



X-431 PRO

User's Manual



LAUNCH

www.x431.com

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- Please read this manual carefully before operating your device.
- Please keep this manual well for future use.
- The illustrations herein is for reference purpose only. LAUNCH reserves the rights to make any change to product designs and specifications without notice.

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Safety Precautions

Before using X-431 PRO, please read the following safety information carefully.

- ♦ Never collide, throw, or punch X-431 PRO, and avoid falling, extruding and blending it.
- ♦ Do not use X-431 PRO in exceptionally cold or hot, dusty, damp or dry environments.
- ♦ In places where X-431 PRO is forbidden or using X-431 PRO may cause interference or generate a potential risk, please turn off it.
- ♦ To ensure a safe driving, please do not use X-431 PRO while driving.
- ♦ Turn off X-431 PRO before boarding any airplane.
- ♦ Do not dismantle X-431 PRO by yourself. If there is any inquiry, please contact the dealer.
- ♦ Never place X-431 PRO into apparatus with strong electromagnetic field.
- ♦ Keep X-431 PRO far away from magnetic devices because its radiations may erase the data stored on the devices.
- ♦ Store X-431 PRO out of reach of children and do not allow children to use it unsupervised.
- ♦ Please use the included battery and charger. Otherwise, explosion may happen.
- ♦ Do not disconnect power abruptly when X-431 PRO is being formatted or in process of uploading or downloading. Or else it may result in program error.

Precautions on Using X-431 PRO

- ♦ The ignition switch should be OFF while plugging or unplugging the DBScar diagnostic connector.
- ♦ When DBScar connector is not used, remember to place it into the diagnostic connector housing located at the back of the protection sleeve to avoid loss.
- ♦ If your vehicle keeps unattended for a week or a long period, it is suggested to unplug the connector from vehicle's DLC to save battery power.
- ♦ While diagnosing a vehicle, you are not advised to use phone or messaging,

because it may cause a data communication interruption. If it happens, it is abnormal and just try to re-do it.

Precautions on Operating Vehicle's ECU

- ♦ Do not disconnect the vehicle inner consumer when the ignition switch is on. High voltage transients may encounter at the moment of disconnecting, which may damage the sensors and the ECU.
- ♦ Protect the computer from magnetic object.
- ♦ Do cut off the power supply of ECU system before welding on the vehicle.
- ♦ Pay more attention to the ECU and the sensors when the operation is next to them.
- ♦ Ground yourself when you disassemble PROM, otherwise ECU and sensors will be damaged by static electricity.
- ♦ Do connect ECU harness connector firmly, otherwise electronic elements, such as IC inside ECU, will be damaged.

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1 Introductions

1.1 Product Profile

X-431 PRO is a new Android-based vehicle trouble diagnostic device developed for internet applications. It inherits from LAUNCH's advanced diagnosing technology and is characterized by covering a wide range of vehicles, featuring powerful functions, and providing precise test result.

Through the Bluetooth communication between vehicle diagnostic connector and variant mobile intelligent terminals, it achieves X-431 series full car model and full system vehicle trouble diagnosis, which include Reading DTCs, Clearing DTCs, Reading Data Stream, Actuation Test and Special Functions.

Meanwhile, taking advantage of mobile internet, it integrates more application and service, such as golo IM (Instant Messaging) tool, Maintenance Database and One-click Update etc.

1.2 Features

1. Diagnostic Tool:

A. Diagnose

- ♦ Can diagnose the electronic control system of prevailing vehicle models covering Asian, European, American and Chinese. Diagnosis functions include: Read DTCs, Clear DTCs, Read data stream, Special functions etc;
- ♦ Specially designed for Android platform with clear and user-friendly interface;
- ♦ Via Bluetooth, it is simple for DBScar diagnostic connector to communicate with X-431 PRO;
- ♦ Equipped with an exclusive X-431 PRO protection sleeve to prevent it from being damaged;

B. golo: Configures X-431 PRO as an IM (Instant Messaging) tool. Remote assistance and message sending are supported.

C. Update: Lets you update your diagnostic software more efficiently.

2. Browser: built-in Wi-Fi module makes surfing on the internet freely;
3. Email: allows you to send and receive email. External POP3 or IMAP email account for some common Web email service provider can be added;
4. Search: enables you to locate your target quickly and conveniently;
5. File Manager: with it, you can manage the files or downloaded files stored in SD card efficiently;
6. Settings: to configure your personalized X-431 PRO through it;
7. Other additional functions: alarm, calendar and calculator etc.
8. Applications: Other android based applications can be customized to install or uninstall.

1.3 Knowledge of X-431 PRO

1.3.1 X-431 PRO Whole Set

X-431 PRO is composed of an X-431 PRO tablet computer, a protection sleeve and a DBScar diagnostic connector.



Fig. 1-1 X-431 PRO whole set

- A ---- X-431 PRO tablet computer (See Chapter“1.3.2”)
B ---- Protection sleeve (See Chapter “1.3.3”)
C ---- DBScar diagnostic connector (See Chapter “1.3.4”)

1.3.2 X-431 PRO Tablet Computer



Fig. 1-2 X-431 PRO tablet computer

No.	Name	Notes
1	POWER key	<ul style="list-style-type: none"> ♦ In Off mode, press it to turn on X-431 PRO; ♦ In On mode, press it to activate the LCD if the LCD is blank. ♦ In On mode, press it to turn off the LCD if the LCD lights up.
2	VOLUME +/- key	Used to adjust the volume.
3	Earphone jack	
4	Rear camera	
5	Reset key (Inside the housing)	
6	SD card slot	
7	Speaker	
8	USB port	
9	Microphone	

1.3.3 X-431 PRO Protection Sleeve

Dismantling X-431 PRO protection sleeve

To remove protection sleeve from X-431 PRO main unit, follow the steps described as below to proceed:

1. Pull the red sleeve outwards from the right margin of X-431 PRO, and then remove it completely.
2. Reverse the upper enclosure and then use the screwdriver to loosen all screws.
3. Take out the lower enclosure from the upper enclosure.
4. Finally remove X-431 PRO tablet computer from the upper enclosure.

Note: Reverse the above-mentioned steps to install X-431 PRO protection sleeve. While mounting it, please pay more attention to the installation direction.

1.3.4 DBScar Diagnostic Connector



Fig. 1-3 DBScar diagnostic connector

①	OBD-16 diagnostic connector	To connect to vehicle's OBD2 DLC.
②	Power indicator	It lights up while plugging the DBScar connector into the vehicle's DLC.
③	Communication indicator	It will flash once the DBScar connector is communicating with X-431 PRO or it is being reset.

④	Micro USB port	To connect to PC for data transmission or upgrade via USB cable.
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If DBScar connector keeps unattended, please place it in right position.

1.3.5 golo carcare Connector (applied for personal car owners)



Fig. 1-4 golo carcare connector (optional)

The golo diagnostic connector shown in Fig. 1-4 provides same indicators and ports as the DBScar diagnostic connector (red & black). Please refer to Chapter 1.3.4.

However it is designed for car owners and mainly applied with smart phone based on Android OS (Before using this connector, users need to download and install the APK file firstly. For detailed operations, please refer to “User’s Manual” included with it.).

Since X-431 PRO features golo (Instant Messaging and remote diagnosis), it is very helpful for garages to establish longstanding relationship with customers and technicians to increase productivity and customer retention. In view of it, garages may recommend this powerful connector to customers.

1.4 Technical Parameters

X-431 PRO:

- Operating system: Android
- CPU: Dual core 1GHz
- Battery: 3000mh, rechargeable polymer lithium battery
- Standby time: it is subject to the using environment. Generally it can keep working for 4 hours.
- Extension memory card: 32G Micro SD(TF) card supported
- Memory: 512MB
- Storage capacity: 2GB
- LCD: 7.0 inch

- LCD resolution: 1024X600
- Touch screen: 5 points capacitive touch screen
- Cameras: 2 mega rear and 0.3 mega front
- Wi-Fi: supported
- Bluetooth: supported
- Working temperature: -10℃ ~ 55℃ (14°F to 131°F)
- Storage temperature: -20℃ ~ 70℃ (-4°F to 158°F)
- Weight: about 0.68Kg
- Outline dimension: 198*124*10.1mm

DBScar Connector:

Working voltage: 9 ~15V

Average working current: about 35mA

Standby current: about 25mA

Working temperature: -20 to 55℃ (-4°F to 131°F)

Storage temperature: -30 to 70℃ (-22°F to 158°F)

Storage humidity: <80%

Working humidity: <60%

Net weight: about 26g



1.5 Package List

While purchasing, please check the following accessories:

- X-431 PRO tablet computer (including X-431 PRO protection sleeve)
- Password envelope
- DBScar diagnostic connector
- OBD II extension cable
- Cigarette lighter cable
- Power adaptor
- USB data cable
- Non-16pin connector

2 Preparations

2.1 Charge X-431 PRO

1. Insert the included USB cable into the charger.
2. Plug the charger into AC outlet.
3. Connect the other end of USB cable to X-431 PRO. If  appears on the screen, it indicates it is being charged.
4. If the logo changes into , it indicates that the battery is fully charged.
Disconnect the charger from the AC outlet.
5. Unplug the USB cable on the charger from X-431 PRO.

2.2 On using your battery

- If the battery keeps unused for a long time or battery is completely discharged, it is normal if it can not be turned on while being charged. Please charge it for a period and then turn it on.
- Using data service will cause more power consumption and shorten the standby time.
- The charging time of battery varies with temperature condition and battery consumption status.
- While X-431 PRO has low battery, a beep will sound. If it is very low, X-431 PRO will be switched off automatically.

Note: Do one of the followings to save power:

- When X-431 PRO keeps unattended, press POWER key to turn off the LCD.
- Shorten the standby time: Enter main menu, choose "Settings" > "DEVICE" > "Display" > "Sleep" to select a shorter standby time.
- Decrease the brightness of LCD display: Enter main menu, choose "Settings" > "DEVICE" > "Display" > "Brightness", and then drag the slider to adjust it.
- Change "Live wallpaper" into "Gallery".
- Set Bluetooth off: Enter main menu, choose "Settings" > "Wireless & Network" > "Bluetooth", and then toggle the switch to OFF.
- Set Wi-Fi off: Enter main menu, choose "Settings" > "Wireless & Network" >

“Wi-Fi”, and then toggle the switch to OFF.

- Turn off GPS satellites: choose “Settings” > “Personal” > “Location access” and set GPS satellites to OFF.
- Press VOLUME key to decrease the volume.

2.3 Power on / power off X-431 PRO

2.3.1 Power on

1. Press the POWER key to turn on X-431 PRO.
2. If it is the first time you turned on X-431 PRO, the system will prompt you to make some initial setup.
3. Set date and time.





Note: if use network-provided time is selected, it is unnecessary to set date, time and time zone.

2.3.2 Power off





1. Press the POWER key, an option menu will pop up on the screen.
2. Tap “Power off” to turn off X-431 PRO.











2.4 About desktop

On-screen keys and status bar are as follows:

- A.  **BACK key**: Return to the previous screen or exit the running application.
- B.  **HOME key**: To switch to main menu screen.
- C.  **Recent Apps key**: To view the recent applications.
- D.  **OPTION MENU key**: To select operation option from the list.
- E. **Notification bar**: To notify users of new events and display the status (For detailed indicators, please see the following table.).

Definitions of indicators

Indicators	Definitions	Indicators	Definitions
	Connected to PC		Preparing SD card
	Connected to Wi-Fi		Airplane mode

	Bluetooth is on		Alarm has been set.
	View more notices		Connected to other Bluetooth device
	Battery is fully charged		Mute your X-431 PRO
	Charging		Low battery
	New mail		Full memory

2.5 Customize your desktop

2.5.1 Add items on the desktop

On the main menu screen, hold and press the desired item, the system will automatically enter the desktop, place the icon into the circle.

Hint: If many applications occupy the desktop, hold and press the desired one to move it to other extension desktop.

2.5.2 Move items on the desktop

1. Hold and press the item to be moved.
2. After a movable circle appears on the screen, drag it to the target location.

2.5.3 Delete items from the desktop

1. Hold and press the desired item, "X Delete" appears in the upper middle of the screen.
2. Drag it on the icon until it change into red, then release it.

2.5.4 Change your wallpaper

1. Hold and press a blank area on the desktop, a pop-up wallpaper window will be shown on the screen.
2. Set different wallpaper as desired:
 - Wallpapers: Choose a still picture from gallery as wallpaper.
 - Live Wallpapers: Open it to choose one of the preset live wallpapers as wallpaper.
 - Gallery: Set the pictures you captured as wallpaper.

2.5.5 Create a folder on the desktop

1. Drag one icon on another icon, the system will create a folder.
2. Input the folder name.

2.6 On using touch screen

- To obtain better operations, you are suggested to remove the protection film before using X-431 PRO.
- Never hit the touch screen with any sharp, keen object.
- **Tap:** Use your finger to tap the desired items to confirm or open it.
- **Long-press:** hold and press the current interface, icon or input field to open the available operation options.
- **Slide:** Use your finger to slide the screen horizontally or vertically. For instance, slide the screen to choose the desired image.
- **Drag:** Hold and press the desired item, then drag it to a location. For example, drag to move or delete the application icon on the desktop.

2.7 Auto-rotate the screen

To perform such operations as browsing webpage, viewing images etc, rotate X-431 PRO, the screen will automatically change the display direction. To disable this function, click "Settings", and click "Display" to enter. Unselect the option "Auto-rotate screen".

2.8 Lock & unlock the screen

2.8.1 Lock the screen

- When X-431 PRO is ON, press POWER key once to lock the screen;
- The system will lock the screen automatically after X-431 PRO remains idle for a long time.

2.8.2 Unlock the screen

Press POWER key to activate the screen, and then drag the lock to "Unlock" position.

Note: if you define as unlock using the pattern, you have to draw the right target pattern to unlock it.

2.9 Notification bar

The notice bar is used to display some activities, such as new message, to do list and running tasks. You can also open the notice bar to view the reminder or activity notification.

2.9.1 Turn on the notification panel

1. When a new notification icon appears on the status bar, slide the status bar upwards to open it.
2. In the notification panel, click the desired notification item to open it.

2.9.2 Turn off the notification panel

Slide the panel upwards, and then specify the notifications as OFF to turn off it.

2.10 How to set as airplane mode

According to the regulations of some countries or areas, PC device must be turned off before boarding on the airplane.

The way to disable functions of X-431 PRO is to set it as airplane mode. In this mode, all wireless radio waves will be disabled, including mobile network, Bluetooth and WLAN.

Do one of the followings to enable or disable airplane mode:

- Press POWER key and choose "Airplane mode" from the pop-up option menu.
- Access the main menu, and choose "Settings" > "WLAN" > "More..." > "Airplane mode".

3 How to diagnose

3.1 Connect DBScar connector

Follow the steps mentioned below to connect DBScar connector:

1. Locate vehicle's DLC socket. The DLC (Data Link Connector or Diagnostic Link Connector) is the standardized 16-cavity connector where diagnostic code readers interface with the vehicle's on-board computer. The DLC is usually located 12 inches from the center of the instrument panel (dash), under or around the driver's side for most vehicles. If Data Link Connector is not located under dashboard, a label should be there telling location. For some Asian and European vehicles, the DLC is located behind the ashtray and the ashtray must be removed to access the connector. If the DLC cannot be found, refer to the vehicle's service manual for the location.

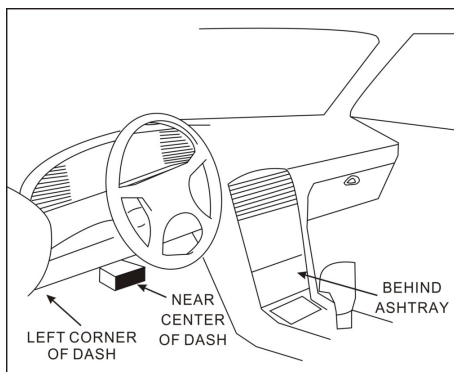



Fig. 3-1

2. Plug the DBScar diagnostic connector into the vehicle's DLC socket (It is suggested to use the OBD 2 extension cable to connect DBScar connector and DLC socket.). For non-16PIN DLC socket, please select the corresponding non-16 pin connector adaptor, then plug the non-16pin end of the adaptor into the DLC socket, and then connect the standard 16pin end DBScar connector.

3.2 Bluetooth Setting

Enter X-431 PRO Bluetooth setting screen ("Settings" --> "WIRELESS & NETWORK" --> "Bluetooth"), slide the Bluetooth switch to ON and X-431 PRO will start searching available Bluetooth device, tap the desired connector to pair and match.

By default, the Bluetooth name is 98384*****00 (where ***** stands for 5 digits.).

 **Note:** In case no Bluetooth setting is done before diagnostic software is launched, you can also configure it while using the software. For details on Bluetooth connection, please refer to **"Chapter 3.6 Start diagnosing"**.

3.3 Diagnosis Flowchart

For new users, please follow the operation chart shown in Fig. 3-2 to get familiar with and start using X-431 PRO.

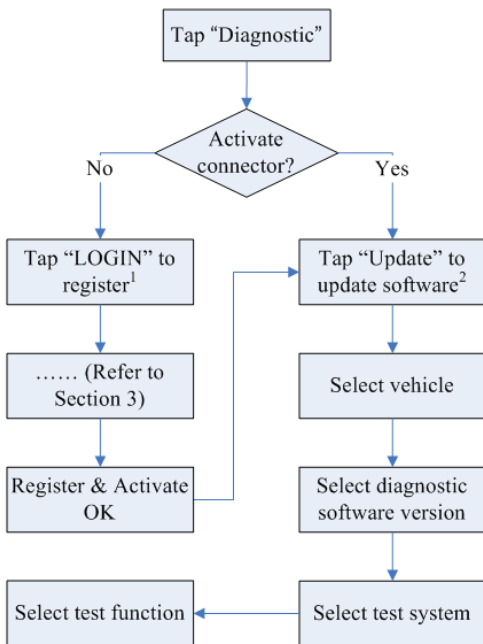


Fig. 3-2

3.4 User Registration & Connector Activation

3.4.1 User registration

Tap the X-431 PRO icon on the desktop to launch the application, and then tap “Login” to enter the login interface of diagnosis software.

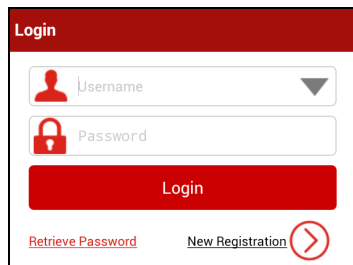
The login interface features a red header with the word "Login". Below it are two input fields: "Username" with a person icon and "Password" with a lock icon. A large red "Login" button is positioned below these fields. At the bottom, there are two links: "Retrieve Password" and "New Registration" with a right-pointing arrow icon.

Fig. 3-3

1. If you are a new user, tap “New Register” to enter registration page. See Fig. 3-3.

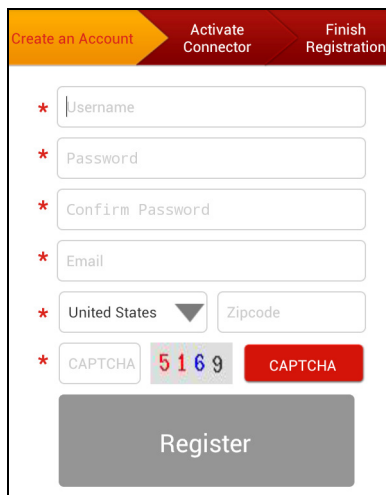
The registration interface has a red header with three tabs: "Create an Account" (highlighted in orange), "Activate Connector", and "Finish Registration". The form contains several input fields, each marked with a red asterisk (*): "Username", "Password", "Confirm Password", "Email", "United States" (with a dropdown arrow), "Zipcode", and a "CAPTCHA" field showing the numbers "5169". A large grey "Register" button is at the bottom.

Fig. 3-4

In Fig. 3-3, fill in the information in each field (Items with * must be filled). After inputting, tap “Register”, a screen similar to the following will appear:

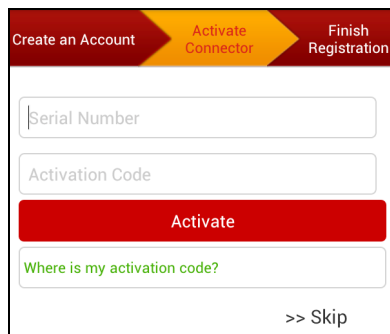


Fig. 3-5

In Fig. 3-5, input the Serial Number and Activation Code, which can be found in the password envelope.

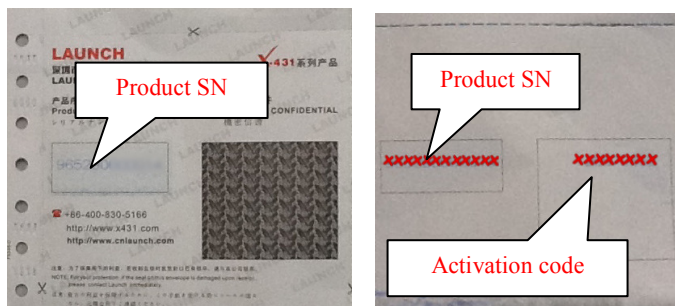


Fig. 3-4

Note: To exit and activate it later, tap "Skip". In this case, you can activate your connector by tapping "Connector Activation" in "Profile". For details, please refer to Chapter 3.8.2 Activate Connector.

Tap "Activate" to finish your registration. See Fig. 3-5.

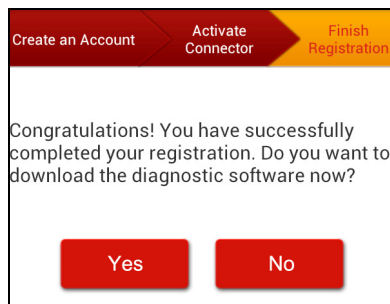


Fig. 3-5

To download the diagnostic software, tap “Yes”. See Fig. 3-6.

Tap “No” to download and install it later. Refer to Chapter 3.5 “Download/Update Diagnostic Software”.

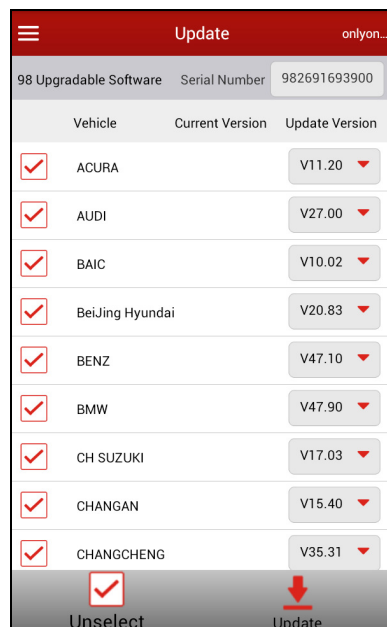


Fig. 3-6

In Fig. 3-6, tap “Update” to start downloading. It may take several minutes to finish it, please be patient to wait. To pause downloading, tap “Stop”. To resume it, tap “Continue”.

Once download is complete, the system will install the software package automatically.

2. If you have registered to be a member, input your name and password, and then tap the “LOGIN” button to enter the main menu screen directly.

3.4.2 Diagnostic software layout

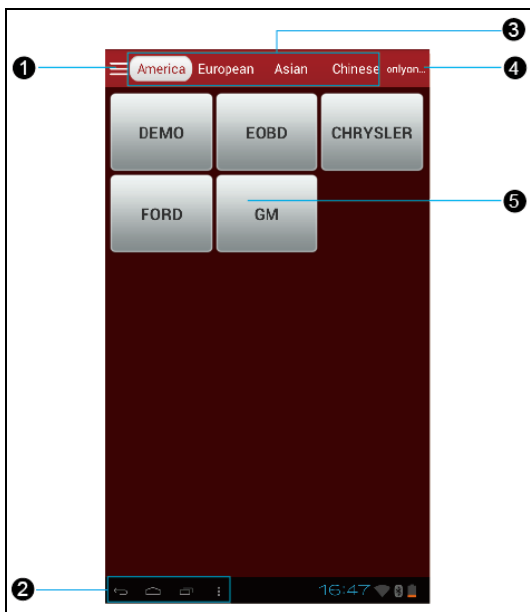



Fig. 3-7

- 1 Tap to pull down all function menu. Refer to “**Chapter 3.4.3 Function menu**” for details.
- 2 Short-cut button bar: Refer to “**Chapter 2.6 Screen Layout**” for detailed illustration.


-
- 3 Vehicle region buttons: Tap different buttons to switch to corresponding vehicles.
-
- 4 Login button: Tap it to login or register the diagnostic system. Once users have logged in successfully, it will change to your user name.
-
- 5 Vehicle diagnosis software logo: To start diagnosing a vehicle, you have to download the corresponding diagnostic software.
- For details on downloading/updating diagnostic software, please refer to “**Chapter 3.5 Download / Update Diagnostic Software**”.
-

3.4.3 Function menu

Tap  to unfold function menu, it mainly includes the following items:

Name	Description
Diagnostic	Configures X-431 PRO to operate as a diagnostic tool.
Repair Data	Provides abundant automotive technology handbook and repair case for your reference.
Update	To update vehicle diagnostic software.
golo	To launch IM (Instant Messaging) application. For detailed information, refer to “ Chapter 3.7 golo ”.
Profile	To manage My Connector, My Report, Change Password and Logout etc.
Settings	Allows you to configure system settings.

3.5 Start Diagnosing

Tap  on the main menu screen, and then choose “Diagnostic” to enter the vehicle selection page.

Take Demo as an example to demonstrate how to diagnose a vehicle.

1. Tap the “DEMO” logo to proceed to Step 2.

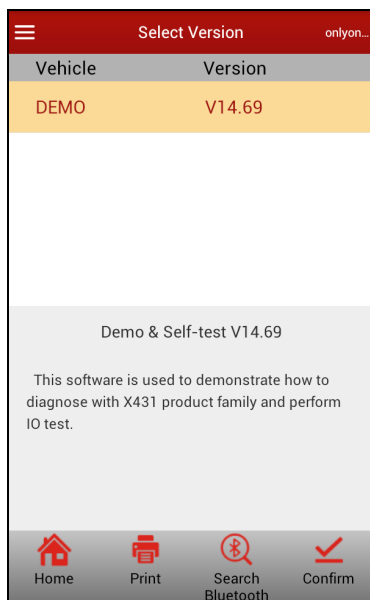


Fig. 3-9


On-screen Buttons:

Home: Tap it to return to the home screen.

Print: Tap it to print the current screen. To perform printing, you need to purchase a Wi-Fi printer manufactured by LAUNCH separately.

Search Bluetooth: Tap it to start searching all available Bluetooth devices.

Confirm: Tap it to confirm and jump to the next step.

 **Note:** Generally you have to match and pair Bluetooth while diagnosing a certain vehicle. If Bluetooth pair has been done, “Not Connected” but “Paired” will appear on the screen. Tap the desired connector to start connecting. If successful, a pop-up message “Connected to 98384*****00” will be shown.

2. After Bluetooth is properly connected (no Bluetooth connection is required for DEMO program), tap “Confirm” to start initializing. After initializing is complete, the screen will display as Fig. 3-10:

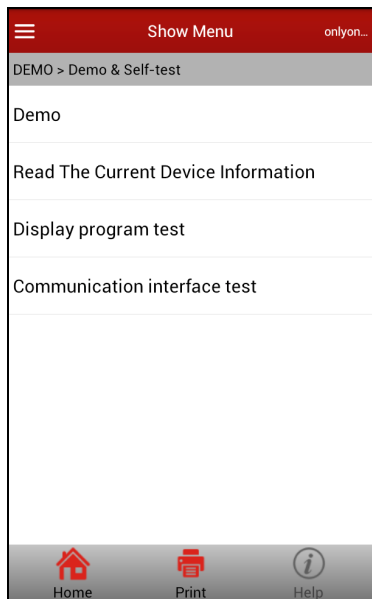


Fig. 3-10

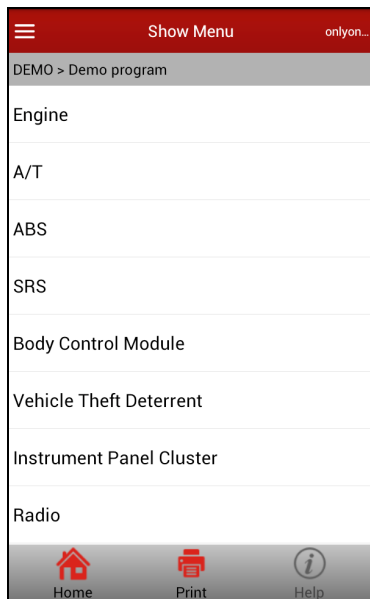


Fig. 3-11

3. Tap “Demo” to enter system selection interface. See Fig. 3-11.
4. Tap “Engine”, the system will jump to the function menu. See Fig. 3-12.

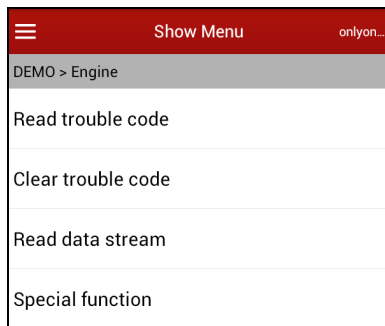


Fig. 3-12

To return to the previous screen, tap .

3.5.1 Read Trouble Code

Tap “Read Trouble Code” in function menu, the screen will display the diagnostic result.

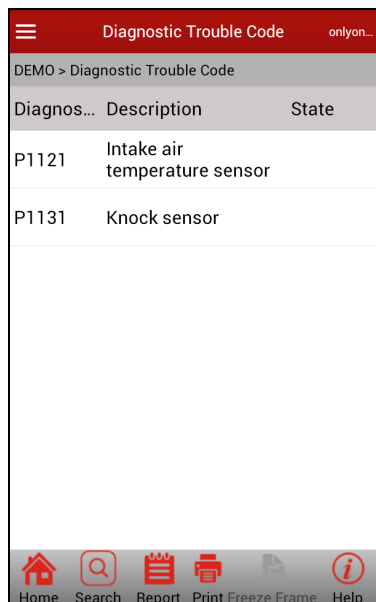




Fig. 3-13

Tap  to return to the function selection screen.

3.5.2 Clear Trouble Code

Tap “Clear Trouble Code” function menu, the system will automatically delete the currently existing trouble code.

 **Note:** The trouble code will not disappear until the trouble was completely cleared.

3.5.3 Read Data Stream

Tap “Read Data Stream” in function menu, the system will display data stream items.

On-screen Buttons:

Home: Tap it to return to the home screen.

Search: Highlight a certain DTC item, and then tap it to search the definition of the selected DTC online.

Report: To save the current data in text format.

Print: Tap it to print the current screen. To perform printing, you need to purchase a Wi-Fi printer manufactured by LAUNCH separately.

Help: Tap it to view the help information.

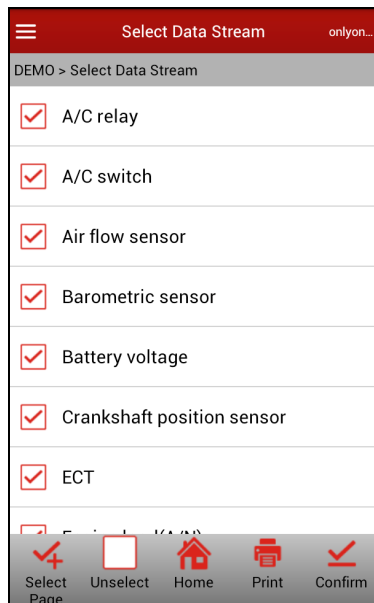


Fig. 3-14

On-screen Buttons:

Select Page: Tap it to select all items of the current page.

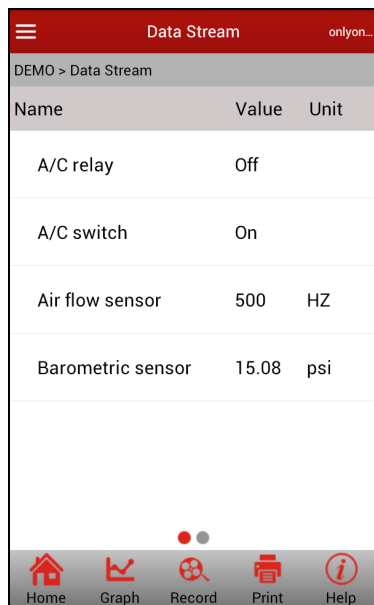
Unselect: Tap it to deselect all data stream items.

Home: Tap it to return to the home screen.

Print: Tap it to print the current screen. To perform printing, you need to purchase a Wi-Fi printer manufactured by LAUNCH separately.

Confirm: Tap it to confirm and jump to the next step.

After selecting the desired items, tap “Confirm” to enter the data stream reading page.



The screenshot shows a mobile application interface titled "Data Stream" with a red header bar. Below the header, there is a breadcrumb "DEMO > Data Stream". The main content is a table with three columns: "Name", "Value", and "Unit". The table lists four items: "A/C relay" (Off), "A/C switch" (On), "Air flow sensor" (500 HZ), and "Barometric sensor" (15.08 psi). At the bottom, there is a navigation bar with five icons: Home (house), Graph (line chart), Record (stopwatch), Print (printer), and Help (info icon). Above the navigation bar, there are two small circles, one red and one grey, indicating the current page and total pages.

Name	Value	Unit
A/C relay	Off	
A/C switch	On	
Air flow sensor	500	HZ
Barometric sensor	15.08	psi

Fig. 3-15

On-screen Buttons:

Home: Tap to return to the home screen.

Graphic: After selecting, tap it to view the waveform. (Tap "Combine" to display the selected waveform in combined form. In this case, different items are marked in different colors. Tap "Value" to display the waveform in character form.)


Record: Tap to start recording diagnostic data for future playback and analysis. The saved file follows the naming rule: It begins with vehicle type, and then the record starting time and ends with .x431 (To differentiate between files, please configure the accurate system time). The file is stored in "My Report" under "Profile" menu. For details on playback operations, please refer to Chapter 3.8.1 "My Report".

To stop reading the data stream, tap "Stop recording".

Print: Tap to print the content of current screen. An additional Wi-Fi printer is required.

Help: Tap to view the help information.

If more than one page of data stream items is displayed, an icon similar to ●● appears. Swipe the screen from right to left to switch to the next page.

Tap  to return to the function selection screen.

3.5.4 Special Function

This option allows you to detect whether the system parameters are normal or

not. It mainly includes: Injector test, fuel pump test, purge control solenoid and so on.

Take “1# injector” as an example.

To detect whether 1# injector works normally or not, tap “1# injector”, the system will automatically carry out the function. After complete, a prompt dialog box will pop up on the screen.

3.6 Repair Data

This option provides abundant repair case and automotive technology handbook for your reference.

Tap “Repair Data” to enter, and then follow the on-screen instructions to proceed.

3.7 golo

This option aims to help repair shops or departments establish long-standing relationship with customers and technicians to increase productivity and customer retention.

Tap “golo” to enter, the screen appears blank by default.

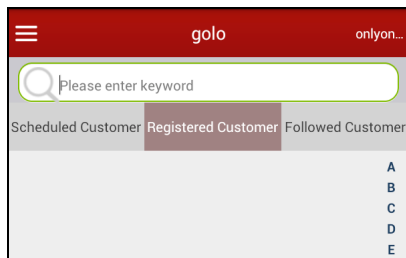


Fig. 3-16

If a car user purchases a golo carcare connector and wants to bind a garage, tap “My Car” on mobile phone terminal to request for binding official account to be a registered customer.

As far as a garage is concerned, you need to use the golo Cloud to manage golo users. To log in the platform successfully, you have to apply for an official account which is formally authorized by LAUNCH.

3.7.1 Register a golo official account

1. Visit the golo Cloud website: <http://ipublic.x431.com/>.
2. Click "Apply now" at the upper right corner.
3. Input X-431 PRO account and password, and click "Apply for an account".
4. Fill in required information, and then click Submit and wait for the approval.

Note: Please note that an official account is different from the user name of diagnostic tool. Make sure that golo users add the official account other than the user name while asking for registered or followed customers.

3.7.2 Assign a diagnostic device to a official account

1. Access to <http://ipublic.x431.com/> and log in;
2. Click "Devices" in the navigation bar, and then click "Add device";
3. Input the product S/N and password of the diagnostic device, and then click "Save".

Note: Several diagnostic tools can be assigned to an official account since a repair shop may have many a diagnostic device.

3.7.3 Pre-bind a golo user

Except that a golo carcare user asks for to be a registered customer, the garage who sold golo connectors can also adopt the golo Cloud to bind golo carcare users as regular customers.

Follow the steps described as below to proceed:

1. Log in <http://ipublic.x431.com/>;
2. Click "golo Clients" in the navigation bar;
3. Click "Add golo users" and input the S/N and Password of golo carcare connector in the pop-up dialog box and then click "Save" to add it.

Note: If a car owner purchases a golo carcare connector that is pre-bound to the garage, just input the S/N of the connector to activate it.

4. Click "Assign service technician" to appoint a special technician to serve for this golo user. After finished, click "Save" to confirm your settings.

Note: The pre-binding agreement is in effect for one year. During this period, golo carcare user can not unbind to this garage on the mobile phone terminal.

3.7.4 Launch real-time remote diagnosis

After binding golo users, tap "golo", all customers will be listed on the screen in

the following kinds.

Options	Notes
Scheduled Customer	It defines as the golo carcare users who made a reservation for remote assistance to the garage. Before sending the remote request, this golo user must be the followed customer.
Registered Customer	Refers to the regular customers who are bound to this garage.
Followed Customer	Refers to the customers who followed your official account.

Note: *Followed customer only supports remote diagnosis request.*

For registered customer, it not only features remote diagnosis request, but also supports sending abnormal warnings or messages of customer's vehicle to the golo Cloud, which will be presented on the diagnostic devices associated with the official account.

For scheduled customers, tap the desired one to handle the remote request.

Tap the input field and use the on-screen keyboard to enter the text message, and then tap "Send" to send it; tap to send the voice message; tap and then choose the "Remote Diagnosis" from the pop-up window to launch a remote assistance.

3.8 Profile

This function allows users to manage your personal information.

3.8.1 My Connector

This option is used to manage all your activated connectors.

If several diagnostic connectors are activated on this tool, a list of connectors will be displayed on the screen. Once you choose the connector that belongs to other account, you have to log out, and then input the right account to continue.

3.8.2 Activate Connector

It is used to activate your diagnostic connector.

Input the Serial Number and Verification Code, and then tap “Activate” to activate the connector.

For details on how to obtain Serial Number and Verification Code, tap the link below to get help.

3.8.3 My Report

This option is used to view the diagnostic report generated in process of vehicle diagnosis. Additionally, delete, send operations are also supported.

Tap “**My Report**”, there are total 3 options available.

If user records the running parameters while reading data stream, it will be saved as .x431 file and appear under **Diagnostic Record** tab.

Remote Diagnostic Report lists all records generated in process of remote diagnosis.

In case the DTC result is saved on Read Trouble Code page, .txt files will be listed under **Diagnostic Report** tab.

3.8.4 Profile

Use this item to view and configure personal information.

3.8.5 Modify Password

This item allows you to modify your login password.

3.8.6 Help

Function Notes, FAQ, Quick Start Guide and User Manual are included.

3.8.7 Log Out

This option allows you to logout the system.

To logout the current user ID, tap “Log Out”.

3.9 Settings

It enables you to make some application settings and view software version information etc.

3.9.1 System of Units

It is designed to set the measurement unit. Metric System and English System are available.

3.9.2 Orientation

This option is used to set the display mode of the application.

3.9.3 Expiration Reminder

All pre-installed diagnostic software is free to use for 30 days. Once it expires, it will be locked automatically and the system will prompt you to activate your connector if the expiration reminder is ON.

3.9.4 Print Information

This option lets you define your print information. It mainly includes Workshop, Address, Telephone, Fax and License Plate.

After inputting, tap on "Save" to save it.

3.9.5 Diagnostic Feedback

This item allows you to feedback your diagnostic problems to us for analysis and troubleshooting.

3.9.6 Network Detection

It enables you to test whether the current network environment is good or not. It is normal that you may encounter a logout while testing.

3.9.7 About

The software version information and disclaimer are included.



4 Others

4.1 Email

The function allows you to send and receive email. You can add POP3 or IMAP email account for some common web email service provider.

4.1.1 Add an email account



Note: Before sending or receiving email, you have to set up an email account. In addition, this function required a stable network connection.

1. On the desktop, tap  to enter main menu screen, and then tap .
2. Input email address and password, tap "Next" or "Manual setup".




Note: If "Manual setup" is selected, please consult your email service provider for detailed parameter setting.

3. Tap the desired account type (here take POP as example) to enter the incoming settings screen, tap "Next".
4. Configure some sending settings, and tap "Next" to enter frequency settings.
5. After setting, tap "Next" and the system will prompt account setup has been finished.
6. Tap "Next" to enter email main menu.

4.1.2 Delete an email account

1. Enter main menu screen, and tap  to enter account screen.
2. Tap the desired account, and then tap  to choose "Settings".
3. Tap the account to be deleted to enter, and then scroll the screen until "Remove account" appears, tap it to delete.



4.1.3 Send a email

1. Enter main menu screen, and tap  to enter account screen.
2. Tap the desired email account.
3. Tap  to enter new mail writing interface.
4. Input the receiver address in To field.
5. Input a title in Subject column.
6. Enter the content in Compose email area.
7. After inputting, tap , you can perform any one of the followings: attach file,

add CC/BCC, save draft, discard and setting.

8. Tap  to send email.

4.1.4 View email

1. Enter main menu screen, and tap  to enter account screen.
2. Tap the desired email account.
3. Tap  to refresh the inbox.
4. Tap the desired one to read.

4.2 WLAN


This function enables you to enjoy surfing on the internet and downloading data from the internet via Wi-Fi.

4.2.1 Set Wi-Fi on



1. Enter main menu screen, choose “Settings” > “Wi-Fi”.
2. When the Wi-Fi switch is slid to ON position, it indicates Wi-Fi has been activated already.

Note: To prolong the battery life, please switch Wi-Fi off when it keeps unattended.

4.2.2 Connect to Wi-Fi


1. Enter main menu screen, choose “Settings” > “Wi-Fi”.
2. Tap , and then choose “Scan” from the pop-up option menu. X-431 PRO will start scanning all available Wi-Fi networks.
3. Tap the desired one to connect.
 - ♦ If the network you chose is open, you can connect to it directly;
 - ♦ If the selected network is encrypted and secured with WPA, you have to input the right access password to connect it.

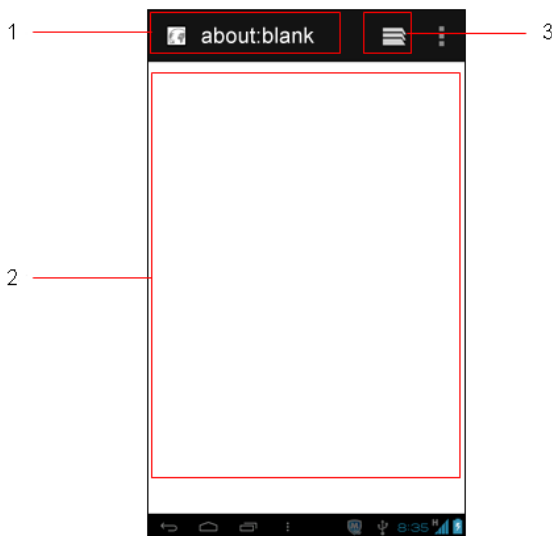
Hints:

- ♦ On WLAN setting screen, tap  to add a new Wi-Fi network.
- ♦ On WLAN setting screen, tap , and then choose “Advanced” from the pop-up option menu to make more Wi-Fi settings.

4.3 Browser

4.3.1 Open browser

Enter main menu screen, tap  to launch the browser. You can choose the desired homepage or input the website address to browse.



- 1 Tap to input or edit the web link
- 2 Web page display area
- 3 Tap to open bookmarks, view history and saved web pages

4.3.2 Browse a webpage

1. Open the browser.
2. Input the web address, and tap “Go” on the keyboard to visit the website.

Tips: Alternatively, you can also tap , and then choose “Bookmarks/History” from the pull-down list to choose the web link you want to access.




3. After a webpage is open, slide the screen with the tip of your finger to view other hidden content.

4.3.3 Zoom in / zoom out a page


There are two ways to zoom in/ zoom out while browsing a webpage.

- To zoom in so that the text on a webpage appears in a column that fits your device's screen, double-tap with the tip of your finger.
- To zoom in manually, place two fingers on the screen and then spread them apart. To zoom out, either double-tap again or place two fingers apart on the screen and then pinch them together.

4.3.4 Find on page




1. While browsing a webpage, tap  and choose "Find on page".
2. Input the text you want to search, the matched content will be displayed in highlight.
3. Tap  /  to jump to the next / previous match.

4.3.5 Save favorite webpage to bookmark


1. While browsing a webpage, tap  and choose "Save to bookmarks".
2. Edit a label for the bookmark.
3. Tap "OK" to confirm and save it.

4.3.6 Open multiple pages

The browser allows you to open multiple web pages and you can toggle between these pages.

1. While browsing a webpage, tap  and tap  in the new window.
2. Another web page will be displayed in the new window.
3. Tap , all open web pages will appear on the screen, choose the desired one to view.

4.3.7 Customize internet settings

While browsing a webpage, tap  and then choose "Settings", you can view or change browser settings, privacy & security setting and advanced setting etc.

4.4 Using Bluetooth


Bluetooth connection is supported on X-431 PRO. Using it, you can connect X-431 PRO to other compatible devices for data transmission.

The effective distance between X-431 PRO and other Bluetooth devices is max. 10 meters. Please note Bluetooth connection is likely to be disturbed by other objects, such as walls or other electronic devices.

4.4.1 Open Bluetooth

1. Enter main menu screen, tap “Settings” > “Bluetooth”.
2. When the Bluetooth switch is ON position, it indicates it is already on and a corresponding Bluetooth icon will appear on the status bar of X-431 PRO.

4.4.2 Allow other devices to search for X-431 PRO

1. Enter main menu screen, tap “Settings” > “Bluetooth”. Tap  and choose “Visibility timeout”.
2. Set the desired visibility option.

4.4.3 Search other devices and pair X-431 PRO with it


Before transmitting data with other Bluetooth devices, you have to pair X-431 PRO with it.

1. Check and ensure Bluetooth is ON.
2. Enter main menu screen, tap “Settings” > “Bluetooth”.
3. X-431 PRO starts scanning all Bluetooth devices.
4. Choose the desired one from the search result to pair it with X-431 PRO.

4.4.4 Send file via Bluetooth



You can send pictures, video, audio files or test reports to others for sharing and review via Bluetooth.

To transfer files via Bluetooth, please proceed following the steps described below:


1. Enter main menu screen, and tap “File Manager”.
2. Access the corresponding folder and choose the desired picture, video or audio file.
3. Tap  and choose “Bluetooth” from the pull-down menu.
4. Tap the target Bluetooth device you want to transmit files.

4.5 Camera




4.5.1 Open and close camera


- ♦ Enter main menu screen, tap .
- ♦ In shoot mode, tap  to exit the camera.

4.5.2 Take a photo

1. Open camera.
2. In shoot mode, aim the camera lens at the object you want to photograph and adjust it as desired.
3. Tap  to take the picture.




4.5.3 View a photo

1. After a picture is taken, it will be displayed in thumbnail at the lower right corner of the screen. Tap it to view in full-screen mode.
2. While browsing a picture, you can do any one of the followings:
 - Tap  to delete the picture.
 - Tap  to send this picture to your friend or upload it online.
 - Tap  and choose "Set picture as" to set it as contact photo or wallpaper.


Tips: Tap , you can also rotate, crop the picture or view its details.



3. Swipe the screen rightwards or leftwards to view the next/previous picture.

4.5.4 Record a video

1. Open the camera, and tap  to switch to video mode.
2. Aim the camera lens at the object you want to photograph and adjust it as desired.
3. Tap  to start recording.
4. Tap  to stop recording.

4.5.5 View a video










1. After a video is recorded, it will be displayed in thumbnail at the lower right corner of the screen. Tap it to view in full-screen mode.
2. The following operations can be done:
 - Tap  to delete the video.

- Tap  to send this video file to your friend or upload it online.
- Tap , you can stop playing it or play it in loop mode.

3. In play mode, you can pause and play the video by swiping the screen.










4.5.6 Customize camera settings

In camera mode:

- Tap  to enter camera setting screen:
 - a. Tap  to set the store location, continuous shot, exposure, set timer, picture size, anti-flicker and restore defaults;
 - b. Tap  to set scene mode: Auto and Night;
 - c. Tap  to choose color effect;
 - d. Tap  to make white balance setting;
 - e. Tap  to turn on/off flash mode.
- Tap  to zoom in / zoom out the scene.
- Tap  to switch between front camera and rear camera.
- Tap  to set capture mode.

4.5.7 Customize camrecorder settings

In video mode:

- Tap  to enter camrecorder setting screen:
 - a. Tap  to set video quality, store location, exposure, scene mode, video duration, microphone, anti-flicker and audio mode;
 - b. Tap  to set time lapse interval;
 - c. Tap  to set background effect;
 - d. Tap  to choose color effect;
 - e. Tap  to make white balance setting;
 - f. Tap  to turn on/off flash mode.
- Tap  to set the scene size.
- Tap  to switch between front camera and rear camera.

4.6 Gallery

This option is used to manage pictures and video files.

4.6.1 Open gallery

Enter main menu screen, tap “Gallery” to access it. The system searches images and videos in X-431 PRO and SD card automatically, and categorizes it into corresponding folders.

4.6.2 Browse images

1. Enter main menu screen, tap “Gallery”.
2. Tap the picture folder you want to view.
3. Tap the desired image to browse.
4. Swipe the screen rightwards or leftwards to view the next/previous picture.

4.6.3 Play video

1. Enter main menu screen, tap “Gallery”.
2. Tap the video folder you want to view.
3. Tap the desired video to start playing.
4. Tap the screen while the video is playing, a playback console will appear.


4.6.4 Zoom in/ out images


Double-tap the picture with the tip of your finger to zoom in / zoom out.


4.7 Music

This function enables you to enjoy music and audio files on your X-431 PRO.

1. Enter main menu screen, and tap “Music” to enter.
2. Music files are stored into 4 categories: Artists, Albums, Songs and Playlist.
Tap the desired music type.
3. Open music file list.
4. Tap the desired audio files to start playing. Press VOLUME+/- key to increase or decrease the volume.

Tips: While playing, tap  to switch to other applications and the player will be running in background. Open the status bar and choose the audio file to return to the player screen.



Tap , the following settings can be made: party shuffle, shuffle all, sound effects and search etc.

Tap  to return to the previous screen.

Tap  to go back to HOME screen.


4.8 Calendar

This function lets you view calendar or create to-do events.


Enter main menu screen, tap "Calendar". Tap  to choose the desired view mode. Tap , the followings can be done: new events, refresh, search, calendar to display, clear events and settings.

4.9 Alarms

4.9.1 Add an alarm


1. Enter main menu screen, tap "Alarms".
2. Tap  to enter new alarm setting interface.
3. Set the detailed items.
4. After setting, tap "DONE" to confirm.

4.9.2 Delete an alarm

1. Enter main menu screen, tap "Alarms".
2. Tap the desired alarm.
3. Tap , then tap "OK" in the confirmation dialog box to delete it.

Tips: Alternatively, you can also hold and press the desired alarm on the alarm list screen, then choose "Delete alarm" from the pull-down list.

4.9.3 Customize your alarm

1. Enter main menu screen, tap "Alarms".
2. Tap , and then choose "Settings".
 - ♦ Alarm in silent mode: define whether to play alarm even when X-431 PRO is in silent mode.
 - ♦ Alarm volume: Set the volume of alarms.
 - ♦ Snooze duration: Set the duration the alarm snooze next time.
 - ♦ Auto-silence: Alarms will silence after 10 minutes.
 - ♦ Volume buttons: set what these buttons function when pressed during an alarm.
 - ♦ Set default ringtone: choose the alarm ringtone.

4.10 File Manager

This option enables you to manage your files.

Enter "File Manager", then tap "SD card", and then choose the desired folder to perform corresponding operations.

4.11 Display

4.11.1 Brightness

1. Enter main menu screen, tap "Settings" > "Display".
2. Tap "Brightness" to enter.
3. Drag the slider to adjust the screen brightness. Tap the box "Automatic brightness" to adjust it automatically.
4. Tap "OK" to save your setting.

4.11.2 Auto-rotate the screen

1. Enter main menu screen, tap "Settings" > "Display".
2. Tick the box "Auto-rotate the screen".

4.12 Set screen lock



This item allows you to protect your X-431 PRO from unauthorized use by creating a personal screen unlock pattern. Once it is set, X-431 PRO screen will not be unlocked until you draw the right pattern.

1. Enter main menu screen, tap "Settings" > "Security" > "Screen lock".
2. There are several options available for your selection. To define a pattern, follow the on-screen prompts to plot your pattern.
3. After drawing, tap "Confirm" to save your setting.

4.13 Applications

4.13.1 View installed applications

1. Enter main menu screen, tap "Settings" > "Apps" to open the downloaded application list.
2. The following operations are available:
 - ♦ Tap the desired one to view the application information.

- ♦ Tap  and choose "Sort by size" from the pull-down menu, the applications will be displayed in size order automatically.
- ♦ Tap  and choose "Reset app preferences" from the pull-down menu, a confirmation dialog box will appear on the screen, tap "Reset apps" to proceed; tap "Cancel" to abort.
- ♦ To uninstall an application, tap it to enter the application information screen. Tap "Uninstall" and then follow the on-screen instructions to finish it.

4.13.2 View the running applications

1. Enter the main menu screen, tap "Settings" > "Apps".
2. Scroll the screen from right to left to RUNNING tab to open the currently running application list.
3. The following operations can be done:
 - ♦ View the currently running applications;
 - ♦ Tap any one to stop it.

4.14 Language & input

1. Enter the main menu screen, tap "Settings" > "Language & input".
2. Tap "Language" and choose the desired language, the system interface will switch to the target language.
3. To configure keyboard and input method, check the box before the desired input method.

4.15 Set date & time

X-431 PRO is preset to use the network-provided date, time zone and time.

Note: If Automatic date & time is set as Use network-provided time, date, time and time zone will not be defined.

1. Enter the main menu screen, tap "Settings" > "Date & time".
2. Tap "Set date", scroll the screen to until the desired numbers appear on the highlight area. Tap "Done" to save your setting.
3. Tap "Select time zone", choose the desired one from the time zone list. Scroll the screen to view more.
4. Tap "Set time" and scroll the screen to adjust the hour and minute. After

setting, tap “Done” to confirm.

5. Select or deselect “Use 24-hour format” to switch between 12-hour format and 24-hour format.
6. Tap “Choose date format” to choose the desired date format from the list.

4.16 View and release the memory of SD card and X-431 PRO

To view the available memory of X-431 PRO and SD: enter main menu screen and tap “Settings” > SD card and X-431 PRO memory.

In case your X-431 PRO encounters low memory, please try to solve it by doing the following:

- Move the file and email attachments to SD card.
- In Browser, clear all cache, cookie data and history.
- Uninstall the unnecessary applications.
- Reset X-431 PRO to the default settings.

4.17 Restore X-431 PRO to factory settings

This option enables you to restore X-431 PRO to the default factory settings. Once it is reset, all data (including downloaded applications) will be deleted.

Note: Before resetting to factory data, please back up all important data saved in your X-431 PRO.

1. Enter the main menu screen, tap “Settings” > “Backup & reset” > “Factory data reset”.
2. Follow the instructions on the screen to proceed.

4.18 Downloads

All items downloaded in default browser are saved in this folder.

4.19 Install / Uninstall APPS

1. Install: Put the application package under the root directory of SD card, enter “File Manager” and then tap the desired package to start installing.
2. Uninstall: Tap “Settings” > “Apps”, and choose the desired one to uninstall.

Warranty

THIS WARRANTY IS EXPRESSLY LIMITED TO PERSONS WHO PURCHASE LAUNCH PRODUCTS FOR PURPOSES OF RESALE OR USE IN THE ORDINARY COURSE OF THE BUYER'S BUSINESS.

LAUNCH electronic product is warranted against defects in materials and workmanship for one year from date of delivery to the user.

This warranty does not cover any part that has been abused, altered, used for a purpose other than for which it was intended, or used in a manner inconsistent with instructions regarding use. The exclusive remedy for any automotive meter found to be defective is repair or replacement, and LAUNCH shall not be liable for any consequential or incidental damages.

Final determination of defects shall be made by LAUNCH in accordance with procedures established by LAUNCH. No agent, employee, or representative of LAUNCH has any authority to bind LAUNCH to any affirmation, representation, or warranty concerning LAUNCH automotive meters, except as stated herein.

Disclaimer

The above warranty is in lieu of any other warranty, expressed or implied, including any warranty of merchantability or fitness for a particular purpose.

Purchase Order

Replaceable and optional parts can be ordered directly from your LAUNCH authorized tool supplier. Your order should include the following information:

Order quantity

Part number

Part name

Customer Service

Any question during the operation, please call 86-755-84528722.

If your unit requires repair service, return it to the manufacturer with a copy of the sales receipt and a note describing the problem. If the unit is determined to be in warranty, it will be repaired or replaced at no charge. If the unit is

determined to be out of warranty, it will be repaired for a nominal service charge plus return freight. Send the unit pre-paid to:

Attn: Customer Service Department

LAUNCH TECH. CO., LTD.

Launch Industrial Park,

North of Wuhe Avenue,

Banxuegang, Bantian,

Longgang, Shenzhen, Guangdong

P.R.China, 518129

Launch website: <http://www.cnlaunch.com>

<http://www.x431.com>

Statement:

LAUNCH reserves the rights to make any change to product designs and specifications without notice. The actual object may differ a little from the descriptions in the manual in physical appearance, color and configuration. We have tried our best to make the descriptions and illustrations in the manual as accurate as possible, and defects are inevitable, if you have any question, please contact local dealer or after-sale service center of LAUNCH, LAUNCH does not bear any responsibility arising from misunderstandings.