More than diagnosis
A. X431 PAD General Description

B. X431 PAD Key features

C. X431 PAD Comparison

D. X431 PAD Operation
X-431 PAD is the new generation tablet diagnostic scanner of LAUNCH for DBS (Diagnosis Based Solution) car system; configured with Windows Embedded Standard 7 OS, built-in printer and Pluggable DBScar connector; With wireless (3G, Wi-Fi) and Wired Network, One-key update and vehicle diagnostic functions (via Bluetooth communication); Extended functions: VGA/HDMI projection, Oscilloscope, Engine ignition analysis, Sensor simulation and test, Multimeter, Battery test, endoscope. Color touch screen, Easy operation.
A. X431 PAD General Description
B. X431 PAD Key features
C. X431 PAD Comparison
D. X431 PAD Operation
1. Powerful hardware configuration
2. Professional and comprehensive design
3. Powerful diagnostic functions
4. Remote cooperation
5. Diversified Internet applications
6. Multiform one key operations
7. Pre-loaded with latest WIN OS, One key system restore
8. Multitask management
9. Easy installation and flexible use
1. Powerful hardware

- 1.6GHz Dual Core Processor
- Memory --- 2GB.
- Hard Disk --- 16GB SSD
- Battery --- 7400mAh, 7 hrs
- 9.7” TFT IPS Wide Screen
- 1.3 million pixels (640 x 480 resolution) camera
- High speed thermal printer
- VGA&HDMI --- PPT/TV

X431 PAD uses the advanced Intel 1.6 GHz Dual Core Processor. Greatly improves equipment calculation ability. In addition, the energy consumption is greatly decreased, so as to improve work ability.

- Standard with 16GB SSD, can be expanded to 32G, 64G.
- 7400 mAh lithium polymer batteries, the longest standby for 7 hours and sustainable work for 3-4 hours.
- 9.7” TFT LCD Wide Screen, IPS screen with quick response, more stable, in the treatment of the continuity of the dynamic picture it can guarantee clearness and smooth.
Built-in printer and camera

High speed thermal printer
Fast speed, low noise,
Fine display for text and image

Print method: thermal line
Print speed: 60mm/sec
Paper width: 57.5 ± 0.5mm
Effective print width: 48mm

Note:
1. If the printer continues to print for a long period of time, the thermal head close to the paper mouth will be overheating, keep away from it to avoid burns.
2. Thermal printing paper must be avoided from heating up for loss of effectiveness or print results.
Built-in printer and camera

1.3 million pixels (640 x480 resolution) camera
Storage of avi videos and jpg pictures

High speed thermal printer
Fast speed, low noise,
Fine display for text and image

Print method: thermal line
Print speed: 60mm/sec
Paper width: 57.5 ± 0.5mm
Effective print width: 48mm

1. Push forward the printer cover according to the arrow point, open the back cover plate.

2. Place the thermal paper into the paper box, note that the starting point of paper should be close to the outlet.
The results cannot be printed out with reverse installation of paper.

3. Pull out some part of paper along the paper slot as shown in the left picture, otherwise, the printer cannot deliver paper.

4. Put back the paper cover plate. When well closed, a clicking sound will be heard.

Note:
1. If the printer continues to print for a long period of time, the thermal head close to the paper mouth will be overheating, keep away from it to avoid burns.
2. Thermal printing paper must be avoided from heating up for loss of effectiveness or print results.
VGA and HDMI project

For external connection to high definition projector or display, etc.
2, Professional and comprehensive design

- Comprehensively combined with modern communication technology; the first car networking application for high-end diagnostic products of LAUNCH.

X431 PAD fully adapts to the main communication ways such as Wi-Fi, Bluetooth, and 3G.

LAUNCH has strong research and development capabilities on communication, and related products (Diagun - Bluetooth, GDS – Wi-Fi, etc.) have passed through the commercial inspection for 2-3 years.
Fashionable and compact design, fully meets the industrial application.

- **Socket simulator**: Plug DBScar connector in for user experience and presentation.
- **One key operation**: Used for external power interface.
- **USB Interface**: Used for external USB devices, or to connect oscilloscope box, sensor box and battery box.
- **VGA Interface**: Used for external projector or display, etc.
- **Ethernet Interface**: Through the Internet cable way.
- **HDMI**: Used for external hd projector or display, etc.
- **Endoscope**: Used to connect the endoscope.
- **Power**: Used for external power interface.

The diversity of interface, satisfied customers personalized demands.
- **Unique one screen with 12 groups of data flow waveform display**

One screen with groups of data flow waveform display, can help customer for rapid analysis and fault judgment.

X431 PAD can most support one screen with 12 groups of data flow waveform display

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One screen with 1 group (multiple data flow concentration display)

One screen with 4 group 4 groups of data flow independent present, and in a centralized display screen

One screen with 12 groups PAD can most support 12 sets of data flow independent present, in a centralized display screen
**Flexible and practical extension**

The product has also oscilloscope, automobile ignition analysis, sensor test, battery test and J2534 analysis modules (option)
## X-431 PAD optional modules and its functions

<table>
<thead>
<tr>
<th>Module</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endoscope</td>
<td>Provides endoscopic function</td>
</tr>
<tr>
<td>Oscilloscope</td>
<td>Help quickly judge automobile electronic components and line fault, make the automobile electronic equipment testing, setting become simple and intuitive</td>
</tr>
<tr>
<td>Ignition</td>
<td>Display, analyze the auto ignition waveform, auxiliary detection of engine current status and related performance</td>
</tr>
<tr>
<td>Sensor simulation</td>
<td>Diagnosis, simulation of automotive electronic control system sensor faults</td>
</tr>
<tr>
<td>Multimeter</td>
<td>Used to test voltage, resistance, frequency, and other physical parameters</td>
</tr>
<tr>
<td>Battery tester</td>
<td>Using the world's most advanced conductivity measurement technology, make the car battery box charging system test become more safe, rapid and simple.</td>
</tr>
</tbody>
</table>

- Support for multiple standards and specifications detection (standard: CCA, DIN, IEC, EN, JIS, SAE, GB, etc.; specification: meet the common market of automobile starting batteries.)
- Support the car test inside and outside
- Support battery testing, charging system and starting system testing, can quickly and accurately display battery test results;

- DC voltage simulation
- Fixed frequency simulation
- Predefined waveform simulation
- Hand-painted waveform simulation
- Provide automobile sensor simulation test, car multimeter test function

- The smallest diameter insertion probe in the market, 3.9 mm diameter.
- All components pass our 60000 cycles life test continuously.
- 1.5X Zoom / View Mirror supported
- Still Image Storage Format: jpeg (640*480)
- Frame Rate:~30 fps
- Exposure: Automatic
- White Balance: Fix

- Quickly capture circuit signal
- Display the waveform with low speed for observation and analysis
- The test signal waveform storage records, convenient faults analysis
- Detection, display, save all electronic signal amplitude, frequency, shape, pulse width, array five kinds of parameters
- Provides car specialized oscilloscope and automobile ignition waveform analysis function

- DC voltage simulation
- Fixed frequency simulation
- Predefined waveform simulation
- Hand-painted waveform simulation
- Provide automobile sensor simulation test, car multimeter test function

- The smallest diameter insertion probe in the market, 3.9 mm diameter.
- All components pass our 60000 cycles life test continuously.
- 1.5X Zoom / View Mirror supported
- Still Image Storage Format: jpeg (640*480)
- Frame Rate:~30 fps
- Exposure: Automatic
- White Balance: Fix
3, Powerful diagnostic functions

Wide coverage of vehicles

X-431 PAD inherits the diagnostic functions of x431 series (the diagnostic equipment with most vehicle model software developed at present).

X - 431 PAD supports BENZ, BWM, FORD, VW, NISSAN, HYUNDAI, in addition to the above mainstream types, also involves IRKIA, PERODUA, Proton, TATA, Maruti, LANCIA, DACIA, Smart, Transporter & V-Class etc. Asia/Europe/America with 90% The models on software diagnosis (220 cars, 2500 car Models).
**Strong development capability**

R&D team more than 400 staff;

Several domestic and overseas development and test bases

- **Overseas:** U.S.A, Germany, Great Britain, Australia, Japan, France, Latin America, Malaysia
- **Domestic:** Beijing, Shanghai, Shenzhen, Xi’an, Wuhan, Chengdu, Shenyang, Guangzhou

The first diagnostic equipment company in China,
Extensive accumulation of various vehicle communication protocols;
Several special features

20 years of experience on diagnostic technology.

Relying on the continuous development of basic diagnostic functions, and extending several special features into different product forms.

Such as BMW idle speed learning, injection rate regulation, battery replacement resetting, Exhaust gas recirculation, Nissan idle speed learning and key matching, etc.
4. X-431 PAD remote cooperation

X-431 PAD equipped with camera, one-key screenshots, headset, and wireless transmission function, the related condition data can be real-time acquired.

Through the VPN channel, the data can be delivered to background server. The background server can check the videos and images, and also can do the remote operation and control with the interface transferred from customers. Meanwhile, they can talk through the headset and microphone.
5、The diversity of Internet application

- X-431 PAD provides full open browser, can switch directly to access LAUNCH www.dbscar.com, North America AllData, Europe AllData, and other professional website, to make related data and material information query, convenient and prompt in solving work problems and service support。
**One-key feedback**

X431 PAD has one key feedback function. Customers can timely report the problems to the LAUNCH background server with images, texts and videos, to get the prompt support.
- Provides CC instant communication tool

X-431 PAD built-in the I/M live chat tools developed by LAUNCH, can talk with manufactures, other repair shops, car owners, car clubs and so on to exchange of information, consulting interaction.
6. Multiform of quick & convenient one key operation

- **One key switch**

  X - 431 PAD specifically designs one key operating functions, solve the problem of the commonly used system switching operation, easy to use.
One-key screenshots

X - 431 PAD specifically designs one-key screenshots function, so the operator can put some moment working condition in picture form record and storage, and may carry on wireless transmission or ex-post analysis.

The function is to manage user data, including diagnostic data records, screenshot images, videos, etc, with data browse, view, clear, import and export operations.
One-key upgrade

After customers set the configuration such as car models, it can complete all selected car software upgrade task with one key press.

- Select model
- Select software version
- Version information
- Lower PC version
- Upgrade completed
- Upgrading
- Key for upgrade

LAUNCH
7. Pre-installed the latest WIN system, with one-key restore function

X-431 PAD – pre-installed Windows Embedded Standard 7, dual-core processor, 10 times faster than traditional equipment, built-in one key system restore function. When the system collapses or crashes, the customer can restore the system and reset the parameters again for use.

Recovery System of X-431-PAD

Connect to a PC Keyboard, reboot the PAD, keep press 'F12' key on the Keyboard.

Please press ‘-&gt;’ key when you read as following:

Finished the recovery, please do all diagnostic soft update.
8. Multi mask management

X-431 PAD supports multi task management, Applications can be running at the same time without exiting the current program, changed the old traditional single work mode (current application needs to quit when switch to another work interface).
9、Installation and use are flexible and convenient

Placed on desk

Hugged on front cover

Placed on the steering wheel

Hand hold
A. X431 PAD General Description
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Comparison

1. 1.6G dual-core CPU, HD IPS screen
2. Smallest OBD diagnostic adaptor (DBScar)
3. Cover mainstream European, American and Asian cars and also involves diagnostic software for 90% of models in Asia, Europe and the United States like IRKIA, PERODUA, proton, and TATA.
4. Easy to expand, the optional functions include oscilloscope, engine ignition analysis, sensor simulation and test, multimeter, battery test, endoscope, etc.
5. Unique Remote cooperation, control and diagnosis
6. Variety of Internet applications (one-key feedback, the instant communication Buddy System)
7. 12 groups of DataStreams in waveform displayed in one screen
Creader VII

Diagun III

X431-IV

X431-3G

X431-PAD

DIY tool

Portable tool

Comprehensive diagnostic tool

1. Full system Diagnosis of individual model
2. OBD2 & EOBD diagnosis
3. Hand tool

1. Smart and portable
2. Bluetooth communication
3. Powerful diagnostic functions
4. Pretty interface, simple operation

1. X431-IV: Economical and durable diagnostic equipment
2. 3G:
   ① Cover mainstream European/American/Asian cars;
   ② Oscilloscope;
   ③ Ignition Analysis;
   ④ Sensor test and simulation;
   ⑤ Help docs;
   ⑥ VGA

3. X431-PAD:
   ① Configured with Windows Embedded Standard 7 operating system;
   ② Built-in printer;
   ③ Supports 3G, WiFi wireless and RJ45 wired access to network, one-key upgrade and automobile fault diagnosis (Bluetooth Communication) features;
   ④ VGA / HDMI, oscilloscope, engine ignition analysis, sensor simulation and test, multimeter, battery testing and extended functions of automotive endoscope;
   ⑤ True color IPS screen display, and supports for handwriting through touch, simple and convenient;
Operation

1. Installation of DBScar adaptor

SMART OBD II-16, SMART OBD II-16C, CAN BUS I, CAN BUS II, Zhonghua-16, TOYOTA-16, BMW-16, AUDI K-L CONVETER, CITROEN-16, SUPER-16

Can be replaced by

Other 16PIN adaptors

Car → DBScar adaptor → Other 16PIN adaptors

Direct connection → Directly inserted into DLC

(suggest use extension cable for connection) → Use extension cable to connect to DLC
2, Start-up

Press 【 】 to start the tool.

Press for 8s to shut down the tool (not recommended).

Enters into the desktop after starting for 35s.

Note:
1, Car battery voltage should be 9-14 volts
2, Please operate according to the instructions (such as: Water temperature 90-110 °C, gearbox oil temperature 50 – 80°C)
3, Press power button for 5 times when touch fails to directly enter touch screen calibration
3, Registration

For use at the first time, system will prompt that product has not been registered yet.

① Click OK to perform on-line registration

Product registration

-Mailbox bound to easily get back your password

Pass registration

② Can be also registered by www.dbscar.com
4, Language setting

Click settings to set the language switch system, etc.

Note:
1. Priority is the language used for registration, then English.
2. If the equipment does not work properly due to improper language selection, please contact your local dealer.
5, Bluetooth pairing

1. Before delivery, Bluetooth has already been paired. If it does not work properly for the first time, it is recommended to re-pair.
2. If there are communication problems during use, re-plug the connector;
3. After replacing the connector, it needs to be re-paired;

Click ‘Diagnostic’

Select ‘Diagnosis via Bluetooth’

Search for Bluetooth → Pair
Operation

6, DataStream record

- Click ‘record’ to record the whole DataStream process.
- Click ‘History’ button to check the recorded data.
- Click ‘My data’ to search the recorded data.
7. Domain configuration & 3G dialing-up

Correct selection of domain configuration will improve webpage access speed.

Click ‘Settings’

Start 3G function

3G dialing-up
Operation

8, Shut-down

Correct selection of shut-down ways will prolong the service life of the tool.

Click ‘Exit system’

Select ‘Power off’
Package
## Standard accessories

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<th>No</th>
<th>Code</th>
<th>Name</th>
<th>Photo</th>
<th>Code</th>
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<td>201024811</td>
<td>DBScar connector</td>
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<td>105020988 OBD II Extension cable</td>
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<td>104010885</td>
<td>Stylus</td>
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<td>Y203010242 Cigarette lighter cable</td>
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<td>4</td>
<td>102210101</td>
<td>Power adapter</td>
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## Accessories

### Optional accessories

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<tr>
<th>序号</th>
<th>编码</th>
<th>产品名称</th>
<th>图片</th>
<th>序号</th>
<th>编码</th>
<th>产品名称</th>
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<td>Y203010556</td>
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</table>
With X-431 PAD, you own the whole world
Thank you!