X-431 PADII Product Introduction

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Product Introduction

✓ X-431 PADII is Launch's new high-end car fault diagnostic device based on the Android system. It inherits Launch's many advantages in car fault diagnostic technologies, including large car model coverage, powerful functions, a large number of special functions, and accurate test data. Car fault diagnosis can be implemented for all car models and systems by connecting the car diagnosis connector to mobile intelligent terminals via Bluetooth. In addition, X-431 PADII supports extension module applications for oscilloscopes, sensors, endoscopes, multimeters, and battery detection.

✓ X-431 PADII hardware configurations are supereminent among similar products: Cortex-A7 4 core processor, 1.2GHZ; 2G memory, solid state memory 32G; 10.1 inch IPS high definition capacitive screen; machine passed the IP65 test

Machine Introduction

| SN	Name	Description
1	golo indicator lamp	When a new message is received, the golo indicator lamp blinks.
2	Front camera	It supports foregrounds and 2 megapixel.
3	Power indicator lamp	When the host starts or is working properly, the power indicator lamp turns on.
4	Power key	Click it to lock the screen and turn on/off the device.
5	Power interface	It is used to connect to the power adapter.
6	Mini USB interface	It is used to connect to USB devices.
7	HDMI interface	It is used to connect to high definition projectors or displays.
8	Audio input interface	It is used to connect to audio devices such as headphones.
9	SD card slot	It supports extended storage card (TF) up to 32G.
10	USB interface	It is used to connect to USB devices. It is used to connect to the oscilloscope module, sensor module, or battery module during function extension.
11	Volume key	It is used to adjust the volume.
12	Restart key	Click it to automatically restart the device.
13	Rear camera	It supports high definition filming with flashlight and 5 megapixel.
14	Battery	12000mAh lithium polymer battery

DLC Introduction

编号	名称及说明
1	充电槽 —— 用于给X-431 PADII进行充电。
2	带电OBD16接头插槽
3	电源插孔 —— 将电源线连接至插座给充电底座供电。
4	不带电OBD16接头插槽 —— 用于存放其它闲置的DBScar诊断接头以防丢失。

Product Key Point Introduction
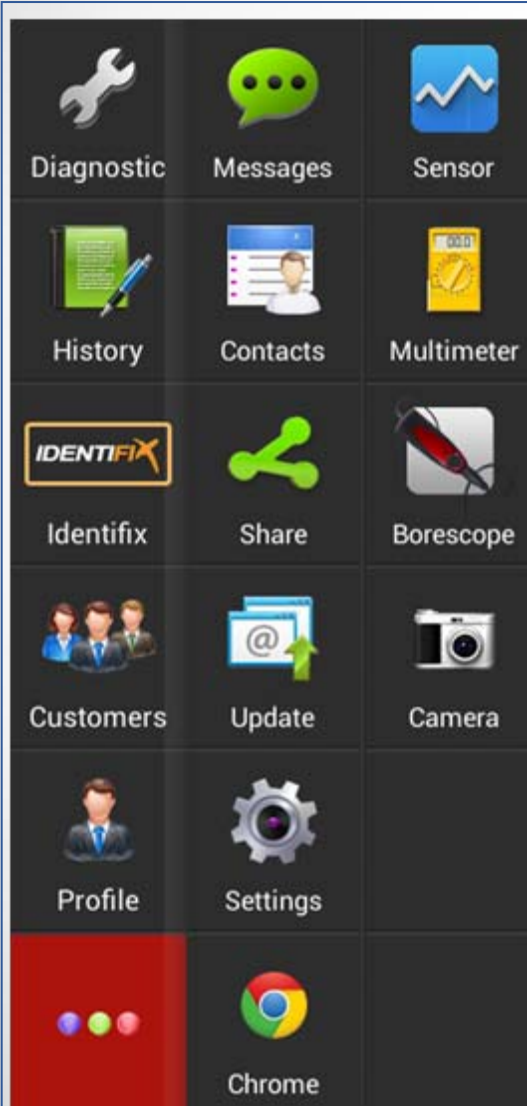
More powerful hardware configuration
Cortex-A7 4 core processor, 1.2GHZ; 2G memory, solid state memory 32G; 10.1 inch IPS high definition capacitive screen; machine passed the IP65 test

Comprehensive diagnosis for all functions
Full system diagnostic device, supporting: Read data streams, storage, playback, read DTCs, clear DTCs, actuation test, special functions

Large car model diagnosis coverage
Support more than 200 car models and more than 2000 car brands.

Multifunction extension module
Oscilloscopes, sensors, endoscopes, multimeters, and battery detection

DTC intelligent search
With the car model name prefix to quickly search for DTCs on Internet.

Maintenance database
Provide a large amount of vehicle maintenance information

Upgrade center
Support one-click upgrade for firmware and car model software and release updates in real time.

Wireless Diagnostic Function Schematic

◆ Equipped with DBScar diagnostic connector (100 meter Bluetooth)

Car to be tested

Direct access

Extended wire access   DBScar connector
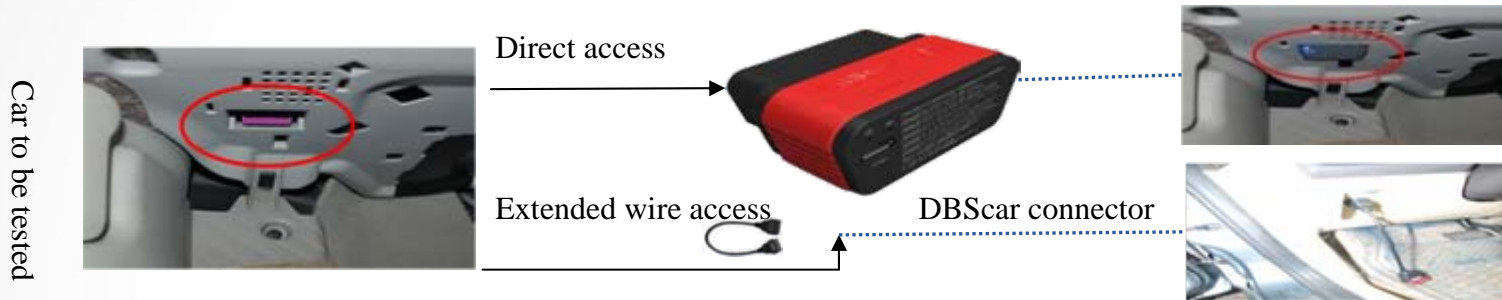
Step 1: Insert the DBScar diagnostic connector into the DLC (OBD II extended wire is recommended). If the DLC is not OBDII 16PIN, insert the adapter into the DLC and then insert the DBScar diagnostic connector into the adapter.

Step 2: Choose **Set** > **Wireless and Network** > **Bluetooth** to access the X-431 PADII Bluetooth page and set the Bluetooth state to ON.

Step 3: Access the software to diagnose the car.

Diagnosis

Bluetooth pairing

Intelligent terminal

Remote Diagnostic Function Schematic
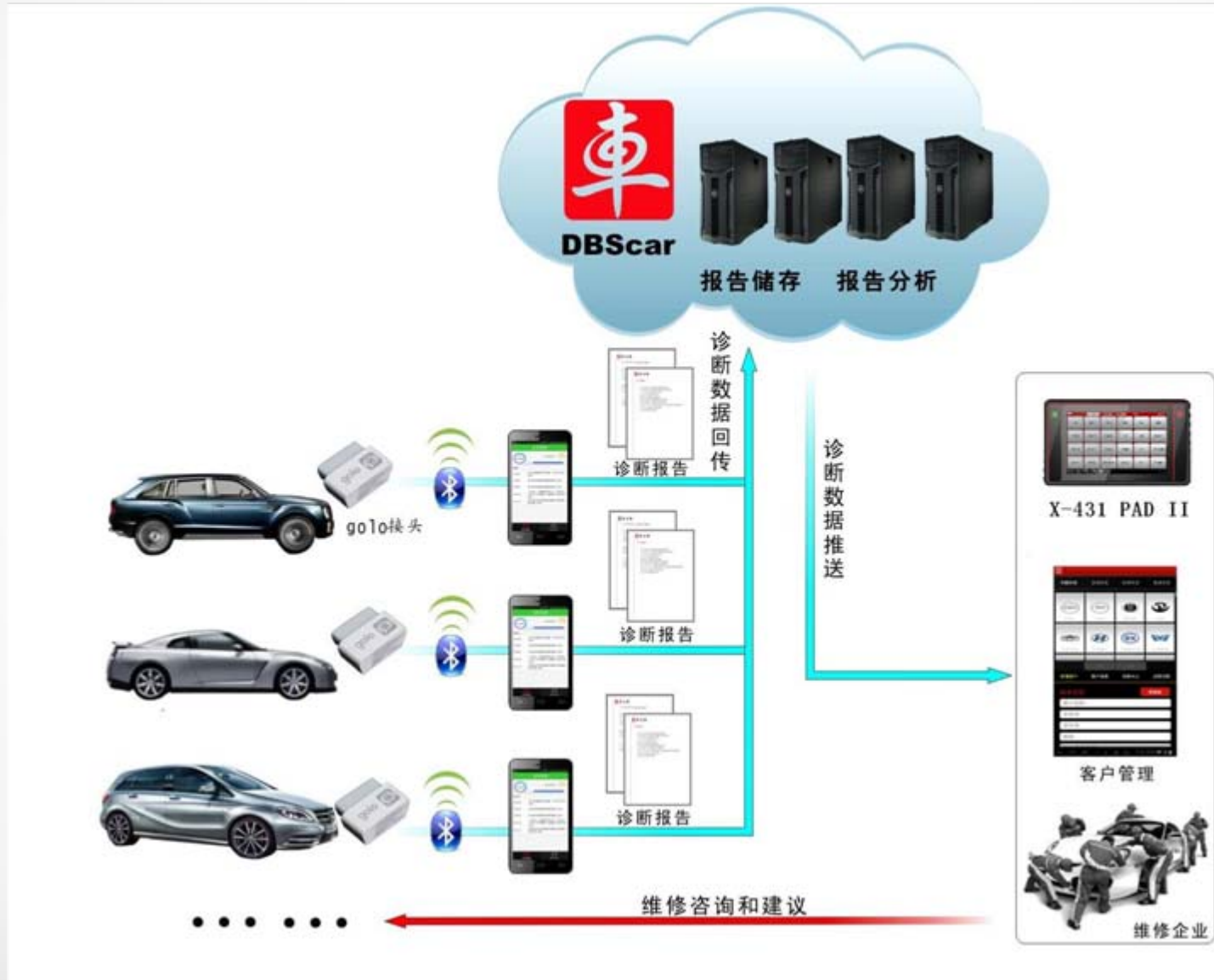
Hardware Part

Compared with X-431 PadI , X-431 PadII has better hardware configuration.

X-431 PADII		X-431 PADI
Quad-core: ARM Cortex-A7, quad-core, 1.2GHZ	**Processor**	Dual-core: Intel Dual Core, Processor 1.6GHz
2G/32G	**Memory/Hard disk**	2G/16G
Capacitive screen: 10.1 inch, 1280*800 5 point touch screen, IPS high-definition screen	**Display**	Resistive screen: 9.7 inch, 1024*768, TFT LCD Wide Screen
12000mAh Use duration: 6-8 hours	**Battery**	7400mAh Use duration: 4-6 hours
Android 4.1	**Operating system**	Windows 7

DTC Functions

Provide integrated services of Read DTCs, Clear DTCs, Query DTCs, and Help.

DTC	Description	Status
🔍 P1121	Intake air temperature sensor	
🔍 P1131	Knock sensor	

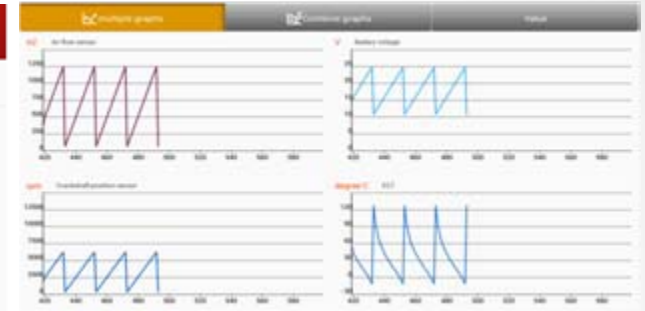DTC one-click search (Intelligently read the car model name as the prefix during search.)

A Report   Generate Screenshot Reports

Software Introduction – Data Stream (1)

On the page for selecting and reading data streams, you can click "Record", "Graphic", "Combined Display", and "Text Display" to perform the corresponding operations. In addition, report generation, graph recording, and playback services are supported.
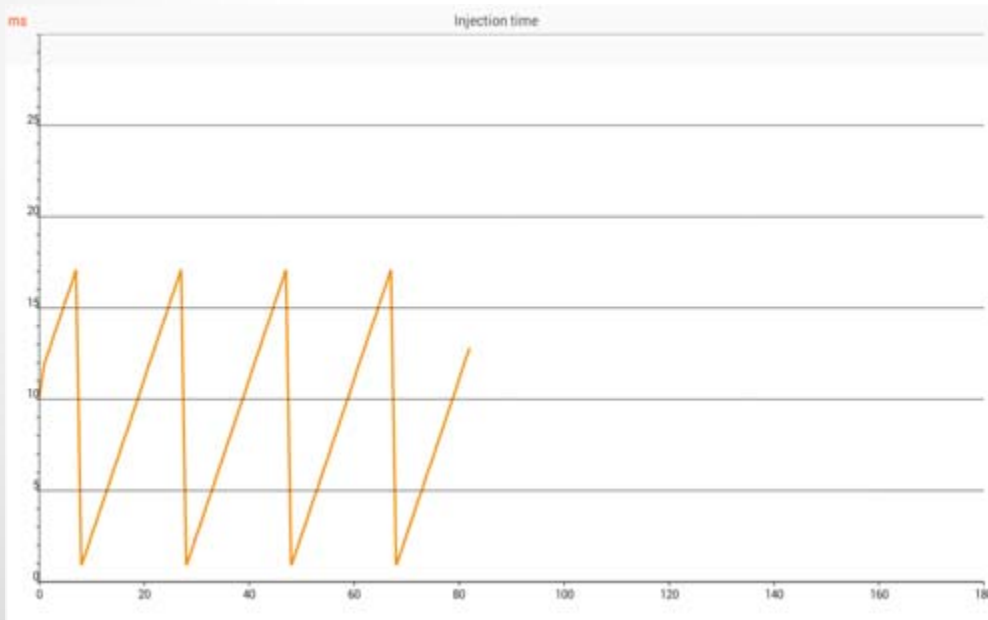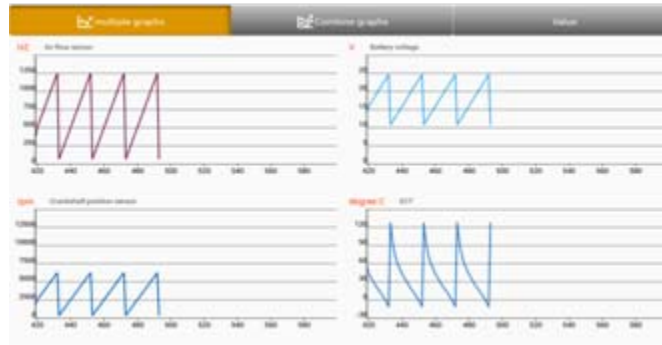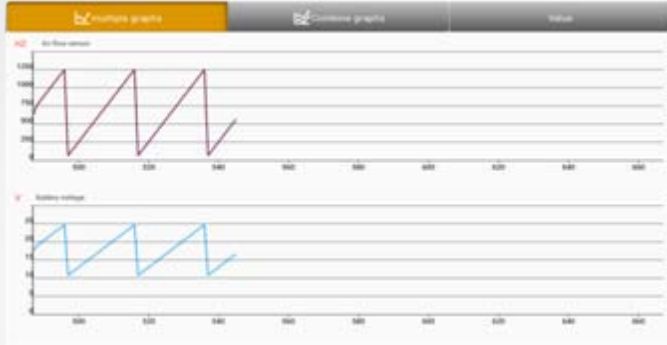

Text Display

Multiple graphic display

Multiple graphic combined display

Data Stream (2)

On the page for reading data streams, multiple types of graphs can be displayed, and at most 15 graphs can be displayed

Click a graph to view it in full screen.

Data Stream (3)

Data streams can be recorded and a report can be generated. Historical reference data is provided.

Records are saved in "My Report" as a report.

Data Stream Report Playback

You can click the data stream storage report to view recorded data stream information, which can be displayed in waveform.

Special Functions

Idle Analysis, Fuel Supply Control, Battery Replacement Reset, EGR, and key Matching

Data Stream Name	Value	Unit
Illumination		%
Airbag Warning Light	OFF	
DISPLAY UNITS	METRIC	
CONTROL MODULE VOLTAGE	12	V
Brake warning lamp	ON	
Brake Pad Wear	OFF	

Actuation test can be performed during data stream reading. Use +/- to adjust test object status.

BACK	+	-	CANCEL

Maintenance Database

Provide maintenance database of various car models for customers.

Select car model

Click "Maintenance Database" on the main page.

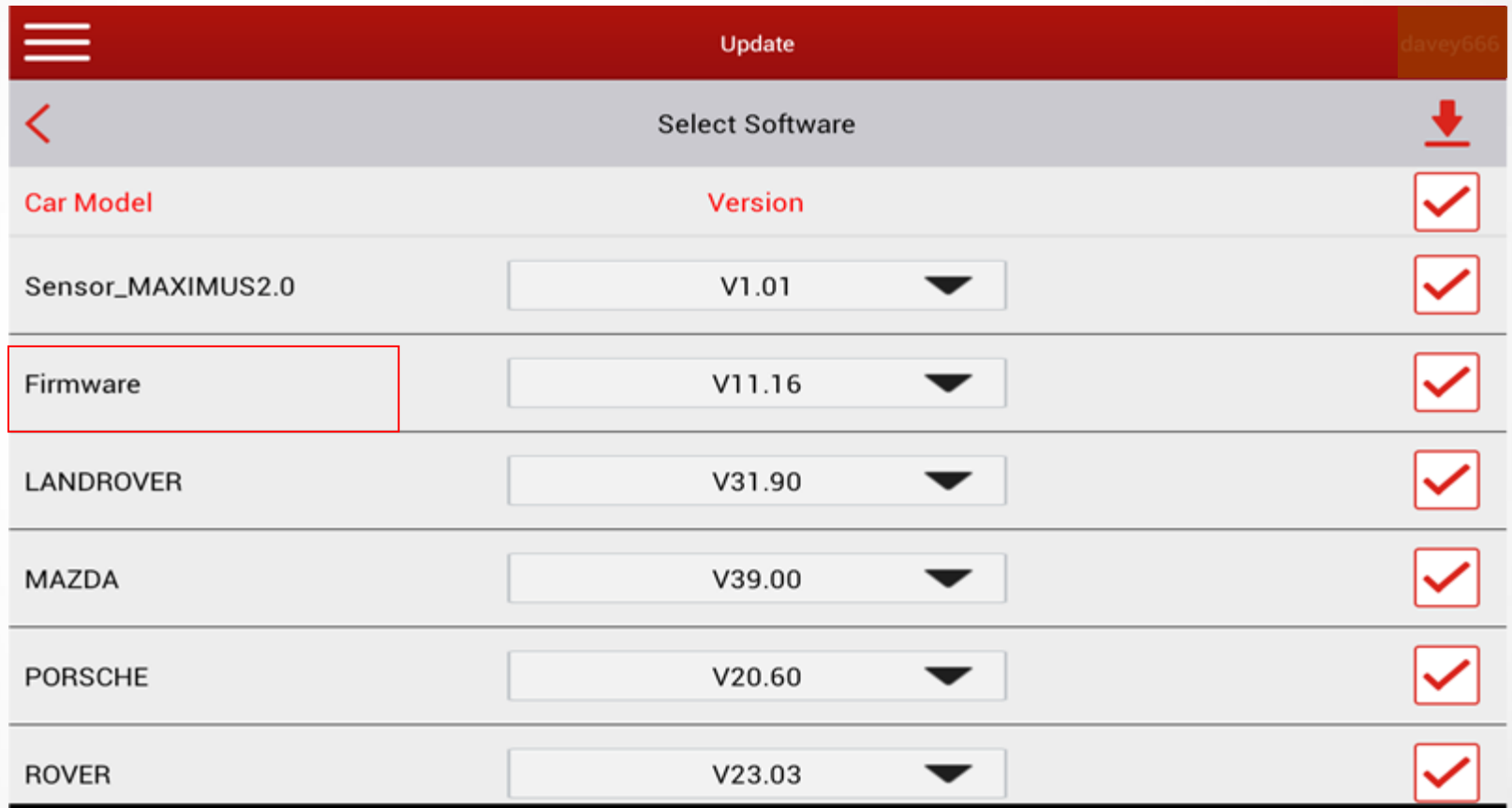View maintenance information

📄Note: To successfully use the maintenance database, ensure that X-431 PADII is connected to the Internet.

Upgrade Center

Support one-click upgrade for firmware and car model software and release updates in real time.

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Firmware upgrade

Car model software upgrade

Car Model	Version	
		✓
Sensor_MAXIMUS2.0	V1.01 ▼	✓
Firmware	V11.16 ▼	✓
LANDROVER	V31.90 ▼	✓
MAZDA	V39.00 ▼	✓
PORSCHE	V20.60 ▼	✓
ROVER	V23.03 ▼	✓

Update

Select Software

davey666

Public Module Upgrade

The extension module is an independent installation program, and can be uninstalled, downloaded, and installed. Firmware upgrade is "Project that must be upgraded" to resolve hardware problems.

Software Name	Version	Progress	Status
Sensor_MAXIMUS2.0	V1.01		Click to install
Firmware	V11.16		Successful
LANDROVER	V31.90		Successful
MAZDA	V39.00		Successful
PORSCHE	V20.60		Successful
ROVER	V23.03		Successful
SSANGYONG	V18.20		Successful
TOYOTA	V47.61		Successful

Extension module upgrade schematic
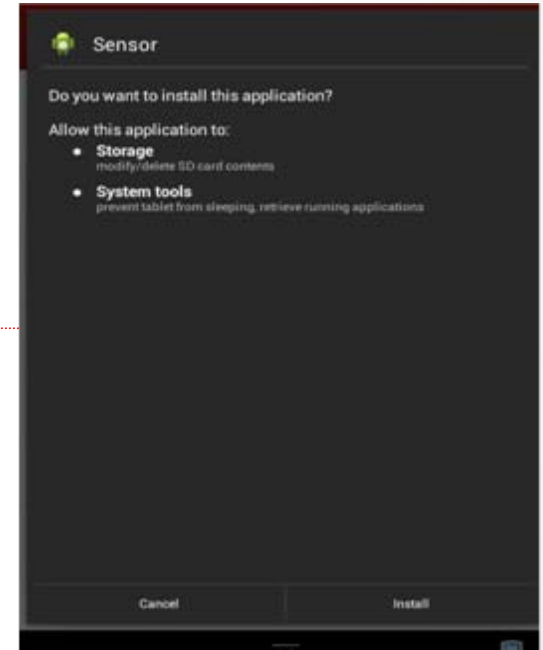
Convenient Browsing

Convenient browsing websites: www.alldatasheet.com, www.shopkeypro.com, www.mithell.com
This helps customers to view information from the Internet.
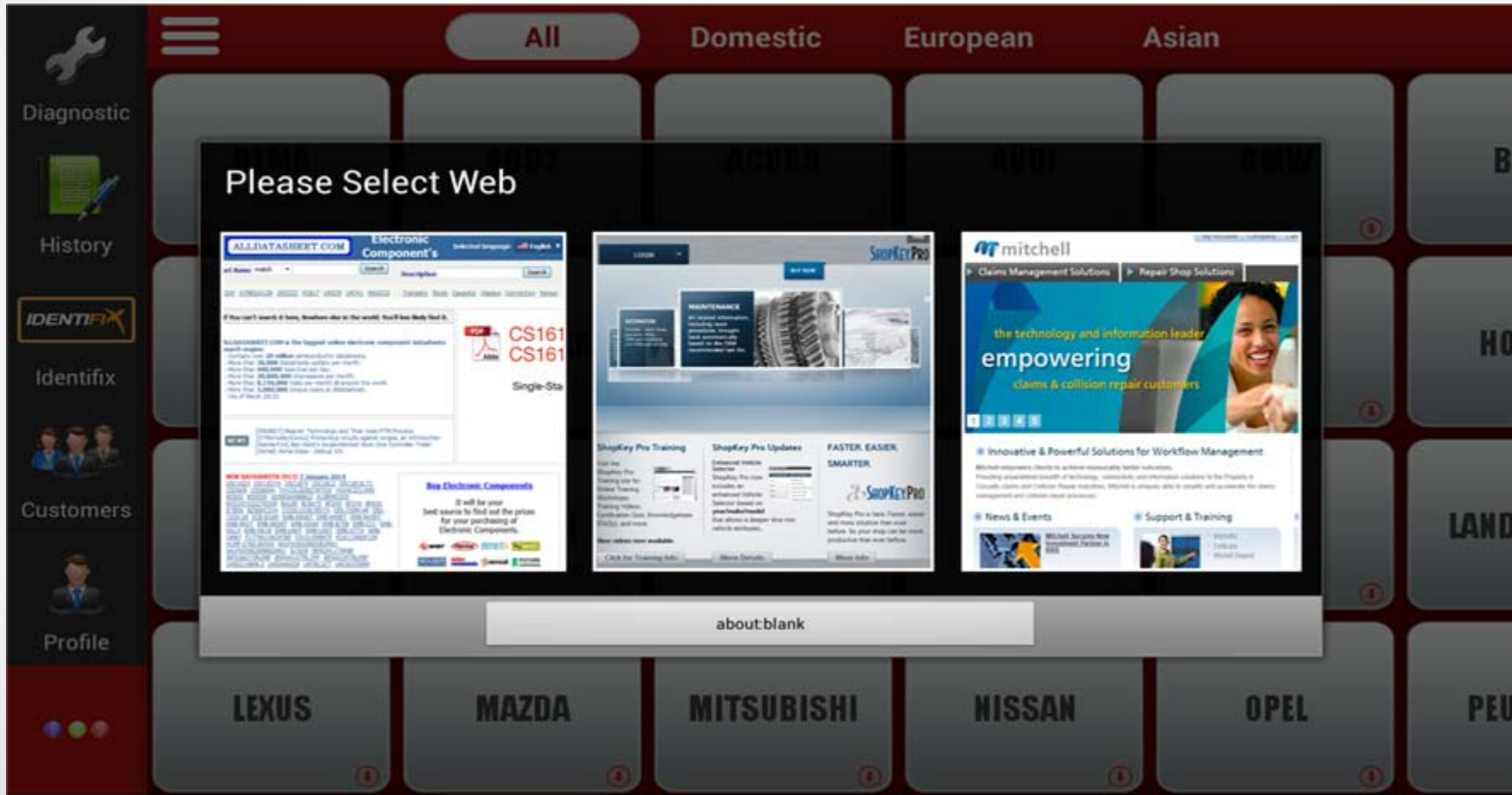
Extension Module

It provides oscilloscope, sensor, endoscope, multimeter, and reset extended function services.

	Oscilloscope function (Estimated June)	Sensor test	Battery test	Endoscope
Software icon	Oscilloscope	Sensor	Battery Test	Borescope
Adapter module				
Application extension				
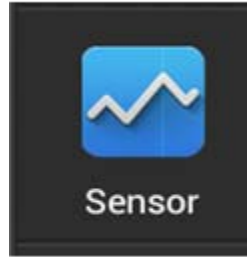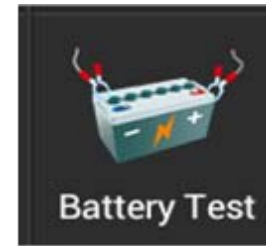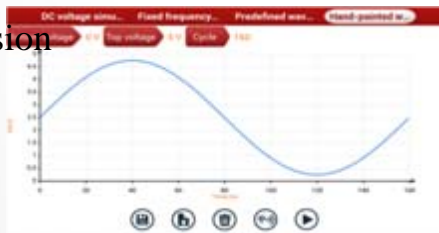
Battery Detection Module Operation Schematic

- **Detect battery status when the battery is static, connected and provide an accurate detection report to determine whether the battery is good.**

Registration Instruction

Input the product SN and verification code, and then click **Confirm** to access the diagnosis page.

Comparison with Products of the Same Type

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| Contents		X-431 PADII	X-431 PAD	X-431 Pro	X-431 Pro3
Host	CPU	ARM Cortex-A7 quad-core，1.2GHZ	1.6GHz dual-core processor	2 core，up to 1G	4 core，up to 1.2G
	RAM/ROM	2G/32G	2G/16G	512M/8G	1G/8G+32G
	Display	10.1 Inches,1280*800,IPS	9.7'colored (TFT) IPS widescreen	7 Inches,1024*600,TN	10.1 Inches,1280*800,IPS
	WIFI	Support	Support	Support	Support
	Ethernet	N/A	Support	N/A	N/A
	Camera	Front 2.0 Megapixel /Rear 5.0 Megapixel, AF with Flashlight	Rear: 1.30 Megapixel (640 x480 resolution) camera	Front 0.3 Megapixel /Rear 2.0 Megapixel	Front 0.3 Megapixel /Rear 3.0 Megapixel
	Battery	12000mAh	7400mAh	3000mAh	6600mAh
	Battery Life	6-8 hours	4-5 hours	3-4 hours	6-8 hours
	Micro SD	Support	Support	Support	Support
	HDMI	Support	Support	N/A	N/A
	USB	One , USB2.0	One , USB2.0	Mini USB	Mini USB
	Boot Time	25s	30s	20s	20s

OS	Android 4.1 and above	Windows 7	Android 4.1 and above	Android 4.1 and above
One-click Update	Support	Support	Support	Support
Identifix	N/A (Quick web link saved in favorite)	N/A (Quick web link saved in favorite)	N/A (Quick web link saved in favorite)	N/A (Quick web link saved in favorite)
Maintenance Database	Support	Support	Support	Support
Customers Manager	Support	Support	Support	Support
Vinscan for kwp,vpw,pwm,can	Support	Support	N/A	N/A
ECU Coding	Advanced	Advanced	Advanced	Advanced
Endoscope	Support	Support	N/A	N/A
Modules	Support	Support	N/A	N.A
GRAPHS	15	12	4	15