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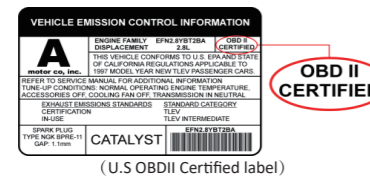
Vgate iCar Pro 2S



Quick Start Guide
iOS & Android

How do I know whether my vehicle is OBDII compliant?

1996 or newer model year vehicle sold in the United States. United States legislation requires all cars and light trucks model year (MY) 1996 and newer to be OBD2 compliant.
2001 or newer model year gasoline vehicle sold in the European Union. 2004 or newer model year diesel vehicle sold in the European Union



What OBDII Protocols does iCar Pro 2S support?

- ✓ SAE J1850 PWM
- ✓ SAE J1850 VPW
- ✓ ISO 14230-4 KWP
- ✓ ISO 15765-4 CAN
- ✓ ISO 9141-2

What is the best OBDII app works great with iCar Pro 2S?

We recommend OBD AUTO DOCTOR app. iCar Pro series are well tested with this app. Scan below QR Code to get the APP (in-app upgrade to Pro)



1. Install OBDII App on your Phone Pad

- 1.1 Download OBD II app and install <Android>
✓ Download 3rd party apps from App store
✓ The App developer tested and recommended iCar Pro 2S



- 1.2 Download OBD II app and install <Android>
✓ Torque Lite < Most popular. Lite version is free>
✓ OBD Auto Doctor < Excellent app, Upgrade to Pro in-app >
✓ OBD Fusion <Excellent 3rd party app>



2. Plug iCar Pro 2S adapter to DLC (OBDII Diagnostic Link Connector)

The OBDII DLC is usually located under instrument panel (Dash) on the driver side.

If you want to know more about DLC, Please visit : [https://en.wikipedia.org/wiki/Data_link_connector_\(automotive\)](https://en.wikipedia.org/wiki/Data_link_connector_(automotive))



3. Turn vehicle ignition to Key On, Engine Off position



Automatically OBD device wake up and Super Power Saving on iCar Pro series

✓ Allow the user to leave the iCar Pro in OBD Socket without unplug and plug operation .Super low power consumption <sleep mode> is low to "3mA" level.

4. How to pair iCar Pro 2S to your device (use OBD Auto Doctor)

- 4.1 Pair iCar Pro 2S to iOS device
Step 1:
Enable Bluetooth on your iPhone .
Get ready to pair with device .
*IMPORTANT NOTE:
Can not see Bluetooth device name in iPhone?

Don't worry. This device only require to configure Bluetooth device name in the OBD app setting. Just enable Bluetooth button on the iOS device and continue to the OBD app setting in step2

ONLY iOS supported Bluetooth profiles can show device name. Bluetooth technology isn't apply for the supported Bluetooth profiles from iOS. So user can not find iCar Pro 2S Bluetooth device name.
For iOS supported Bluetooth profiles, please refer check this page: <https://support.apple.com/en-us/HT204387>

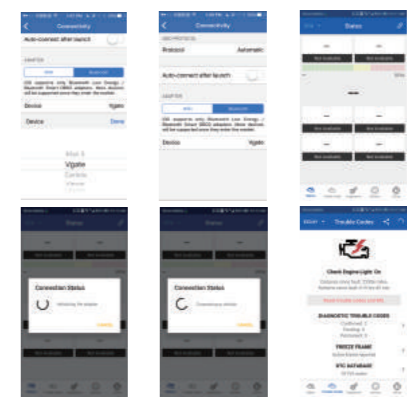
- Step 2: Configure connectivity setting on the OBD Auto Doctor
✓ Run OBD Auto Doctor app
✓ Tap Extras button on the Status page
✓ Tap Connectivity in the setting menu to select connection type
✓ Select adapter type to Bluetooth
✓ Select device as Vgate
✓ Back to Status page, Click Start connect

Initial adapter and connecting to vehicle.

✓ Connected. All LED indicators lights on while sync data from vehicle



IMPORTANT NOTE:
Different OBD II app has different Bluetooth setting steps. Please follow the steps on the app to configure the setting.

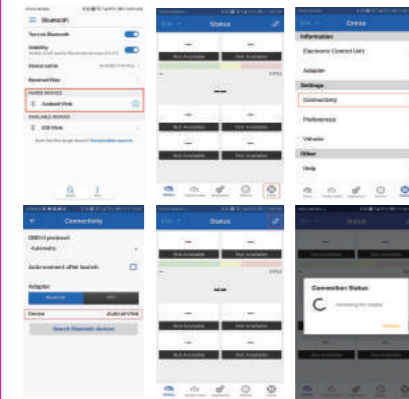
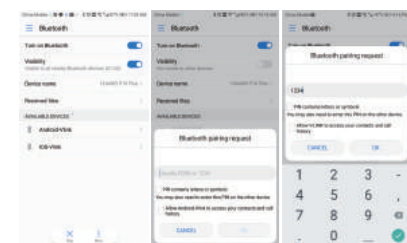


4.2 Pair iCar Pro 2S to Android device

- Step 1:
✓ Enable Bluetooth on your Android Phone or Pad.
✓ Turn on Bluetooth, Enable visibility
✓ Select device name as "Android-Vlink" to pair. Enter password "1234"
✓ Get Paired
- Step 2: Configure connectivity setting on the OBD Auto Doctor
✓ Run OBD Auto Doctor app
✓ Tap Extras button on the Status page
✓ Tap Connectivity in the setting menu to select connection type
✓ Select adapter type to Bluetooth
✓ Search Bluetooth device
✓ Select "Android-Vlink"
✓ Back to Status page, click Start connect

Initial adapter and connecting to vehicle.

✓ Connected. All LED indicators lights on while sync data from vehicle



5. What parameters and sensors does iCar Pro 2S support?

iCar Pro 2S supports the standard OBDII parameters (PIDs) as defined in SAE J1979 AUG2014(OBD AUTO DOCTOR app) .The actual list of available parameters is vehicle specific. Your vehicle must have those sensors to work with app. Different OBDII app might support different list of parameters and sensors. Please refer to : <https://www.obdautodoctor.com/obd-parameters>

- Supported Parameters (NOT FULL LIST):
- PID Sensors
 - \$01 Monitor status since DTCs Cleared
 - \$02 DTC that caused required freeze frame data storage
 - \$03 Fuel system status
 - \$04 Calculated load value
 - \$05 Engine coolant temperature
 - \$06, \$08 Short term fuel trim
 - \$7, \$9 Long term fuel trim
 - \$10 Air flow rate from mass air flow sensor
 - \$11 Absolute throttle position
 -
 - \$0A Fuel pressure
 - \$0B Intake manifold absolute pressure
 - \$0C Engine RPM
 - \$0D Vehicle speed sensor
 - \$0E Ignition timing advance for #1 Cylinder
 - \$0F Intake air temperature

6. How to read and understand OBD Codes ?

P0123

Throttle Position Sensor/Switch A Circuit High Input

P- Powertrain (Engine & Transmission/Gearbox)
0- Generic OBD Code
1- Fuel & Air metering
2 & 3 - Fault description: Throttle Position Sensor (TPS) / Switch A Circuit High Input
(When the PCM sees a voltage that is higher than the normal upper limit, P0123 will set) . User can internet the OBD Code meaning and know the possible causes)

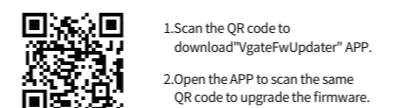


Product Upgrade(PC):

<http://www.vgatemail.com/downloadcenter>

To upgrade the product, please download the upgrade package and user manual of the corresponding model.

Product Upgrade(MobilePhone):



1. Scan the QR code to download "VgateFwUpdater" APP.
2. Open the APP to scan the same QR code to upgrade the firmware.

Vgate Forums:

<https://forum.vgatemail.com>

FCC Warning:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

ISED Warning:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.
L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.
(1) L'appareil ne doit pas produire de brouillage;
(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
Cet émetteur ne doit pas être colocalisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

The device meets the exemption from the routine evaluation limits in section 2.5 of RSS-102 and compliance with RSS-102 RF exposure, users can obtain Canadian information on RF exposure and compliance. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.
Le dispositif rencontre l'exemption des limites courantes d'évaluation dans la section 2.5 de RSS-102 et la conformité à l'exposition de RSS-102 rf, utilisateurs peuvent obtenir l'information canadienne sur l'exposition et la conformité de rf.
Cet émetteur ne doit pas être Co-placé ou ne fonctionnant en même temps qu'aucune autre antenne ou émetteur. Cet équipement devrait être installé et actionné avec une distance minimum de 20 centimètres entre le radiateur et votre corps.