ALLScanner

VXDIAG
用户手册
User Manual

General information

Welcome to our website.

Thank you for choosing the diagnostic products of Shenzhen Allscanner Technology Co., Ltd. This manual is the user manual of automobile diagnostic equipment and is provided to the user together with the products.

This manual describes important information such as product information, hardware connection, software installation and operation method. Please read this manual carefully before using the product for the first time. This manual only describes the operation and use of the product. Please refer to the maintenance manual of the original vehicle for specific vehicle maintenance and diagnosis.

Due to the product update, Shenzhen Allscanner Technology Co., Ltd. reserves the right to change the contents of this manual without prior notice to users.

limited liability

OSCARL does not warrant that the use of this product will be uninterrupted or error free. In no event shall OSCAR 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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registered trademark

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Product Introduction

Product Overview

VCX-DoIP is the latest generation of vehicle network interface equipped with DoIP Ethernet diagnostic technology, integrating four automobile industry standards into one device, not only supporting all traditional vehicle bus protocols, but also supporting the latest high-speed Ethernet diagnostic protocol, with strong compatibility. VCX-DoIP is the best device supporting the diagnosis and programming of original vehicles of all models.

Product Characteristics

- One device supports many original vehicle diagnostics
- Hardware updates are synchronized with all factory VCI's, and new models and factory software based on DoIP Ethernet diagnostics are fully supported
- Factory-level diagnostics for the world's leading brands, one device that can replace many expensive OEM devices
- Advanced diagnostic and programming functions are identical to those of the original factory and even exceed the performance of the original factory
- One-click installation of factory-supported drivers and online upgrades for ease of use
- Newly designed VXDIAG hardware

Newly designed vehicle network interface

- High-performance dual-core processors work together: One DoIP network processor, one vehicle bus processor
- It supports 4-channel CAN BUS and 2-channel K-Line/L-Line, realizing multi-protocol high-speed concurrent communication
- Innovative OBD-II multiplexing hardware supports intelligent switching between legacy buses and DoIP networks
- Supports intelligent switching of DoIP Ethernet diagnostic mode 1 and mode 2 pins
- Support mapping of vehicle DoIP Ethernet to WLAN for wireless Ethernet diagnostics
- Host communication interface supports USB / RJ45 / WLAN and other interfaces, flexible and easy to use
- The vehicle communication interface adopts 26PIN anti-reverse plug reinforcement design, which is stable and reliable
- Hardware supports 12V and 24V automotive communications for heavy-duty and diesel vehicle diagnostics
- Rugged metal and rubber design for use in harsh environments

Designed to meet four major automotive industry standards

- SAE-J2534-1/2 Pass-Thru Driver with EURO 5
- ISO-22900 MVCI & D-PDU
- ISO-13400 DoIP
- RP-1210A/B/C Heavy Duty VDA

J2534 Factory Grade ECU Programming Function

- ECU software upgrade and calibration
- ECU Replacement Flushing and Programming

Supported original vehicle diagnostics

	Brand	Vehicle type	Original diagnostic software	Support
1	BENZ	Mercedes-Benz, Maybach, Smart, FUSO	XENTRY Diagnosis & DAS & DTS	YES
2	BMW	BMW, Rolls-Royce, MINI	ISTA-D/P & E-Sys & INPA	YES
3	VW	Volkswagen, SEAT, Skoda, Bentley, Lamborghini	ODIS & ODIS-Engineer	YES
4	AUDI	Audi	ODIS & ODIS-Engineer	YES
5	PORSCHE	Porsche	PT3G PIWIS-3	YES
6	PORSCHE	Porsche	PT2G PIWIS-2	YES
7	JLR	Jaguar, Land Rover	JLR SDD	YES
8	JLR	Jaguar, Land Rover	JLR Pathfinder	YES
9	VOLVO	Volvo	Volvo VIDA	YES
10	FORD	Ford	FORD IDS	YES
11	GM	Chevrolet, Buick, Cadillac, Opel, Holden	GM GDS2 & Tech2Win & RDS	YES
12	MAZDA	Mazda	MAZDA IDS	YES
13	TOYOTA	Toyota, Lexus, Thain	TOYOTA Techstream TIS	YES
14	HONDA	Honda, Acura	HONDA Diagnostic System HDS	YES
15	SUBARU	Subaru	Select Monitor SSM3/SSM4	YES

⚠️ The copyright of the original software belongs to its owner. Please purchase the authorized genuine software!

vehicle bus protocol

ISO-13400 DoIP	CAN125/CAN250/CAN500/CAN1000
ISO-9141 K-Line	SAE-J1939 CAN
ISO-14230 K-Line	SAE-J1708/J1587 On RS485
ISO-17987 LIN BUS	CAT DATALINK (Caterpillar)
ISO-15765 CAN	ATA DATALINK (Caterpillar)
SAE-J1850-VPW (GM Class2)	
SAE-J1850-PWM (FORD SCP)	
ISO-11898-2 DWCAN	
ISO-11898-3 DWFTCAN	
SAE-J2411 SWCAN (GMLAN)	
VAG TP16 CAN	
VAG TP20 CAN (SAE-J2819)	
VAG KW81 (SAE J2818)	
SAE-J2610 SCI (Chrysler)	
SAE-J1567 CCD BUS (Chrysler)	
SAE-J2740 GM ALDL	
SAE-J2809 HONDA DIAG-H	
NISSAN DDL UART with CLOCK	
BMW DS2	
FORD UBP	
BENZ KWFB	
BENZ MB-ISO	

Technical specifications

Item	Description
network processor	32-bit 560MHz MIPS processor 32MB FLASH 128MB DDR
protocol processor	32-bit 180MHz ARM processor 1MB FLASH
Diagnostic interface (vehicle)	ISO22900-1 standard 26PIN diagnostic interface
DoIP interface (vehicle)	ISO13400-4 Option1/2 Ethernet
Wired interface (PC)	USB3.0 Type-B
Network Interface (PC)	RJ-45 LAN 10/100M Ethernet
Wireless Interface (PC)	WLAN 802.11 b/g/n wireless networks
expansion interface	USB2.0 Type-A
pilot lamp	4 LED indicators: power, wireless, communication and vehicle.
power supply	Vehicle power input:DC 9V-36 V Compatible with 12V and 24 V
power consumption	2W
size	L x W x H = 175 x 110 x 45 (mm)
weight	Equipment weight: 0.6Kg Product + Case+ Package Weight: 2.3Kg
enclosure	Aluminum + reinforced plastic housing
operating temperature	-20~+70 °C
Storage Temperature	-40~+85 °C
Standard Certification	European Union CE and United States FCC compliant

pilot lamp

⏻	Equipment working status (red)	Always on after startup Flashes on error
📶	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

Product Accessories

	Description	Specification
	VCX-DOIP device	USB-A to USB-B, 1.5 meters
	USB communication cable	USB-A to USB-B, 1.5 meters
	LAN Ethernet Cable	CAT5 shielded network cable, 3m
	OBD-II Diagnostic Cable	DB-26 to OBD-16, 1.5 m
	Software CD	CD-ROM
	User Manual	

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	warranty card	
	tool box	
	Box	200*300*400 (mm)

Software Installation

Get the installer

The VX Manager administrative tools and drivers must be installed on your PC before you can use the device to begin vehicle diagnostics. This installer is included on the product CD-ROM or you can download the latest version of the installer from 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 disk: 80GB or more.
- Network interface: LAN 100/1000M.
- Communication interface: USB2.0 or USB3.0.
- Wireless: 802.11a/b/g/n WiFi.
- Operating System: Windows 10 / 8 / 7.
- Browser: Internet Explorer 11 or later.
- The DoNet Remote Diagnostics component requires Internet Explorer 11 or later.
- Windows 7 systems need to upgrade IE browser to the latest version.
- Download Internet Explorer 11 (32-bit)
- Download Internet Explorer 11 (64-bit)
- Note: Windows XP is no longer supported!

⚠️ Please disable or turn off your antivirus protection software and run the installer with administrator privileges.
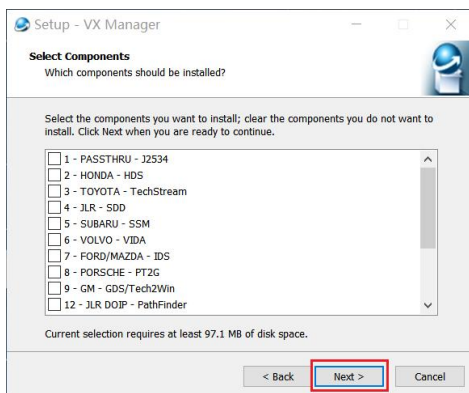
1. Run Setup

2. Double-click to run the VX Manager installer.
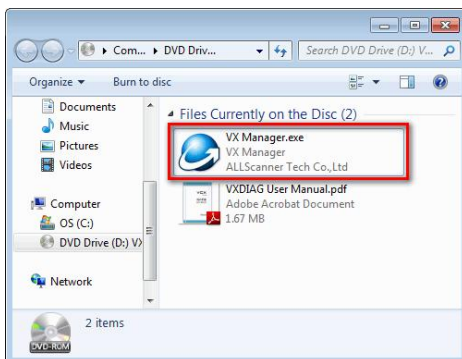
3. Start Installation

4. Welcome to the installation interface. Click [Next] to continue.

5. Select Installation Components

6. You can check the factory diagnostic drivers you want to install during this process, or you can use VX Mananger to freely install the factory drivers you want after installation.

7. Installation in progress

8. Please be patient as the installation process may take several minutes.
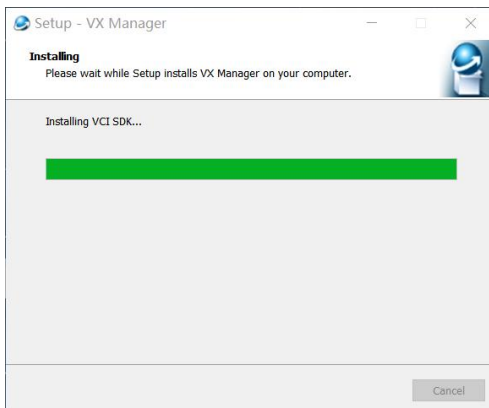
9. Installation complete

10. Click[Finish] to finish the installation.
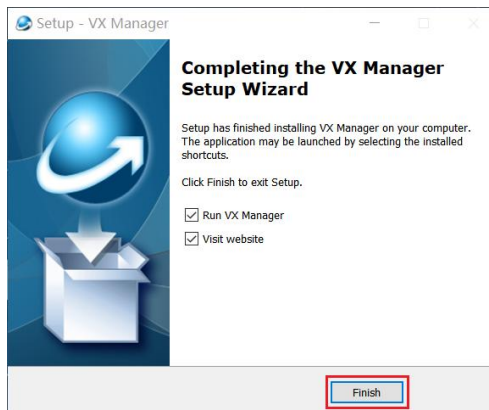
A VX Manager shortcut will be generated on the desktop and Start menu after installation.

Start of Use

Hardware Connection

Before using the equipment, the hardware must be correctly connected: the vehicle end of the equipment is connected to the vehicle through OBD-II diagnostic cable, and there are three ways to connect the equipment with the PC end:

The PC end of the device is connected to the PC via a USB communication cable
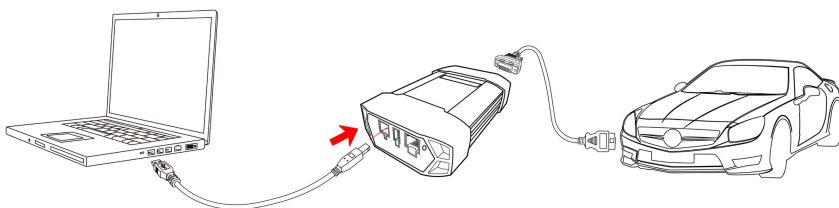
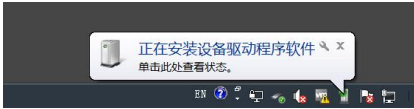the PC side of that deviceis connecte to a PC via a LAN network cable
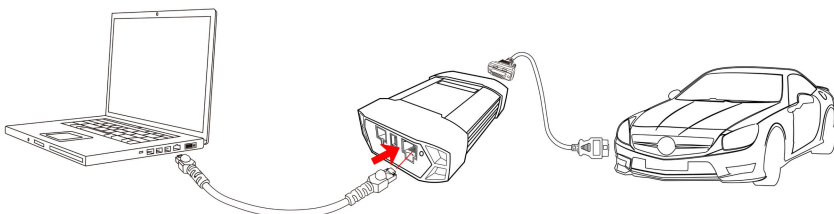
Device connected to P C via WIFI
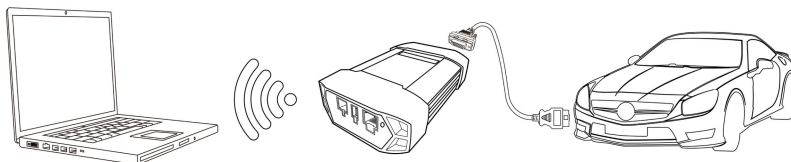
USB connection

The first time you connect the USB cable to your PC, Windows prompts you to find new hardware and automatically completes the driver installation.

The network adapter can be seen in the device manager after the driver is successfully installed: Realtek USB FE Family Controller。

WIFI connection

The equipment is connected to the vehicle power supply and starts normally.

The computer searches for a wireless network: DOIP-VCI-XXXX, select Auto Connect, and then click Connect.	Enter the wireless network password: 12345678 Click Next.

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.
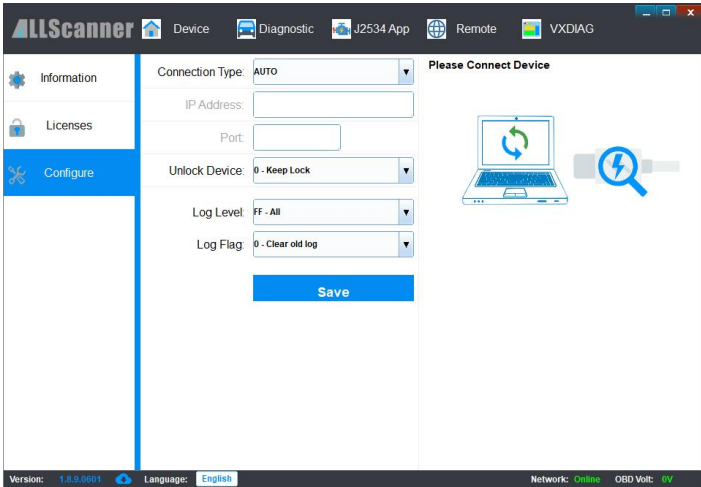
Device Connection Detection

After the device is properly connected as described above, start the VX Manager management software. If the serial number, version, name and other information of the VCX device are displayed correctly, the device is properly connected to the computer
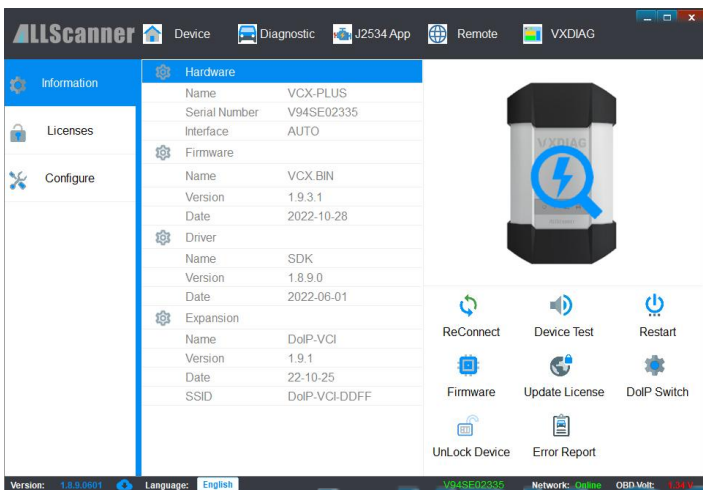
VX Manager Administrative Tools

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 Authorization	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 for updates	Check for updates to the VX Manager software.

Equipment Authorization

VCX devices manage device functionality through licenses (LICENSE), and the product you purchase may include multiple licenses depending on model and configuration.
List of licensed features supported by the VCX series products:

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

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View Authorization

- Connect the VCX device to the computer.
- Running the VX Manager Management Software
- Open the [Device Management]->[Device Authorization] page to see all authorization lists supported by the current device.

Update Authorization

- The VCX device license must be updated online regularly. If it is not updated for more than 60 days, the device license will expire, which will affect the use of the authorized functions.
- Updating your license requires your computer to be connected to the Internet.
- By default, the VX Manager administration software automatically updates licenses when it is started (update interval is 24 hours).
- Connect the VCX device to the computer.
- Run the VX Manager management software, which automatically updates the authorization when it starts.
- Click Update Authorization on Equipment Management-> Equipment Info to manually update authorization.

VXDIAGSHOP
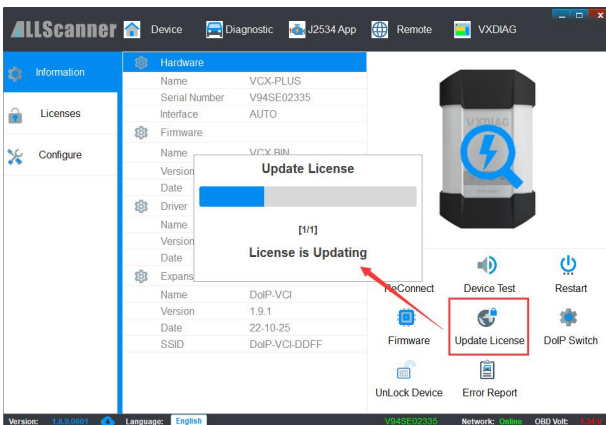
Diagnostics Driven Management

Start the VX Manager device management software, open the [Vehicle Diagnostics] tab, and click the [My Applications] option on the left side of the page to display the licensed diagnostic drivers.
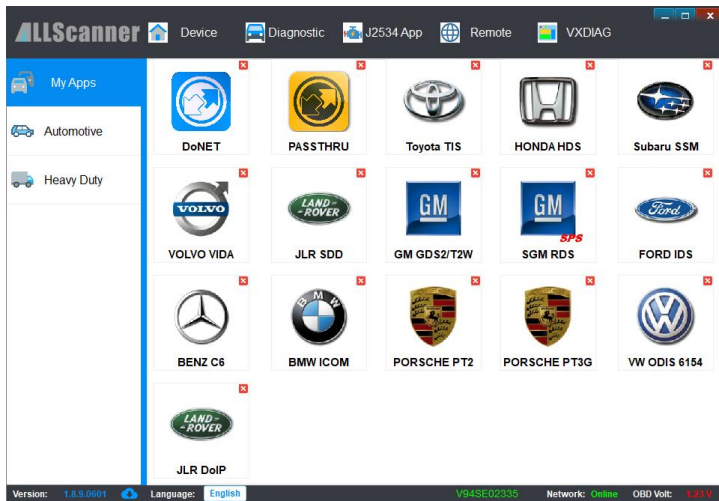
Install Diagnostic Driver

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

VXDIAGSHOP
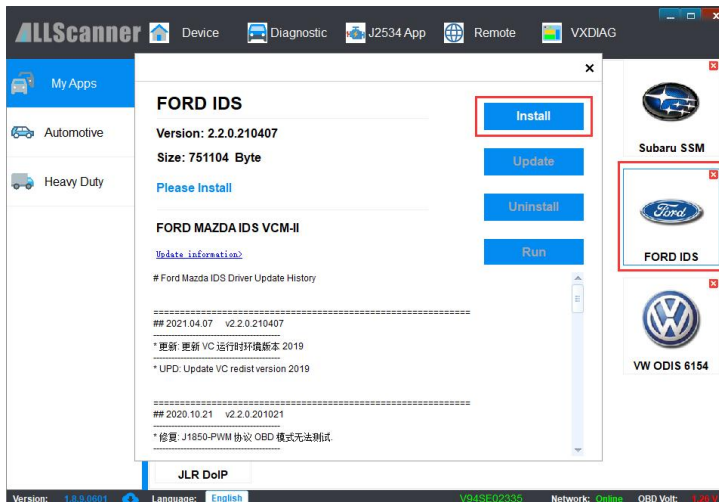
Driver Installation Process

[Installation]V X Manager will obtain the latest diagnostic driver from the server and install it, and then you can start using the original diagnostic function. The installation interface is as follows:

Update Diagnostic Driver

With the upgrade of the original software, the diagnostic driver is continuously optimized and updated. Please always keep up to date!

Open the [Vehicle Diagnosis]->[My Application] page. When a diagnosis driver releases a new version,"+" will be displayed in the upper right corner. Open the driver details and click [Update] to start upgrading the driver.
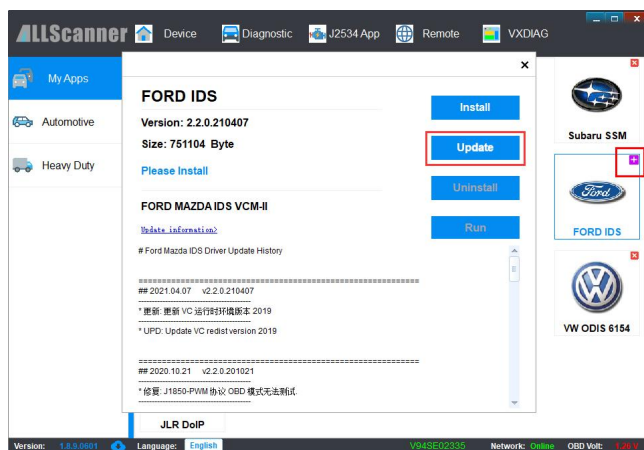
warranty clause

One year limited warranty

1. 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.
2. 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.
3. 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.
4. The warranty service is only limited to the equipment itself, and the company is not responsible for any damage other than the equipment.
5. For the computer equipment not directly assembled by the Company, the supplier shall be responsible for the after-sales service of the computer part.
6. For the damage beyond the scope of warranty, Aocar 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 canvisit http://www.vxdiag.net the Wiki Technical Documentation Center at www.example.com, which contains all the important documentation resources:
- VXDIAGSoftware Installation and Use
- Introduction and installation of various original diagnostic software
- Various original diagnosis software test cases and videos

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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	Room A103-104, 1/F, Building A, Shenzhen Aerospace Science and Technology Innovation Research Institute, No.6, Keji South 10th Road, South Hi-tech Zone, Nanshan District, Shenzhen
Telephone	+86-0755-33000960
Zip Code	518057
Product Consulting	info@allscanner.com
Technical support	support@allscanner.com

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