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- › [Vgate](#) /
- › [Vgate iCar Pro 2S Bluetooth OBD2 Scanner Instruction Manual](#)

### Vgate iCar Pro 2S

# Vgate iCar Pro 2S Bluetooth OBD2 Scanner Instruction Manual

Model: iCar Pro 2S

## 1. INTRODUCTION

The Vgate iCar Pro 2S is a compact Bluetooth OBD2 scanner designed to provide vehicle diagnostic information. It is compatible with Android, iOS, and Windows operating systems, allowing users to read error codes, monitor engine parameters, and perform various diagnostic functions through a compatible third-party application.



Image 1.1: The Vgate iCar Pro 2S device next to its product box.

## 2. PRODUCT FEATURES

- **Multi-System Compatibility:** Supports Android, iOS, and Windows operating systems (Wi-Fi not supported).
- **User-Friendly Design:** Suitable for both novice and experienced users for reading error codes, checking engine RPM, oil temperature, and other vehicle data.
- **Efficient Bluetooth Transmission:** Utilizes upgraded dual BT3.0 and BLE4.0 modules for faster data transfer on Android 5.1 and above.
- **New Generation Upgrades:** Includes remote wake-up and auto-sleep functions for electric and hybrid vehicles, enhancing data flow and power management.
- **Broad Vehicle Compatibility:** Works with standard OBD2 protocols for 12V fuel and diesel vehicles from 1998 onwards, and hybrid models from 2001 onwards.



Image 2.1: The Vgate iCar Pro 2S device with dimensions: 3.31 inches length, 3.23 inches width, 1.54 inches height.

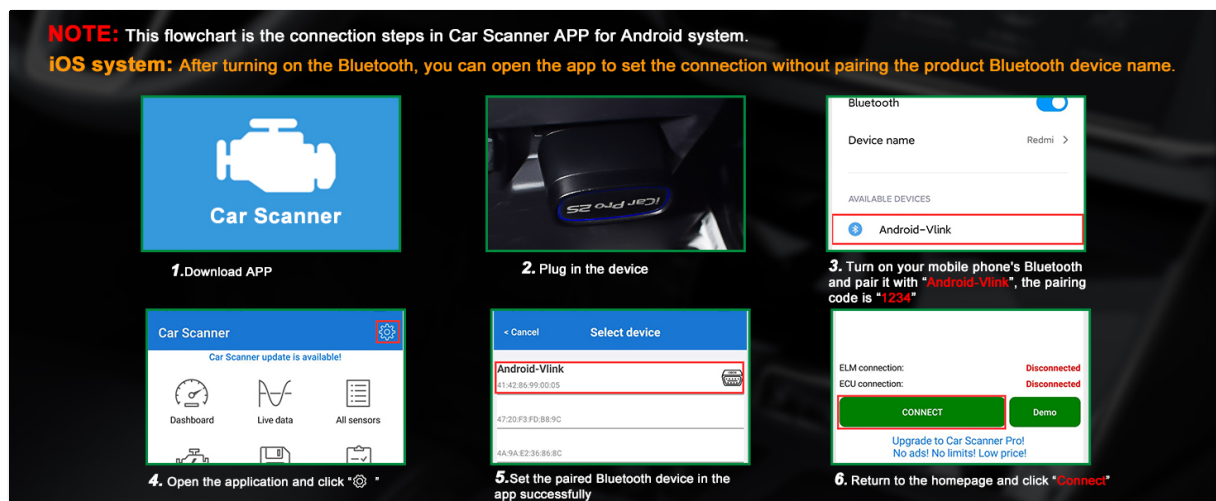


Image 2.2: LED Indicator Description. Before successful connection, blue and green lights blink slowly. After successful connection, blue and purple lights blink rapidly.

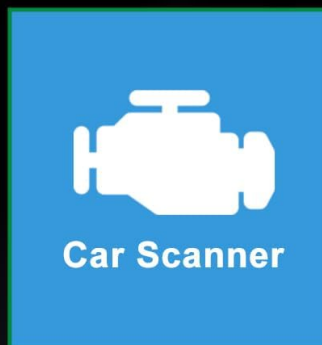
### 3. SETUP INSTRUCTIONS

Follow these steps to set up your Vgate iCar Pro 2S device:

- 1. Download a Compatible App:** The Vgate iCar Pro 2S requires a third-party OBD2 application. Recommended apps include Car Scanner, Dr.Prius, OBD JScan, BimmerLink, and Torque (Android only). Please note that some app features or the apps themselves may require an additional fee.
- 2. Plug in the Device:** Locate your vehicle's OBD2 port, typically under the dashboard on the driver's side. Plug the Vgate iCar Pro 2S device firmly into the port. The device's LED indicators will begin to blink.
- 3. Start Your Vehicle's Engine:** Ensure the vehicle's engine is running to provide power to the OBD2 scanner and allow for data communication.
- 4. Connect via Bluetooth:**
  - For Android:** Turn on your phone's Bluetooth. Open the chosen OBD2 app and navigate to its connection settings. Select "Android-Vlink" from the available devices. The pairing code is typically "1234". Once paired, return to the app's homepage and click "Connect".
  - For iOS:** No Bluetooth pairing is required in iOS settings. Simply turn on Bluetooth, open the chosen OBD2 app, and connect directly within the app.

**NOTE:** This flowchart is the connection steps in Car Scanner APP for Android system.

**iOS system:** After turning on the Bluetooth, you can open the app to set the connection without pairing the product Bluetooth device name.



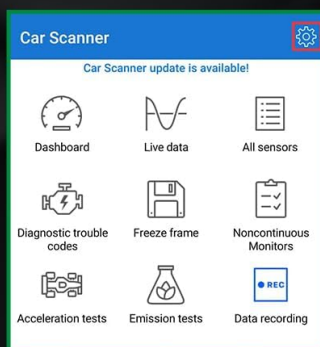
1. Download APP



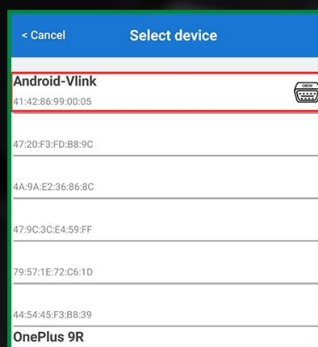
2. Plug in the device



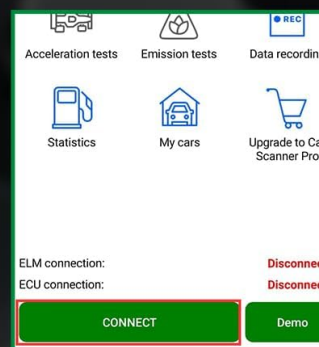
3. Turn on your mobile phone's Bluetooth and pair it with "Android-Vlink", the pairing code is "1234"



4. Open the application and click "Settings"



5. Set the paired Bluetooth device in the app successfully



6. Return to the homepage and click "Connect"

Image 3.1: Visual guide for Android connection: 1. Download app, 2. Plug in device, 3. Turn on Bluetooth and pair with "Android-Vlink" (code "1234"), 4. Open app and click settings, 5. Select paired Bluetooth device, 6. Return to homepage and click "Connect".

Your browser does not support the video tag.

Video 3.1: An unboxing and initial setup demonstration of the Vgate iCar Pro 2S Bluetooth OBD2 Scanner, showing the device and its connection to a vehicle's OBD2 port.

## 4. OPERATING INSTRUCTIONS

Once connected, the Vgate iCar Pro 2S works in conjunction with your chosen third-party application to provide vehicle diagnostics. The specific functions and interface will vary by app, but common operations include:

- **Reading and Clearing Trouble Codes:** Access Diagnostic Trouble Codes (DTCs) to understand engine issues and clear them after repairs.
- **Live Data Monitoring:** View real-time sensor data such as engine RPM, coolant temperature, fuel system status, vehicle speed, and more.
- **Freeze Frame Data:** Capture a snapshot of vehicle conditions at the moment a fault code was triggered.
- **I/M Readiness Status:** Check the status of emission-related monitoring systems to ensure your vehicle is ready for an emissions test.
- **Vehicle Information:** Retrieve vehicle identification number (VIN), calibration ID, and calibration verification numbers (CVN).

Refer to your specific third-party application's user guide for detailed instructions on utilizing its features.



Image 4.1: Example of a compatible app interface displaying diagnostic options such as Dashboard, Live Data, Diagnostic Trouble Codes, and Emission Tests.





Image 4.2: The Vgate iCar Pro 2S supports all system diagnostics, including Steering Angle Sensor (SAS), Battery Management System (BMS), Anti-lock Braking System (ABS), and Air Conditioning.

## 5. FIRMWARE UPGRADE

To ensure optimal performance and access to the latest features, it is recommended to keep your Vgate iCar Pro 2S firmware updated. Use the "VgateFwUpdater" application for this process.

1. **Download the App:** Scan the QR code provided in the manual or visit the official Vgate website to download the "VgateFwUpdater" app.
2. **Connect the Device:** Plug the iCar Pro 2S into your vehicle's OBD2 port and ensure the vehicle is powered on.
3. **Open Updater App:** Launch the "VgateFwUpdater" app on your smartphone.
4. **Auto Connect:** Click "Auto connect" within the app.
5. **Download Firmware:** If an update is available, click "Download".
6. **Wait for Completion:** The app will guide you through the update process. Do not disconnect the device or close the app until the upgrade is successful.

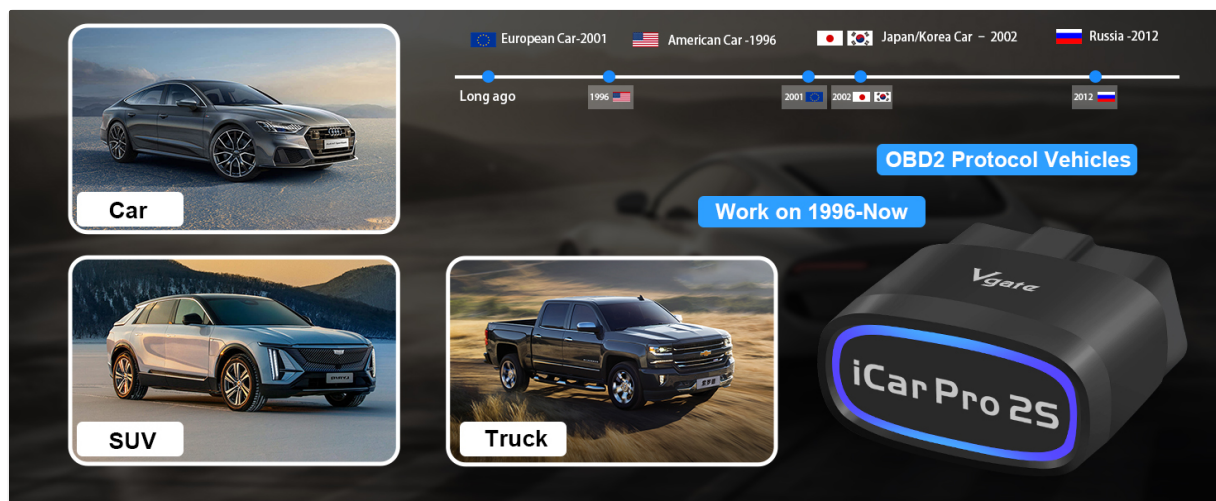


Image 5.1: Firmware upgrade process: Scan QR code for VgateFwUpdater, open app and click "Auto connect", click "Download" for available firmware, and wait for successful upgrade.

Relevant link for VgateFwUpdater: <https://qr19.cn/AHqPd5>

## 6. MAINTENANCE

The Vgate iCar Pro 2S is designed for low maintenance. Keep the device clean and free from dust and moisture. Store it in a cool, dry place when not in use. The device features an auto-sleep function to prevent draining your vehicle's battery when left plugged in, ensuring efficient power management.

## 7. TROUBLESHOOTING

- **Device Not Powering On:** Ensure the device is firmly plugged into the OBD2 port and the vehicle's ignition is on or the engine is running. Check for any debris in the OBD2 port.
- **Connection Issues (Android):**
  - Verify Bluetooth is enabled on your device.
  - Ensure you are pairing with "Android-Vlink" and using the correct pairing code "1234".
  - Try restarting your phone and the vehicle.
  - Confirm the OBD2 app has Bluetooth permissions enabled.
- **Connection Issues (iOS):**
  - Ensure Bluetooth is enabled on your device.
  - Remember that iOS devices connect directly within the app; no prior pairing in iOS settings is needed.
  - Try restarting your iPhone and the vehicle.
- **App Not Displaying Data:**
  - Confirm the device is successfully connected to the app.
  - Ensure your vehicle is OBD2 compliant (1996 or newer for US, 2001 for European gasoline, 2004 for European diesel, 2008 for Japanese/Korean).
  - Some advanced features may require a paid version of the third-party app.
- **Inaccurate Readings:** Ensure the app is correctly configured for your vehicle type if such options are available.

## 8. SPECIFICATIONS

<b>Brand</b>	Vgate
<b>Model</b>	iCar Pro 2S
<b>Connectivity</b>	Bluetooth (BT3.0 & BLE4.0)
<b>Operating System Compatibility</b>	Android, iOS, Windows
<b>Power Source</b>	Vehicle Battery (12V)
<b>Dimensions</b>	3.31"L x 3.23"W x 1.54"H
<b>Item Weight</b>	2.82 ounces
<b>Supported Protocols</b>	Standard OBD2 protocols
<b>Vehicle Compatibility</b>	12V fuel/diesel vehicles from 1998 onwards; hybrid models from 2001 onwards. (Not for 24V diesel cars)

## 9. WARRANTY AND SUPPORT

The Vgate iCar Pro 2S comes with a one-year warranty. For any questions or issues, please contact the VgateDirect after-sales service team. They are committed to providing hassle-free support. Contact information can typically be found on the VgateDirect store page or through the product packaging.







Image 9.1: Vgate offers a one-year warranty and 24-hour after-sales service for customer support.

## Related Documents - iCar Pro 2S

	<a href="#">Vgate iCar Pro BLE 4.0 Quick Start Guide for iOS &amp; Android</a> Get started quickly with your Vgate iCar Pro BLE 4.0 OBD-II scanner. This guide covers vehicle compliance, app installation, Bluetooth pairing for iOS and Android, supported OBD parameters, and troubleshooting for your automotive diagnostic tool.
	<a href="#">Vgate iCar Pro BLE 4.0 OBD2 Scanner Quick Start Guide</a> A comprehensive guide to setting up and using the Vgate iCar Pro BLE 4.0 OBD2 scanner with iOS and Android devices, including troubleshooting and supported OBDII protocols.



<div><div><div>Vgate iCar OBD II Adapter</div><div>Vgate iCar OBDII INTERFACE</div><div>User Manual</div><div>2015-10-10 v1.00</div></div><div><p>Thanks for using the product. Please read the content carefully before using.</p><p>This manual guides the user to use the Vgate iCar OBDII adapter. Please read the manual in the first page before using the product.</p><p>1. Introduction</p><p>Vgate iCar OBDII adapter is a powerful and integrated tool developed by Vgate Technology Co., Ltd. It is compatible with all OBDII (ISO 15705) and Bluetooth wireless communication modules to connect your smartphone or tablet to the vehicle's on-board diagnostic (OBD) system. It can support the real-time data and report data, such as engine status, vehicle data, fuel, oil, water temperature, fan, transmission, it supports a variety of OBDII inputs.</p></div><div></div></div>	<p><a href="#">Vgate iCar OBD II Adapter User Manual - Diagnostic Tool Guide</a></p> <p>Comprehensive user manual for the Vgate iCar OBD II Adapter, detailing its features, specifications, supported protocols, setup guide, and warnings for car diagnostics.</p>
<div></div>	<p><a href="#">Vgate iCar Pro Wi-Fi Quick Start Guide: Connecting and Using OBD Auto Doctor</a></p> <p>A comprehensive guide to setting up and using the Vgate iCar Pro Wi-Fi OBD2 scanner with the OBD Auto Doctor app on both iOS and Android devices. Learn about pairing, connectivity settings, supported parameters, and troubleshooting.</p>
<div></div>	<p><a href="#">Vgate iCar Pro BT3.0 Quick Start Guide for Android</a></p> <p>Get started quickly with your Vgate iCar Pro BT3.0 OBD-II scanner for Android. This guide covers vehicle compliance, supported protocols, app setup, pairing, troubleshooting, and understanding diagnostic codes.</p>
<div></div>	<p><a href="#">Vgate iCar Pro BLE 4.0 Quick Start Guide and User Information</a></p> <p>A comprehensive guide to setting up and using the Vgate iCar Pro BLE 4.0 with iOS and Android devices, including troubleshooting and OBDII protocol information.</p>