

XTUNER-T1 USER MANUAL

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1. Running environment

- Hardware environment:
Windows laptop, PC or PAD
CPU speed: more than 1.0G Hz
Memory: more than 1GB
Disk: more than 32 GB
Communication port: Wi-Fi or USB
- Software environment:
Windows XP, Windows 7, Windows 8, Windows 10

2. Software installation

2.1 Client downloading

Access the website: <http://www.tdintel.com>, go into the Support page to download “XTUNER-T1 Setup Vx.xx”

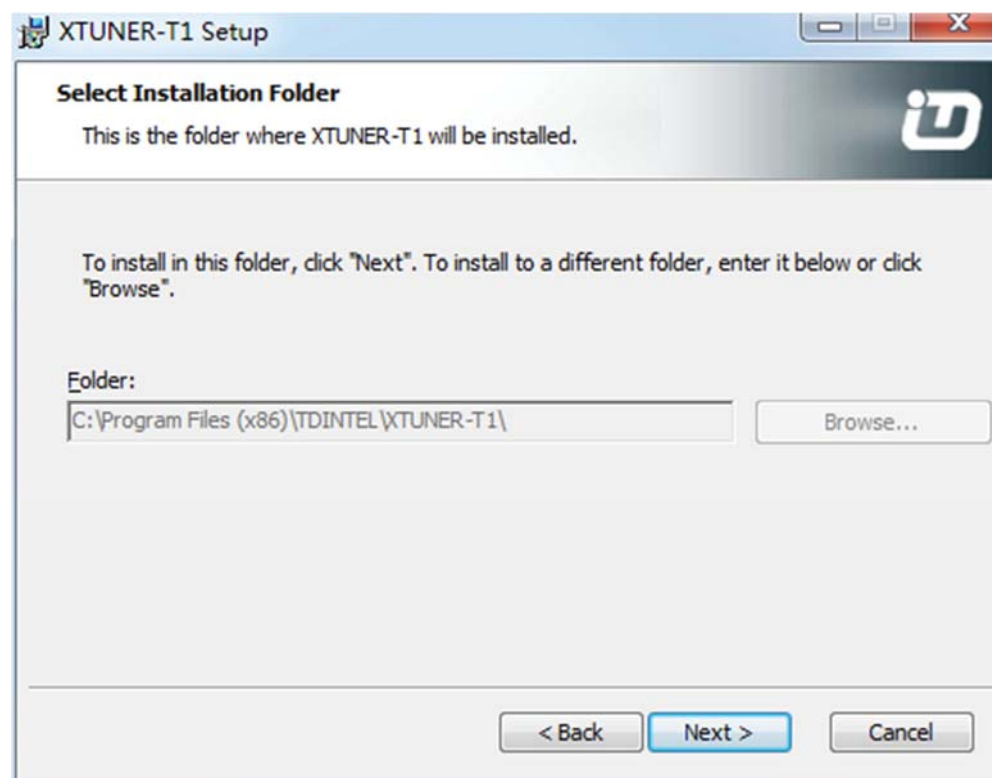
2.2 Client setup

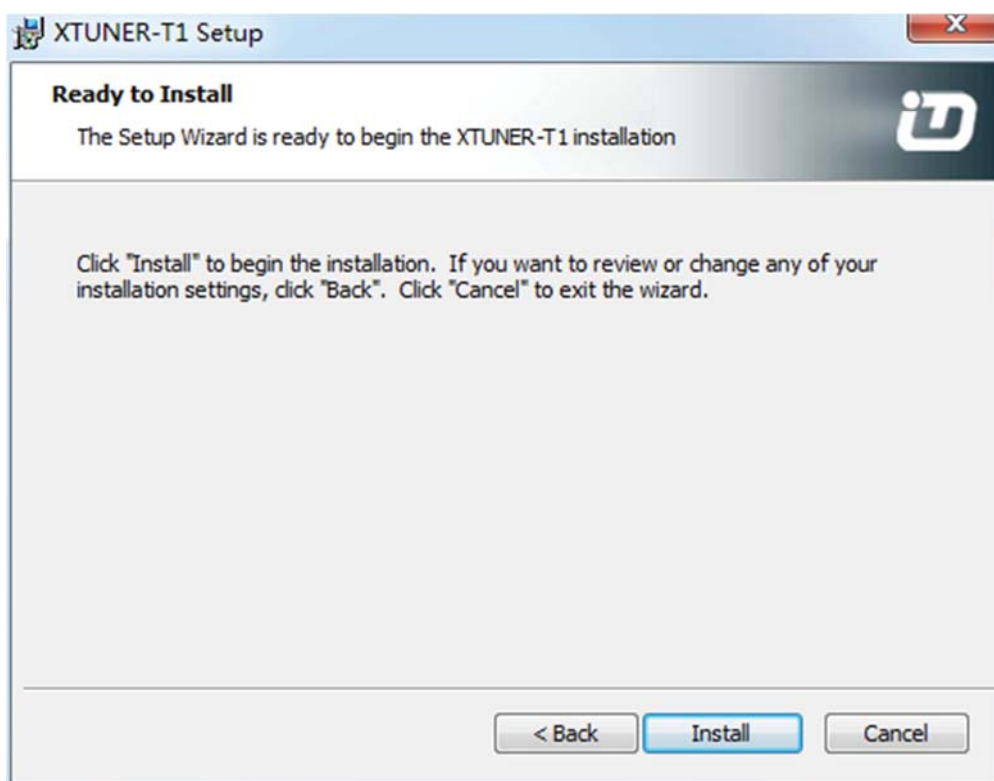
Unzip XTUNER-T1 Setup Vx.xx and run XTUNER-T1 setup.exe:



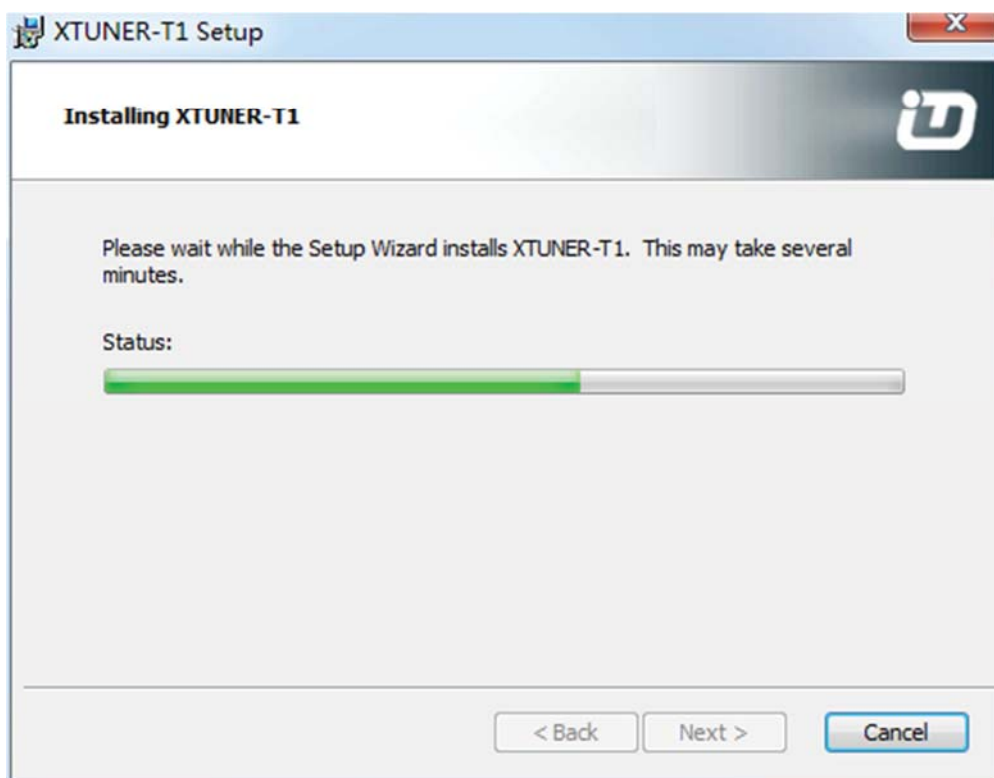


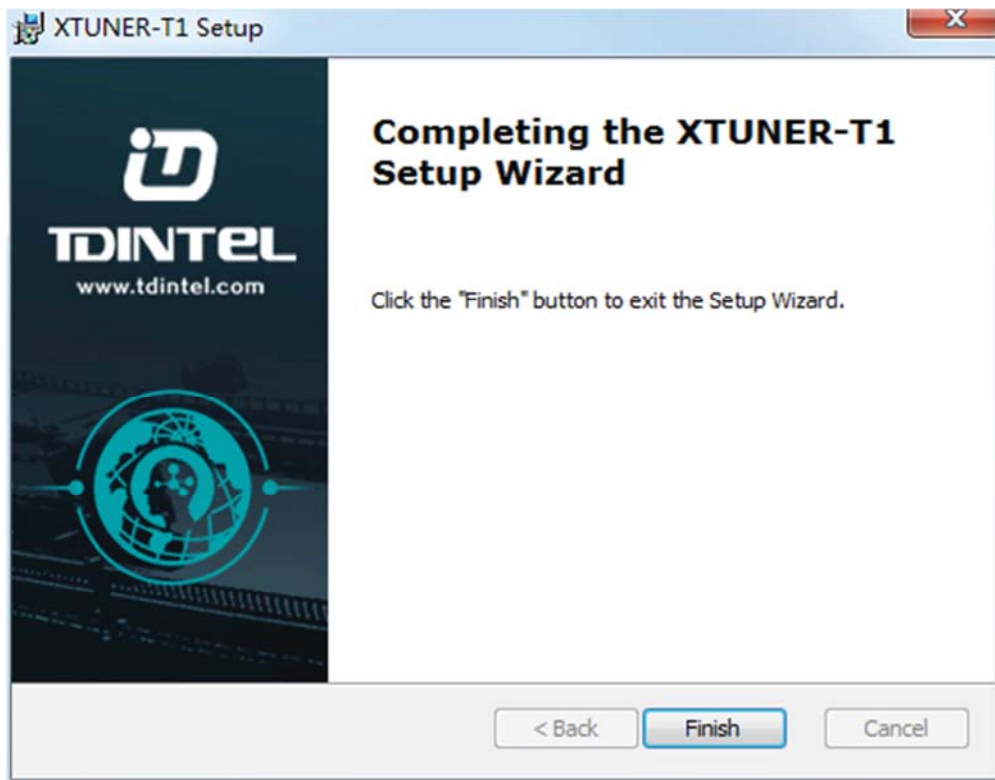
Please click "Next".





Please click "Install".





XTUNER-T1 diagnostic service system installs successfully.

3. Software activation and downloads

3.1 Software activation

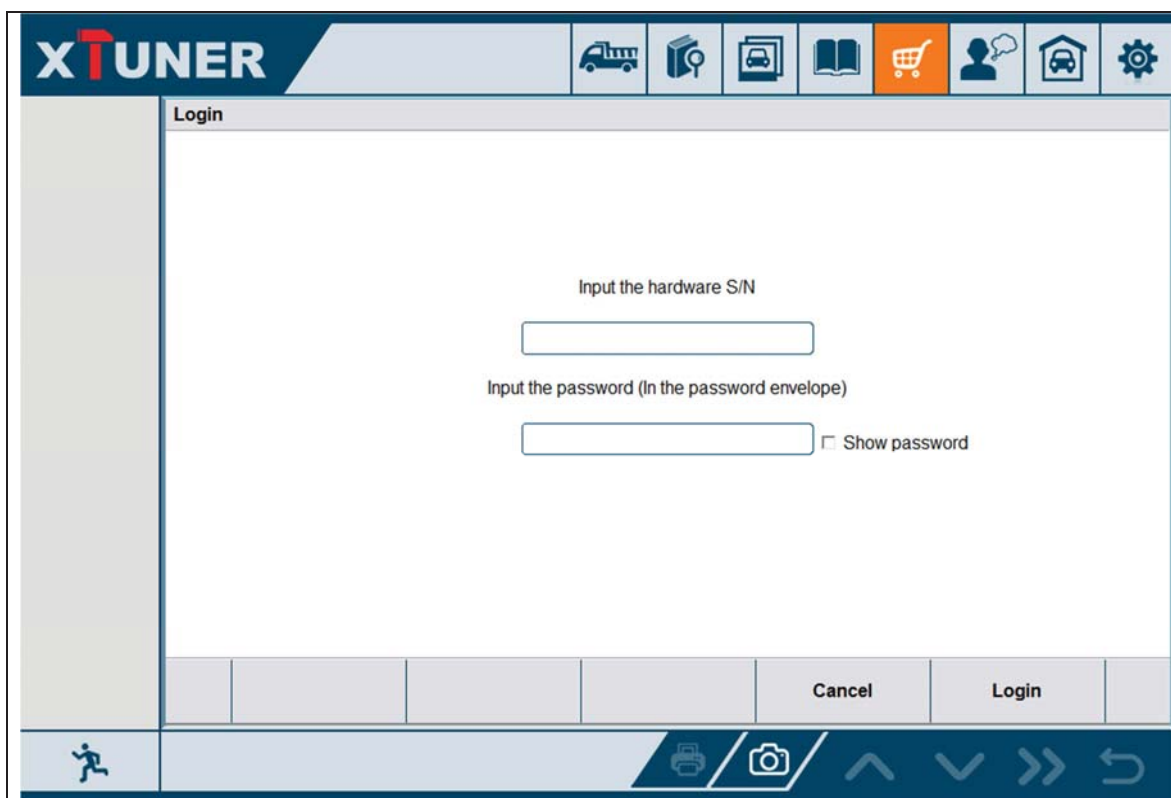
At first, please keep network working. Run XTUNER-T1 APP, then click “Online store” to get applications.



Please wait...

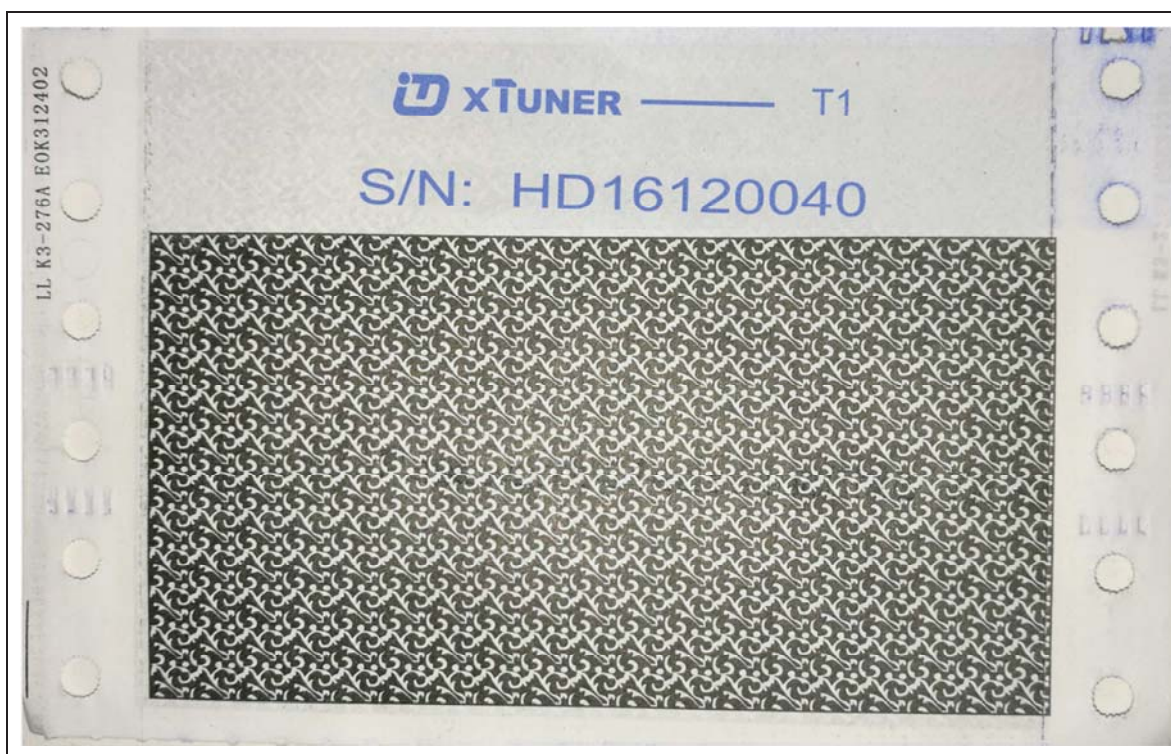


Please click "Online store".



The image shows the login screen of the XTUNER device. At the top, there is a navigation bar with the 'XTUNER' logo and several icons: a truck, a magnifying glass, a car, an open book, a shopping cart, a person with a speech bubble, a house, and a gear. Below the navigation bar, the word 'Login' is displayed. The main area contains two input fields. The first field is labeled 'Input the hardware S/N' and is empty. The second field is labeled 'Input the password (In the password envelope)' and is also empty. To the right of the password field is a checkbox labeled 'Show password'. At the bottom of the form, there are two buttons: 'Cancel' and 'Login'. The bottom of the screen features a dark blue bar with a running person icon on the left and a series of navigation icons (back, forward, search, etc.) on the right.

Please enter the S/N number and password get from the envelope, and then click “Login”.



XTUNER



Login

Input the hardware S/N

Input the password (In the password envelope)

☐ Show password

Cancel

Login







Please click “Login”.

The screenshot displays the XTUNER application interface. At the top, there is a dark blue header bar with the 'XTUNER' logo on the left and a series of icons on the right: a truck, a magnifying glass, a car, an open book, a shopping cart, a person with a thought bubble, a house with a car, and a gear. Below the header, the main content area is white. A light blue box in the center contains the text: 'The product is not activated, please register and activate first.' Below this box are two buttons labeled 'Yes' and 'No'. To the right of the 'No' button, the text 'ow password' is visible. At the bottom of the screen, there is a dark blue navigation bar with icons for a person running, a printer, a camera, and four arrows (up, down, right, left). The 'Cancel' and 'Login' buttons are located in the bottom right corner of the main content area.

If the product is not activated, please click “Yes”.

XTUNER		       			
Activation					
First Name	XTUNER-TI		Last Name	TDINTEL	
Email*	allen@tdintel.com		Country \ region*	China	
Company	TDINTEL TECH Co.,Ltd.				
 * required Please input correct information for better service!					
			Cancel		Activate

Please input your information, the Email address and the country \ region are required, and then click “Activate”.

XTUNER		       			
Activation					
First Name	XTUNER-TI		Last Name	TDINTEL	
Email*	allen@tdintel.com		Country \ region*	China	
Company	TDINTEL TECH Co.,Ltd.				
Customer information is committed successfully! The activated link has been sent to your email, please log in your email and click the link to activate the product in 30 minutes. If you do not receive the activation email, please add "service@tdintel.com" to the white list of your mailbox and try the activation process again. Yes No					
 * required Please input correct information for better service!					
			Cancel		Activate

Note:

Your email address must be real in order to get the activated link and the further better service from the manufacturer. The software update reminder and the new product release information will be sent to your email.

If you do not receive the activation email, please add "service@tdintel.com" to the white list of your mailbox and try the activation process again.

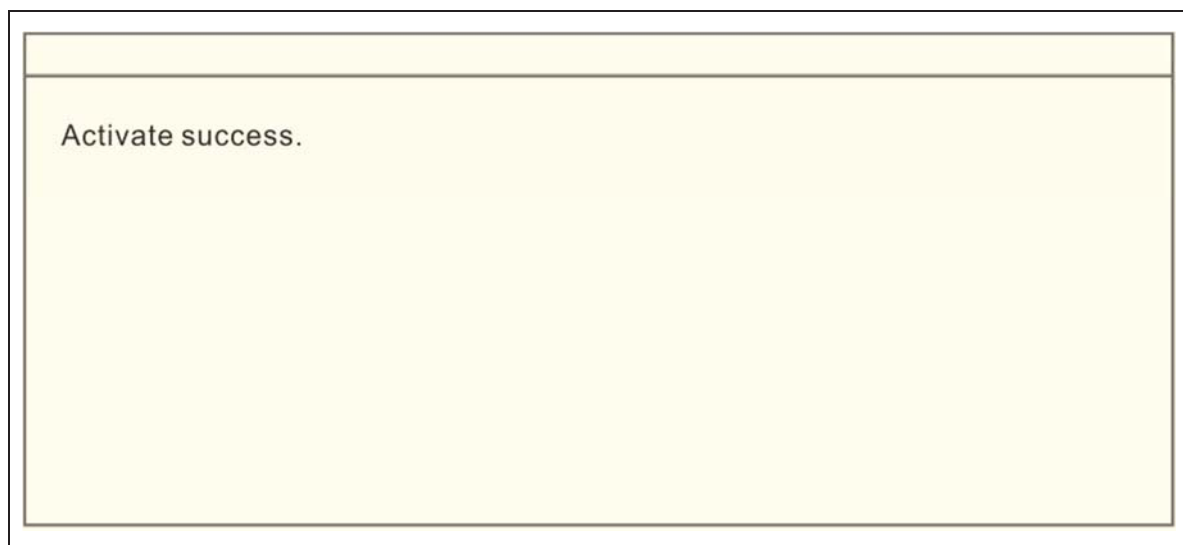
Company name: company name must be filled in and the length is within 250 characters.

Country \ region: please choice your country \ region in the list.

Press "Yes" to confirm your information:

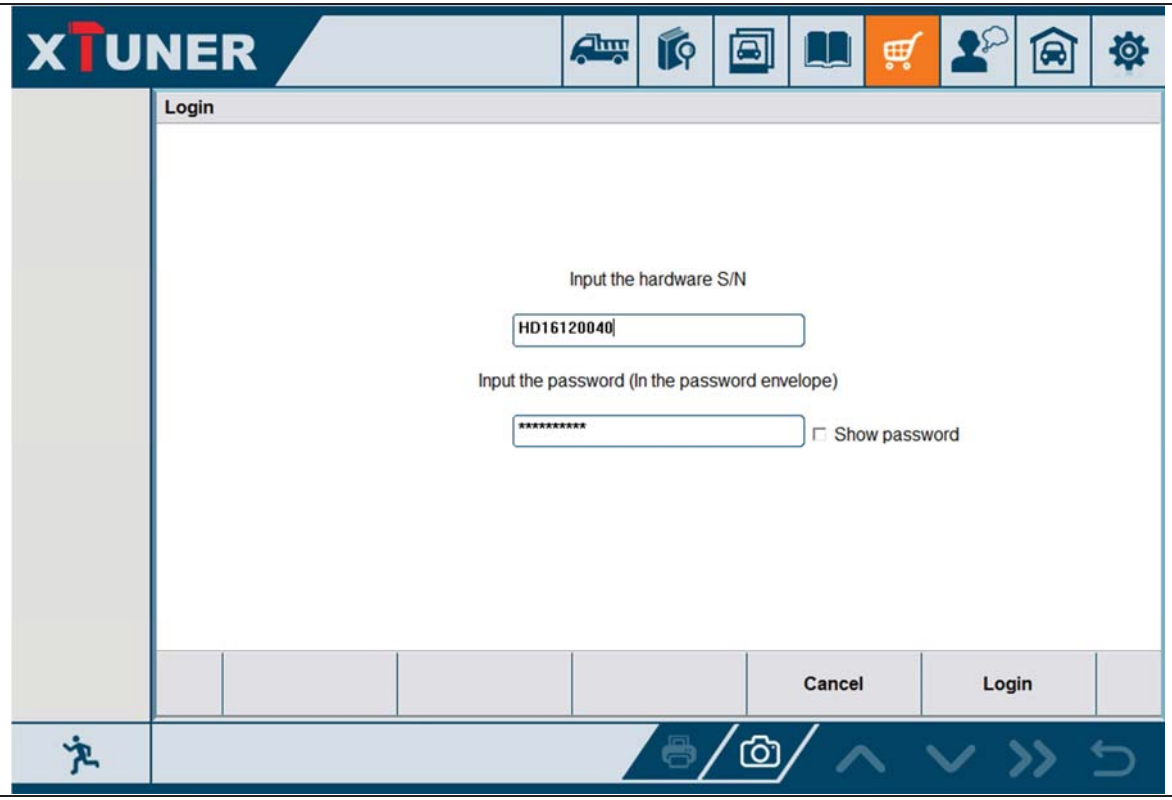


Please click the link to get the confirmation from the manufacturer.



3.2 Software downloads

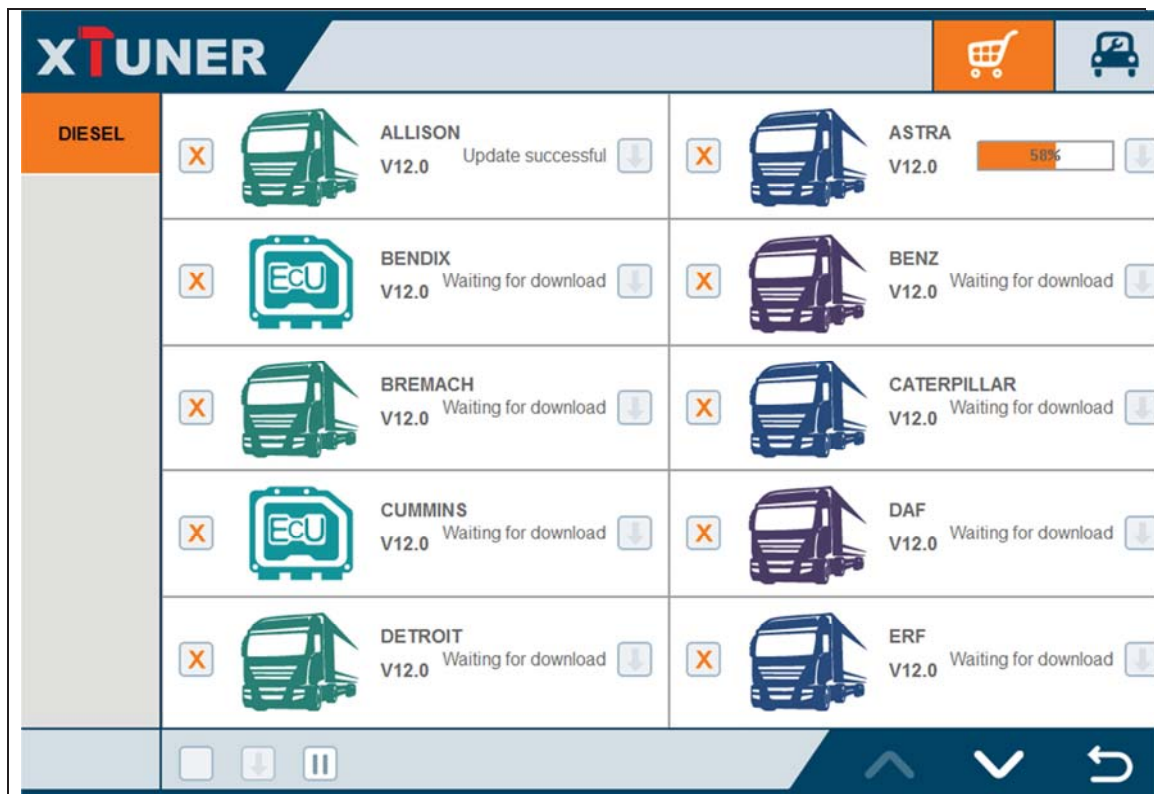
After the activation, please login the online store again, and get the APPs upgrade.



Please, click “Login” to download the software.



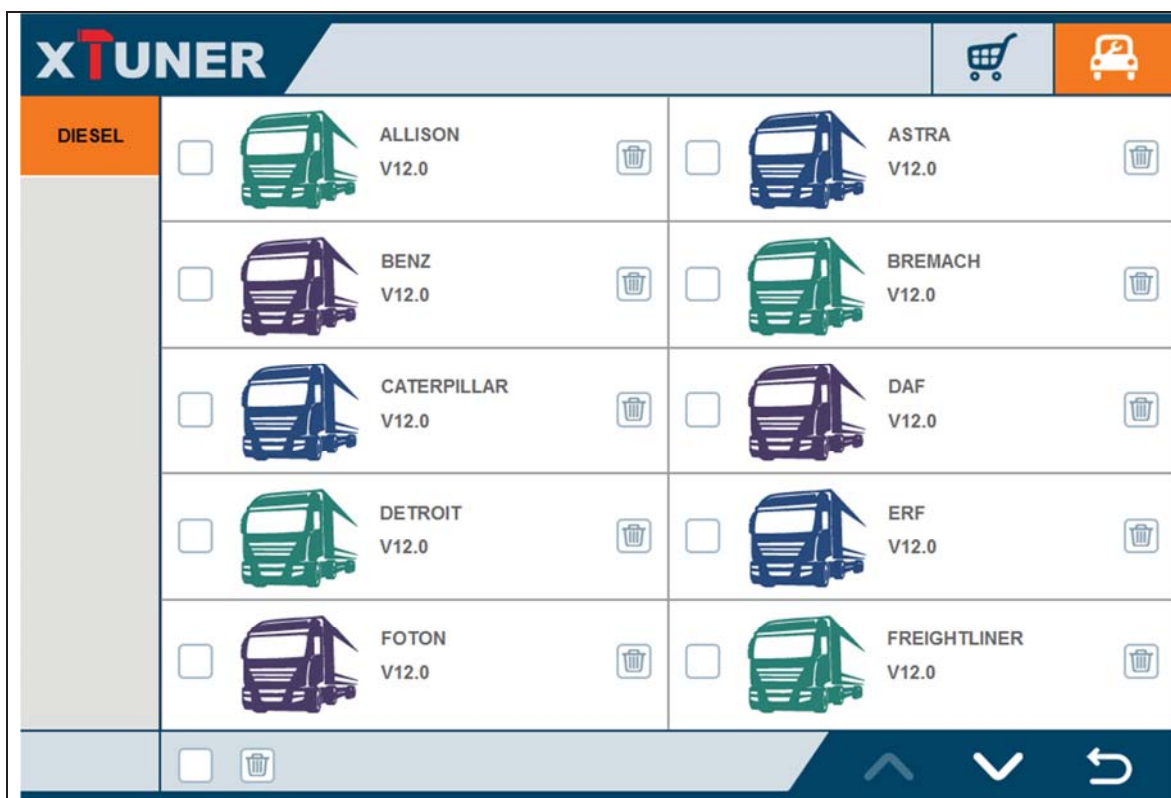
DIESEL							
☐		ALLISON V12.0	FREE		☐		ASTRA V12.0
☐		BENDIX V12.0	FREE		☐		BENZ V12.0
☐		BREMACH V12.0	FREE		☐		CATERPILLAR V12.0
☐		CUMMINS V12.0	FREE		☐		DAF V12.0
☐		DETROIT V12.0	FREE		☐		ERF V12.0
☐							



There are two modes for downloading, one by one and one-click. It may take a long time to download all the software, depend on the speed of customers' network.

3.3 Software management

Users can delete vehicle software here. You can delete one by one or all-selected delete.



4. Software introduction

Run XTUNER-T1, The screen will show:



4.1 Online store

Features

- Automatic Wi-Fi updates available in new software releases by smart upgrade mode.
- Wi-Fi internet capability allows for wireless access throughout the workshop.

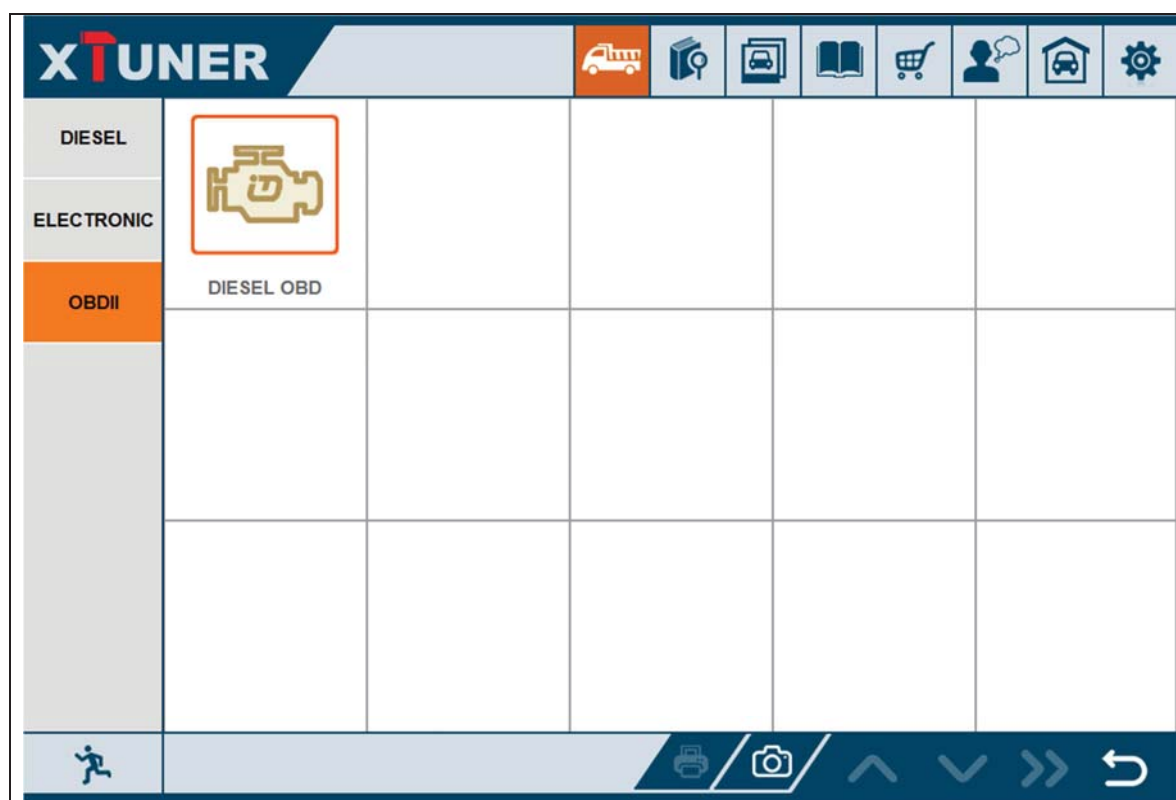


4.2 Diesel Diagnose

4.2.1 Features

- Extensive vehicle coverage for heavy-duty trucks (29 brands).
- Complete function capability including DTC, DTC freeze Info, Live data, Actuation test and Special function.
- Support standard protocol J1939, J1708 and J1587.





4.2.2 Vehicle coverage

DIESEL: ASTRA, BENZ, BREMACH, CATERPILLAR, DAF, DETROIT, ERF, FOTON, FREIGHTLINER, GM, HINO, HYUNDAI, INTERNATIONAL, IRAN, ISUZU, IVECO, KENWORTH, KIA, MACK, MAN, NAVISTAR, RENAULT, SCANIA, TOYOTA, UD, VOLVO, WABCO, etc.

ELECTRONIC: BENDIX, CUMMINS, etc.

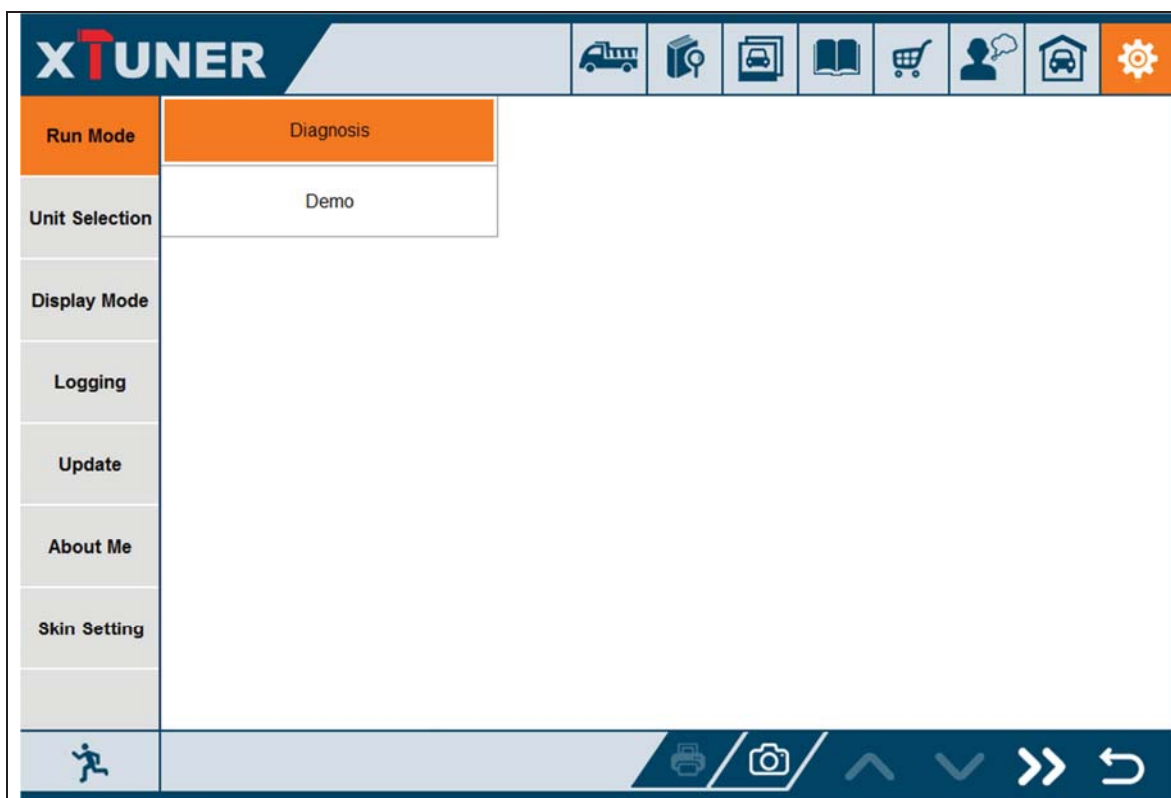
OBDII: DIESEL OBD.

4.5 Settings

4.5.1 Run mode

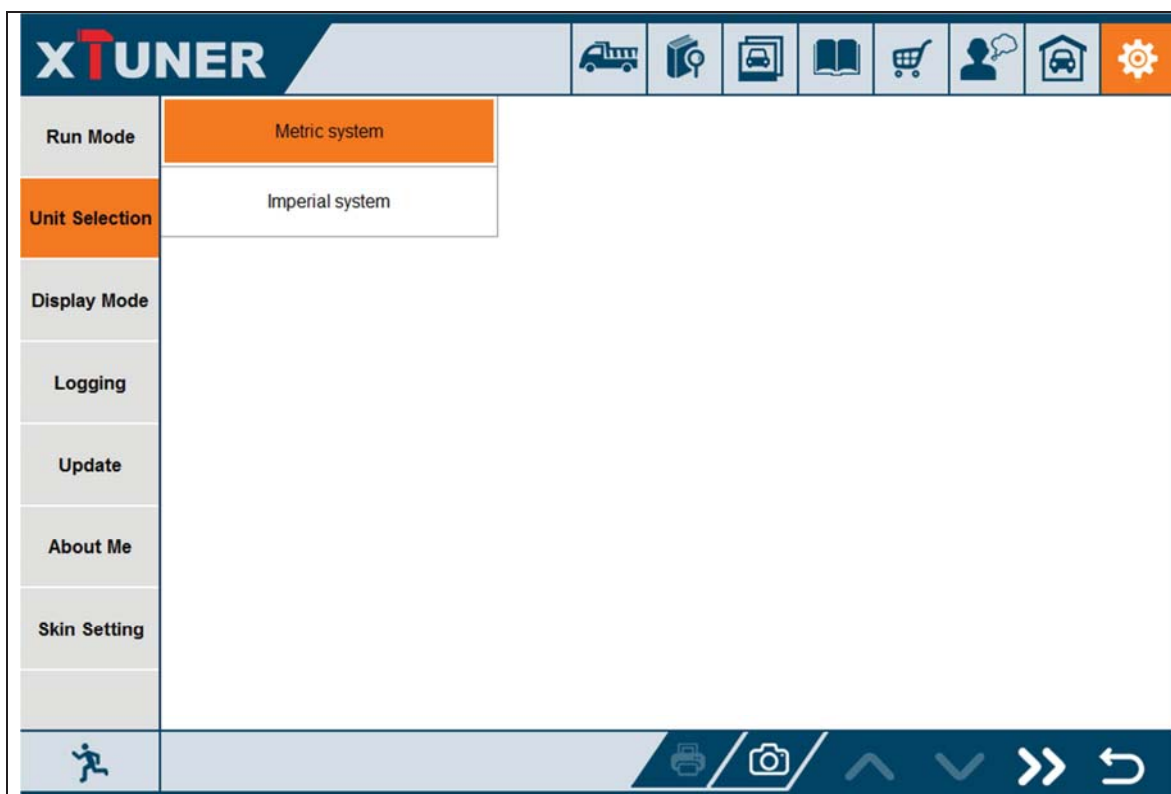
It has Demo, so even XTUNER-T1 is not connected, it can simulate how it works.

As the picture shows:



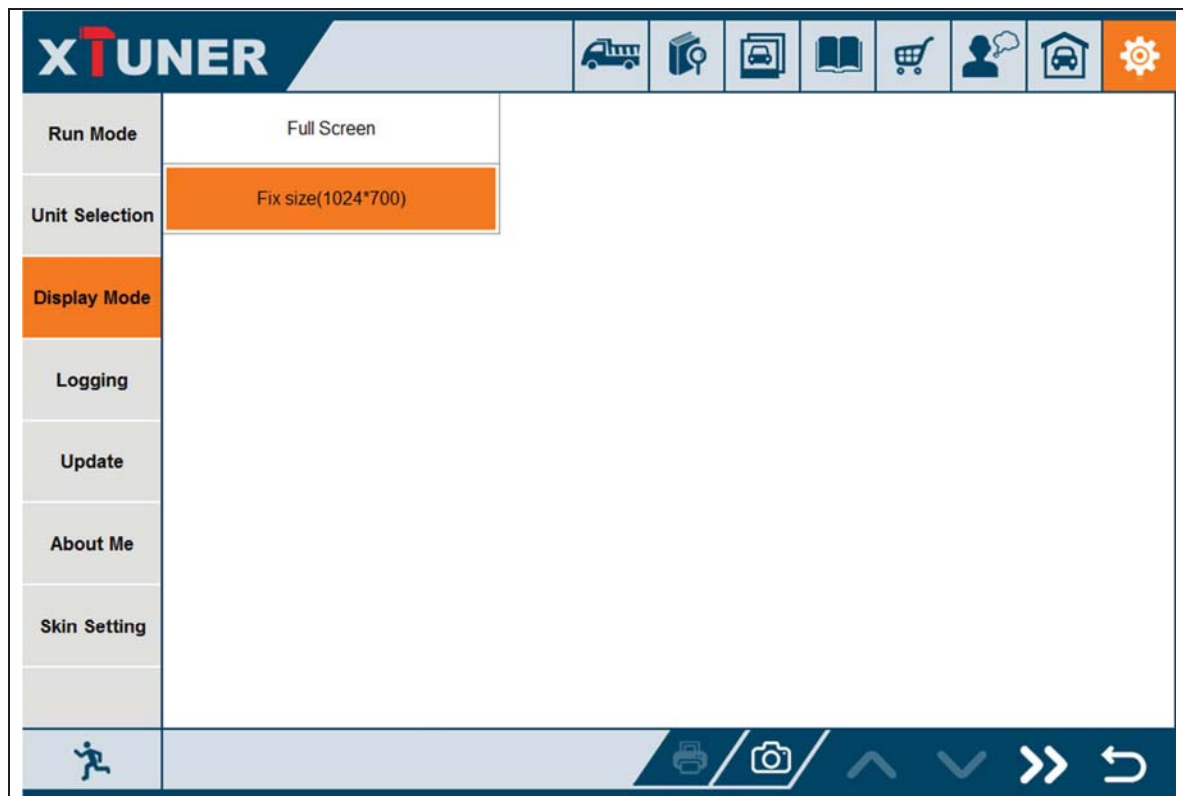
4.5.2 Unit selection

Unit switch between Metric and Imperial system:



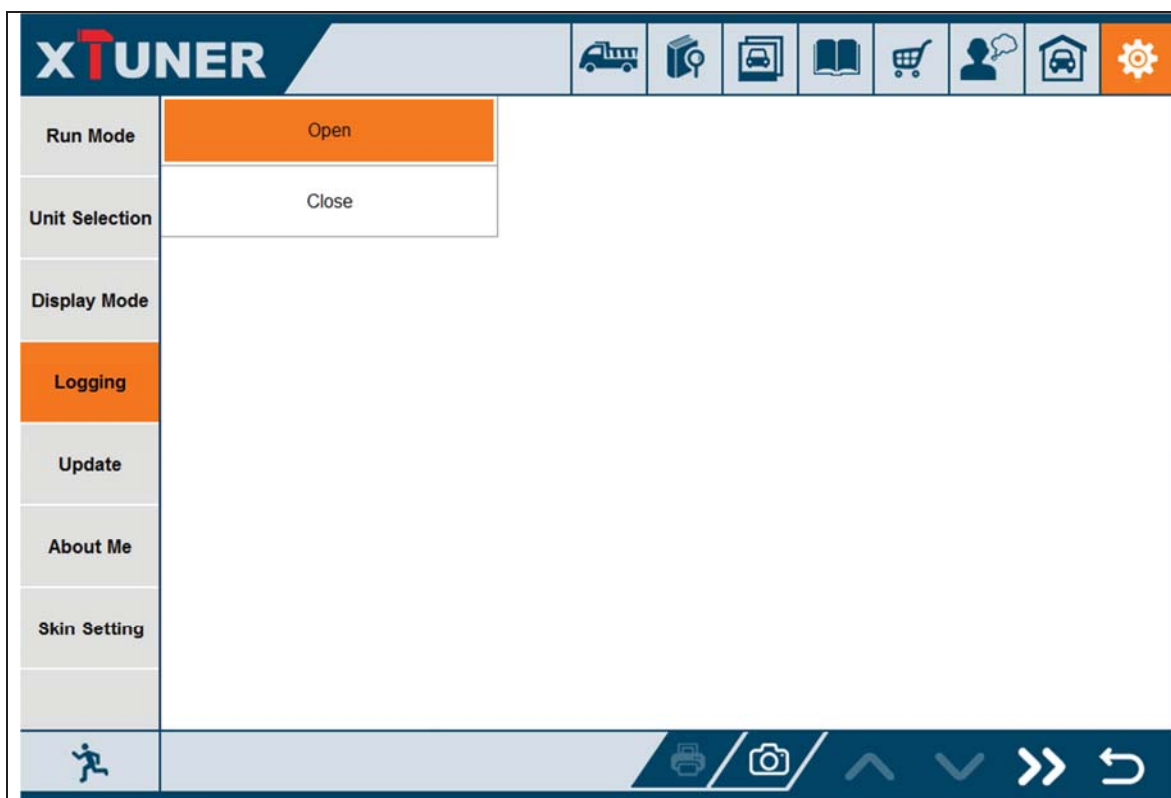
4.5.3 Display mode

Display modes between Full Screen and Fixed Size (1024 x 700):



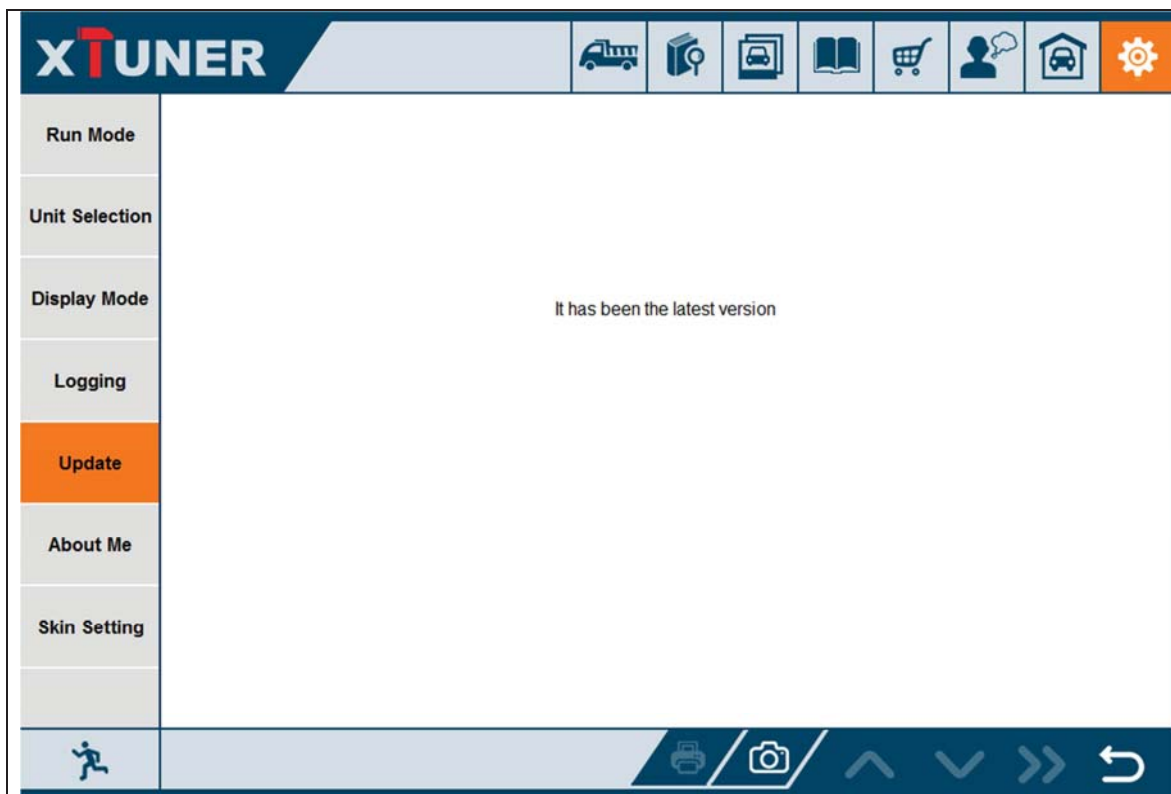
4.4.4 Logging

Logging function is available; it can log the data of vehicle communication.



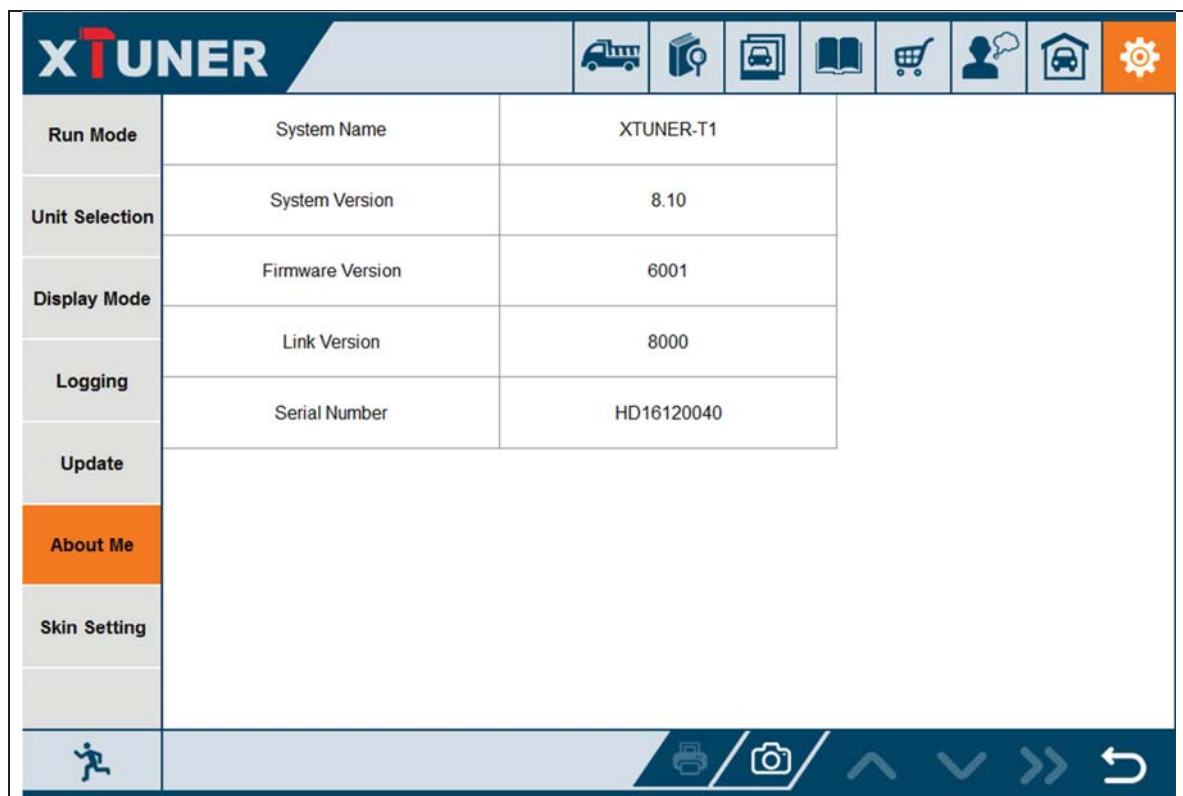
4.5.5 Update

If there is a new version, it can automatically prompt to update.



4.5.7 About me

Automatically identify XTUNER-T1 version information, when connection has problem (Wi-Fi or Bluetooth), and it can't read XTUNER-T1 Hardware version, usually, it shows as "Unknown" or "---"; If the connection is OK, it shows hardware version. As the picture shows:



4.5.8 Skin Setting



Here you can change the background color.

4.6 DTC query

DTC query function is a DIY function, users can query, modify and create OBD DTCs by themselves requirement in local DTCs, and users can synchronize to TDINTEL company cloud server through the internet too.

XTUNER
AUTO DTC QUERY SYSTEM

Please input a DTC code and click the search button

P0123

Systems

P=Powertrain
C=Chassis
B=Body
U=Network

Code Type Generic(SAE):
P0, P2, P34-39
B0, B3
C0, C3
U0, U3

Manufacturer Specific:
P1, P30-P33
B1, B2
C1, C2
U1, U2

Sub-systems:
1=Fuel and Air Metering
2=Fuel and Air Metering
3=Ignition System or Engine Misfire
4=Auxiliary Emission Controls
5=Vehicle Speed Control and Idle Controls
6=Computer Output Circuits
7=Transmission Controls
8=Transmission Controls

Identifying specific malfunctioning section of the systems

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XTUNER
AUTO DTC QUERY SYSTEM

Please input a DTC code and click the search button

DTC	Vehicle	Description
P1111	GM_HOLDEN	Intake air temperature sensor signal high
P1111	FORD	Code unallocated
P1111	JAGUAR	Code unallocated
P1111	BMW	Radiator outlet coolant temperature sensor signal low
P1111	VOLVO	Ambient air temperature sensor signal error
P1111	ISUZU	Intake air temperature sensor signal high
P1111	SUBARU	MAP/Barometric pressure sensor signal high
P1111	MAZDA	Code unallocated
P1111	HONDA	Intake air temperature sensor signal high
P1111	TOYOTA	Converter clutch override sensor signal shorted
P1111	NISSAN	Intake variable cam timing solenoid circuit malfunction

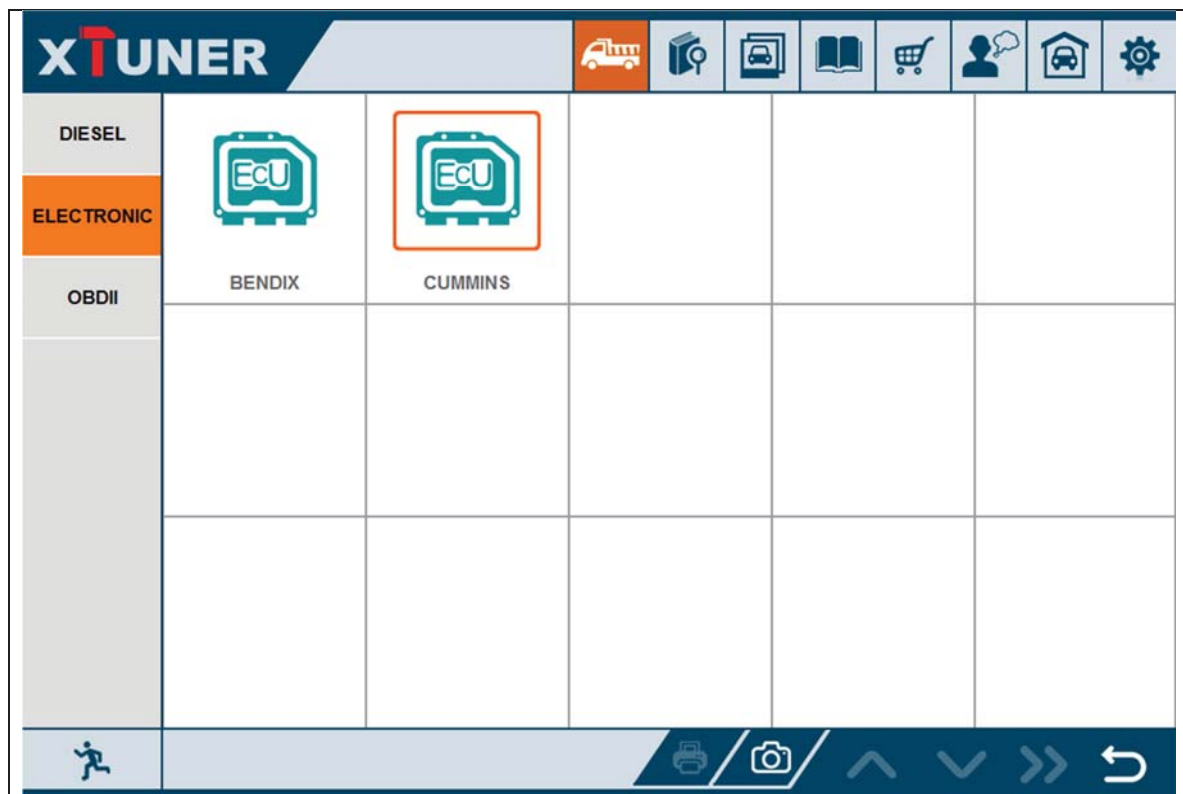
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4.7 Example

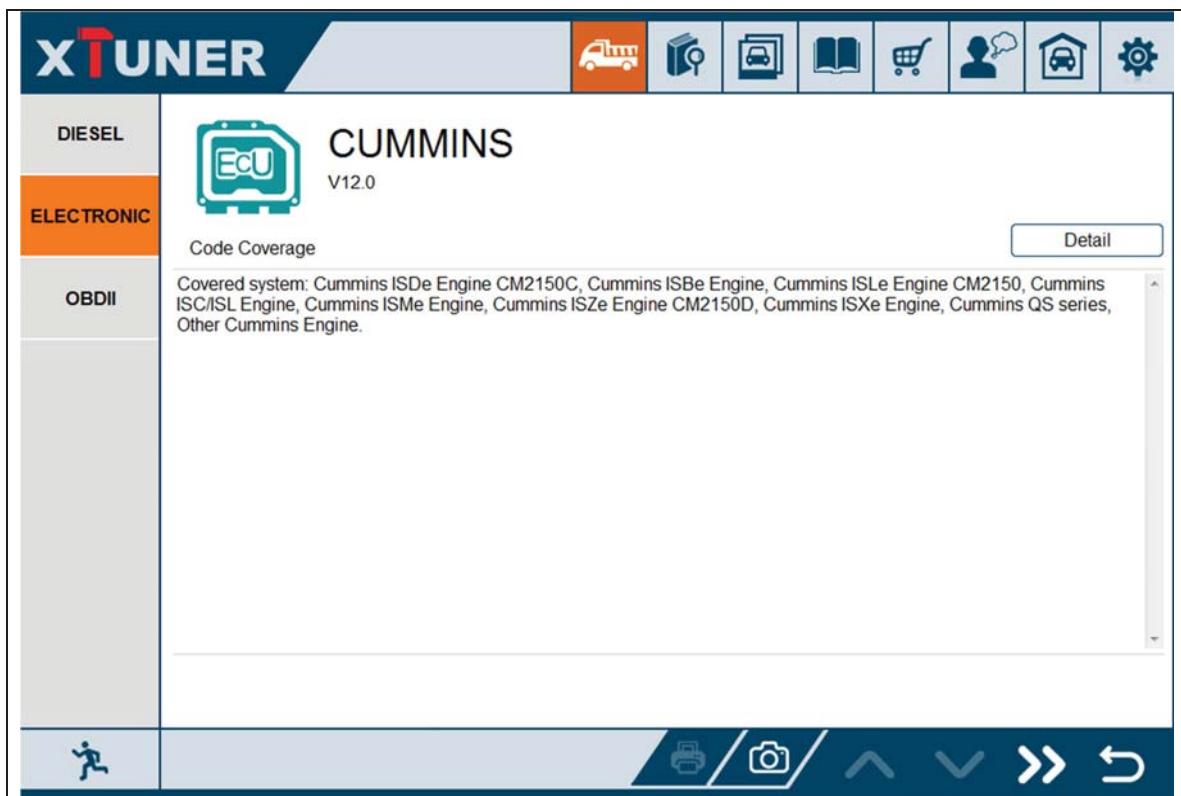
4.7.1 Communication

Please connect XTUNER-T1 with the vehicle. After connection, the power indication light will turn on. Search the WIFI of XTUNER-T1 on the PC or pad, and connect the WIFI point manually. If the WIFI connection successful, the WIFI indication light will turn on.

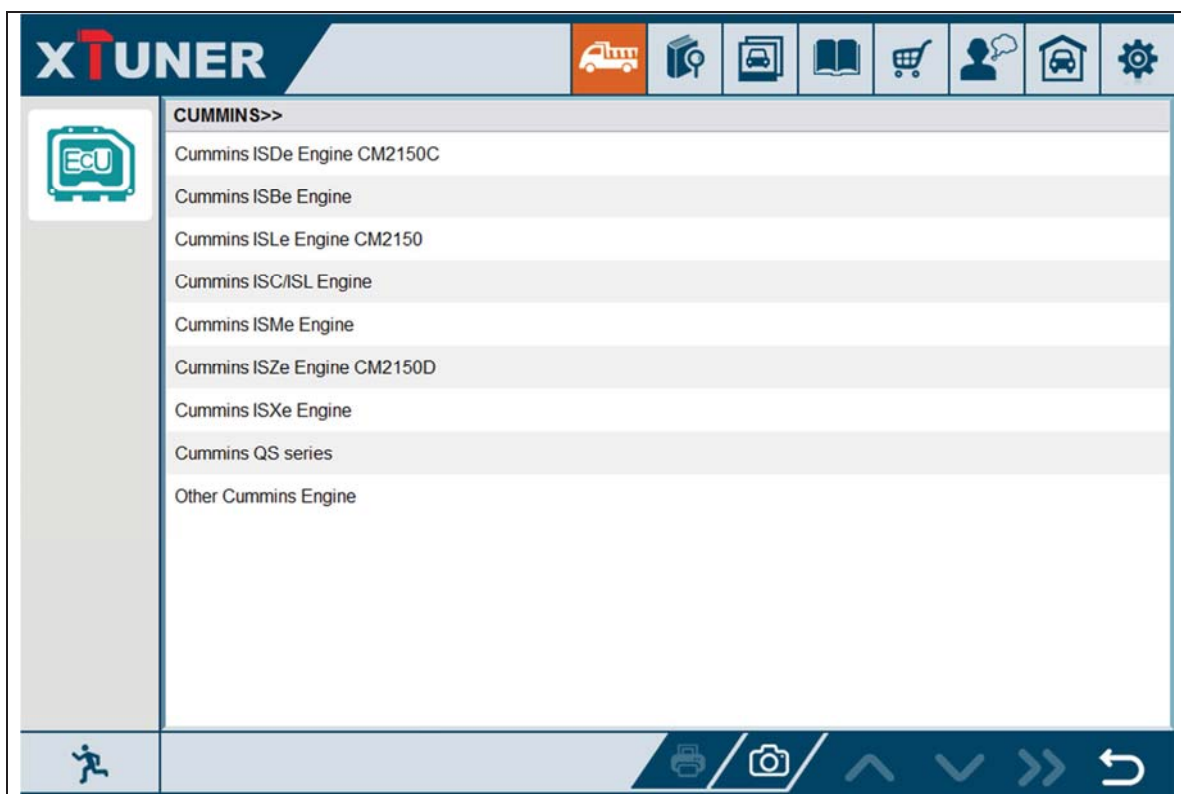
Run the XTUNER-T1, and start to diagnose.

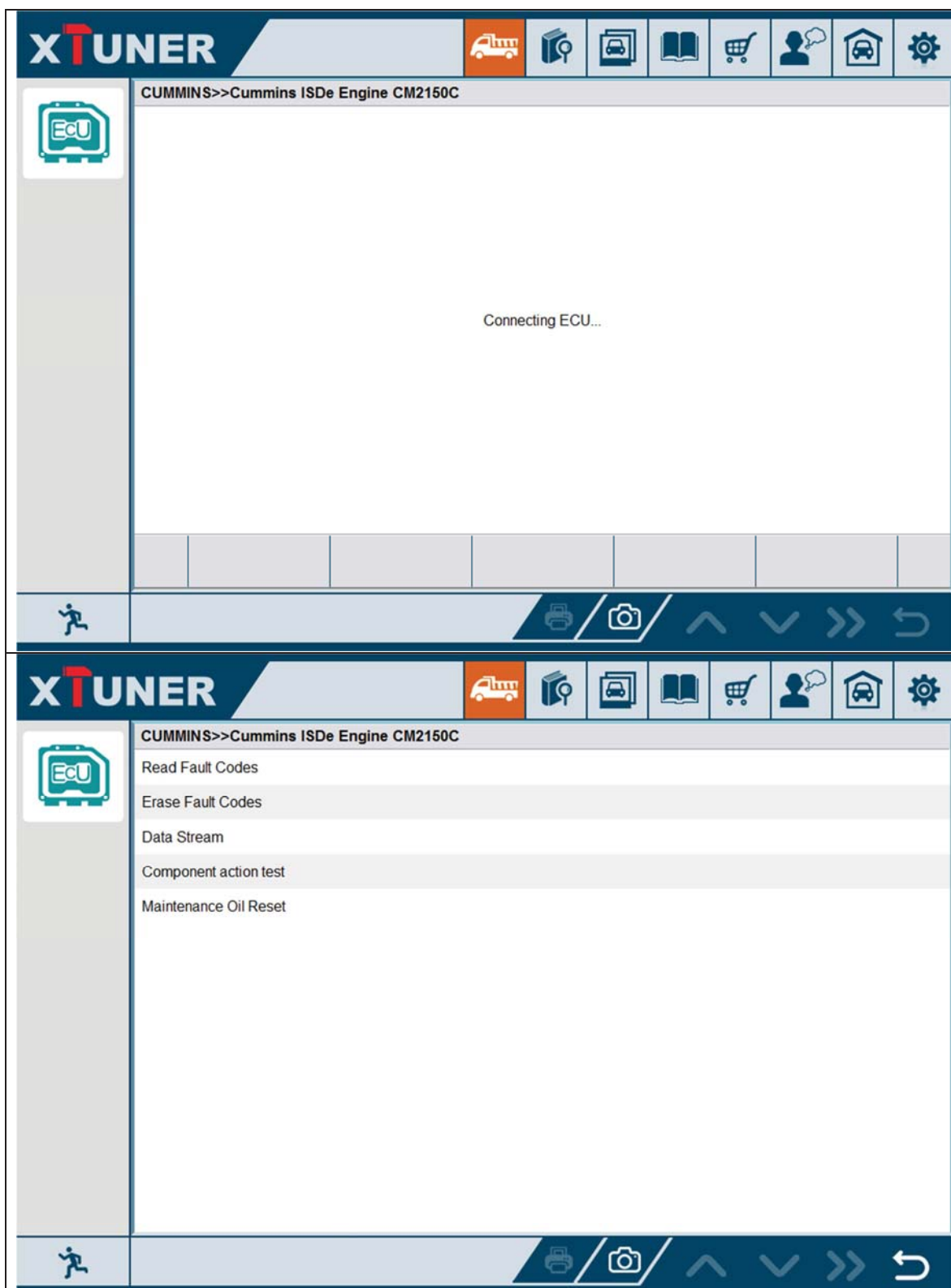


Choose the vehicle you need, and enter the diagnostic system:

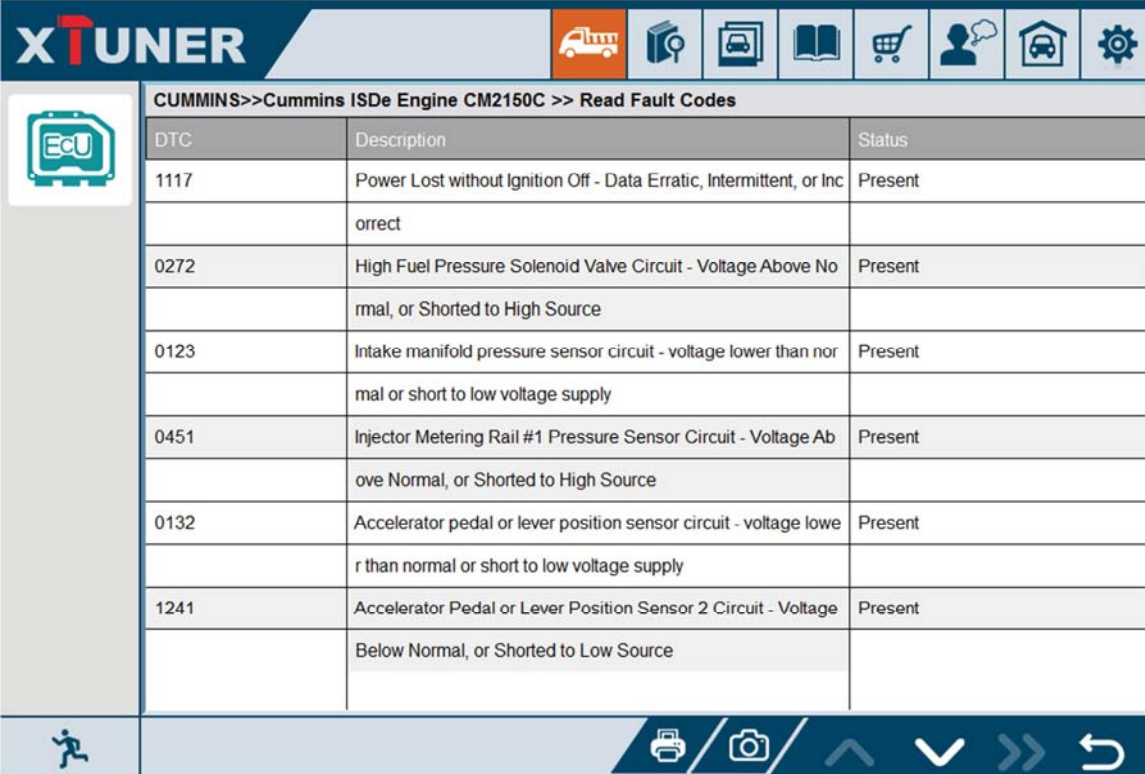


Please press next page.





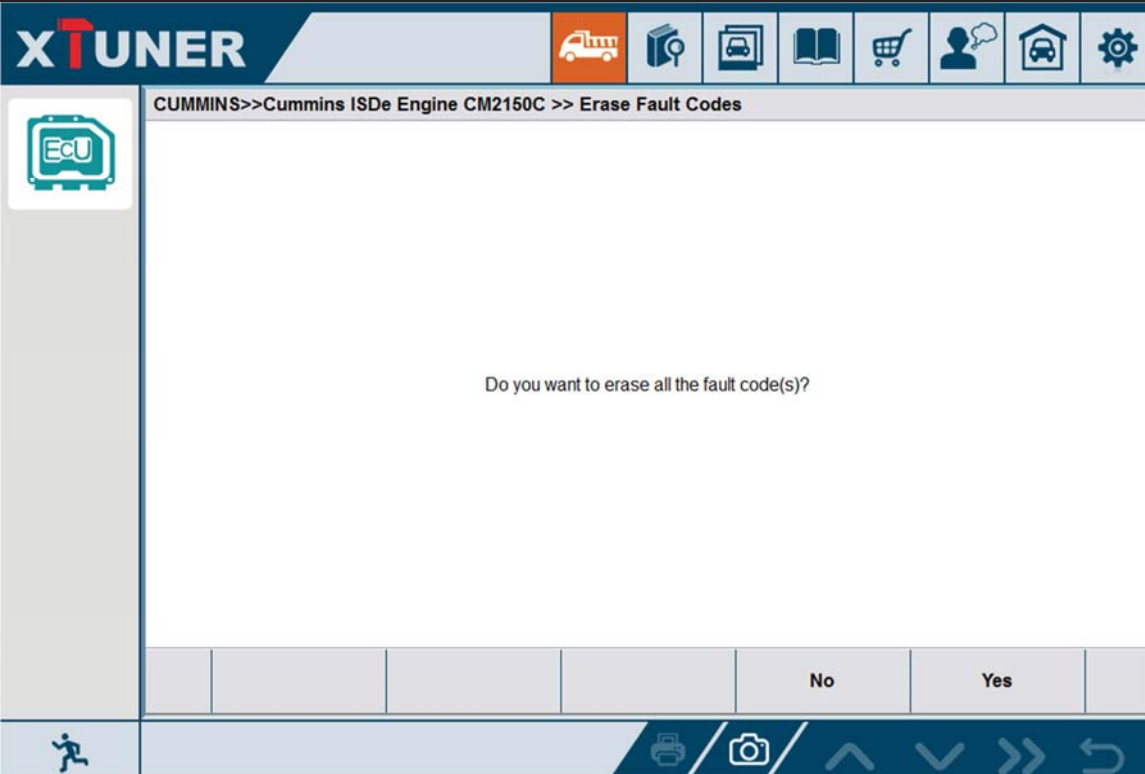
4.8.2 Read DTCs



XTUNER CUMMINS>>Cummins ISDe Engine CM2150C >> Read Fault Codes

DTC	Description	Status
1117	Power Lost without Ignition Off - Data Erratic, Intermittent, or Incorrect	Present
0272	High Fuel Pressure Solenoid Valve Circuit - Voltage Above Normal, or Shorted to High Source	Present
0123	Intake manifold pressure sensor circuit - voltage lower than normal or short to low voltage supply	Present
0451	Injector Metering Rail #1 Pressure Sensor Circuit - Voltage Above Normal, or Shorted to High Source	Present
0132	Accelerator pedal or lever position sensor circuit - voltage lower than normal or short to low voltage supply	Present
1241	Accelerator Pedal or Lever Position Sensor 2 Circuit - Voltage Below Normal, or Shorted to Low Source	Present

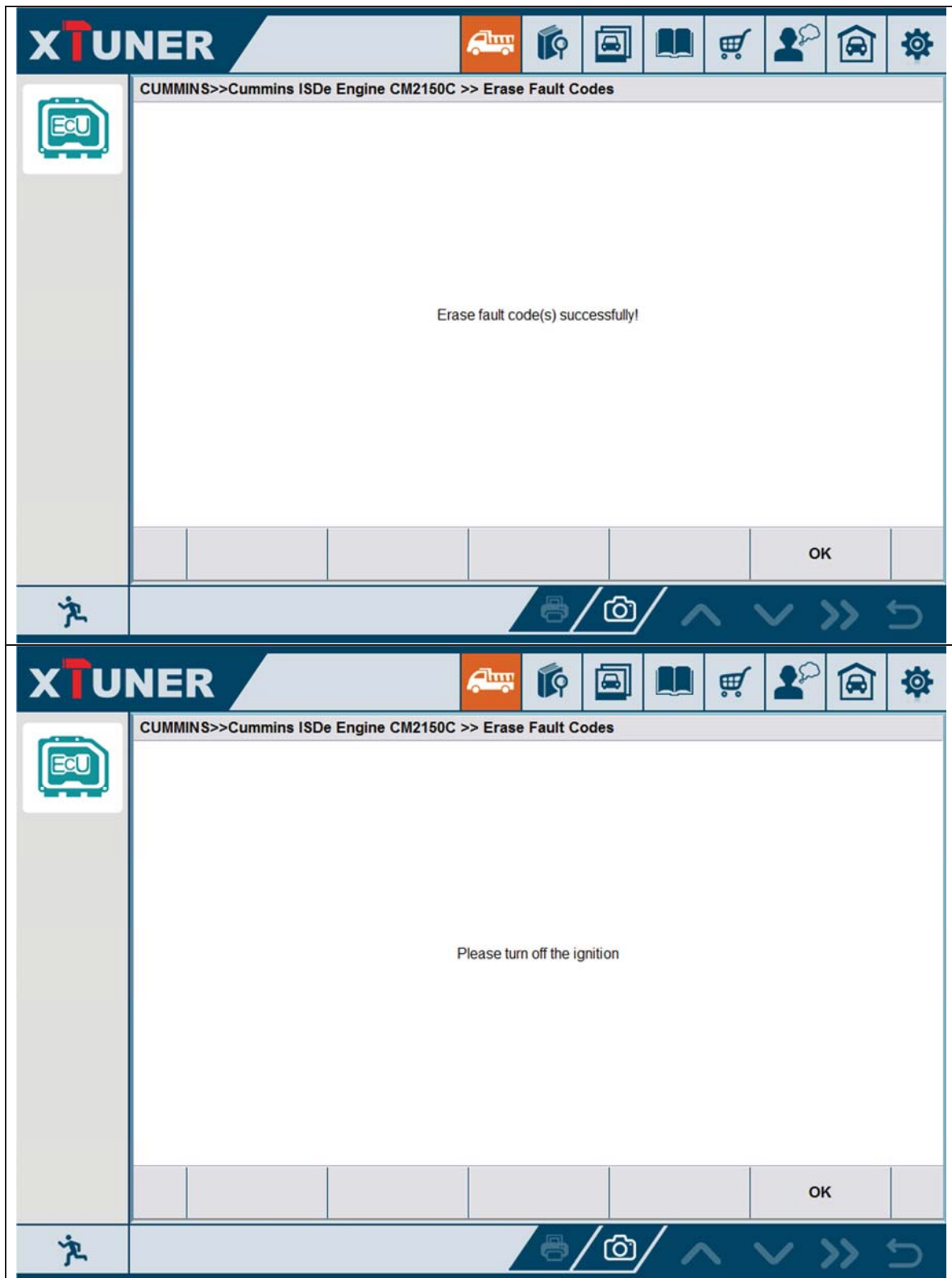
4.8.3 Erase DTCs

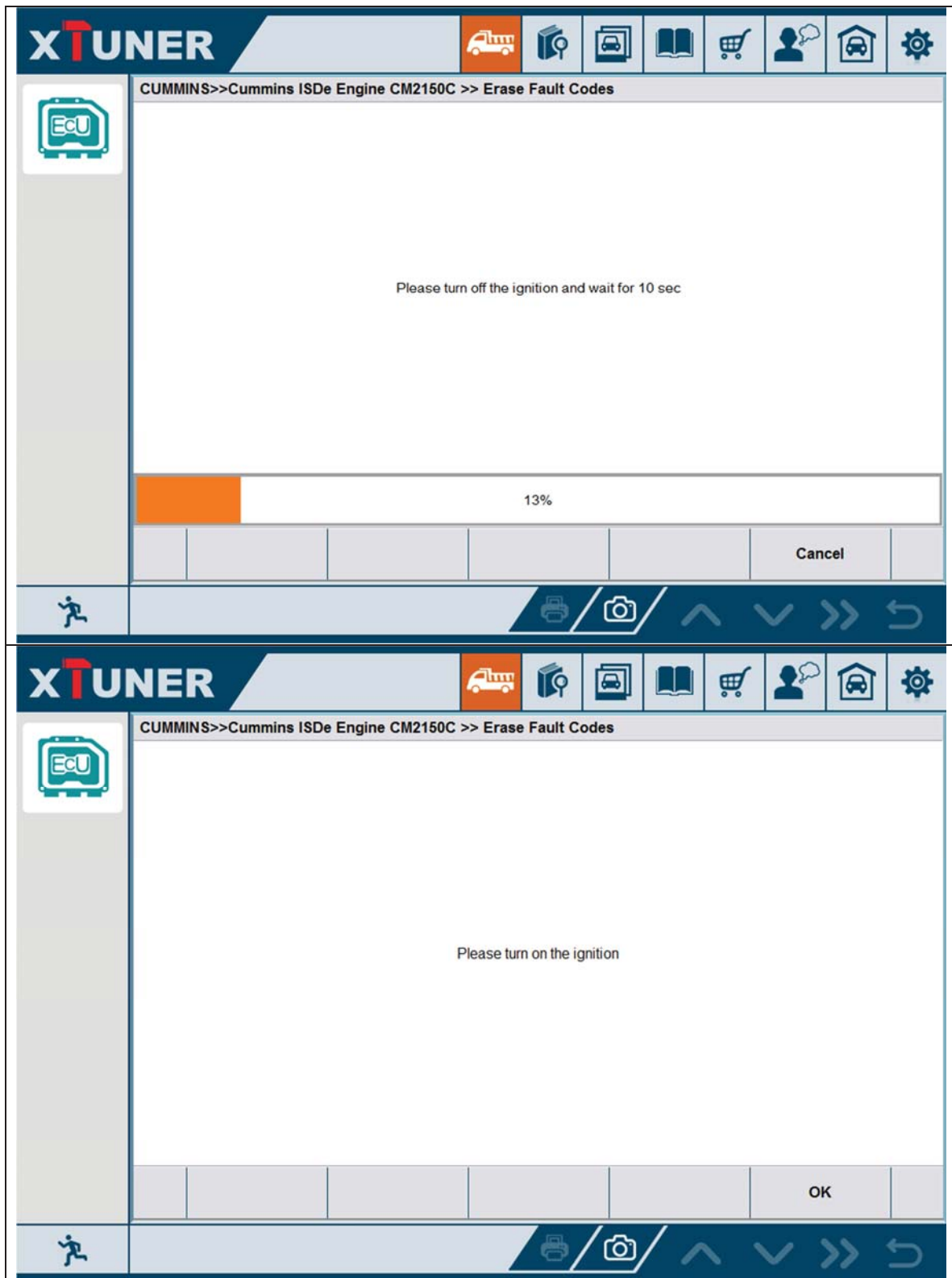


XTUNER CUMMINS>>Cummins ISDe Engine CM2150C >> Erase Fault Codes

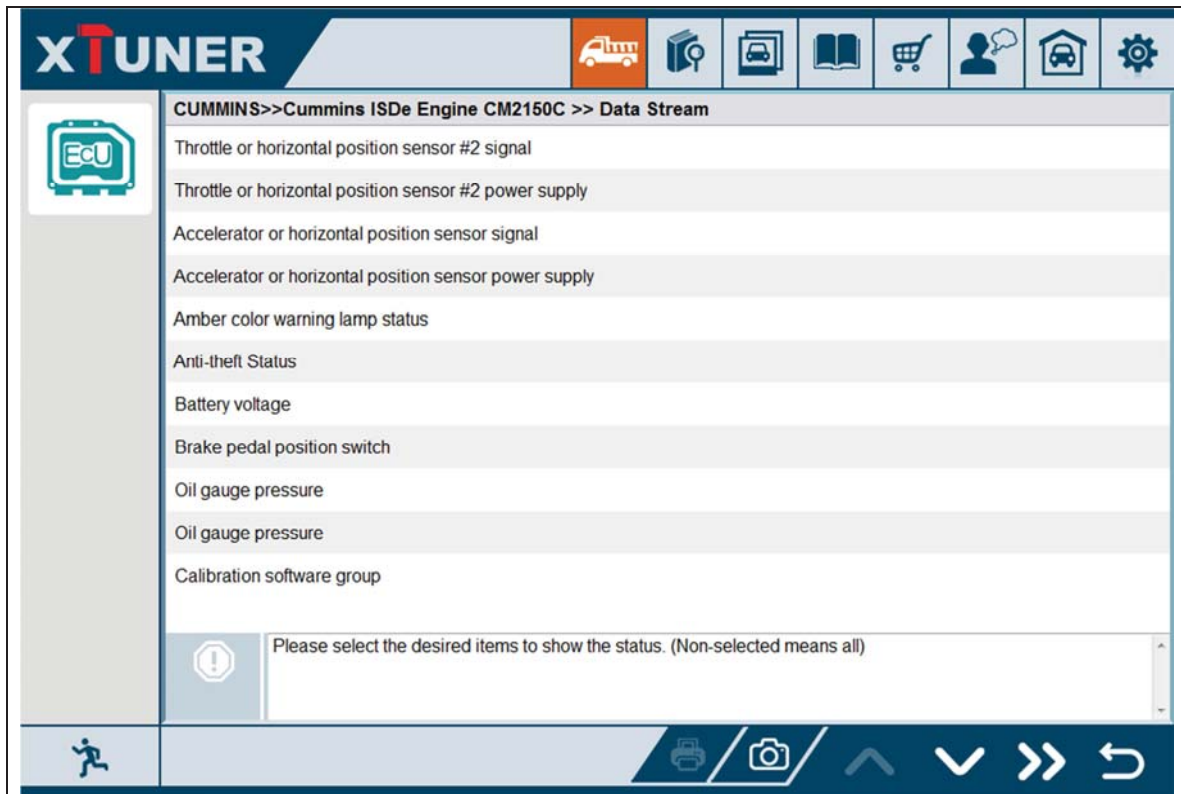
Do you want to erase all the fault code(s)?

No Yes

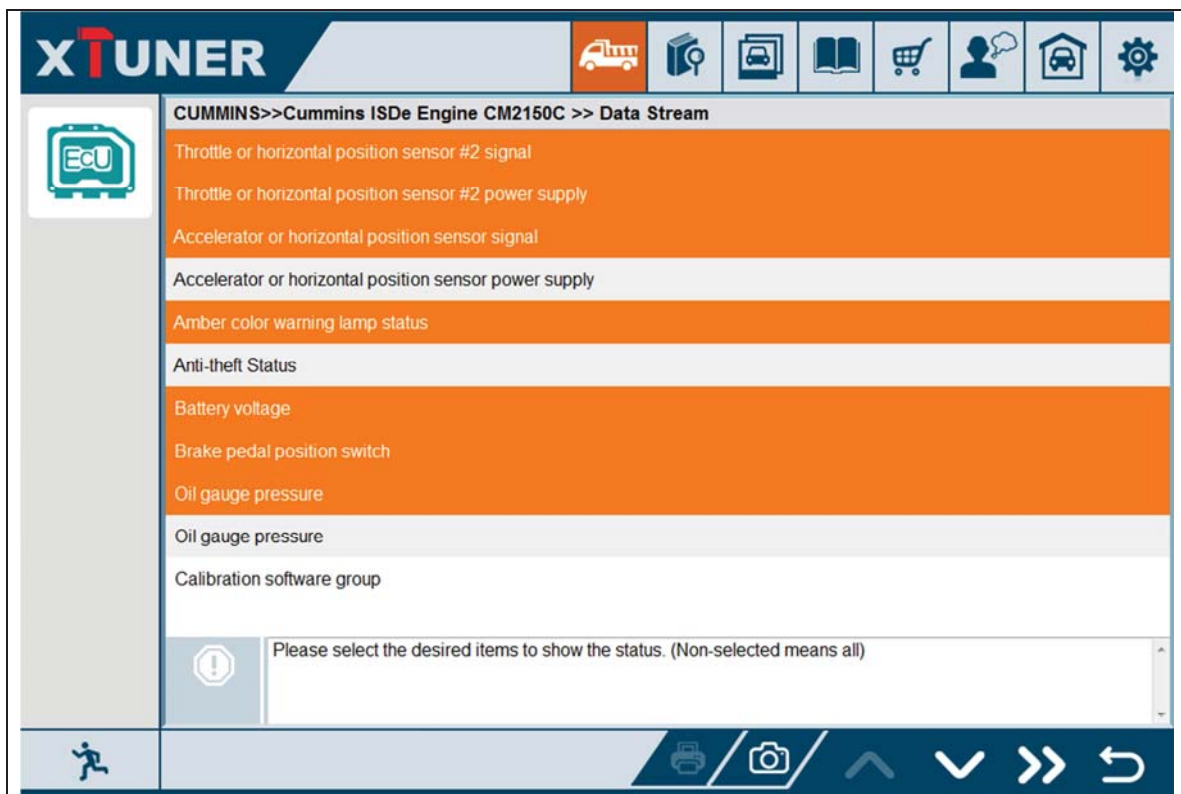


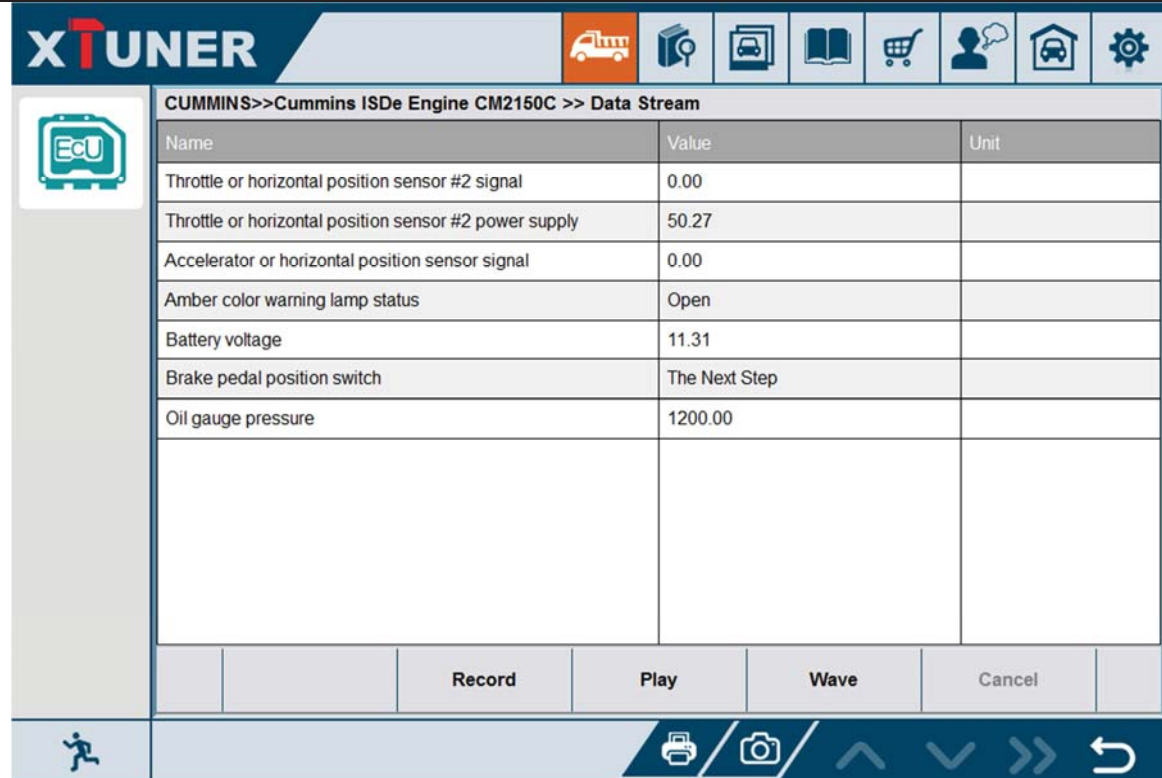


4.8.5 Data List



Select some items:



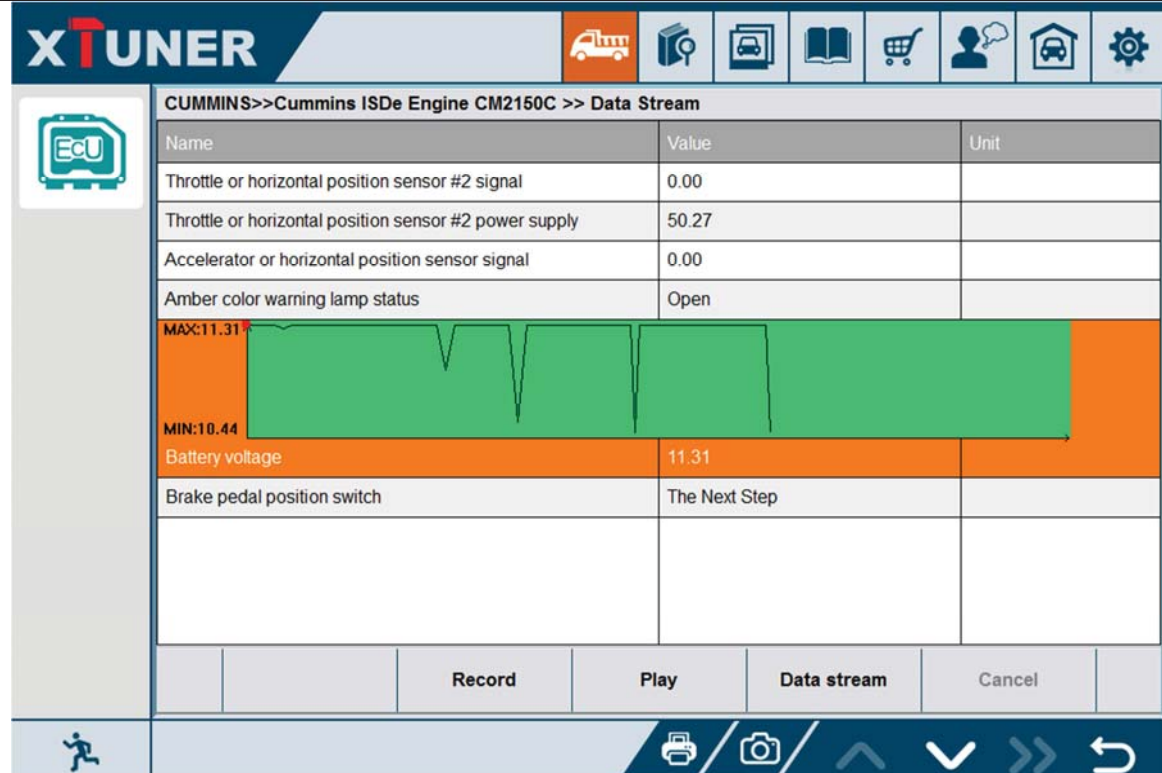


XTUNER CUMMINS>>Cummins ISDe Engine CM2150C >> Data Stream

Name	Value	Unit
Throttle or horizontal position sensor #2 signal	0.00	
Throttle or horizontal position sensor #2 power supply	50.27	
Accelerator or horizontal position sensor signal	0.00	
Amber color warning lamp status	Open	
Battery voltage	11.31	
Brake pedal position switch	The Next Step	
Oil gauge pressure	1200.00	

Record Play Wave Cancel

Select the 1st item, and click the Wave button:

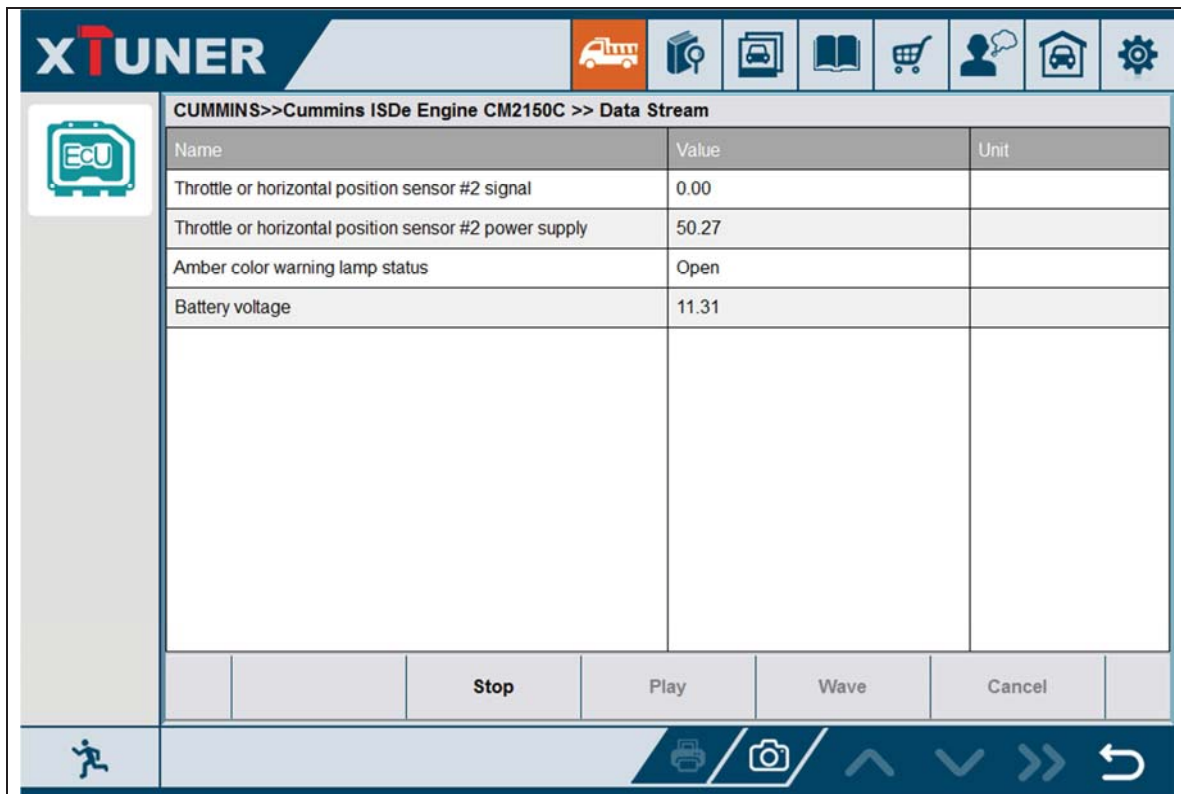


XTUNER CUMMINS>>Cummins ISDe Engine CM2150C >> Data Stream

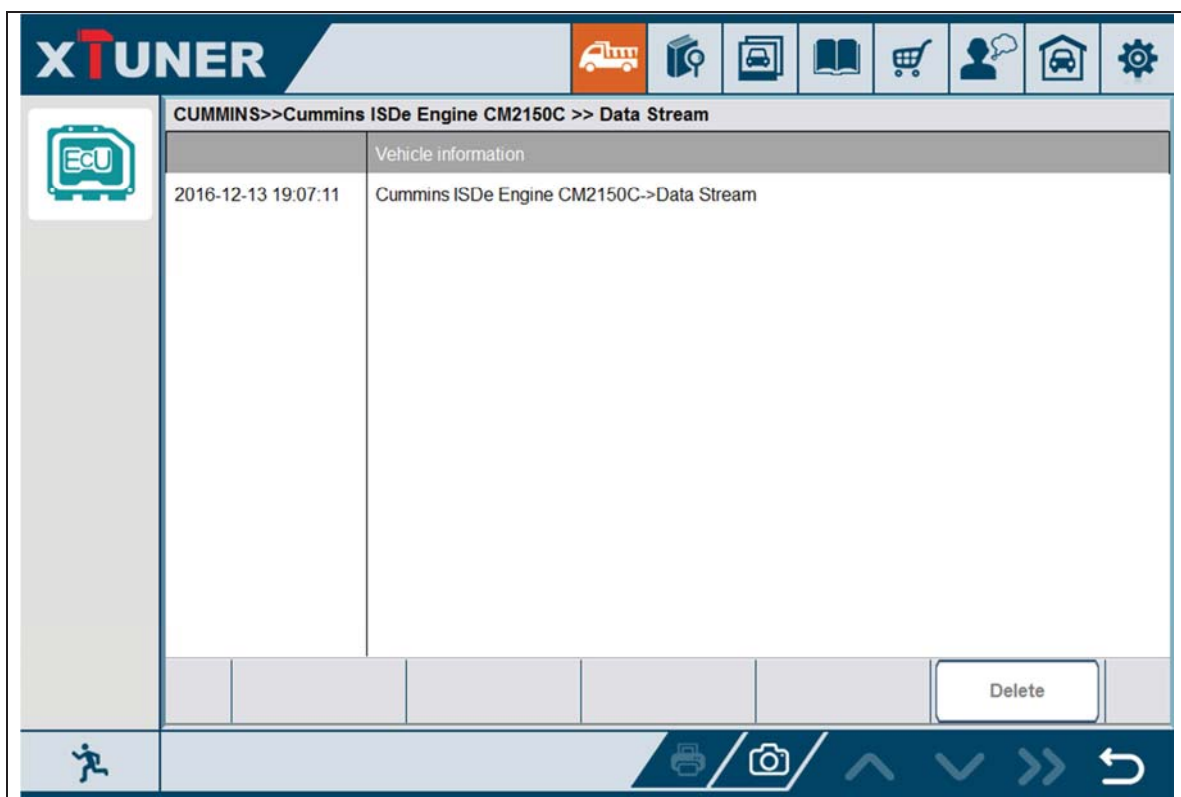
Name	Value	Unit
Throttle or horizontal position sensor #2 signal	0.00	
Throttle or horizontal position sensor #2 power supply	50.27	
Accelerator or horizontal position sensor signal	0.00	
Amber color warning lamp status	Open	
Battery voltage	11.31	
Brake pedal position switch	The Next Step	

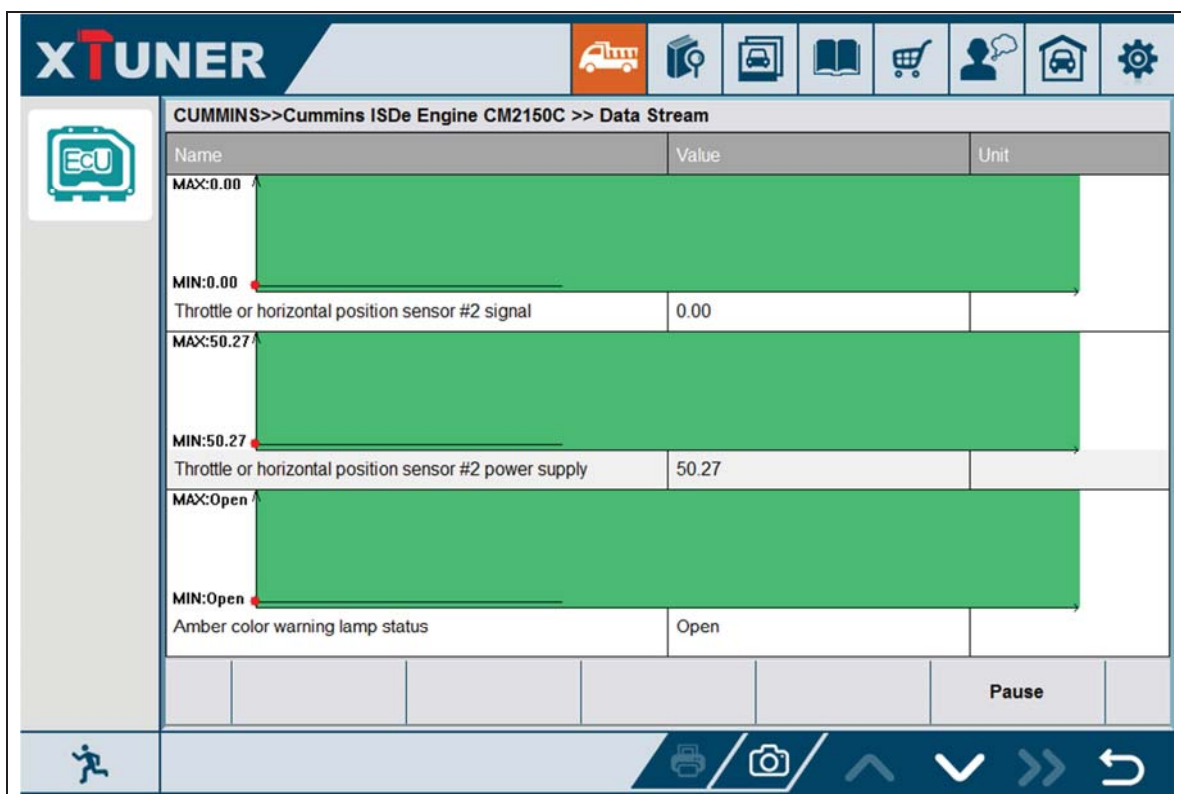
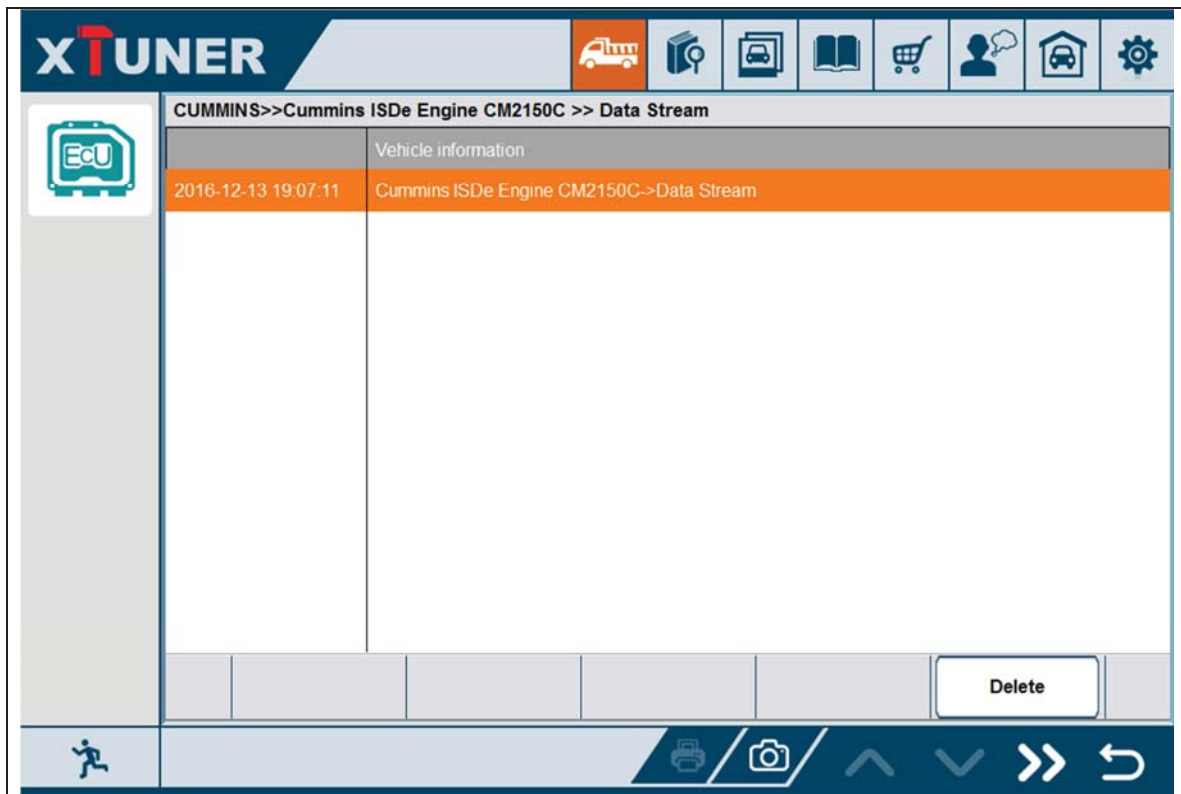
Record Play Data stream Cancel

Click the Record button to start data recording, until to click Stop button to stop recording:

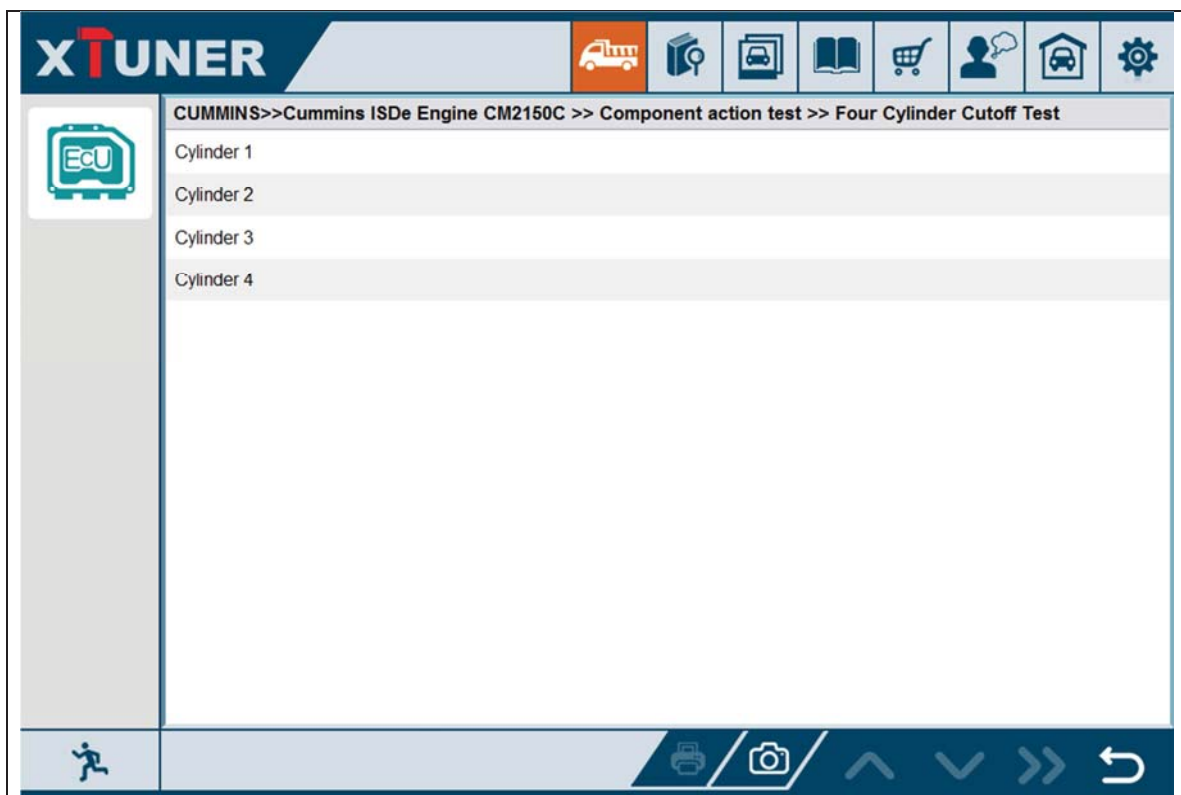
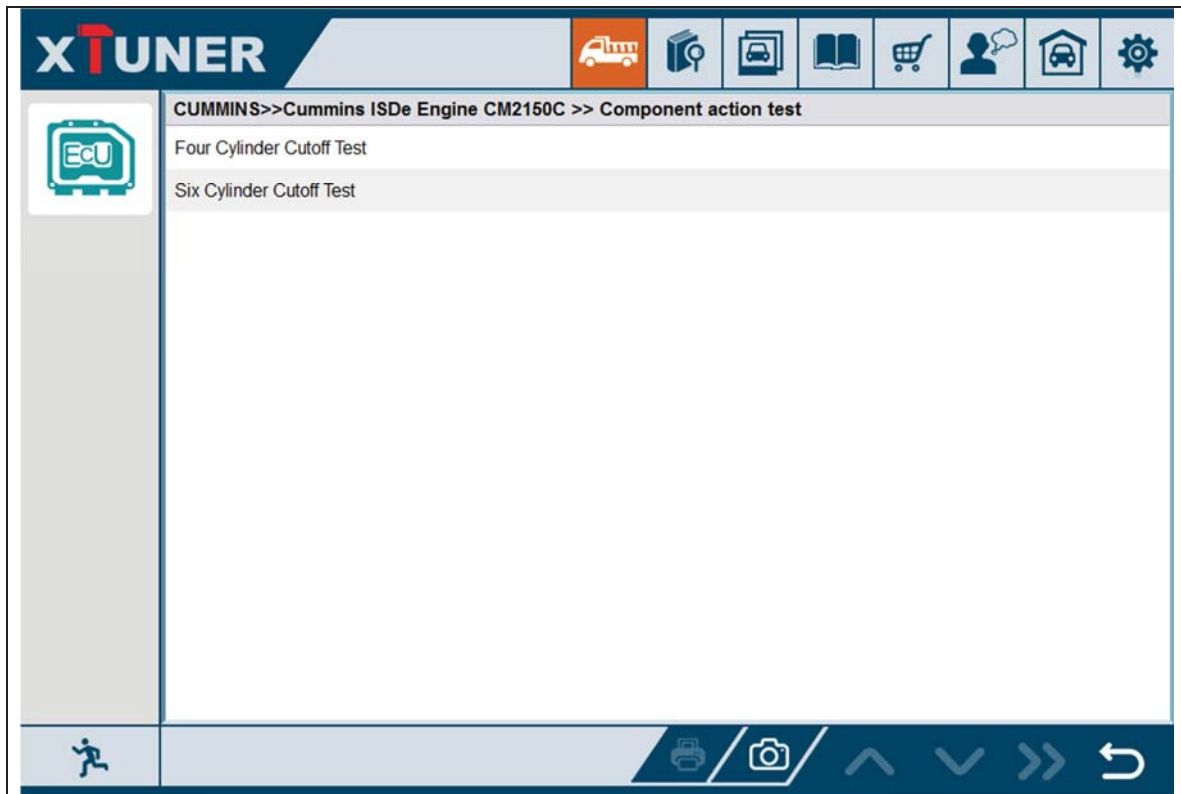


Click the Play button, it will show the recording data list, select one of them and replay the recording data:





4.8.6 Actuation Test
















CUMMINS>>Cummins ISDe Engine CM2150C >> Component action test >> Four Cylinder Cutoff Test >> Cylinder 1

Name	Value
Test Result	---

Exit

Reset

Start























CUMMINS>>Cummins ISDe Engine CM2150C >> Component action test >> Four Cylinder Cutoff Test >> Cylinder 1

Name	Value
Test Result	Start

Exit

Reset

Start



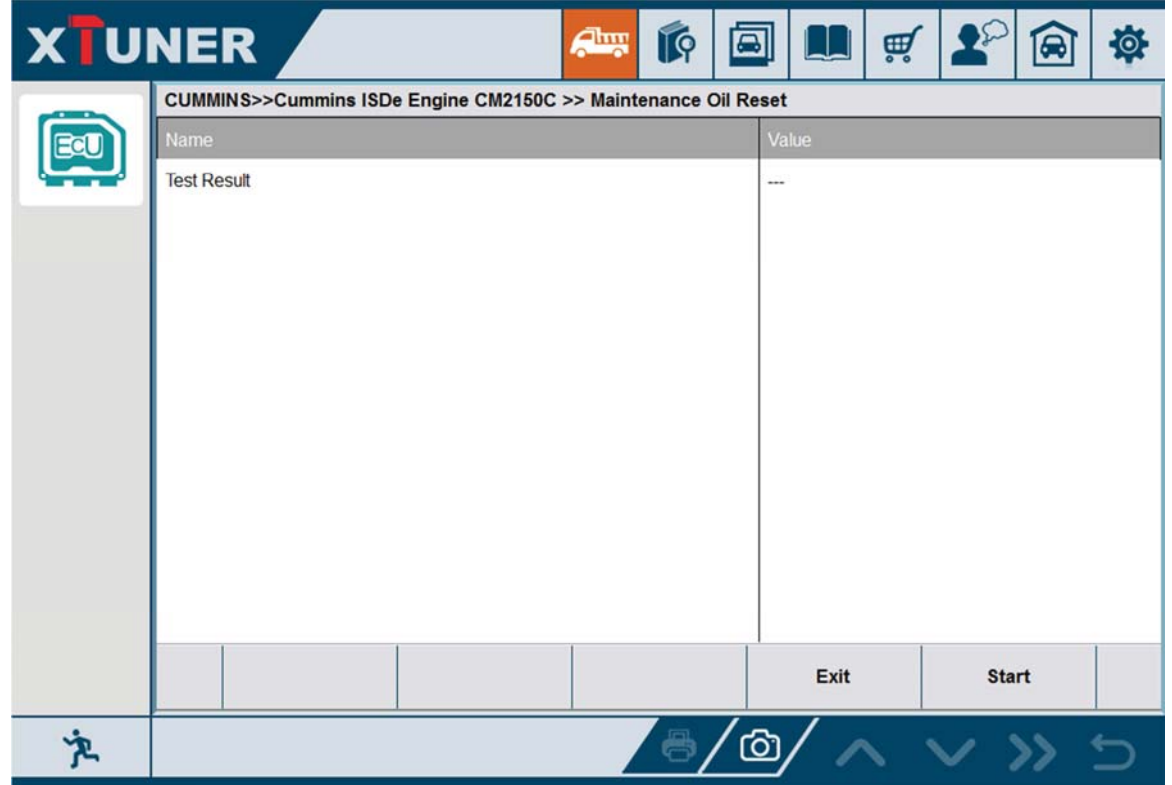






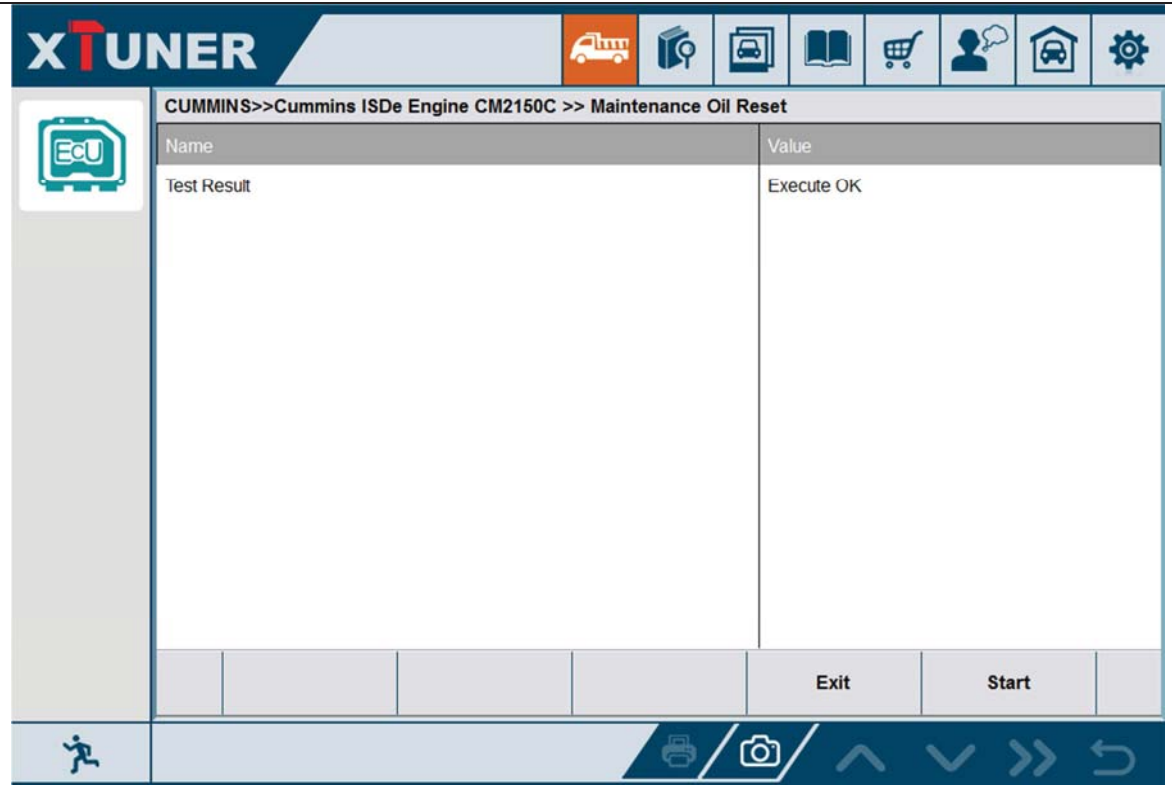

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4.8.7 Maintenance Oil Reset



Name	Value
Test Result	---

Exit Start

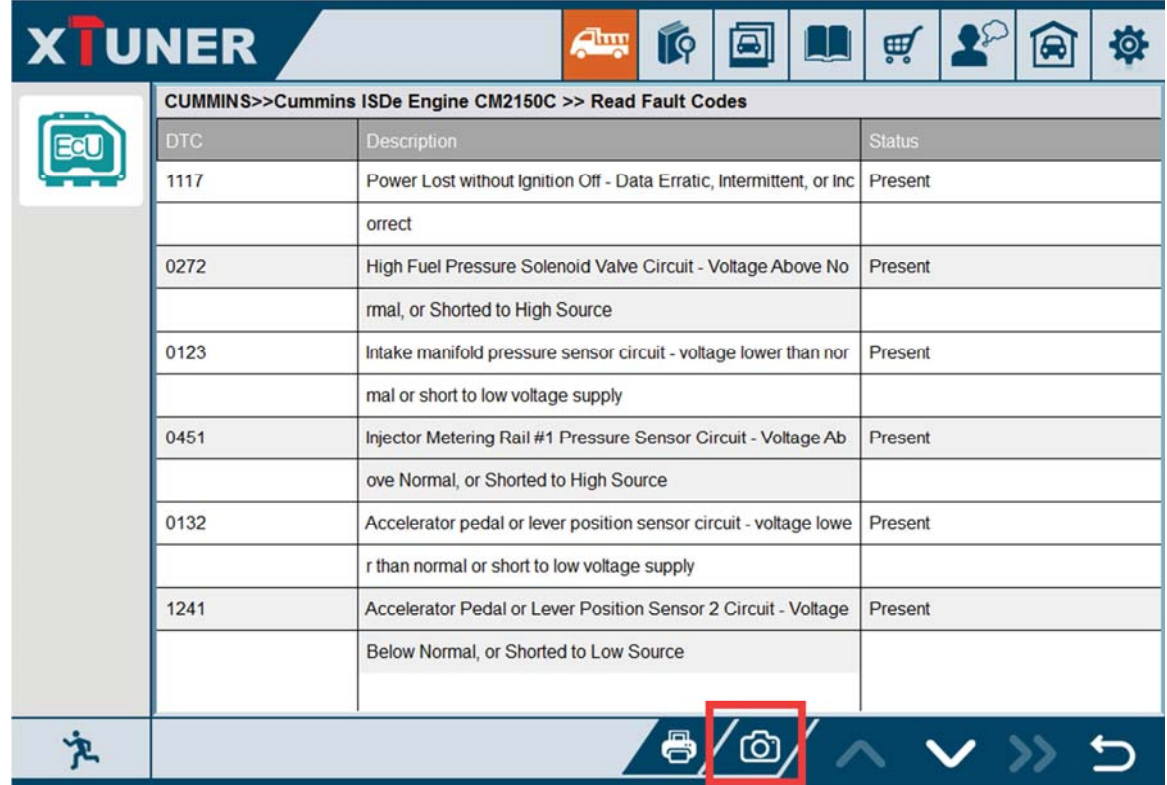


Name	Value
Test Result	Execute OK

Exit Start

4.8 Screenshot

Captures, saves and prints screenshots anytime and anywhere.

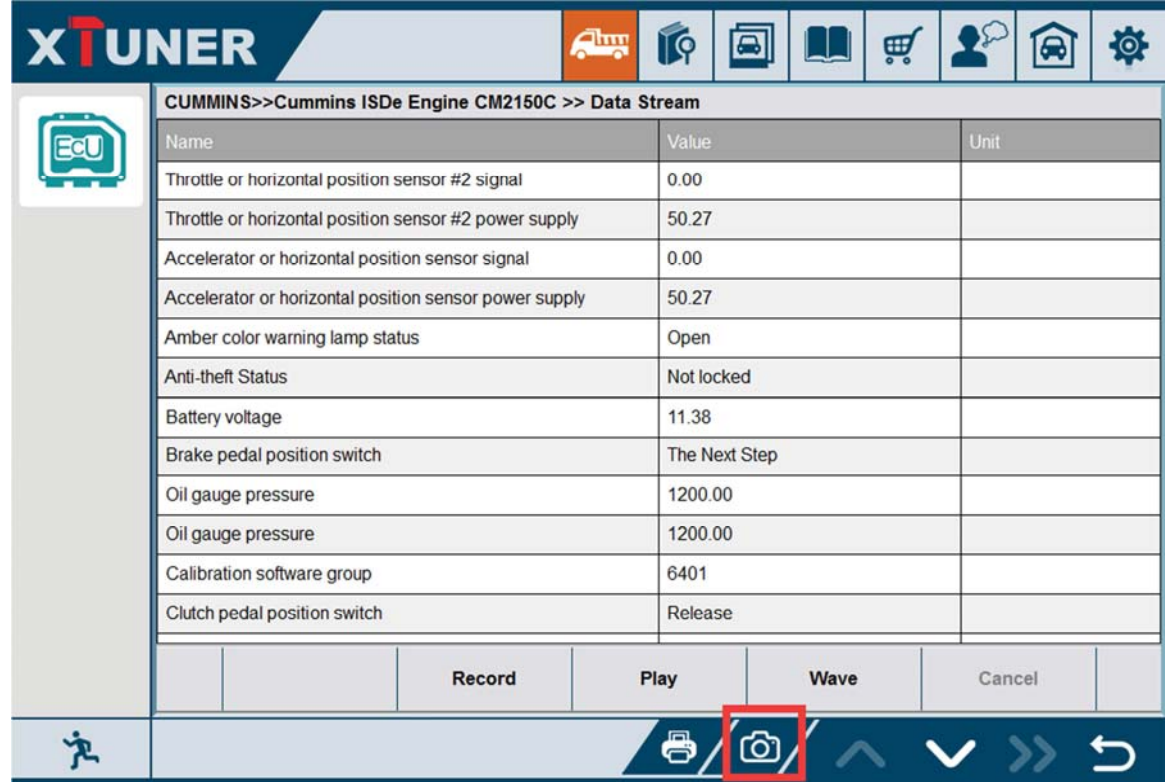


XTUNER

CUMMINS>>Cummins ISDe Engine CM2150C >> Read Fault Codes

DTC	Description	Status
1117	Power Lost without Ignition Off - Data Erratic, Intermittent, or Incorrect	Present
0272	High Fuel Pressure Solenoid Valve Circuit - Voltage Above Normal, or Shorted to High Source	Present
0123	Intake manifold pressure sensor circuit - voltage lower than normal or short to low voltage supply	Present
0451	Injector Metering Rail #1 Pressure Sensor Circuit - Voltage Above Normal, or Shorted to High Source	Present
0132	Accelerator pedal or lever position sensor circuit - voltage lower than normal or short to low voltage supply	Present
1241	Accelerator Pedal or Lever Position Sensor 2 Circuit - Voltage Below Normal, or Shorted to Low Source	Present

Bottom toolbar icons: Print, **Camera**, Up, Down, Left, Right, Refresh.



XTUNER

CUMMINS>>Cummins ISDe Engine CM2150C >> Data Stream

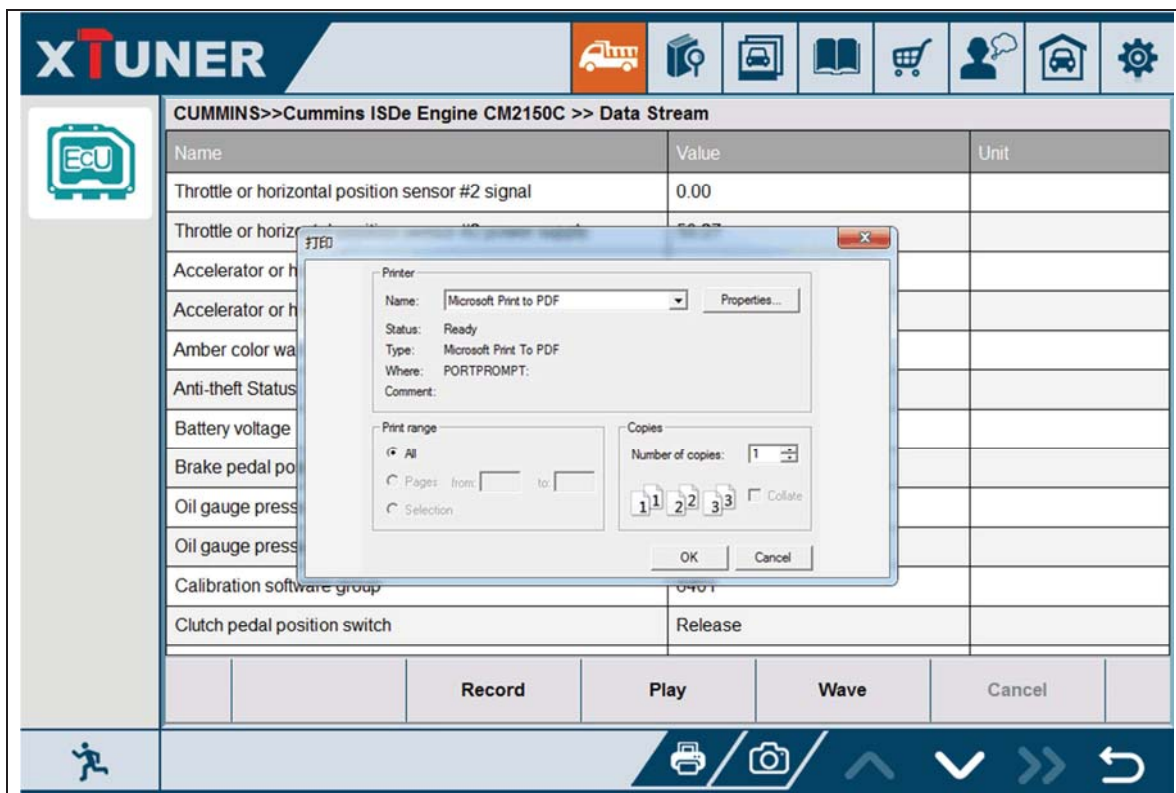
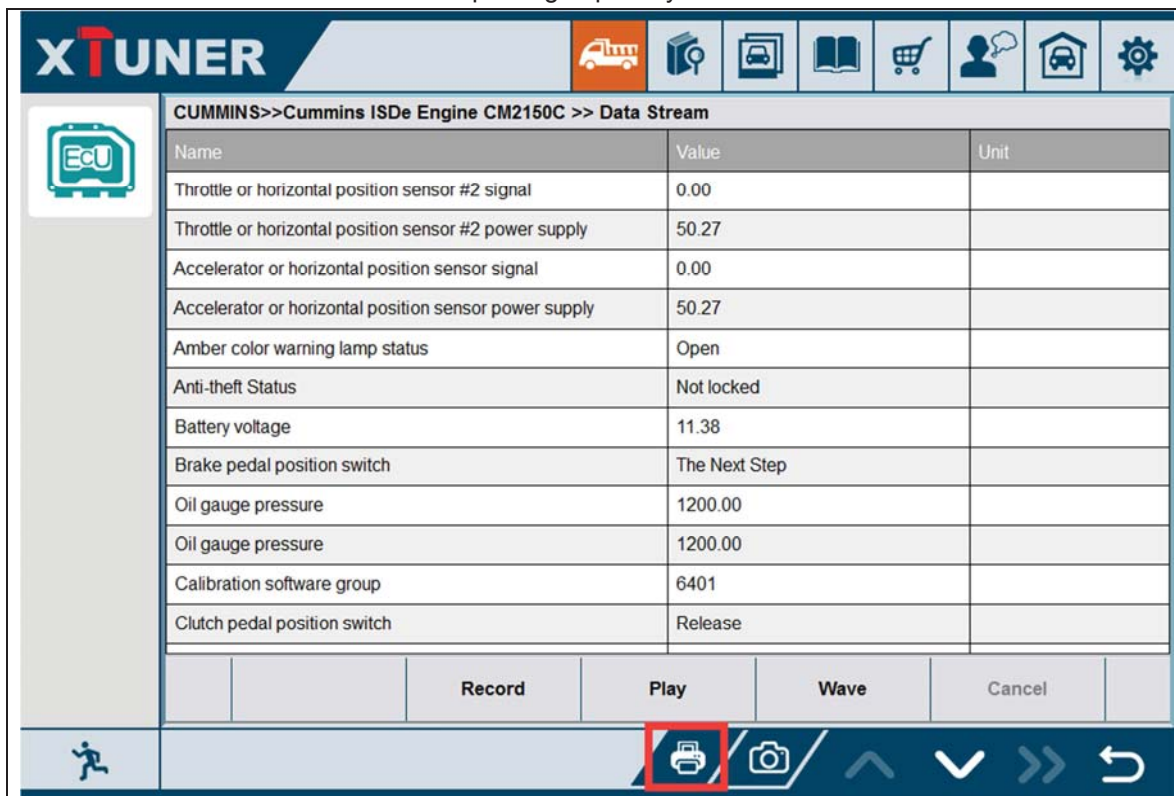
Name	Value	Unit
Throttle or horizontal position sensor #2 signal	0.00	
Throttle or horizontal position sensor #2 power supply	50.27	
Accelerator or horizontal position sensor signal	0.00	
Accelerator or horizontal position sensor power supply	50.27	
Amber color warning lamp status	Open	
Anti-theft Status	Not locked	
Battery voltage	11.38	
Brake pedal position switch	The Next Step	
Oil gauge pressure	1200.00	
Oil gauge pressure	1200.00	
Calibration software group	6401	
Clutch pedal position switch	Release	

Buttons: Record, Play, Wave, Cancel

Bottom toolbar icons: Print, **Camera**, Up, Down, Left, Right, Refresh.

4.9 Print

Prints out recorded data with Wi-Fi printing capability.



Press "OK" to print the test report, as below:



★ Company name:
 西 Address
 ☎ Tel:
 ☎ Fax:
 ✉ Email

Date: 2015-09-23 11:44:19
 Vehicle: HONDA PRO

Path: HONDA PRO / GENERAL / CITY / AT / Data List

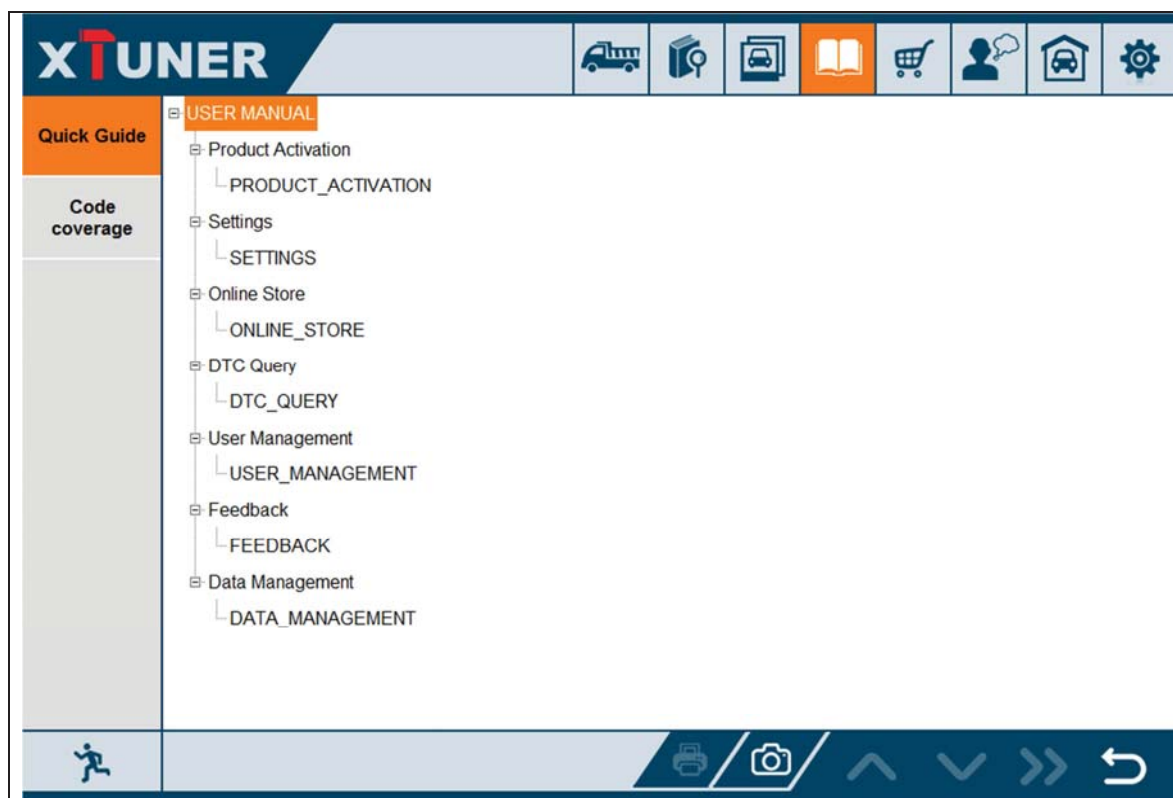
Live Data

Name	Value	Unit
ENGINE SPEED	10628	RPM
DRIVE PULLEY	8456	RPM
DRIVEN PULLEY	11111	RPM
SECONDARY SHAFT SPEED	7639	RPM
VEHICLE SPEED	125	km/h
SECONDARY SHAFT SPEED	172	km/h
DRIVEN PULLEY SPEED	207	km/h
TP SENSOR	44.3	deg
MAP SENSOR	157	kPa
PNP SWITCH	ON	
A/T R SWITCH	OFF	
A/T D SWITCH	OFF	
A/T L SWITCH	ON	
SCS	SHORT	
BRAKE SWITCH	ON	
MODE D SWITCH	ON	
MODE S1/S2 SWITCH	ON	
S1 INDICATOR	ON	
S2 INDICATOR	OFF	
D INDICATOR	OFF	
INHIBITOR SOL	ON	
COOLING CONTROL	OFF	
FEEDBACK LEARN	Completed	
SHIFT CONTROL SOL	99.24	A
PULLEY CONTROL SOL	81.61	A
START CLUTCH CONTROL SOL	8.49	A

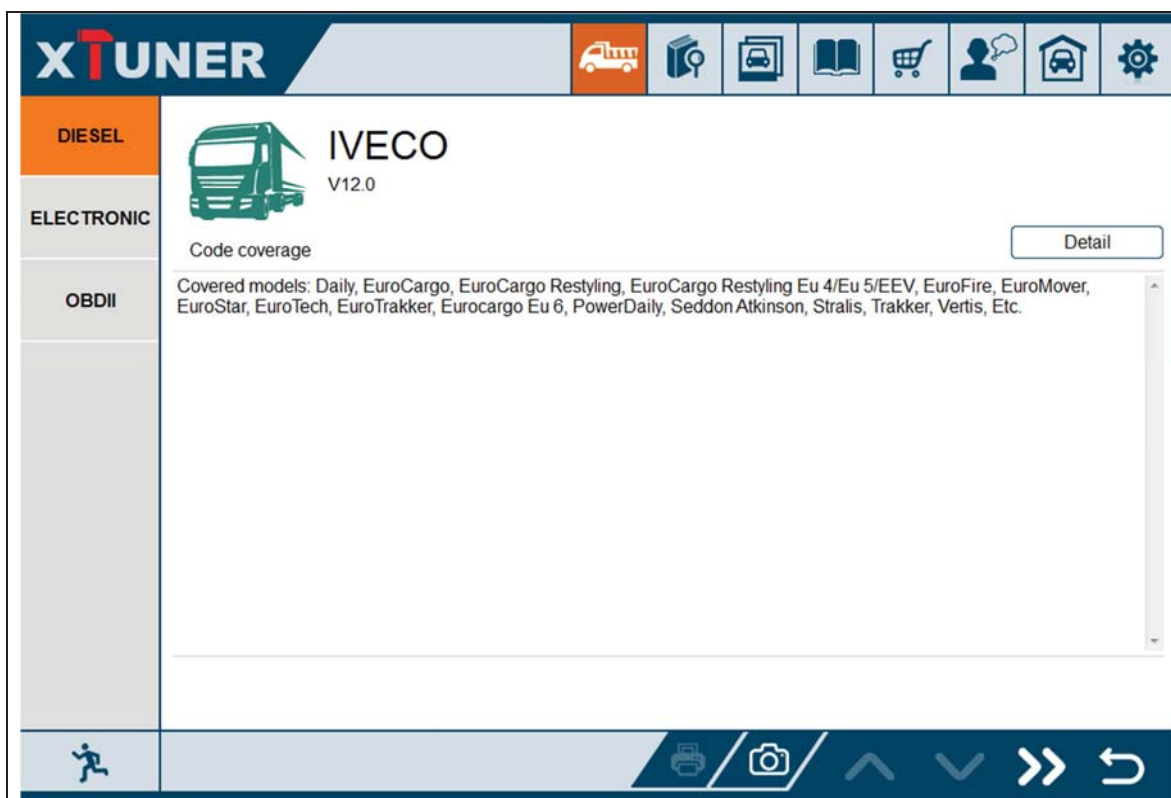
- 1 -

4.10 Manual

In manual function, you can read the XTUNER-T1 quick guide and the vehicle code coverage.



4.11 Diagnose function list



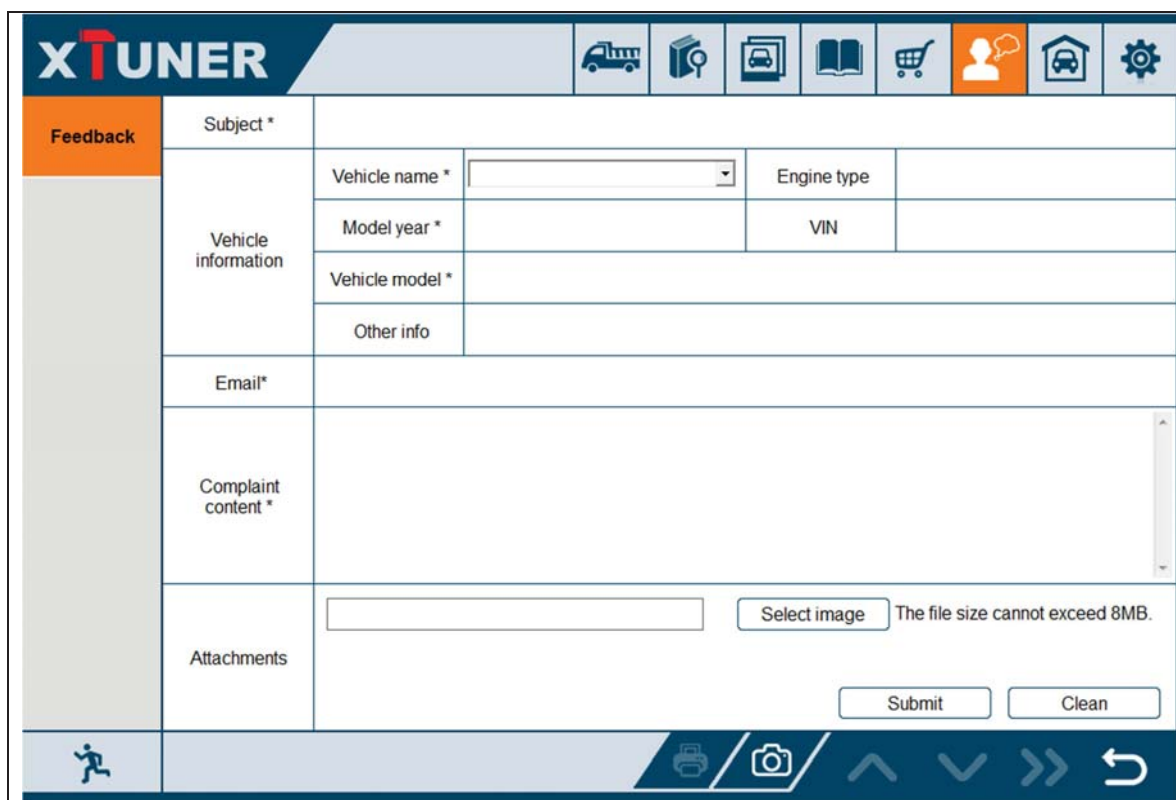
Press "Detail" button

HD-IVECO_EN.pdf - 1/2 (100 dpi)

VEHICLE INFORMATION			FUNCTION					
Model	Exhaustion Standard	System	ECU INFO	DTC	DTC Freeze	Data List	Actuations	Spec. Func.
Daily	Euro-2/3	ENGINE	X	X		X	X	New immobilizer ECU
EuroCargo	Euro-2/3	ENGINE	X	X		X	X	
EuroCargo	Euro 4/5/EEV	ENGINE	X	X		X	X	
EuroCargo	Euro 4/5/EEV	MULTIPLEXER	X	X		X		
EuroCargo	Others	ENGINE	X	X		X	X	
Eurocargo Eu 6	Euro 6	ENGINE	X	X		X	X	
EuroCargo Restyling	Others	ENGINE	X	X		X	X	
EuroCargo Restyling Eu 4/Eu 5/EEV	Others	ENGINE	X	X		X	X	
Stralis	Euro 3	ENGINE				X		
Stralis	Euro 3	BRAKING SYSTEMS	X	X		X		
Stralis	Euro 3	SUSPENSIONS	X	X		X		
Stralis	Euro 3	MULTIPLEXER	X	X		X		
Stralis	Euro 4/5/EEV	ENGINE	X	X		X	X	
Stralis	Euro 4/5/EEV	BRAKING SYSTEMS	X	X		X		
Stralis	Euro 4/5/EEV	SUSPENSIONS	X	X		X		
Stralis	Euro 4/5/EEV	MULTIPLEXER	X	X		X		
Stralis	Euro 6	ENGINE	X	X		X	X	
Trakker	Euro-2/3	ENGINE	X	X		X		
Trakker	Euro-2/3	SUSPENSIONS	X	X		X		
Trakker	Euro-2/3	MULTIPLEXER	X	X		X		
Trakker	Euro-2/3	DASHBOARD	X	X		X		

4.12 Feedback

The information of diagnostic software problems can be uploaded to the manufacture by this function. It helps the engineers to fix the bugs quickly.



The screenshot shows the XTUNER Feedback form. The form has a header bar with the XTUNER logo and several navigation icons. The main form area is divided into sections: a 'Feedback' sidebar, a 'Subject *' field, a 'Vehicle information' section with fields for 'Vehicle name *', 'Engine type', 'Model year *', 'VIN', 'Vehicle model *', and 'Other info', an 'Email*' field, a 'Complaint content *' text area, and an 'Attachments' section with a file upload button and a size limit of 8MB. At the bottom, there are 'Submit' and 'Clean' buttons. The footer bar contains a running person icon, a printer icon, a camera icon, and navigation arrows.

NOTE: With * information is required; the attachments size cannot exceed 8MB.

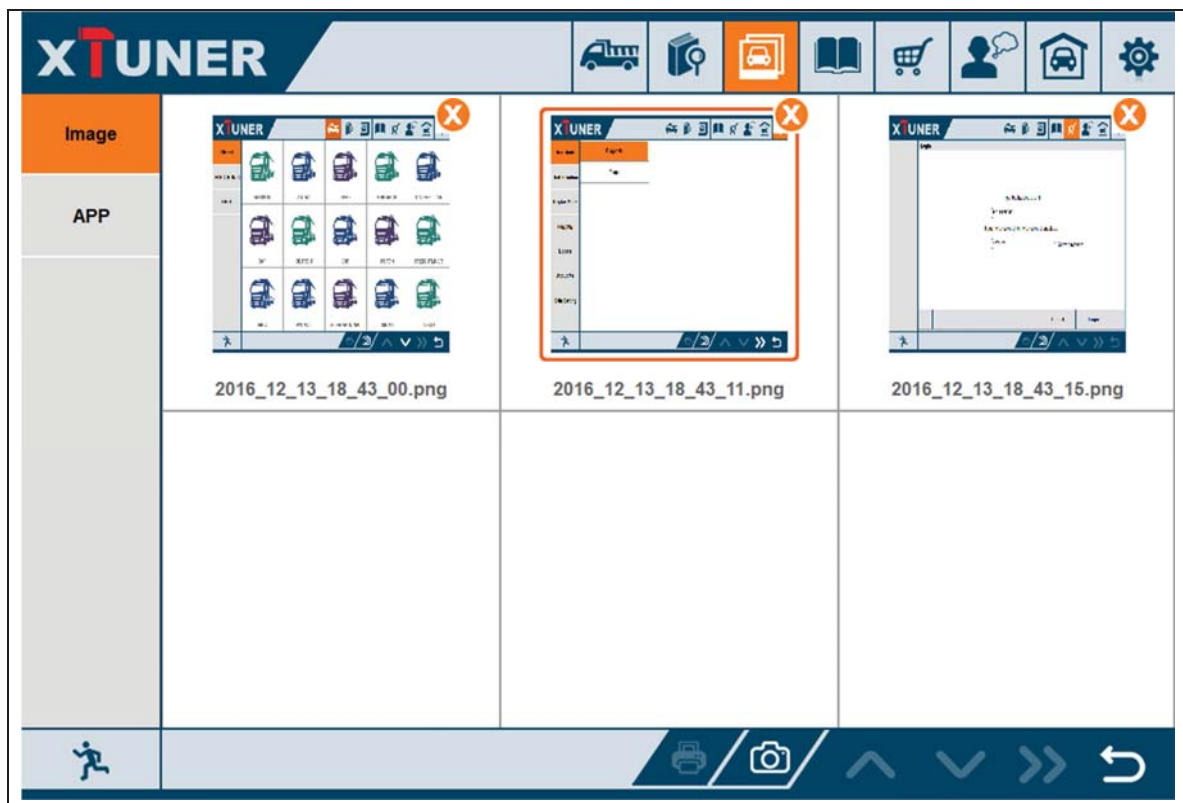
4.13 Data Management

4.13.1 Image management

Here you can browse or delete the pictures.

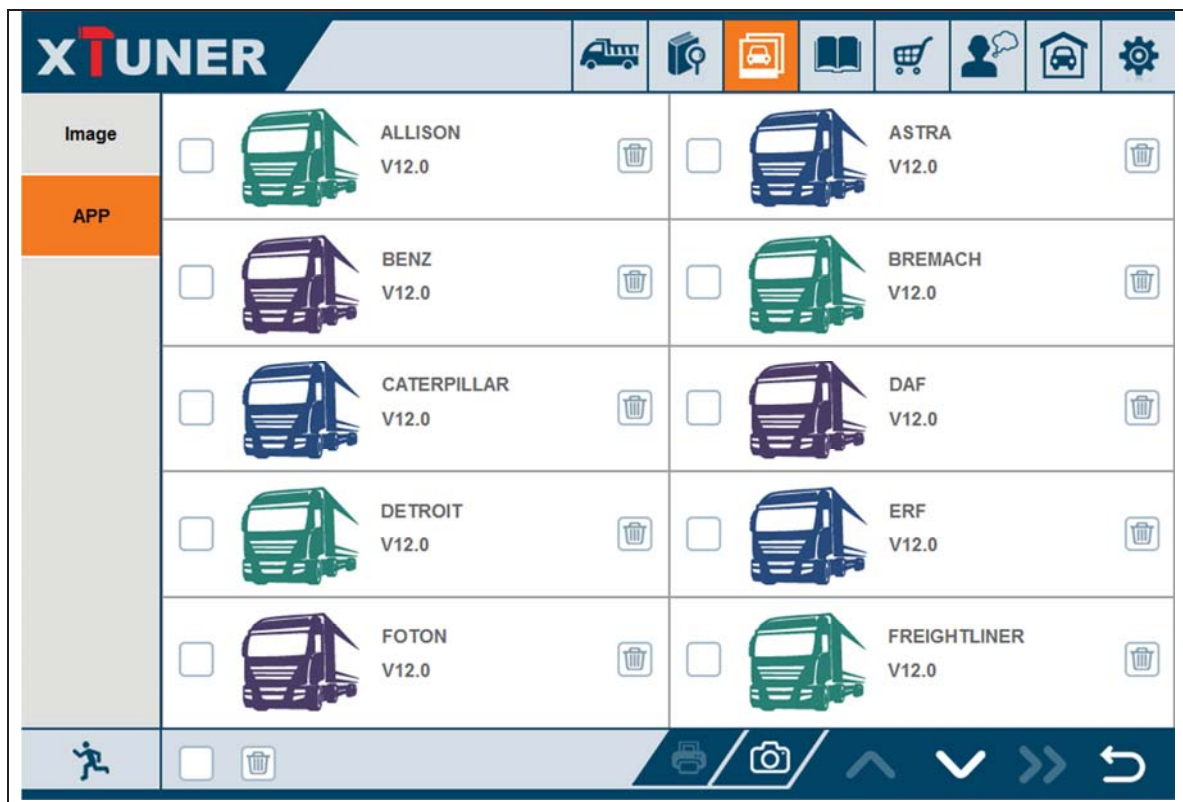
Click the image to browse the picture.

Click the “X” symbol to delete the image.



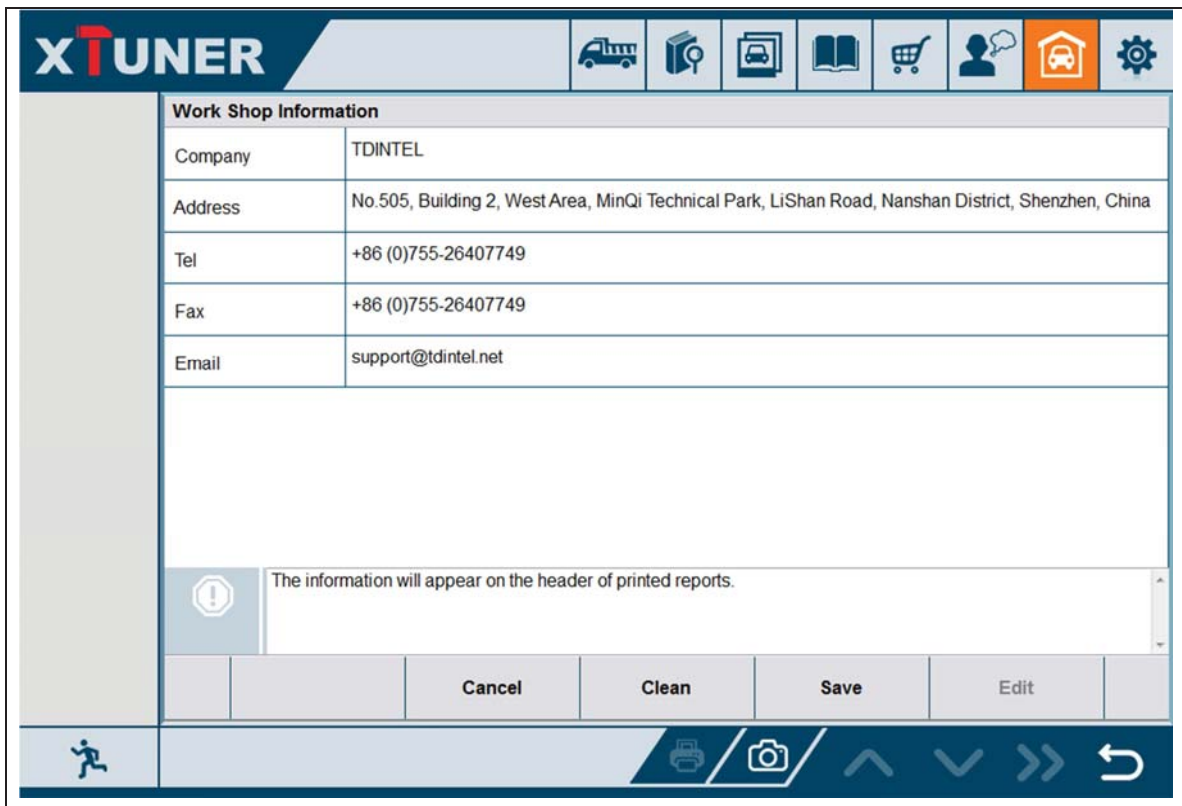
4.13.2 APP management

Users can delete the diagnostic software here, one by one or all-selected delete.



4.14 User Management

Input workshop information, and save the information.



The screenshot shows the XTUNER software interface. At the top, there is a header bar with the 'XTUNER' logo on the left and a series of icons (truck, magnifying glass, car, book, shopping cart, person, house, gear) on the right. Below the header, the 'Work Shop Information' form is displayed. The form contains the following fields:

Work Shop Information	
Company	TDINTEL
Address	No.505, Building 2, West Area, MinQi Technical Park, LiShan Road, Nanshan District, Shenzhen, China
Tel	+86 (0)755-26407749
Fax	+86 (0)755-26407749
Email	support@tdintel.net
 The information will appear on the header of printed reports.	
Cancel Clean Save Edit	

At the bottom of the interface, there is a navigation bar with a running person icon on the left and a series of icons (printer, camera, up, down, right, left) on the right.

5. Products website

Please focus on our website www.tdintel.com for the updating information and other news.

6. Warranty

XTUNER-T1 software is free updating within 1 year from the date of product activation.

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.

changes or modifications not expressly approved by the party responsible for compliance 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, 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: This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter