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Advancer Smart OBD Dongle

Start your smart OBD life

FCC ID : 2AW3IAD20

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**Product Description** 

Advancer Smart OBD Dongle (AD20/AD20 Pro) is a smart diagnosis terminal that communicates with your Android/iOS devices via BT 5.0. With the Advancer app, AD20 provides services like vehicle health check, diagnosis, driving habits analysis for car owners.

Main Functions

1) OBD-II Diagnosis

Advancer AD20 can read and categorize the fault codes (DTCs) that storage inside the vehicle ECU via standard OBD-II protocols.

2) In-depth Check

In-depth check function allows you to do thorough check on vehicle systems like engine, powertrain, brakes, steering, safety, infotainment and so on, which helps owners to know the health condition of the car clearly and provide safe and comfortable driving experience on travels. Note: In-depth check on all systems is only supported on AD20 Pro; AD20 supports in-depth check on engine only.

3) Live Data

When the car is started, Advancer will provide and demonstrate detailed vehicle status like battery voltage, engine revolution speed, coolant temperature, engine load, fuel trimming and so on. This will help you to get the real-time working conditions of the car.

4) Maintenance Light Reset

Reset the maintenance counter and turn off the maintenance light after finishing maintenance. For your driving safety, make sure you have followed the manual when doing maintenance to your own car.

Note: Maintenance light is a reminder set by car manufacturer, which reminds drivers to do maintenances when needed. When the reminder is on, the car will show info on the dashboard screen, or simply shows a light.

5) Trip Recorder

When driving, Advancer will record the index like average speed, fuel consumption, mileage, max engine revolution speed, max coolant temperature and shows them on the app. This will help you to know vehicle status and fuel consumption info on the entire trip.

6) Driving Habits Monitor

With the G-sensors inside Advancer, all the sharp turns, emergency brakes and sudden accelerations will be recorded and shown on the app after analyzed. This function will provide data support if you are willing to improve your driving skills.

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## Specifications

Items	Specifications
Processor	ARM Cortex-M4
Bluetooth	BLE 5.0
Supported	ISO15765-4 CAN (11bit ID, 500Kbaud)
Protocols	ISO15765-4 CAN (29bit ID, 500Kbaud)
	ISO15765-4 CAN (11bit ID, 250Kbaud)
	ISO15765-4 CAN (29bit ID, 250Kbaud)
	ISO9141-2 (5 baud init, 10.4Kbaud)
	ISO14230-4 KWP (5 baud init, 10.4Kbaud)
	ISO14230-4 KWP (fast init, 10.4Kbaud)
	SAE J1850 PWM (41.6Kbaud)
	SAE J1850 VPW (10.4Kbaud)
Working	DC 9~16V

Voltage	
Working	100mA@12V
Current	
Sleeping	10mA@12V
Current	
Working	-20~60°C
Temperature	

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Scan this QR Code or search "Advancer" on Play Store/App Store:

Shenzhen Xtooltech Intelligent Co., Ltd.

Add: 17&18/F, A2 Building, Creative City, Liuxian Avenue, Nansha

n District, Shenzhen, China

Website: www.xtooltech.com

Customer Support: <a href="mailto:supporting@xtooltech.com">support: supporting@xtooltech.com</a>

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How to Use

 Turn on Bluetooth, click "Advancer" app, sign up (or log in your account), and click "Activate Device".

- Scan the QR Code on the device, follow the steps on the app and insert your AD20 into the OBD-II port, then turn on the engine.
- The Advancer will automatically collect the basic info of the vehicle. Please make sure the info is correct and click "OK" to finish activation.

Note: Sometimes when detecting vehicles, the info may not be correct, or the info could be missing. If this happened, please correct it manually.

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FAQ

1) Does AD20 support my car?

Advancer AD20 supports all vehicles that use standard OBD-II protocols.

2) Can AD20 plugged inside the vehicle all the time?

Yes, in daily driving conditions, Advancer AD20 won't cause battery drain out or damage. Advancer AD20 supports low-power BLE 5.0 which automatically sleeps after the car is turned off for 3 minutes. It will be turned on again when the car is turned on.

3) Why can't I connect to my AD20?

- Click "Advancer" app will let the phone automatically connect to the device so you don't need to find it again in phone settings.
- Please make sure "Advancer" is allowed to turn on Bluetooth, get location info, and get access to device storage.
- Make sure that the AD20 is attached firmly to the OBD-II port.
- 4. Make sure that you are using the app from reliable sources and has already been in latest version.
- 4) Why can't I communicate with the vehicle?
  - 1. Make sure the engine has been turned on and is in idle;
  - Please check the brand and model that registered inside the Advancer app is correct.
- 5) How can I do when the device cannot sign up or log in? Please check the network on your phone and the account info is correct. If both those are checked but problem still happens, please contact customer support.
- 6) Why the fault codes couldn't be cleared, or just appears again after cleared?

 When clearing codes, please refers to the actual situations to the fault. Usually there are sporadic codes and actual codes:

Sporadic codes: Normally this happens when the component works abnormally in some points, probably because of electromagnetic interference, vibration, poor contact with the wiring and so on. Those codes could be cleared directly.

Actual codes: This happens when there are components that are actually failed. Before clearing those codes, make sure that you have fixed the issue. If the fault lights are on again after clearing codes, that means the faults are not fully fixed - further inspections are needed in those cases.

- 7) Why there is no lights shown on my dashboard but AD20 scanned that there are DTC codes present?
  - Not all the DTC codes will trigger the fault lights on the dashboard - the manufacturer will decide which fault will trigger the light and which don't.
  - The ECU may still not fully decide if this is a fault yet.
    Maybe there are electromagnetic interference or vibration that misleads the ECU. Normally in those cases, the ECU

will decide if this is an actual fault after running for several cycles.

8) Why there are fault lights on my car, but the Advancer cannot find any DTC codes?

Please make sure that the Advancer supports checking current fault codes:

AD20: OBDII Standard fault codes & Engine in-depth check AD20 Pro: OBDII Standard fault codes & All system in-depth check

e.g.: The ABS light turned on in the dashboard. AD20 cannot show the specific fault code but AD20 Pro can.

9) Why the fault light turned on when doing diagnosis?

When performing diagnosis, some ECUs will get into diagnosis mode and corresponding fault light will turn on. The light will turn of automatically when the process is over and it is normal, please don't worry. 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: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the user's authority to operate the equipment.

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. harmful interference to radio may cause 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.

**RF** Exposure statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.