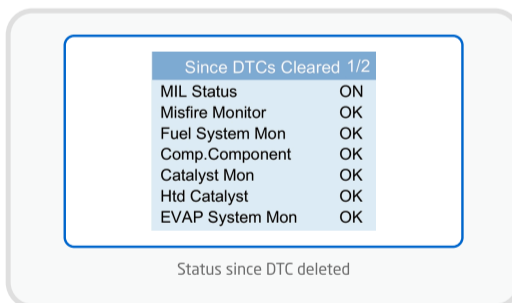
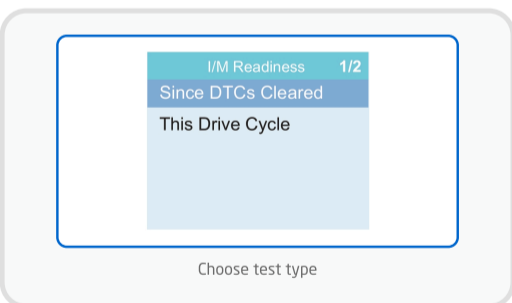
## 3.3 View Freeze Frame



The "x/x" on upper right corner shows total Frame coverage and current display number. If no available Freeze Frame data, "Freeze Frame is not stored" will be displayed.

## 3.4 I/M Readiness

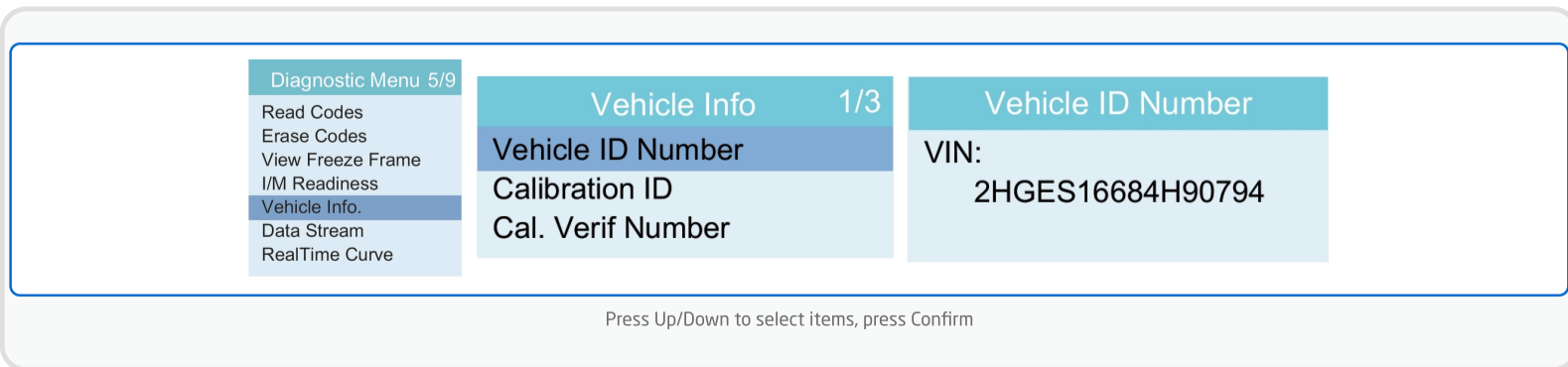
I/M ready function is used to check the operating situation of vehicle emission system. Some newest vehicle models may support two types of I/M ready test.



The "x/x" on upper right corner shows total coverage of retrieved data. View MIL status and monitor status (OK = test finished, N/A = not supported).

## 3.5 Read the Vehicle Information

Vehicle information function can retrieve vehicle identification number (VIN), calibration sign, calibration verification number (CVN) and models above 2000 support vehicle performance tracking of mode 9.



## 3.6 Data Stream

Diagnostic Menu 6/9

- Read Codes
- Erase Codes
- View Freeze Frame
- I/M Readiness
- Vehicle Info.
- Data Stream**
- RealTime Curve

From diagnostic menu

Data Stream 1/11

FUELSYS2	OL-D	OL
LOAD_PCT(%)	10.6	
ETC(°c)	70	
SHRTFT1(%)	-63.3	
LONGFT1(%)	-59.4	
SHRTFT2(%)	-60.2	
LONGFT2(%)	-60.2	

Read Engine data

Read current engine data flow information including fuel system, load percentage, coolant temperature, short/long term fuel trim data.

## 3.7 RealTime Curve

Diagnostic Menu 7/9

- Read Codes
- Erase Codes
- View Freeze Frame
- I/M Readiness
- Vehicle Info.
- Data Stream
- RealTime Curve**

Speed waveform display

Real Time Curve 1/4

- Car Speed**
- Calculate Load Value
- Engine Coolant Temp
- Engine RPM

Engine and waveform

Real Time Curve 2/4

- Car Speed
- Calculate Load Value**
- Engine Coolant Temp
- Engine RPM

Temperature Waveform

Calculate Load Value

LOAD PCT(%) 52.2

Rotation speed waveform

## 3.8 Oxygen Sensor

Diagnostic Menu 8/9

- O2 Sensor**
- EVAP

From diagnostic menu

O2 Sensor 1/2

O2SLOC	B1S-23-B2S-2	
O2B1S1(V)	0.515	
O2B1S2(V)	0.490	
O2B2S1(V)	0.495	
O2B2S2(V)	0.495	
O2B3S1(V)	0.500	
O2B3S2(V)	0.800	

View sensor voltage status

According to the test result, you can use the up/down buttons to view the current O2 sensor data flow.

## 3.10 Fuel Evaporation Control System

Diagnostic Menu 9/9

- O2 Sensor
- EVAP**

Select from diagnostic menu

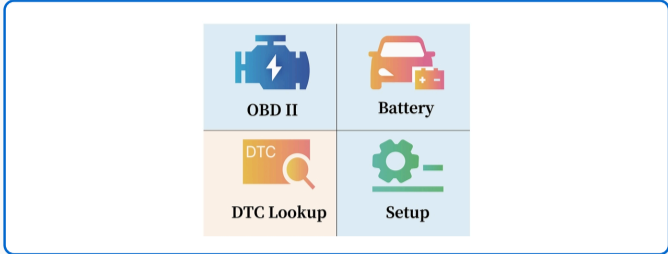
EVAP 1/1

EVAP_PCT(%)	9.0
EVAP_VP(Pa)	11538

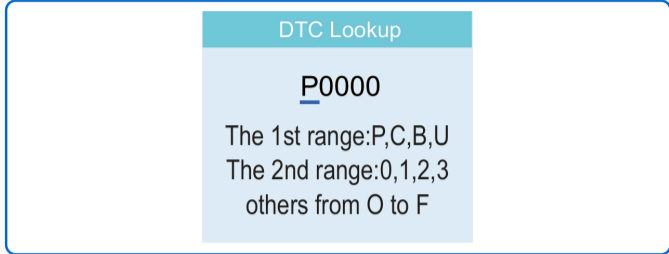
View evaporation system data

According to the test result, you can use the up/down buttons to view the current EVAP data flow (percentage and vapor pressure).

## 4. Diagnostic Code Query



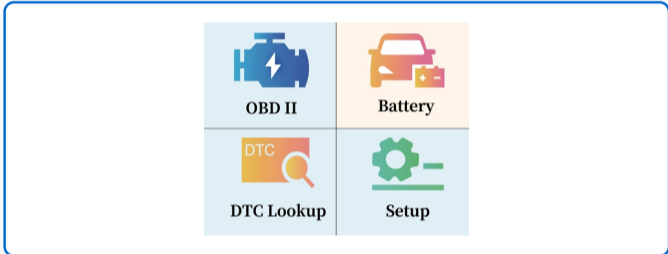
Input diagnostic code



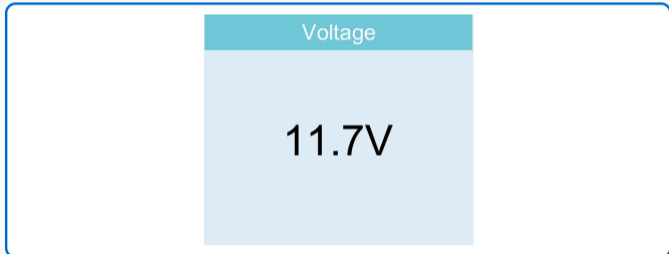
View Code descriptions

- Press "▲" to adjust the next code
- Press "▼" to adjust the current code
- Press Confirm to query after input the code

## 5. Battery Voltage



From diagnostic menu



Real time voltage value

Test and display the current voltage value of the car battery in real time.

## 6. Precautions

This product is not compatible with new energy vehicles, hybrid vehicles, diesel vehicles and non-OBD2 agreement models.

## 7. Disclaimer

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

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

**a) Abnormal Use:** Abnormal use of the product, abnormal conditions, improper storage, exposure to moisture or humidity, unauthorized modification, unauthorized maintenance, misuse, negligence, abuse, accident, alteration, improper installation or other actions that are not malfunctions, including damage caused by transportation.

**b) External Damage:** The product is damaged due to external reasons (such as collision with objects) or fire, flood, sand, dust, storm, lightning, earthquake or weather conditions, irresistible acts of natural disasters or battery leakage, theft and damage, blown fuse. Our company is not responsible for any product damage caused by incorrect use of any power supply.

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