VCX-SE

instructions

VCX
SE

Fn

VXDIAG

general information

⚠️ Please carefully review the product manual and operate the product strictly according to the manual.

Welcome to use

Thank you for choosing the diagnostic product from Shenzhen Allscanner Technology Co., Ltd. This manual is a user manual for automotive diagnostic equipment and is provided to users together with the product.

This manual describes important information such as product information, hardware connections, software installation, and usage methods. Please read this manual carefully before using the product for the first time. This manual only explains the operation and usage of the product. For specific vehicle maintenance and diagnosis, please refer to the original vehicle maintenance manual.

Due to product updates and upgrades, Shenzhen Allscanner Technology Co., Ltd. reserves the right to change the content of this manual without prior notice to the user.

Limited Liability

Allscanner does not warrant that the use of this product will be uninterrupted or error free. In no event shall Allscanner be liable for any direct, indirect, special, incidental or consequential damages (including lost profits), whether based on warranty, contract, tort or any other theory of law.

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VXDIAG It is a registered trademark of Shenzhen Allscanner Technology Co., Ltd.

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Product Introduction

Product Overview

VCX-SE is the latest generation of diagnostic equipment launched by Allscanner for remote diagnostic platforms. The hardware design with ultra-high integration can fully adapt to various original diagnostic software, supporting not only local diagnosis but also super remote diagnosis.

Dual mode intelligent remote diagnosis

- Super remote diagnosis only requires device networking to achieve original factory online diagnosis
- Compatible with remote diagnosis, it can support remote diagnosis of various special function devices
- The device can be quickly connected to a remote diagnostic platform with one click distribution network

One device supports multiple original vehicle diagnostics

- The hardware is updated synchronously with the VCI of the major original factories, and it fully supports the new models and new original software based on doip Ethernet diagnosis.
- Realize the original factory level diagnostic function of major brand car models in the world, and one device can replace many expensive OEM devices
- Various advanced diagnostic and programming functions are completely consistent with the original factory, and the performance even exceeds that of the original factory
- One click installation of original factory supported drivers and online upgrades, easy to use

Ultra high integration vehicle diagnostic interface

- High performance dual core processors working together: one DoIP network processor and one vehicle bus processor
- Supports 3-channel CAN BUS, 2-channel K-Line/L-Line, achieving high-speed concurrent communication with multiple protocols
- Innovative OBD-II multi-channel communication hardware that supports intelligent switching between traditional buses and DoIP networks
- Support mapping vehicle DoIP Ethernet to WLAN for wireless Ethernet diagnosis
- The host communication interface supports multiple interfaces such as USB/RJ45/WLAN, which are flexible and easy to use
- Portable design with integrated OD-II interface for plug and play functionality
- The USB-Type-C interface with reinforced design can be stably plugged and unplugged

Designed to meet automotive industry standards

- SAE-J2534-1/2 Pass-Thru with EURO 5
- ISO-22900 MVCI & D-PDU
- ISO-13400 DoIP

J2534 original factory level ECU programming function

- ECU software upgrade and calibration
- ECU replacement, flashing and programming

Optional support for original vehicle diagnostic functions

Brand		Vehicle model	Original diagnostic software	support
	BENZ	Maybach Smart, FUSO	XENTRY Diagnosis & DAS & DTS	✓
	BMW	BMW, Rolls Royce MINI	ISTA-D/P & E-Sys & INPA	✓
	VW	Volkswagen, SEAT, Skoda, Bentley, Lamborghini	ODIS & ODIS-Engineer	✓
	AUDI	Audi	ODIS & ODIS-Engineer	✓
	PORSCHE	Porsche	PIWIS-2	✓
	PT3G	Porsche 3	PIWIS-3	✓
	JLR	Jaguar, Land Rover	JLR SDD	✓
	JLR	Jaguar, Land Rover	JLR SDD	✓
	VOLVO	VOLVO	Volvo VIDA	✓
	GM	Chevrolet, Buick, Cadillac, Opel, Holden	GM GDS2 & Tech2Win & RDS	✓
	FORD	FORD	FORD IDS	✓
	MAZDA	MAZDA	MAZDA IDS	✓
	TOYOTA	Toyota, Lexus, Scion	TOYOTA Techstream TIS	✓
	HONDA	Honda, Acura	HONDA Diagnostic System HDS	✓
	SUBARU	SUBARU	Select Monitor SSM3/SSM4	✓
	NISSAN	Nissan, Infiniti	Consult-III Plus	✓
	RENAULT	Renault, Dacia	Renault CAN Clip	✓
	PSA	Peugeot Citroen	PSA Diagbox	✓

⚠ **The original software copyright belongs to its owner, please purchase authorized genuine software!**

technical specifications

ALLScanner

	Item	Describe
	Network processor	32bit 560MHz MIPS processor 32MB FLASH
	Protocol processor	32bit 180MHz ARM processor 1MB FLASH
	Diagnostic interface(vehicle)	SAE-J1962 standard OBD-II diagnostic interface
	DoIP interface (vehicle)	ISO-13400-4 Option1/2 Ethernet
	Wired interface (PC)	USB TYPE-C
	Network Interface (PC)	USB TYPE-C to RJ-45 Ethernet
	Wireless interface (PC)	WLAN 802.11 b/g/n wireless network
	KEY	Fn function key: Press and hold for 3 seconds to enter Distribution network mode
	Lights	Power, wireless, communication, vehicle,
	Power	Vehicle power supply: DC 9V -36V (compatible with 12V and 24V)
	Power consumption	2W
	Size	L x W x H = 140 x 50 x 25 (mm)
	Weight	Equipment weight:: 0.3Kg Packaging weight: 0.8Kg
	Shell	Reinforced plastic shell
	Operation temperature	-20~+70°C
	Storage temperature	-40~+85°C
	Standard certification	EU: CE US: FCC

LED LIGHTS

⏻	Equipment working status (Red)	Breathing flickers when starting normally Flash quickly during hardware failure
📶	Wireless network status (Blue)	Fast blinking during wireless communication Slow flashing during wireless distribution network
💻	Host communication status (Blue)	Flashing red during USB communication Flashing blue for LAN communication
🚗	Vehicle communication status (Red)	Flashing red for legacy protocol Blue flashing for DoIP protocol

Supported vehicle bus protocols

🚙	🚚
ISO-13400 DoIP	VAG TP16 CAN
ISO-9141 K-Line	VAG KW81 (SAE J2818)
ISO-14230 K-Line	SAE-J2610 SCI (Chrysler)
ISO-17987 LIN BUS	SAE-J1567 CCD BUS (Chrysler)
ISO-15765 CAN	SAE-J2740 GM ALDL
SAE-J1850-VPW (GM Class2)	SAE-J2809 HONDA DIAG-H
SAE-J1850-PWM (FORD SCP)	NISSAN DDL UART with CLOCK
ISO-11898-2 DWCAN	BMW DS2
ISO-11898-3 DWFTCAN	FORD UBP
SAE-J2411 SWCAN (GMLAN)	BENZ KWFB
VAG TP20 CAN (SAE-J2819)	BENZ MB-ISO

Accessories

|	Describe	Specifications
	VCX-SE	140 x 50 x 25 (mm)
	USB communication cable	USB-C to USB-A, 1.5 meters
	RJ45 conversion interface	USB-C to RJ45 Ethernet port, 0.2 meters
	User's Manual	
	Warranty card	
	Box	300 x 200 x 80 (mm)

Software installation

Get installation program

Before starting car diagnosis with the device, the VX Manager management tool and driver must be installed on the PC, which is included in the product CD-ROM or you can download the latest version of the installation program through the following link:

http://www.allscanner.com

http://www.vxdiag.net/#download
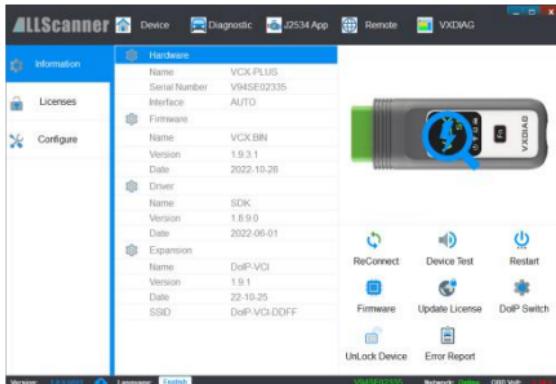
## Software installation requirements

- Processor: 1.6 GHz or faster.
- Memory: DDR 4GB or above.
- Hard drive: 80GB or above.
- Network interface: LAN 100/1000M.
- Communication interface: USB 2.0 or USB 3.0.
- Wireless network: 802.11a/b/g/n WiFi.
- Operating System: Windows 10/8/7.
- Browser: Internet Explorer 11 or later.
- The DoNet remote diagnostic component requires the use of Internet Explorer 11 or later versions.
- Windows 7 system requires upgrading IE browser to the latest version.
- Download Internet Explorer 11 (32-bit)
- Download Internet Explorer 11 (64 bit)
- Attention: Windows XP system has stopped supporting!

⚠️ Please disable or close antivirus software and run the installation program with administrator privileges.

1.

Run the installation program, double-click to run the VX Manager installation program.
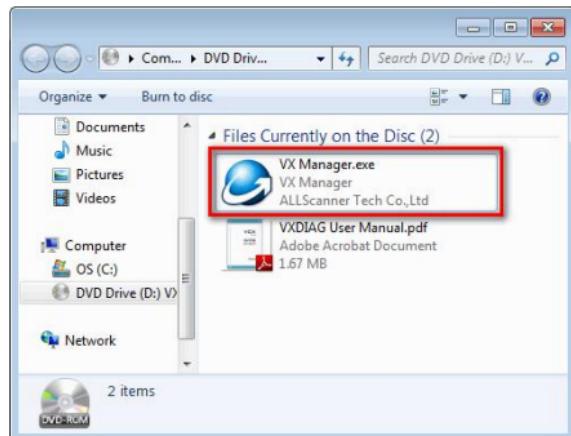
2.

Start installation

Welcome to the installation interface, click [Next] to continue.


3.

Select installation components

During this process, you can select the original diagnostic driver to be installed, or use VX Manager to freely install the required original driver after installation.
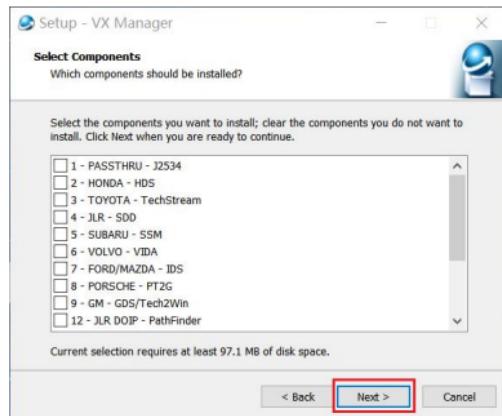
4.

Installation in progress

The installation process
may take several minutes,
please be patient.
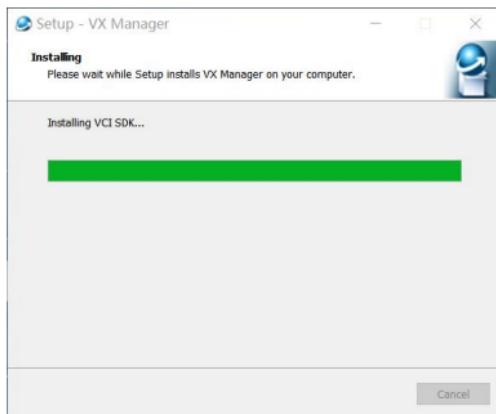
5.

installation is complete

On the installation
completion interface,
click [Finish] to
complete.
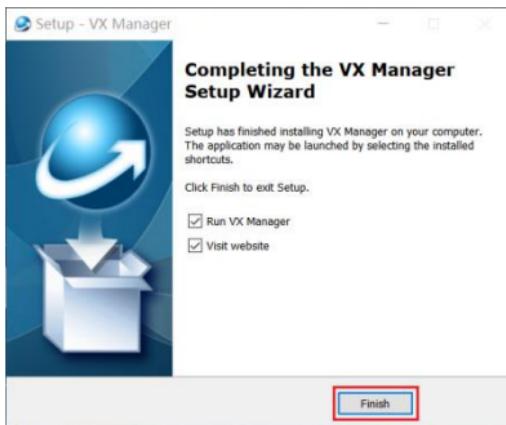
After installation, VX Manager shortcuts will be generated on the desktop and start menu.

Start using
Hardware connection

Before starting to use the device, it is necessary to connect the hardware correctly: the vehicle end of the device is connected to the vehicle through an OBD-II diagnostic cable, and there are three ways to connect the device to the PC end:

The PC end of the device is connected to the PC via a USB communication cable;

The PC end of the device is connected to the PC through a LAN network cable;;
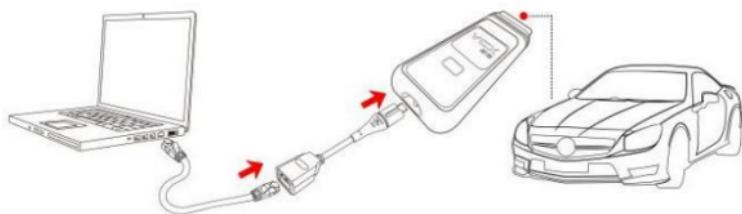
The device is connected to the PC via Wi Fi
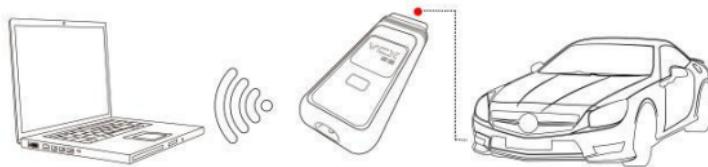
WIFI connection

The device is connected to the vehicle's power supply and starts normally.

Search for wireless network on the computer: DoIP-VCI-XXX, select Auto Connect, and then click Connect.
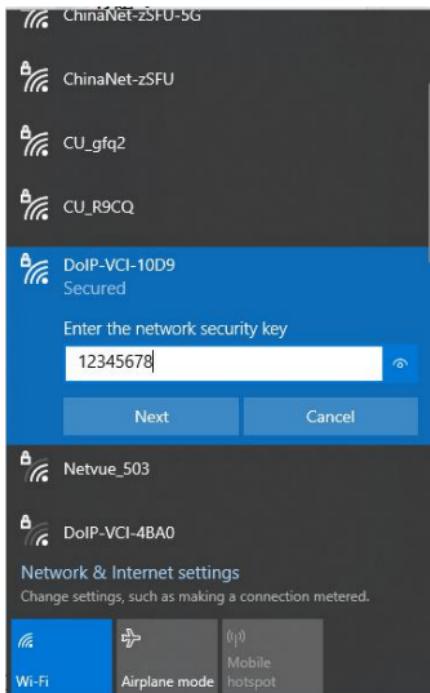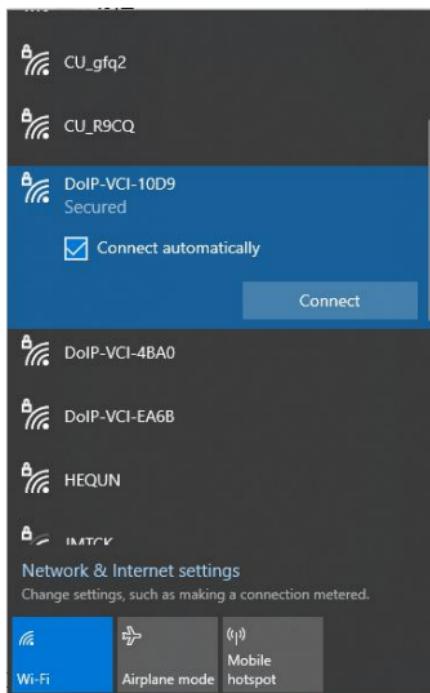
Enter the wireless network password: 12345678, click next.

After a successful wireless network connection, the following wireless network information can be seen in the Windows network connection:
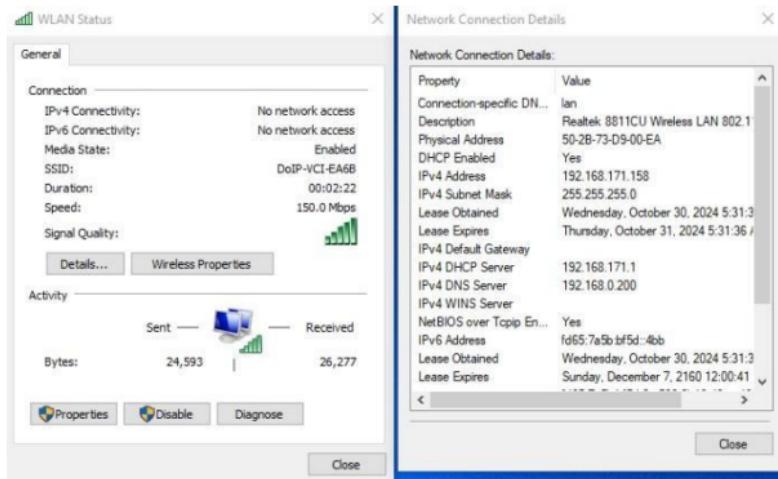
USB connection

When connecting to a USB LAN for the first time, Windows will automatically install drivers

After the driver installation is successful, you can see the network adapter in the Device Manager:Realtek USB FE Family Controller。
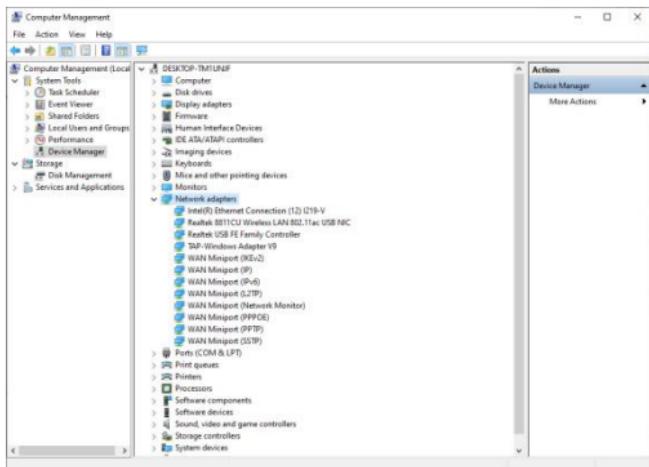
Device connection detection

After the device is correctly connected according to the above method, start the VX Manager management software. If the serial number, version, name, and other information of the VCX device can be displayed correctly, it indicates that the device has been correctly connected to the computer.
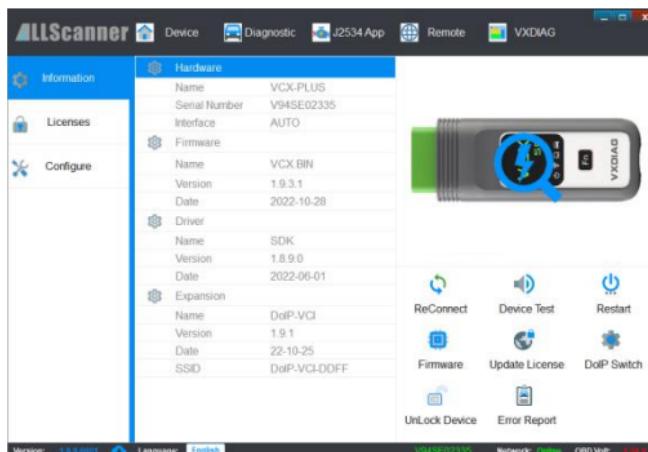
Basic Functions

|		
🔄	Reconnect	Reconnect the device and refresh the device information.
🔊	Equipment Testing	The device self-tests and the LEDs flash and beep.
⏻	Restart the device	The device is reset and restarted.
🖥	Update Firmware	Download and update the device firmware program online.
🌐	Update License	Download and update device authorization data online.
⚙	DoIP switch	Test vehicle DoIP communication by activating or deactivating the DoIP protocol.
🔓	Release occupation	Manually release the equipment after it is occupied.
📋	Error report	View and get the device error log.
☁	Check updates	Check for updates to the VX Manager software.

Device Connection Configuration

- The VX Manager default connection type configuration is: AUTO automatic, can support automatic identification of all connections, generally without modification.

- If you confirm that you need to modify the connection type, you can modify it in the Device Management-> Device Configuration interface.
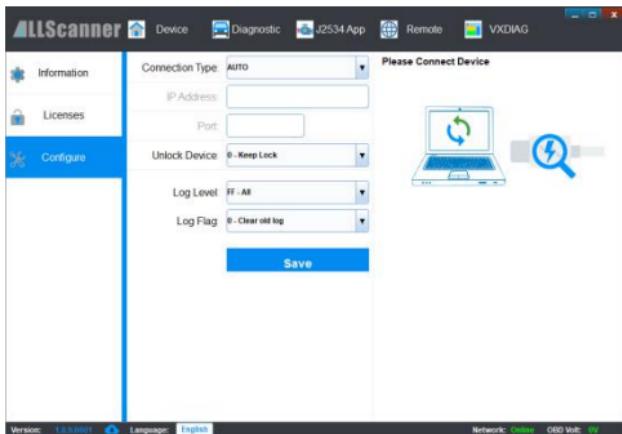
Install Diagnostic Driver

Open the [Vehicle Diagnosis]->[My Application] page, click the diagnosis application to be installed, such as [JLR DoIP], and the driver information interface will pop up. Click [Install] to start installin
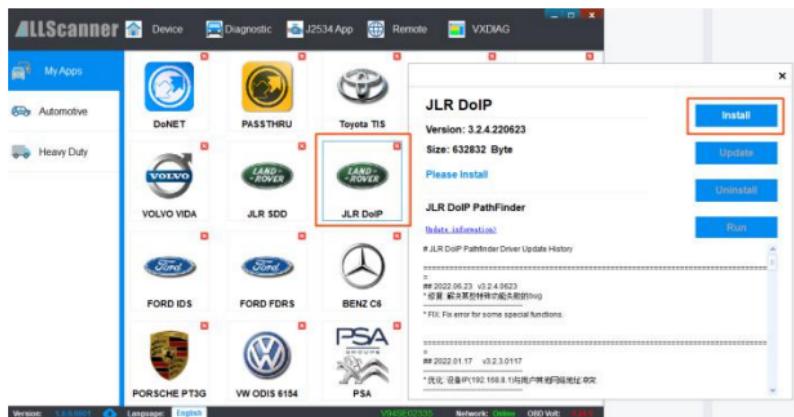
Start diagnosis

Open the JLR Pathfinder diagnostic software and automatically scan the vehicle model information. The diagnostic results are as follows:
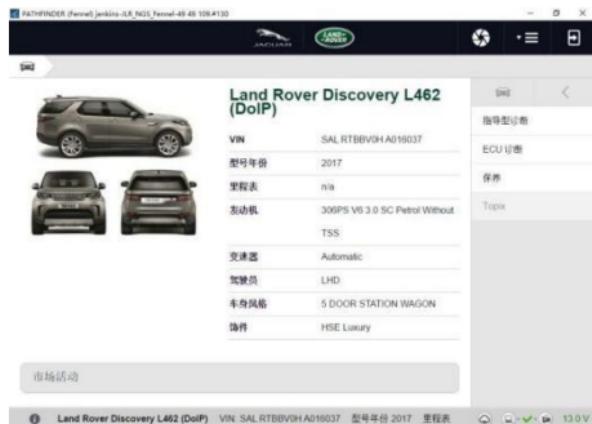
Equipment authorization

- VCX devices manage device functions through license, and the products purchased by users may include multiple licenses based on model and configuration.

- List of authorized functions supported by VCX series products:

DoNet	DONET	VOLVO	VOLVO
	PASSTHRU	Ford	FORD
	BENZ		MAZDA
	BMW	GM	GM
	VW/AUDI		TOYOTA
LAND ROVER	JLR		HONDA
	PORSCHE		SUBARU

View Authorization

- Connect VCX devices to computers.
- Run VX Manager management software
- Open the [Device Management] ->[Device Authorization] page to see a list of all authorizations supported by the current device.

Update authorization VCX

- The device authorization must be regularly updated online. If it is not updated for more than 60 days, the device authorization will expire, which will affect the use of authorization functions.
- Updating the license requires a computer connected to the Internet.VX Manager
- The management software will automatically update authorization by default when it starts (update interval of 24 hours).
- Connect VCX devices to computers.
- Run the VX Manager management software, and the authorization will be automatically updated when the software starts.
- Click on 'Update Authorization' on the 'Device Management' ->'Device Information' page to manually update the authorization.
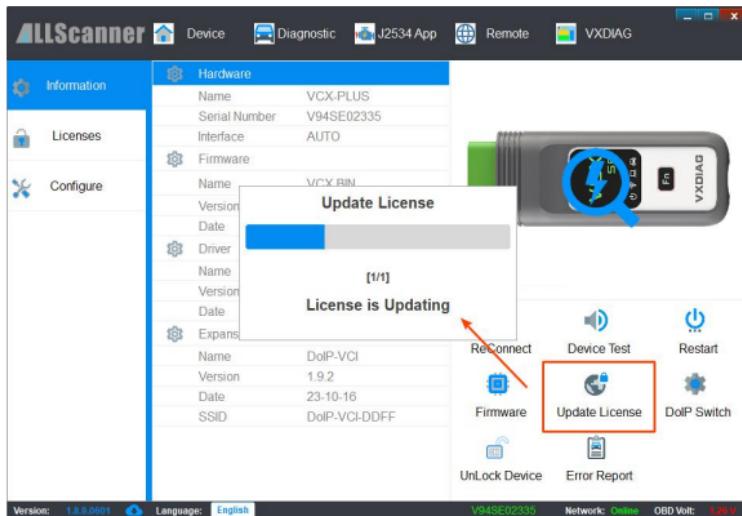
Diagnosis driven management

Launch the VX Manager device management software, open the 'Vehicle Diagnosis' tab, and then click on the' My Applications' option on the left side of the page to display authorized and available diagnostic drivers.
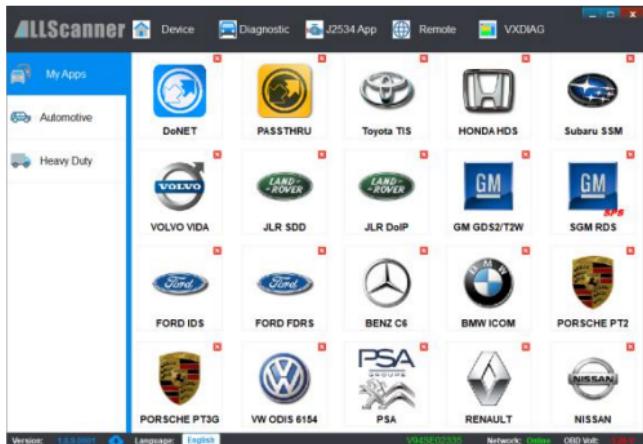
Install diagnostic driver

Open the 'Vehicle Diagnosis' —>' My Applications' page, click on the diagnostic application you want to install, such as' FORD IDS', and the driver information interface will pop up. Click [Install] to start installing the driver.
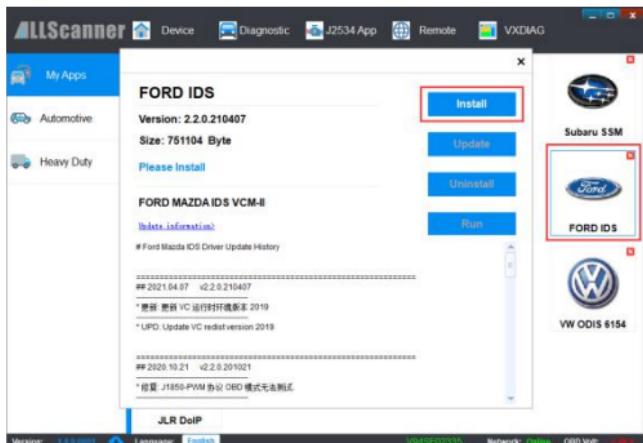
Driver installation process

Installing VX Manager will retrieve the latest diagnostic drivers from the server and install them, after which you can start using the original diagnostic features. The installation interface is as follows:

Update diagnostic driver

With the upgrade of original software and continuous optimization and updates of diagnostic drivers, please always stay up-to-date!

Open the "Vehicle Diagnosis" ->"My Applications" page. When a new version of a diagnostic driver is released, a "+" will be displayed in the upper right corner. Open the driver details and click "Update" to start upgrading the driver.
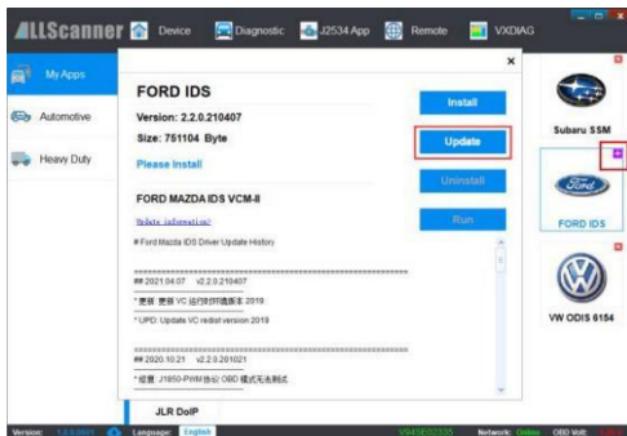
Uninstall diagnostic driver

After uninstalling the VCX diagnostic driver, the original software is restored to its original state (which can be used with the original equipment).

Open the Vehicle Diagnosis ->My Applications page, click on the diagnostic application you want to uninstall, such as [FORD IDS], and the driver information interface will pop up. Click [Uninstall] to start uninstalling the driver.
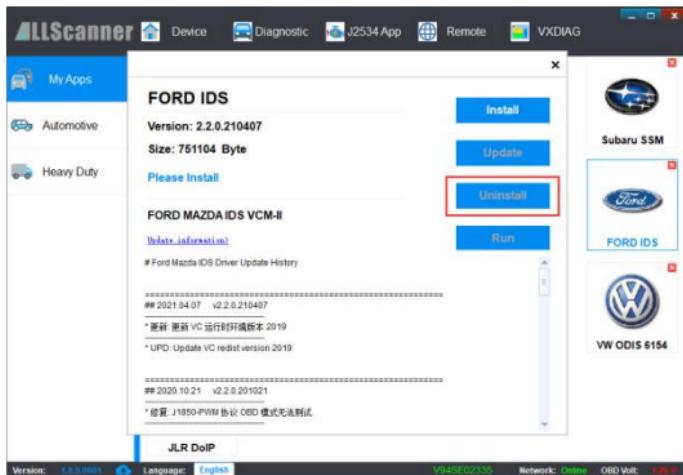
Warranty clause

1. One year limited warranty

2. The product warranty period is one year. The warranty start time and end time shall be based on the date of supply invoice. If the invoice is lost, the purchase time shall be calculated according to the factory date.

3. Under normal use conditions within the product warranty period, if the product or any part is proved to be damaged due to design, material or process defects, the company will repair or replace (new product or modified part) free of charge according to the situation with the warranty card.

4. The freight for repair within the warranty period shall be paid by the supplier, and the freight for repair after the warranty period shall be borne by the user.

5. The warranty service is only limited to the equipment itself, and the company is not responsible for any damage other than the equipment.

6. For the computer equipment not directly assembled by the Company, the supplier shall be responsible for the after-sales service of the computer part.

7. For the damage beyond the scope of warranty, Allscanner will also provide normal warranty for customers without charging maintenance fees. In case of replacement of materials, the user shall be notified for approval, and the material cost and transportation cost shall be borne by the user.

The warranty does not apply to:

1. Any product damage caused by abnormal use or abnormal conditions, such as fire, soil, sand, water, falling or extrusion, chemical corrosion, blown fuse, theft, improper use of power supply, irresistible natural disasters, etc.

2. Damage caused by unauthorized disassembly, alteration, improper installation and maintenance.

3. Damage caused by an operation intended for an illegal purpose, such as reading or changing a program in a device.

4. Products whose mechanical or electronic serial numbers have been deleted, altered, or destroyed.

5. Due to exposure to high temperatures or extreme environments.

6. Natural wear or damage of normal parts under the condition of conforming to relevant national product quality regulations.

Services and Support

Technical support

You can visit http://www.vxdiag.net the Wiki Technical Documentation Center at www.example.com, which contains all the important documentation resources:

VXDIAG Software Installation and Use

Introduction and installation of various original diagnostic software

Various original diagnosis software test cases and videos

Maintenance services

If the device needs to be returned for repair, download and complete the Service Repair Form. Be sure to fill in the following information:

Contact Name
Telephone number
Product Serial Number
Problem Description
Warranty card
Return address

Please contact us as follows:

address	103. A Building, Shenzhen Academy of Aerospace Technology, 10 South Road, High-tech Zone, Nanshan District, Shenzhen P.R.China
Telephone	+86-0755-33000960
Zip Code	518057
Product Consulting	info@allscanner.com
Technical support	support@allscanner.com

FCC Radiation Exposure Statement:

This device meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. The SAR limit of USA (FCC) is 1.6 W/kg averaged. Device types: Auto diagnostic scanner (FCC ID: 2BLUG-VCXSE) has also been tested against this SAR limit. SAR information can be viewed on-line at http://www.fcc.gov/oet/ea/fccid/. Please use the device FCC ID number for search. This device was tested simulation typical 0mm to body. To maintain compliance with FCC RF exposure requirements, use accessories should maintain a separation distance between the user's bodies mentioned above, the use of holsters and similar accessories should not contain metallic components in its assembly, the use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

FCC Warning

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.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Scan the QR code to view the electronic version of the user manual

ΛLLScanner®