

LAUNCH

4 Channel Oscilloscope

X-431 O2-1 Scopebox

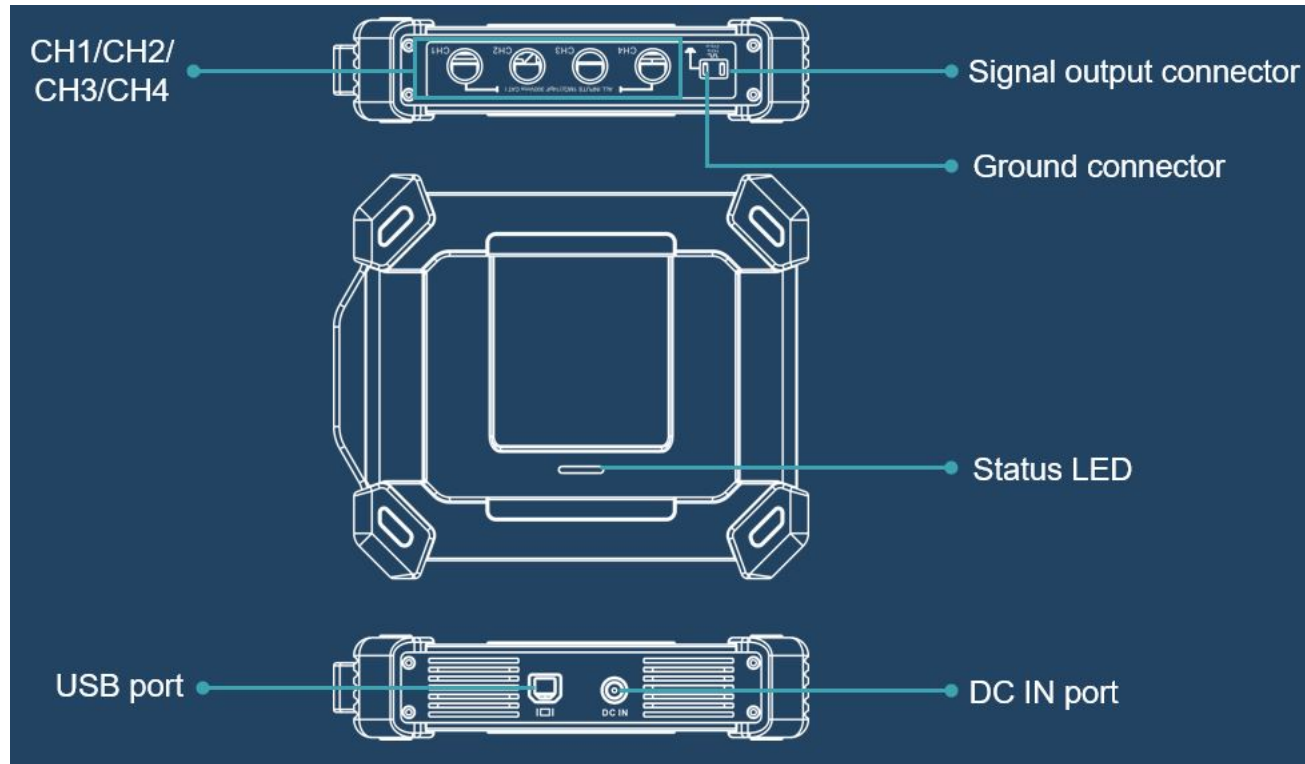


Introduction

- The Automotive oscilloscope helps to quickly locate and evaluate the faults in automotive electronic devices and wiring.
- O2-1 Scopebox can not only capture the circuit signal quickly, but also slowly display the waveform to be observed and analyzed.
- It can record and store the tested signal waveform, which makes the failure analysis very convenient.



Introduction



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The Scopebox can be used with two apps on LAUNCH X-431 EURO TAB2:
Scopebox and Ignition Scope



Scopebox

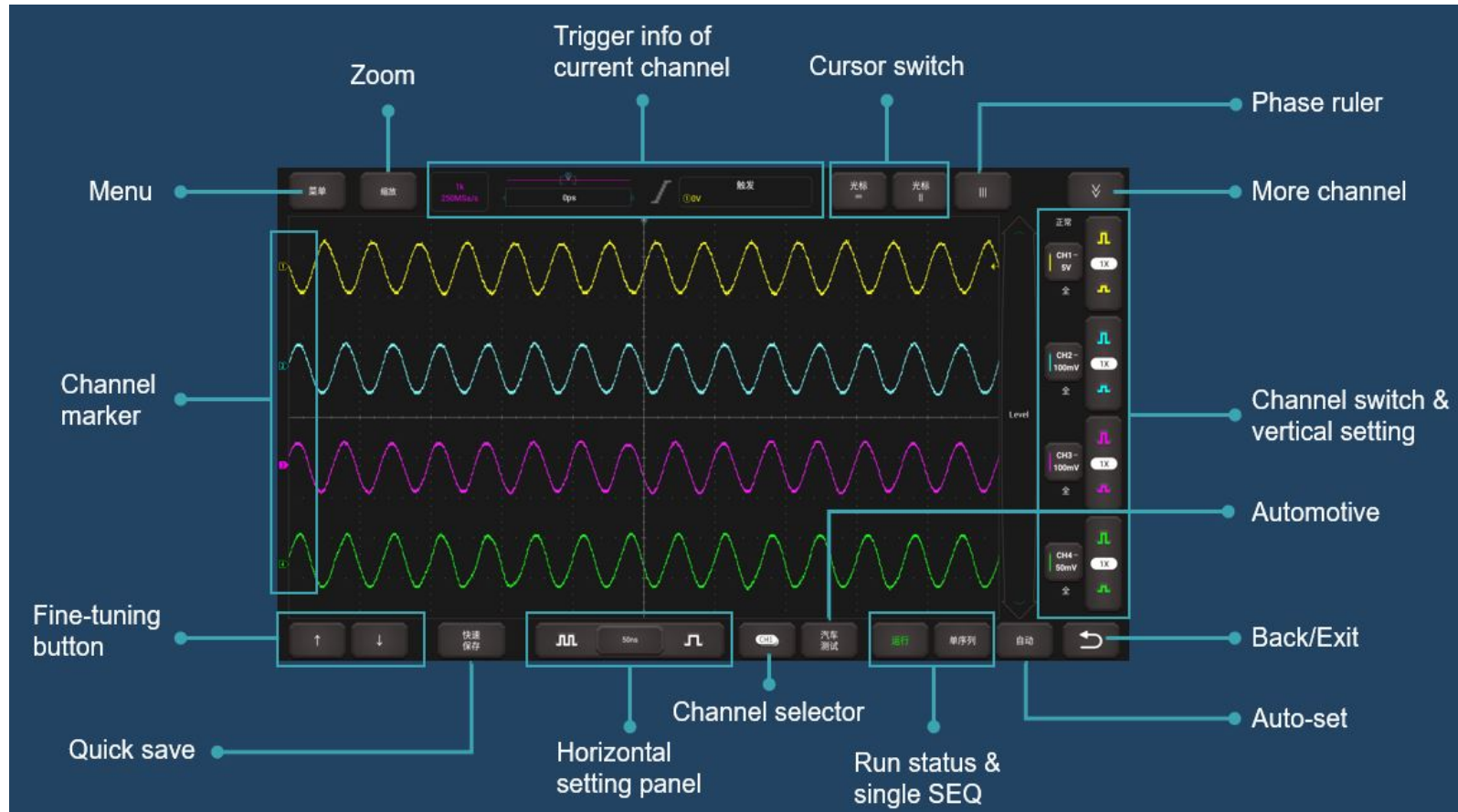


Ignition Scope

Technical Parameters

Item	Range	Item	Range
Channels	4	Acquisition mode	Normal
Bandwidth	100MHz	Line decoding	CAN, LIN
Rising time	≤3.5ns (typical)	Trigger type	Edge, Pulse width
Max. sample rate	1G (for four channels)	Trigger mode	Normal, Auto and Single SEQ
Input impedance	1MΩ ± 1.5%	Trigger Coupling	DC, Noise rejection
Storage depth	50M (for four channels)	Display	YT, Zoom, Roll
Vertical resolution	8bit	Roll mode	200ms/div~1000s/div
DC gain accuracy	± 3%	Auto set	Support
Horizontal scale	5mV~10V	Auto measurement items	23
Horizontal offset range	± 2.5V (in case of probe switch "x1", <500mV/div), ± 120V (in case of probe switch "x1", ≥500mV/div)	Cursor	Horizontal cursor, Vertical cursor
Invert	Support	Power interface	USB port, DC IN port
Coupling	DC, AC	Data exchange via	USB
Timebase	50ns~1ks	Compatible operating system	Android
Timebase precision	20ppm	Automotive	Circuits, sensor, actuators, ignition

Main Menu



Features

- **23 automatic measurements:** 23 kinds of automatic measurements are displayed on one screen, which are clear at a glance, and can be selected by tapping. It supports one-key clearing, which eliminates the tediousness of repeatedly turning pages and searching, and makes automatic measurement easy and convenient.
- **Powerful trigger function:** Support edge, pulse width and other triggers. Intuitive trigger settings and quick trigger source switching make the most difficult part of oscilloscope application extremely easy.
- **High storage depth:** With a storage depth of up to 50M, together with zoom technology, both the overall picture and the details can be fully displayed; the upper area can be browsed globally, and the lower area can be searched for details, so that the debugging speed is more than doubled
- **Special quick store function:** The waveform can be quickly saved with one key, and ordinary oscilloscopes need 3 to 5 steps to achieve this step, which can save more than 70% of time.
- **Convenient cursor operation:** Turn on the horizontal and vertical cursors with one key respectively. Each cursor can be dragged independently, and cursor tracking can also be realized directly by simple highlight touch, and the overall efficiency is increased by more than 80%.

Features

- **Virtual keyboard input:** When inputting names and characters, ordinary desktop oscilloscopes can only use the knob to "difficultly" rotate one by one to select input, while this scopebox can click on the soft keyboard to input, which improves efficiency by more than 90%.
- **Customize and load system settings:** A variety of preferred system settings can be set and saved as configuration files. Later, you can directly load the configuration file for viewing according to personal preferences, without repeated settings.
- **Waveform recording and playback:** The waveform can be recorded and saved, and then it can be directly recalled as a reference channel waveform for display.
- **Support waveform math operations:** It supports the calculation of addition, subtraction, multiplication and division of two channel waveforms, and also supports FFT(Fast Fourier Transform).
- **Support multiple automotive tests:** such as circuits, sensors, actuators, ignition tests, communication tests and combination tests. Various parameters are preset and specific connection methods are provided for each test.

Accessory list



BNC to 4mm Test Leads

It is a kind of special line for assisting the Scopebox to test various types of signals.



6-way Breakout Leads

Each lead has 6 blades wired to 6 sockets, allowing you to insert it between a plug and socket pair, other ends are 6 (4 mm) sockets which can be connected to the BNC to 4mm Test Lead



USB Cable

Connects the Scopebox to the diagnostic tool so that the sampled signal can be displayed on the diagnostic tool.



20:1 Attenuator

It allows the Scopebox to measure fuel injector and primary ignition waveforms.

Accessory list



Battery Clamps Cable

To supply power to the Scopebox through connection to vehicle's battery.



Multi-meter Probes



Secondary Ignition Pick-up



Back Probe Pins Suite

Used for piercing the insulation of wires to allow for automotive electrical measurements without causing damage to the wires.



COP(Coil-on-Plug) Extension Cord



Crocodile Clips

Designed to connect the bare terminals or leads.



Probe (Optional)

Order Info

Product Name:	X-431 O2-1 Scopebox
Article Number:	LE-O2-1-301180831
List Price:	1.190,00 € + VAT
Package Info:	Size: 422 x 123 x 354 mm Weight: 4,5 kg

Thank you!



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