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Disclaimer

The product information, technical specifications, and related illustrations in this manual represent the most uptodate materials available at the time of writing. We reserve the right to update and improve products and technologies at any time without prior notice. Users should operate based on the actual status of the product. We are not responsible for any discrepancies caused by product upgrades or modifications.

Safety Precautions

To ensure personal safety and equipment integrity, please carefully read and understand all safety warnings and operational guidelines in this manual before using the device.

Safety Warnings

1. **Operating Environment Requirements:**
    - Operate in a wellventilated and welllit environment.
    - Do not use this device during thunderstorms or under extreme temperature conditions.
    - Keep the device away from fire sources and flammable materials. Avoid direct sunlight or exposure to rain.
2. **Personal Protection Measures:**
    - Operators must wear appropriate personal protective equipment (including but not limited to safety goggles, masks, gloves, etc.).
    - Avoid direct contact with heated components; use professional tools when necessary.
    - When handling automotive exhaust systems, ensure proper ventilation and take comprehensive safety measures.
3. **Device Usage Guidelines:**
    - Do not connect or disconnect diagnostic equipment while the engine is running.

- Ensure the vehicle battery is adequately charged and connectors are clean.
- Avoid exposing the device to environments with corrosive chemicals.
- Do not charge the device for extended periods (charging should not exceed four hours).
- The device may emit radio frequency energy during use. Failure to install and operate the device as instructed may cause harmful interference to radio communications. We cannot guarantee that interference will not occur in specific installations.

4. **Operational Precautions:**

- Do not operate the diagnostic device while driving.
- Keep the device away from oil, water, or other liquid contaminants.
- Ensure the workspace is equipped with appropriate firefighting equipment.
- Do not use this product as a tool or discard it carelessly.

5. **Special Reminders:**

- Minors or individuals without operational capabilities must not access this device.
- Operators should maintain proper balance and avoid hazardous movements.
- Do not wear jewelry or other items that may pose safety risks.

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Device Introduction

1.1 Product Overview

This device is a professional handheld tool for TPMS maintenance, integrating programming, activation, diagnostics, and system learning for tire pressure sensors. It is your expert choice for TPMS servicing. Key features include:

- **Wi-Fi Quick Upgrade**: Ensures rapid updates and optimizations via wireless network, maintaining compatibility with over 95% of mainstream vehicle models.
- **Multi-Sensor Synchronous Programming**: Supports wireless synchronization of multiple tire pressure sensors, enhancing efficiency.
- **OEM-Level Learning Assistance System**: Includes professional diagnostic functions such as reading/clearing fault codes and OE number lookup, meeting diverse maintenance needs.
- **Dual-Frequency Sensor Compatibility**: Fully compatible with dual-frequency sensors, offering broader applicability.

Note: This device is designed specifically for our tire pressure sensors. Programmed sensors can replace OEM sensors. To purchase sensors, device accessories, or replacement parts, please order through our official channels or authorized dealers.

1.2 Core Features

- **OBD Diagnostics**: Supports reading sensor IDs, retrieving fault codes, clearing codes,

  performing matching, and relearning operations.
- **WiFi Updates**: Enables remote updates via wireless network without the need for a USB connection, offering greater convenience.
- **OE Online Search**: Allows quick lookup of OE number information for compatible vehicle models when connected to the internet.
- **Tire Pressure Sensor Detection**: Provides real-time sensor data, including ID, pressure, temperature, and battery status.
- **Tire Pressure Sensor Programming**: Supports multiple programming methods, including manual input, automatic creation, activation cloning, and OBD cloning.

- **Key Frequency Detection**: Detects the communication frequency of vehicle remotes (supports 315MHz, 433MHz, and 434MHz).

1.3 Equipment and Button Function Description



Button functions

- **Up/Down key:** Toggle up and down
- **Left/Right key:** Toggle left and right
- **Cancel/Return key:** Return the diagnostic system; Cancel activation; Return to the previous page or menu.
- **Test&Activation button：** Activation, duplication, and programming
- **Enter/Confirmation key:** Confirm or enter the operation
- **ON/OFF：** Press 3 seconds to turn on/off
- **USB-C port:** Charge the device

Note: The images, illustrations, product features, functions, and accessories in the user manual are for reference only and may differ from the actual product. Product design and specifications are subject to change without prior notice. For any inquiries, please contact your dealer.

1.4 Icon Meanings

 WiFi connected

 WiFi not connected

 VCI connected

 VCI not connected

 Battery level

1.5 Terms/Abbreviations

OE number（Original Equipment Number）：

The OE number is the abbreviation for "Original Equipment Manufacturer number," which uniquely identifies a specific part or system on a vehicle. It is typically associated with the vehicle's model year, model, and configuration. For example, in a Tire Pressure Monitoring System (TPMS), the OE number is used to identify and match specific sensor models for programming, activation, or diagnostic purposes.

VIN (Vehicle Identification Number):

The VIN, or Vehicle Identification Number, is a 17-character code used to uniquely identify a vehicle. It contains detailed information about the vehicle, such as model, year, configuration, production date, and engine type. By decoding the VIN, key vehicle details can be quickly retrieved to assist with diagnostics, repairs, or part matching (e.g., TPMS sensors).

The VIN can typically be found on the lower edge of the windshield, the door frame, or other fixed locations on the vehicle. It may also be listed in the vehicle's user manual or original documentation. The **9th character** of the VIN indicates the model year, which refers to the year designation of the vehicle, not its exact manufacturing, delivery, or registration date.

Model Year:

The model year refers to the year designation indicated by the VIN, representing the version or style of the vehicle for that year. It does not correspond to the actual manufacturing date, production date, purchase date, or registration date.

Equipment usage

2.1 Sensor Programming/Activation Guidelines

✧ **Sensor Communication Range and Orientation**

When operating the sensor (establishing communication between the device and the sensor), ensure the sensor is placed within 20 cm of the front of the device. The orientation of the sensor affects communication performance. If communication fails, adjust the sensor's position and orientation before retrying.

✧ **Sensor Usage Inside the Tire**

When the sensor is installed inside the tire, the front of the device should face the rubber outer tire near the sensor (valve) position (see mark 1 in the figure), rather than directly facing the valve itself (see mark 2 in the figure). This ensures proper signal reception and avoids communication failures caused by incorrect alignment. (As shown in the figure).



2.2 Device Charging

Use a standard USB (Type-C) cable and a standard USB power source to charge the device.

Note: Only use a standard 5V USB adapter for charging. Using non-standard USB adapters may damage the device. Damage caused by improper charging is not covered under our warranty.

2.3 Software Upgrade(WIFI)

2.3.1 Device (Main Unit) Upgrade

WiFi Upgrade:

1. On the **[Home]** screen, select **[Upgrade]**.
2. Select **[Scan WiFi]** and connect.
3. Select **[Upgrade]**.
4. Press **[Confirm]** and wait for the upgrade to complete.

USB Upgrade:

1. Connect the device to a computer via the supplied USB cable.
2. On the **[Home]** screen, select **[Settings]**.
3. Select **[USB Upgrade]**.
4. Install and launch the PC update software.
5. Select 【Update】 in the PC software and wait for the update to complete.

2.3.2 OBD (VCI) Upgrade

1. Ensure WiFi connection, then go to **[Settings]** on the **[Home]** screen.
2. Select **[Bluetooth]**.
3. Choose **[Scan Bluetooth]** or **[Connect Last Device]**.
4. Select **[Upgrade]**.
5. Press **[Confirm]** and wait for the upgrade to finish.

2.4 How to Change the Vehicle Sales Region (Market)?

When using the device for the first time, update the sales region in the settings to match the user's local market.

Example: For users in the China market, go to **[Settings] > [Market]** during initial setup and select **[China]**.

2.5 How to Select a Vehicle Model

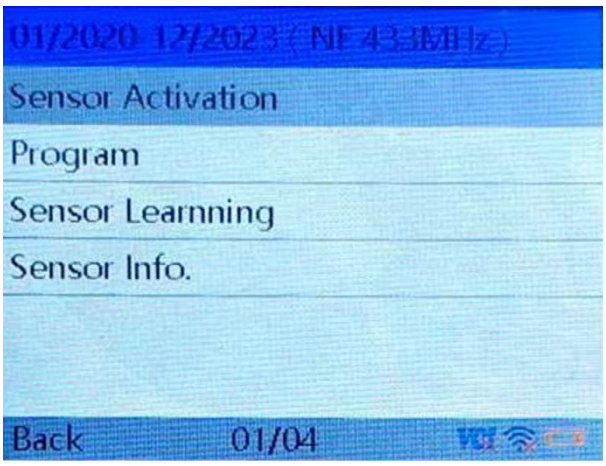
2.5.1 Standard Method

Steps for Standard Version:

1. On the **[Home]** screen, select **"TPMS"**.
2. Select the vehicle brand.
3. Select the vehicle model or series.
4. Select the model year (Note: The model year refers to the VIN year, not the manufacturing date).
5. Access the corresponding TPMS function menu.

Steps for Regional Brand Version:

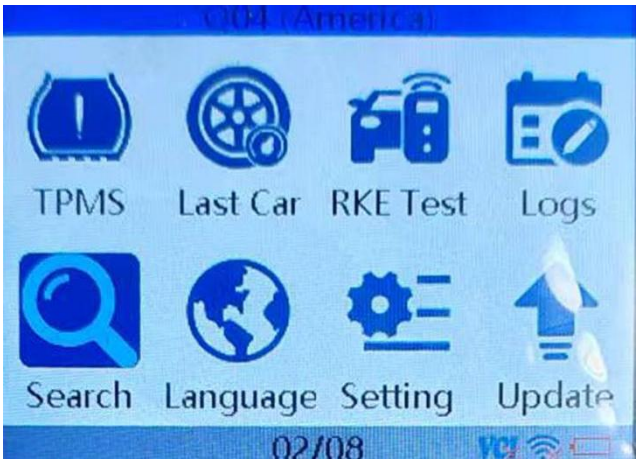
1. On the **[Home]** screen, select **"TPMS"**.
2. Select the region or country of the vehicle brand.
3. Select the vehicle brand.
4. Select the vehicle model or series.
5. Select the model year (Note: The model year refers to the VIN year, not the manufacturing date).
6. Access the corresponding TPMS function menu.



Note: The number of TPMS functions available depends on the specific vehicle model.

2.5.2 Online Search Method

Online search is a unique feature of this handheld tool. By manually entering the OE number, users can quickly access the vehicle menu for efficient model selection.



Steps:

1. On the **[Home]** screen, select **"Online Search"**.
2. Enter the OE number to search.
3. Confirm the OE number.
4. Select the correct model year from the search results (Note: The model year refers to the VIN year, not the manufacturing date).
5. Access the TPMS function menu for the selected model year.

2.6 How to Test/Activate Sensors

1) In the **[TPMS Function]** menu, select **[Sensor Test]** to enter the sensor testing interface.
2) **Select the tire position to test (the system defaults to the front left tire).**
   Use the directional keys (↑, ↓, ←, →) to move the cursor and select the desired tire position (e.g., front right, rear left, rear right).
3) Align the device with the sensor (refer to section 1.3 for precautions).
   Point the device at the TPMS sensor on the target tire, maintaining an appropriate distance (within 20cm) to ensure stable signal transmission.



4) Press the【】button to start the activation and testing process

Wait for a few seconds while the system reads the sensor information and displays the results.

5) After a few seconds, the screen will display the following sensor ：

- **Pressure: Current tire pressure (e.g., 3.0 bar).**
- **Temperature:** Current tire temperature (e.g., 25°C).
- **Battery:** Sensor battery status (e.g., normal or low battery warning).
- **ID:** Unique sensor identification code.

6) Handling exceptions

- If the sensor is damaged, the system will be unable to retrieve any information.
- If the sensor battery is low, a "Low Battery" warning will be displayed on the screen.

7) Check sensor detailed information

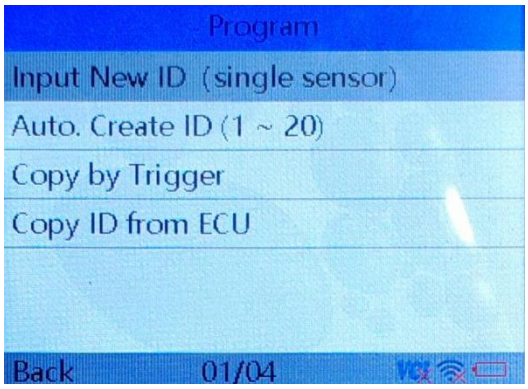
- In the sensor testing interface, press the **[Confirm]** button to access the detailed information page.
- This page provides more in-depth tire pressure data and sensor status for further review or recording.



2.7 How to Program Sensors

In the **[Tire Pressure Functions]** menu, select **[Sensor Programming]** to enter the programming mode selection interface. The system supports four programming methods:

[Manual ID Input (Single)] , **[Automatically Generate New IDs (1–20)]** , **[Copy Activated ID], [Copy ID from ECU].**



Notes:

- Since the device does not support local storage of sensor programming files, it is recommended to maintain a stable WiFi connection during programming. The system will automatically download the latest sensor software from the server via WiFi to ensure successful programming.
- Place the sensor to be programmed within 20cm of the device's programming antenna. Ensure that other sensors not being programmed are kept at least 100 cm away from the device.

2.7.1 How to Manually Input an Old Sensor ID for Programming

After selecting **[Manual ID Input (Single)]**, enter the **ID Input Interface**. Input the old sensor ID (ensure the ID format is correct). Once the ID is entered, select **[Confirm]** to proceed with programming. Wait for the programming process to complete.

2.7.2 How to Automatically Generate New IDs for Programming

After selecting **[Automatically Generate New IDs (1–20)]**, the system will enter the **Sensor Search Interface**. Once the sensor search is complete, the device will display the number of sensors detected. If the number of detected sensors matches the number of sensors requiring programming, select **[Confirm]** to begin programming. Wait for the process to complete.

2.7.3 How to Activate and Copy an Old Sensor ID for Programming

After selecting **[Copy Activated ID]**, enter the **Sensor Selection Interface**. Choose the sensor ID you wish to copy (the ID of an already activated old sensor).
Select **[Confirm]** to proceed with programming. Wait for the process to complete.

Note: Ensure the old sensor has been activated and its ID retrieved before proceeding.

2.7.4 How to Copy an ID from the ECU for Programming

1. Connect the OBD (VCI) tool to the vehicle’s OBD-II port and turn on the vehicle ignition.
2. Select **[Copy ID from ECU]**, then search for and connect to the OBD (VCI) via BLE Bluetooth. Once successfully connected, the device will retrieve sensor ID information from the ECU using the OBD (VCI).
3. Select the desired ID and press **[Confirm]** to begin programming. Wait for the process to complete.

Note: Before performing OBD operations, ensure the device is connected to WiFi or a mobile hot spot to download the required OBD files for the specific vehicle model from the server.

2.8 How to Perform OBD Diagnostics

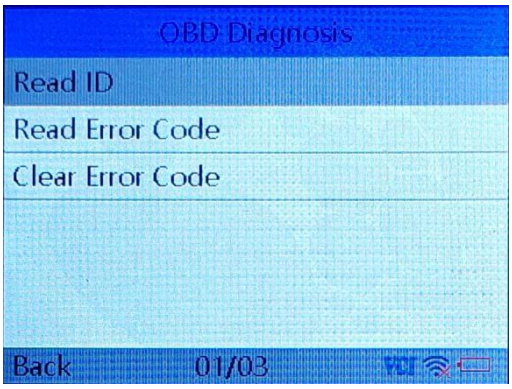
The **OBD Diagnostics** function is used to diagnose issues within the vehicle's Tire Pressure Monitoring System (TPMS). This includes reading sensor IDs, retrieving diagnostic trouble codes (DTCs), and clearing DTCs.

Note: Availability of TPMS diagnostics depends on the vehicle model.

Before performing diagnostic operations, ensure the device is connected to the OBD (VCI) tool; Connect to a WiFi network and update the OBD (VCI) tool to the latest version.

Steps to Connect the OBD (VCI) Tool:

1. Connect the OBD (VCI) tool to the vehicle's OBD-II port and turn on the vehicle ignition.
2. Select **[OBD Diagnostics]**, search for BLE Bluetooth devices, and connect to the OBD (VCI).
3. Once connected, the device will display available OBD options: **[Read ID], [Read DTCs], [Clear DTCs].**



2.8.1 How to Read Sensor IDs from the ECU

1. Select **[OBD Diagnostics]** and connect to the OBD (VCI) via Bluetooth.
2. In the **OBD Diagnostics** interface, select **[Read ID]**.
3. Wait for the process to complete. The device will display the TPMS sensor IDs stored in the vehicle's ECU.

Note: Ensure the device is connected to WiFi or a mobile hotspot beforehand to download the required OBD files for the specific vehicle model from the server.

2.8.2 How to Retrieve TPMS Diagnostic Trouble Codes

1. Select **[OBD Diagnostics]** and connect to the OBD (VCI) via Bluetooth.
2. In the **OBD Diagnostics** interface, select **[Read DTCs]**.

3. Wait for the process to complete. The device will display TPMS-related diagnostic trouble codes stored in the vehicle's ECU.

Note: Ensure the device is connected to WiFi or a mobile hotspot beforehand to download the required OBD files for the specific vehicle model from the server.

2.8.3 How to Clear TPMS Diagnostic Trouble Codes

1. Select **[OBD Diagnostics]** and connect to the OBD (VCI) via Bluetooth.
2. In the **OBD Diagnostics** interface, select **[Clear DTCs]**.
3. Wait for the process to complete. The device will clear TPMS-related diagnostic trouble codes stored in the vehicle's ECU.

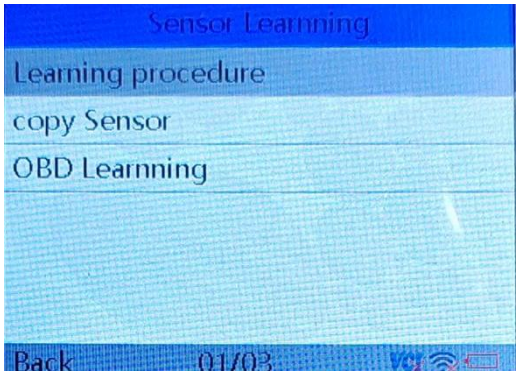
Note: Ensure the device is connected to WiFi or a mobile hotspot before hand to download the required OBD files for the specific vehicle model from the server.

2.9 How to Relearn/Match New Sensors?

2.9.1 How to View Relearn/TPMS Matching Steps?

1. Go to the **[TPMS Function]** menu and select **[Sensor Relearn]**.

Select **[Relearn Steps]** to view the specific relearn/matching procedure for your vehicle.



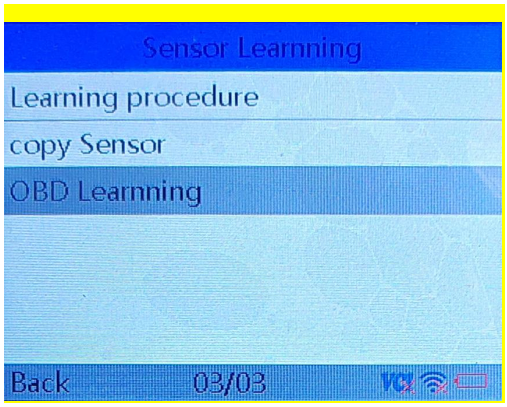
2.9.2 How to Perform OBD Relearn/Matching?

Before performing OBD relearn/matching, ensure the OBD (VCI) tool is connected to the vehicle and updated to the latest version via WiFi. **OBD Connection Steps:**

1. Connect the OBD (VCI) tool to the vehicle's OBD-II port and turn on the ignition.

2. Select **[OBD Relearn]**, search for the BLE (Bluetooth) device, and connect to the OBD (VCI).

Note: OBD relearn/matching availability depends on the vehicle model.



1. Go to the **[TPMS Function]** menu and select **[Sensor Relearn]**.
2. Select **[OBD Relearn]** (connect to the Bluetooth OBD device).
3. Follow the on-screen instructions to activate the sensors at each tire position (including the spare tire, if applicable).
4. Once all sensors are activated and the IDs are confirmed, press **[Confirm]** to start the OBD relearn process. Wait for the relearn to complete.

2.10 How to View Sensor Information

2.10.1 How to View OE Sensor Information?

Go to the **[TPMS Function]** menu, select **[Sensor Info]**, and then choose **[OE Info]** to view the OE sensor details for the current vehicle.

2.10.2 How to View Programmable Sensor Information?

Go to the **[TPMS Function]** menu, select **[Sensor Info]**, then choose **[Our Sensors]**. Press **[Confirm]** and wait for the query to complete.

Note: Place the sensor to be queried within 20cm of the device's programming antenna. Keep other sensors at least 100cm away from the device.

2.11 How to Detect Key Frequency

On the **[Home]** screen, select **[Key Detection]**, then press any button on the key/remote as prompted. The device will display the detected frequency once the signal is received.

2.12 How to Change System Language

On the **[Home]** screen, select **[Language]** to enter the language settings. Use the ↑/↓ keys to choose the desired language, then press **[Confirm]** to save the changes.

2.13 Unit Settings

2.13.1 Pressure Unit

On the **[Home]** screen, select **[Settings]**, then **[Pressure]**. Use the ↑/↓ keys to choose **Psi**, **Kpa**, or **Bar**, and press **[Confirm]** to save.

2.13.2 Temperature Unit

On the **[Home]** screen, select **[Settings]**, then **[Temperature]**. Use the ↑/↓ keys to choose ℃ or ℉, and press **[Confirm]** to save.

2.13.3 Sensor ID Display Format

On the **[Home]** screen, select **[Settings]**, then **[ID Format Settings]**. Use the ↑/↓ keys to select **Auto**, **Hexadecimal**, or **Decimal**, and press **[Confirm]** to save.

2.14 Other Settings

2.14.1 Buzzer Switch

On the **[Home]** screen, select **[Settings]**, then **[Buzzer]**. Use the ↑/↓ keys to turn the buzzer **On** or **Off**, and press **[Confirm]** to save.

2.14.2 Auto Power-Off Time

On the **[Home]** screen, select **[Settings]**, then **[Auto Power-Off Time]**. Use the ↑/↓ keys to adjust the time, and press **[Confirm]** to save.

2.14.3 Screen Brightness Adjustment

On the **[Home]** screen, select **[Settings]**, then **[Brightness]**. Use the ↑/↓ keys to adjust the brightness, and press **[Confirm]** to save.

2.14.4 Programming Power Level Adjustment

On the **[Home]** screen, select **[Settings]**, then **[Programming Power Level]**. Use the ↑/↓ keys to select the desired level, and press **[Confirm]** to save.

2.14.5 Device Information

On the **[Home]** screen, select **[Settings]**, then **[Device Information]** to view software version, hardware version, SN, and other details.

Other Common Functions

3.1 Quick Access to Last Tested Vehicle

On the **[Home]** screen, select **[Last Test]** to quickly access the tire pressure menu of the previously tested vehicle.

3.2 Recent Vehicle Records

On the **[Home]** screen, select **[Records]** to view the recent vehicle usage list. Choose a record, then press **[Confirm]** to display the vehicle's ID information.

Troubleshooting Common Issues

Sensor Activation Failure

- Place the sensor within 20cm of the device's programming antenna and retry activation.
- Ensure no metal objects are obstructing the sensor and device.
- Check if the sensor is damaged.
- Ensure there are no duplicate ID sensors; keep the original sensor at least 3m away.
- Verify the correct vehicle menu selection.

Sensor Programming Failure

- Ensure no metal objects are obstructing the sensor and device.

- Check if the sensor is damaged.
- Wait 1 minute and place the sensor within 20cm of the device's programming antenna to retry programming.

Unable to Detect VCI (OBD) Device

- Ensure the VCI (OBD) device is powered on.

Vehicle OBD Connection Error

If the device cannot communicate with the vehicle during diagnostics or OBD cloning:

- Ensure the vehicle ignition is turned on.
- Check if the device’s OBD connector is securely connected to the vehicle’s OBD port.
- Verify the vehicle is equipped with a TPMS system.
- Confirm the vehicle complies with OBD-II standards.
- Ensure the correct vehicle menu is selected.
  If issues persist, turn off the ignition, wait 30 seconds, then turn it back on and retry testing.

Unable to Diagnose Vehicle

- Update the software.
- Confirm the vehicle supports OBD diagnostic functions.

Screen Not Displaying or Not Turning On

- Charge the device if the battery is low or depleted.
- Increase screen brightness in **[Settings]**.

Interference or Receiving Interference

If the device causes harmful interference to radio or TV reception, turn off the device. To resolve interference:

- Adjust or reposition the receiving antenna.
- Increase the distance between the device and the receiver.

- Connect the device to a different electrical circuit than the receiver.
- Seek assistance from a dealer or experienced radio/TV technician.

Warranty Terms

Scope of Warranty

This warranty applies to users and their authorized legal representatives who purchase products through our authorized dealers or official website.

Warranty Period

The warranty period is one year from the date of initial purchase. The start date is based on the invoice date; if no invoice is available, the activation date registered with the product serial number will be used.

Warranty Conditions

- Product is used in a normal environment.
- User follows the operation and maintenance guidelines in the Product Manual.
- Usage does not exceed rated load or design parameters.
- Complete warranty information is provided during after sales service.

Warranty Coverage

Within the warranty period, free repair service is provided for faults due to product quality, subject to the following conditions:

- User has operated and maintained the product according to the Product Manual.
- Product has not suffered accidental damage or improper use.
- Product is within the valid warranty period.
- Valid warranty proof is provided.

Exclusions from Warranty

- The following conditions are not covered by the warranty:
- Products beyond the warranty period.
- Incomplete or invalid warranty proof.
- Unauthorized disassembly, modification, or repair (broken seals are considered unauthorized disassembly).
- Serial number altered, damaged, or inconsistent with the warranty card.
- Damage due to improper operation or accidents (e.g., drops, collisions, compression).
- Damage due to natural disasters or other force majeure.
- Use of nonoriginal parts or uncertified thirdparty products.
- Software faults or data loss issues.
- Reasonable wear and tear from normal use.
- Issues after repair by unauthorized service centers.

Limitations and Exclusions, we do not assume responsibility for:

- Any indirect losses (including but not limited to business interruption, data loss).
- Additional service fees, such as data recovery or software installation.
- Other consequential losses due to product failure.

Warranty Procedure

- Users must report faults via designated channels and provide necessary information.
- We will respond promptly upon notification and arrange for repairs.
- Users must cooperate in backing up data during the repair process.

Note: Warranty or repair may delete all information on the device. Please back up all data before proceeding with warranty or repair services.

Product Specifications

- **Main Unit**

Display Size	2.8-inch TFT color LCD, 320x240 resolution
Charging Voltage/Current	DC 5V/1.5A
Battery Capacity	3.7V，3000mAh lithium polymer battery
Receiving Frequency	315MHz/433MHz
Upgrade Method	2.4G WIFI wireless update
Operating Temperature	-20℃ to 60℃ （-4℉to 140℉）
Storage Temperature	-20℃ to 70℃ （-4℉to 158℉）
Dimensions	188.7*98.51*35mm
Weight	0.45kg (net weight)

- **VCI (OBD) Device (Optional)**

Operating Temperature	-20℃ to 60℃ （-4℉to 140℉）
Storage Temperature	-20℃ to 70℃ （-4℉to 158℉）
Communication Method	BLE5.2Bluetooth
Diagnostic Protocols	ISO9141-2, ISO14230-2, ISO15765, K/L-Line, SAE-J1850 VPW, SAE-J1850 PWM, ISO11898 (High-speed, Medium-speed, Low-speed, Single-wire CAN)
Interface Voltage	9-16V
Interface Type	OBD-II standard interface
Dimensions	106mm*48mm*26mm
Weight	0.09Kg (net weight)