

## Henhaoro V310

# Henhaoro V310 OBD2 Scanner User Manual

Model: V310 | Brand: Henhaoro

## INTRODUCTION

The Henhaoro V310 OBD2 Scanner is a versatile diagnostic tool designed to help you quickly identify and resolve issues with your vehicle's engine system. This device supports nine standard OBD II/EOBD protocols, offering comprehensive fault information and vehicle parameters. Its plug-and-play design ensures ease of use, making it an essential tool for both professional mechanics and car owners.

This manual provides detailed instructions on how to set up, operate, maintain, and troubleshoot your V310 scanner, ensuring you get the most out of its features.

## WHAT'S IN THE BOX

- Henhaoro V310 OBD2 Scanner x 1
- Instruction Manual x 1

## PRODUCT OVERVIEW

The V310 scanner features a clear LCD display and intuitive button layout for easy navigation and operation.



**Figure 1:** Front view of the V310 scanner with key components labeled. This includes the LCD Screen, VIN (Vehicle ID Number) button, DTC (Trouble Codes) button, Scroll Up/Down buttons, Return button, OK button, and the 16-pin OBD2 connector.



**Figure 2:** Front and back views of the V310 scanner, showing its compact design and the OBDII/EOBD label on the rear.

### Controls and Indicators:

- **LCD Screen:** Displays diagnostic information, menus, and test results.
- **VIN Button:** Used to quickly access Vehicle Identification Number information.
- **DTC Button:** Used to quickly access Diagnostic Trouble Codes.
- **Scroll Up/Down Buttons:** Navigate through menu options and data lists.
- **Return Button:** Go back to the previous screen or menu.
- **OK Button:** Confirm selections or enter sub-menus.
- **OBDII Connector:** Standard 16-pin connector for linking to the vehicle's OBDII port.

## SETUP

The V310 scanner is designed for simple plug-and-play operation. No batteries or external power

supply are required as it draws power directly from your vehicle's OBDII Data Link Connector (DLC).

### Initial Connection:

1. Locate your vehicle's 16-pin OBDII DLC. This port is typically located under the dashboard on the driver's side. Refer to your vehicle's owner's manual if you cannot find it.
2. Ensure your vehicle's ignition is in the 'OFF' position.
3. Firmly plug the V310 scanner's OBDII connector into the vehicle's DLC.
4. Turn your vehicle's ignition to the 'ON' position (engine can be off or running, depending on the test). The scanner will power on automatically.

### Language Settings:

The V310 supports multiple languages. You can change the display language through the system settings.



**Figure 3:** The V310 scanner displaying the language selection menu, allowing users to choose from English, French, Italian, Spanish, German, and Dutch.

1. From the main menu, navigate to 'System Setup'.
2. Select 'Language' using the Scroll Up/Down buttons and press 'OK'.
3. Choose your desired language from the list (English, French, Italian, Spanish, German, Dutch) and press 'OK' to confirm.

## OPERATING INSTRUCTIONS

The V310 scanner provides several diagnostic functions accessible from the main menu.



**Figure 4:** Overview of the main functions available on the V310 OBD2 scanner, including Read Codes, Erase Codes, View Freeze Frame, I/M Readiness, Vehicle Info, Data Stream, and Multi Language settings.

### Key Functions:

- **Read Codes:** Retrieves Diagnostic Trouble Codes (DTCs) from the vehicle's computer. These codes indicate specific issues detected by the vehicle's onboard diagnostic system.
- **Erase Codes:** Clears all DTCs from the vehicle's computer and turns off the Malfunction

Indicator Lamp (MIL), also known as the 'Check Engine' light. *Note: Clearing codes does not fix the underlying problem. Ensure the issue is resolved before clearing codes to prevent recurrence.*

- **I/M Readiness:** Checks the readiness of the emission monitoring systems. This function is useful for determining if the vehicle is ready for an emissions test.
- **Vehicle Info:** Displays vehicle information such as Vehicle Identification Number (VIN), Calibration ID (CALID), and Calibration Verification Number (CVN).
- **Data Stream:** Shows real-time live data from the vehicle's sensors. This includes parameters such as:
  - Engine RPM
  - Calculated Load Value
  - Coolant Temperature
  - Fuel System Status
  - Vehicle Speed
  - Short Term Fuel Trim
  - Long Term Fuel Trim
  - Intake Manifold Pressure
  - Timing Advance
  - Intake Air Temperature
  - Air Flow Rate
  - Absolute Throttle Position
  - Oxygen sensor voltages/associated short term fuel trims
  - Fuel System status
  - Fuel Pressure



**Figure 5:** The V310 scanner displaying real-time data such as Car Speed, Calculated Load Value, Engine Coolant Temp, and Engine RPM.

- **DTC Lookup:** Allows you to manually enter a DTC code and view its definition.

## MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your V310 scanner.

### Cleaning:

- Use a soft, damp cloth to clean the exterior of the scanner.
- Do not use abrasive cleaners or solvents.
- Keep the OBDII connector free from dust and debris.

### Storage:

- Store the scanner in a clean, dry environment when not in use.
- Avoid extreme temperatures and direct sunlight.
- Keep out of reach of children.

# TROUBLESHOOTING

If you encounter issues with your V310 scanner, refer to the following common problems and solutions:

## No Power:

- **Check Connection:** Ensure the OBDII connector is firmly plugged into the vehicle's DLC.
- **Vehicle Ignition:** Confirm the vehicle's ignition is in the 'ON' position.
- **Vehicle Compatibility:** Verify your vehicle is OBDII compliant (most vehicles from 1996 onwards in the US, Europe, and Asia).
- **Vehicle Battery:** Ensure your vehicle's battery has sufficient charge.

## Communication Error:

- **Verify Protocol:** Ensure your vehicle uses one of the supported OBDII protocols.
- **Ignition Cycle:** Turn the ignition off, wait 10 seconds, then turn it back on and try again.
- **Check Vehicle Fuses:** A blown fuse related to the OBDII port can prevent communication. Consult your vehicle's manual for fuse box diagrams.
- **Try on Another Vehicle:** If possible, test the scanner on a different OBDII-compliant vehicle to rule out a scanner malfunction.

## Screen is Blank or Frozen:


- **Restart Scanner:** Disconnect the scanner from the vehicle, wait a few seconds, and then reconnect it.
- **Contrast Adjustment:** The V310 has contrast adjustment. Navigate to 'System Setup' and adjust 'Contrast' if the screen is too dim or too bright.

# SPECIFICATIONS

| Feature                | Specification                                                      |
|------------------------|--------------------------------------------------------------------|
| Model                  | V310                                                               |
| Display                | LCD (128 x 64 pixels) with white backlight and contrast adjustment |
| Dimensions (L x W x H) | 6.1" x 3.3" x 0.9" (155mm x 85mm x 25mm)                           |
| Weight                 | 10.2 ounces                                                        |
| Operating Voltage      | 9-16V (via vehicle OBDII port)                                     |

|                       |                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supported Protocols   | SAE J1850 PWM (41.6Kbaud)<br>SAE J1850 VPW (10.4Kbaud)<br>ISO9141-2 (5 baud init, 10.4Kbaud)<br>ISO14230-4 KWP (5 baud init, 10.4Kbaud)<br>ISO14230-4 KWP (fast init, 10.4Kbaud)<br>ISO15765-4 CAN (11bit ID, 500Kbaud)<br>ISO15765-4 CAN (29bit ID, 500Kbaud)<br>ISO15765-4 CAN (11bit ID, 250Kbaud)<br>ISO15765-4 CAN (29bit ID, 250Kbaud) |
| Operating Temperature | 0°C to 50°C (32°F to 122°F)                                                                                                                                                                                                                                                                                                                  |
| Storage Temperature   | -20°C to 70°C (-4°F to 158°F)                                                                                                                                                                                                                                                                                                                |
| Supported Languages   | English, French, Italian, Spanish, German, Dutch                                                                                                                                                                                                                                                                                             |

- SAE J1850 PWM (41.6Kbaud)
- SAE J1850 VPW (10.4Kbaud)
- ISO9141-2(5 baud init, 10.4Kbaud)
- ISO14230-4 KWP (5 baud init, 10.4 Kbaud)
- ISO14230-4 KWP (fast init, 10.4 Kbaud)
- ISO15765-4 CAN (11bit ID, 500 Kbaud)
- ISO15765-4 CAN (29bit ID, 500 Kbaud)
- ISO15765-4 CAN (11bit ID, 250 Kbaud)
- ISO15765-4 CAN (29bit ID, 250 Kbaud)



**Figure 6:** List of supported OBDII protocols, ensuring broad compatibility with various vehicle models.






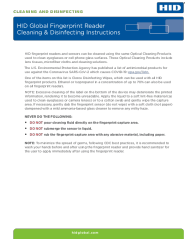
Figure 7: Physical dimensions of the V310 scanner, showing its compact and portable size.

## WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the manufacturer's official website or contact their customer service. Keep your purchase receipt as proof of purchase.

Manufacturer: HENHAORO

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|   | <p><a href="#">V310 Car Diagnostic Tool User's Manual</a></p> <p>Comprehensive user manual for the V310 Car Diagnostic Tool, covering safety precautions, tool description, specifications, OBD diagnostics, reading and erasing codes, freeze frame data, I/M readiness, vehicle information, data stream, waveform display, fault code query, and warranty information.</p> |
|   | <p><a href="#">V310 Car Diagnostic Tool User's Manual</a></p> <p>Comprehensive user manual for the V310 Car Diagnostic Tool, covering safety precautions, tool description, OBD II diagnostics, and warranty information.</p>                                                                                                                                                 |
|   | <p><a href="#">Mrcartool V310 Fuel Injector Cleaner &amp; Tester User Manual</a></p> <p>User manual for the Mrcartool V310 Fuel Injector Cleaner &amp; Tester, detailing its features, operation, safety guidelines, diagnostics, maintenance, and warranty information for automotive repair professionals.</p>                                                              |
|  | <p><a href="#">HID Global Fingerprint Reader Cleaning and Disinfecting Instructions</a></p> <p>Instructions for cleaning and disinfecting HID Global fingerprint readers and sensors, including recommended cleaning products and procedures to avoid damage.</p>                                                                                                             |