Vgate iCar 3 WiFi

Vgate iCar 3 WiFi OBD2 Scanner User Manual

Model: iCar 3 WiFi

1. INTRODUCTION

The Vgate iCar 3 WiFi OBD2 Scanner is a compact diagnostic tool designed to connect to your vehicle's On-Board Diagnostics II (OBD2) port. It allows you to perform comprehensive computer diagnostics and monitor various vehicle parameters using your iOS or Android device via a Wi-Fi connection. This device supports auto-sleep mode to conserve car battery power.

Key features include:

- Full EOBD/OBD2 protocol support (CAN, KWP2000, ISO9141-2, J1850 VPW, J1850 PWM).
- Ability to read and clear diagnostic trouble codes (DTCs) for the check engine light.
- Display of real-time sensor data on your phone or tablet.
- Monitoring of car performance and various ECU data.
- Small, compact design for easy installation.
- High reliable WiFi connection.
- Super low power consumption (up to 10mA standby current).

2. SETUP GUIDE

Follow these steps to set up your Vgate iCar 3 WiFi OBD2 Scanner:

1. **Download Your Preferred App:** Search for compatible OBD2 diagnostic applications on your device's app store. Recommended apps for iOS include OBD Fusion, OBD Auto Doctor, Car Scanner. For Android, consider Torque, OBD Fusion, OBD Auto Doctor, or Car Scanner.

2. **Plug the Adapter into the Vehicle's OBDII Port:** Locate your vehicle's 16-pin OBDII diagnostic port, typically found under the dashboard on the driver's side. Firmly insert the Vgate iCar 3 adapter into this port. Once plugged in, start your vehicle's engine.

3. **Connect Your Phone via Wi-Fi:** On your iOS or Android device, go to your Wi-Fi settings. Look for a Wi-Fi network named "Vgate" or similar (e.g., "V-LINK"). Connect to this network. If prompted for a password, enter **1234**.

4. **Launch Your Preferred App:** Open the diagnostic application you downloaded. Within the app, select the Vgate adapter as your connection device. You can now begin diagnosing your vehicle.

Image: Quick Setup Guide illustrating the four steps: Download App, Plug into OBDII port, Connect via Wi-Fi, Launch App.

3. OPERATING INSTRUCTIONS

Once connected, the Vgate iCar 3 allows you to access various diagnostic functions through your chosen application:

- **Read Diagnostic Trouble Codes (DTCs):** View current, pending, and permanent diagnostic trouble codes that illuminate the Check Engine Light.
- **Clear Trouble Codes:** Erase DTCs and turn off the Malfunction Indicator Lamp (MIL) / Check Engine Light.
- **Display Current Sensor Data:** Monitor real-time operating performance data, including but not limited to:

  - 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 Pressure

- **Monitor Car Performance:** Access various ECU data to understand your vehicle's operational status.

Note: The specific parameters available depend on your vehicle manufacturer's implementation and the capabilities of the diagnostic app used.
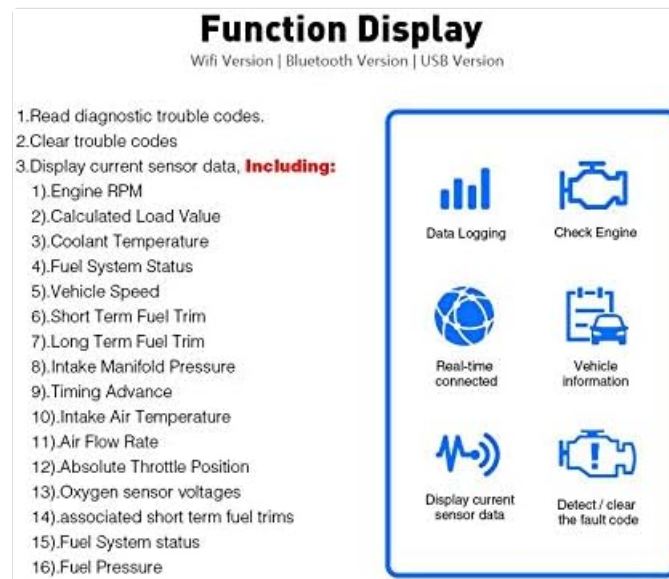

Image: Function Display illustrating various diagnostic capabilities such as data logging, checking engine status, real-time connectivity, vehicle information, sensor data display, and fault code management.

4. COMPATIBILITY

The Vgate iCar 3 WiFi OBD2 Scanner supports all five standard OBD2 protocols:

- ISO15765-4 (CAN)
- ISO14230-4 (KWP2000)
- ISO9141-2
- J1850 VPW
- J1850 PWM

General vehicle compatibility by region:

- **United States:** Vehicles manufactured from 1996 onwards.
- **European Union:** Vehicles manufactured from 2002 onwards.
- **Asian Union:** Vehicles manufactured from 2002 onwards.

Note: This device may not support some Hybrid or electric vehicles. It is also not applicable to heavy-duty diesel vehicles (e.g., semi-trucks, tractors) as they use different diagnostic protocols. Always verify your vehicle's compatibility with standard OBD2 protocols.

Image: Compatibility chart detailing supported OBDII protocols and regional vehicle manufacturing year ranges.

5. TROUBLESHOOTING

- **Device Not Connecting to Phone (Wi-Fi):**

  - Ensure the Vgate iCar 3 is firmly plugged into the OBDII port and your vehicle's engine is running.
  - Verify that your phone's Wi-Fi is enabled and you are connected to the correct Vgate network (e.g., "Vgate" or "V-LINK").
  - Confirm the Wi-Fi password is entered correctly (default is **1234**).
  - Try restarting your phone and the diagnostic app.
  - Ensure your phone's operating system is up to date.

- **App Not Displaying Data or Connecting to Adapter:**

  - Make sure the app is compatible with the Vgate iCar 3 WiFi adapter.
  - Within the app settings, confirm that the correct connection type (Wi-Fi) and adapter are selected.
  - Close and reopen the app.
  - Check if the app requires any specific permissions on your device.

- **No Data for Certain Parameters:**

- Not all vehicles support all OBD2 parameters. The availability of data depends on your vehicle's ECU and manufacturer's implementation.
- Consult your vehicle's manual or an online resource for supported OBD2 PIDs (Parameter IDs).

- **Intermittent Connection:**

  - Ensure there are no strong Wi-Fi interference sources nearby.
  - Try using the device in an open area away from garages or structures that might block signals.

6. SPECIFICATIONS

Feature	Specification
Product Dimensions	4.72 x 2.76 x 1.46 inches
Item Weight	0.64 ounces
Connection Type	Wi-Fi
Supported Operating Systems	Android, iOS
Power Source	Vehicle OBD2 Port (Adapter)
Supported Protocols	CAN, KWP2000, ISO9141-2, J1850 VPW, J1850 PWM
Standby Current	Up to 10mA
Model Number	Wi-Fi for iOS iPhone iPad/Android
UPC	612677391628

7. FIRMWARE UPGRADE

The Vgate iCar 3 WiFi OBD2 Scanner supports firmware upgrades. For instructions and assistance with updating the device firmware, please contact the Vgatemall support team.

8. SUPPORT

For any questions, technical support, or warranty inquiries regarding your Vgate iCar 3 WiFi OBD2 Scanner, please contact the Vgatemall customer service team. They are available to assist with product issues and provide guidance.