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vgate iCar Pro

vgate iCar Pro Bluetooth OBDII Scanner User Manual

Model: iCar Pro

1. Introduction

The vgate iCar Pro is a high-performance vehicle diagnostic tool that connects to your vehicle's On-Board Diagnostics (OBD-II) port. It allows you to read real-time engine data, diagnostic trouble codes, and monitor various vehicle parameters via a Bluetooth connection to your smartphone or tablet. This manual provides detailed instructions for setup, operation, and maintenance of your iCar Pro device.



Figure 1: The vgate iCar Pro Bluetooth OBDII Scanner. This compact device plugs directly into your vehicle's OBD-II port, enabling wireless communication with your diagnostic application.

2. Vehicle Compatibility

To ensure compatibility, your vehicle must meet the following criteria:

- **OBD-II Compliant:** The vehicle must have a 16-pin Data Link Connector (DLC) located under the dashboard.
- **Emission Control Information:** The Vehicle Emission Control Information label (usually under the hood) must state "OBD II Compliant" or "OBD II Certified".
- **Geographical Compliance:**
  - **USA:** All vehicles manufactured from 1996 onwards.
  - **Europe (EOBD):** Gasoline cars from 2001 onwards, Diesel cars from 2003/2004 onwards.

Supported OBD-II Protocols:

- SAE J1850 PWM (41.6 Kbaud)

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

3. Package Contents

Please check the package for the following items:

- 1 x vgate iCar Pro Bluetooth 4.0 OBDII Adapter
- 1 x User Manual

4. Setup Instructions

4.1. Device Installation

1. Locate your vehicle's 16-pin OBD-II port. This is typically found under the dashboard on the driver's side. Refer to your vehicle's owner's manual if you cannot locate it.
2. Plug the vgate iCar Pro device firmly into the OBD-II port. Ensure it is securely connected.
3. Turn your vehicle's ignition to the "ON" position (engine does not need to be running, but some functions may require it). The device's indicator lights should illuminate.



Figure 2: Illustration showing common OBD port locations (A, B, C, D, E) within a vehicle's interior. The exact position may vary by vehicle model. The image also indicates support for Android and iOS phones.

4.2. Smartphone/Tablet Connection (Android)

1. From your Android device's home screen, navigate to the **Settings** page.
2. Select **Bluetooth**.
3. Scan for available devices. You should see "V-Link" or "vgate" in the list.
4. Select "V-Link" to pair. The default password is "**1234**".
5. Once paired, open your preferred OBD-II application (e.g., Torque).
6. In the OBD-II application's settings, go to **OBD II Adapter Settings**.
7. Choose **Connection Type** > **Bluetooth**.
8. Select **Bluetooth Device** > **V-Link**.
9. Exit the application completely and then restart it. The application should now connect to the iCar Pro device.

4.3. Smartphone/Tablet Connection (iOS)

1. From your iOS device's home screen, navigate to the **Settings** page.
2. Tap on the **Bluetooth** function. (Note: The device name "V-Link" or "vgate" may not be visible in the iOS Bluetooth device list at this stage, which is normal for some OBD devices).
3. Open your preferred OBD-II application (e.g., Car Scanner ELM OBD2, OBD Fusion).
4. Go to the application's **Settings** page.
5. Select **Bluetooth** and initiate the connection from within the app.
6. Exit the application completely and then restart it. The application should now connect to the iCar Pro device.



Figure 3: Connection diagram illustrating the process: the iCar Pro connects to the vehicle's 16-pin port, then wirelessly communicates via Bluetooth with a smartphone running a diagnostic app. The diagram highlights ease of installation, connection, use, and report saving.

5. Operating the Device

Once connected to your smartphone/tablet via a compatible OBD-II application, the vgate iCar Pro allows you to access

various vehicle data and diagnostic functions. The specific features available will depend on the OBD-II application you use.

5.1. Key Functions

- **Read Diagnostic Trouble Codes (DTCs):** Retrieve generic and manufacturer-specific fault codes.
- **Clear Trouble Codes:** Erase DTCs and turn off the Malfunction Indicator Lamp (MIL - "Check Engine" light).
- **Real-Time Sensor Data:** View live data streams from various engine sensors, including:
    - Engine RPM
    - Calculated Load Value
    - Coolant Temperature
    - 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
    - And many more, depending on vehicle and app capabilities.
- **Freeze Frame Data:** View a snapshot of sensor readings at the moment a fault code was set.
- **I/M Readiness Status:** Check the status of emission-related monitors.

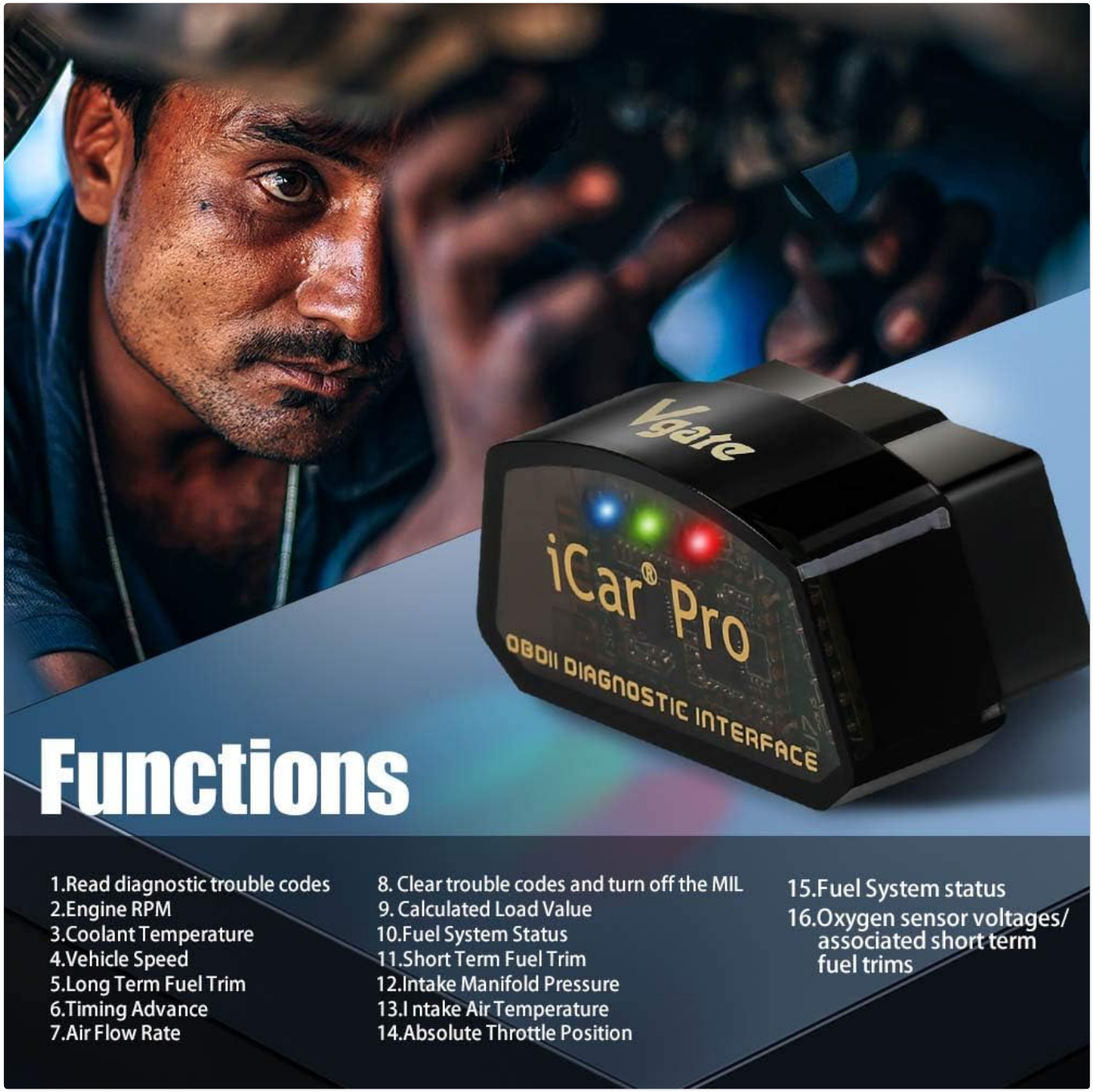


Figure 4: A visual representation of the key functions of the vgate iCar Pro, including reading diagnostic trouble codes, engine RPM, coolant temperature, vehicle speed, fuel trims, timing advance, air flow rate, clearing codes, calculated load value, intake manifold pressure, intake air temperature, absolute throttle position, fuel system status, and oxygen sensor voltages.



Figure 5: Examples of user interfaces from different OBD-II diagnostic applications, demonstrating dashboards, live data displays, module adaptations, vehicle selection, and settings menus. These screenshots illustrate the variety of data and controls available through compatible apps.

6. Maintenance

The vgate iCar Pro is designed to be a low-maintenance device. Follow these guidelines for optimal performance and longevity:

- **Cleaning:** Wipe the device with a soft, dry cloth if it becomes dirty. Do not use liquid cleaners or solvents.
- **Storage:** When not in use, store the device in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping the device or subjecting it to strong impacts.
- **Removal:** When removing the device from the OBD-II port, pull it straight out. Do not twist or yank it.

7. Troubleshooting

If you encounter issues with your vgate iCar Pro, try the following steps:

- **Device Not Powering On:**
  - Ensure the device is fully inserted into the OBD-II port.
  - Verify the vehicle's ignition is in the "ON" position.
  - Check your vehicle's OBD-II port for any damage or debris.
- **Cannot Pair via Bluetooth (Android):**
  - Ensure Bluetooth is enabled on your Android device.
  - Confirm you are selecting "V-Link" and entering the correct password "1234".
  - Try restarting both the iCar Pro (by unplugging and replugging) and your Android device.
- **Cannot Connect via App (iOS/Android):**
  - Ensure the iCar Pro is powered on and paired (Android) or Bluetooth is enabled (iOS).
  - Verify the correct Bluetooth device ("V-Link") is selected within your OBD-II application's settings.
  - Close and restart the OBD-II application completely.
  - Try a different compatible OBD-II application to rule out app-specific issues.
  - Ensure your vehicle is OBD-II compliant (refer to Section 2).
- **No Data or Incorrect Readings:**
  - Ensure the vehicle's ignition is on, and for some data, the engine may need to be running.
  - Confirm your vehicle is fully OBD-II compliant.
  - Some parameters may not be supported by all vehicles or applications.

8. Specifications

Power Supply Voltage	11.5 V - 15 V
Power Supply Current	< 200 mA
Standby Current	< 30 mA (iCar Pro = < 3 mA)
Operating Temperature	-40 °C to 85 °C (-40 °F to 185 °F)
Operating Humidity	5% - 95% RH (non-condensing)
Dimensions (L x W x H)	4.8 cm x 3 cm x 2.5 cm (1.88 in x 1.18 in x 0.98 in)



Figure 6: Detailed dimensions of the vgate iCar Pro device, showing its length (4.8 cm / 1.88 in), width (3 cm / 1.18 in), and height (2.5 cm / 0.98 in).

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official vgate website. Keep your proof of purchase for warranty claims.

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