

# Automotive Oscilloscope

- Pre-configured automotive diagnostic functions, compatible with all vehicle models
- Supports actuator testing, comprehensive primary and secondary ignition circuit tests
  - Built-in battery for more convenient vehicle body diagnostics
  - Compact and lightweight, ideal for automotive diagnostics
- Comes with a full set of automotive repair accessories for more accurate measurements

12bit



AHO1 Series



ATO Series



VATO Series



SATO Series



## Features

- Powerful signal capture and analysis capability
- Various Sensors / Actuators / CAN / LIN / Flexray / Ignitions
- Convenient Storage: waveform/ save pictures / video recording
- Professional Accessories: twin package options, standard with a variety of automotive repair-specific accessories.
- HDMI function for training & education
- Life-long free software online update



## Diagnostics

<ul style="list-style-type: none"> <li>• Primary Ignition</li> </ul>	<ul style="list-style-type: none"> <li>• Crankshaft</li> </ul>	<ul style="list-style-type: none"> <li>• CAN Bus</li> </ul>	<ul style="list-style-type: none"> <li>• Throttle Position</li> </ul>
<ul style="list-style-type: none"> <li>• Variable-speed cooling Fan</li> </ul>	<ul style="list-style-type: none"> <li>• Start/Charging Current</li> </ul>	<ul style="list-style-type: none"> <li>• Camshaft</li> </ul>	<ul style="list-style-type: none"> <li>• Carbon Canister Solenoid Valve</li> </ul>

## Standard Kit

2 x Passive probe	2/4 BNC-Banana cable	Power cord
2 x Alligator clips/pair	2 x Soft pin probe/pair	Power adapter
Battery (built-in)	2 x Multimeter pen	

The above battery applies to SATO/ATO series. For other models, the built-in battery is subject to the actual product. The above multimeter pen only applies to AHO1 series.

The 2-channel oscilloscope comes standard with 2 BNC-Banana cables, 1 pair of alligator clips, and 1 pair of Soft pin probes.  
The 4-channel oscilloscope comes standard with 4 BNC-Banana cables, 2 pairs of alligator clips, and 2 pairs of Soft pin probes.

## Master Kit

2 x Passive probe	2/4 BNC-Banana cable	Secondary ignition probe
2 x Alligator clips/pair	2 x Soft pin probe/pair	Multimeter probe
Power cord	Power adapter	Suitcase
Battery (built-in)	2 x Multimeter pen	

The above battery applies to SATO/ATO series. For other models, the built-in battery is subject to the actual product. The above multimeter pen only applies to AHO1 series.

# High Resolution Automotive Oscilloscope AHO1 Series

- ▶ Integrated 4½-digit multimeter function
- ▶ Built-in large Li-ion battery
- ▶ Support measurements for all vehicles
- ▶ Support multiple bus decoding
- ▶ Support HDMI direct connection to displays
- ▶ Double Selectable Software: Automotive and Standard Oscilloscope
- ▶ Support charging via USB Type-C
- ▶ Professional automotive diagnostic presets
- ▶ 8" TFT LCD anti-glare touch screen touch screen, 1280\*800 pixels
- ▶ Deep storage, standard segmented storage



## Key Specifications

Model	AHO14-200
Bandwidth	200MHz
Rise time	≤ 1.75ns
Analog channel	4
Real-time sampling rate	1GSa/s
Memory depth	110Mpts
Max. waveform capture rate	50000wfms/s
Vertical resolution	12bit
Interfaces	USB 3.0 Host, USB Type-C, LAN, HDMI
Display	8" TFT-LCD, 1280*800 pixel
Battery	3.7V, 16000mAh Li-ion
Support test	Charging/Start Circuits, Sensors, Actuators, Ignition, Networks (CAN L/H, CAN FD, LIN, Flexray, K line), Combination Tests
Charging	Standard DC 12V adapter, supports Type-C 5V charging
Multifunction Accuracy	4% Digits
Dimension / Net weight	265*174*31mm (Width x Height x Thickness) / 1.73kg

# Automotive Oscilloscope SATO/ATO Series

- ▶ Professional automotive diagnostic presets
- ▶ Support measurements for all vehicles
- ▶ Built-in 7500mAh large Li-ion battery
- ▶ Deep memory to display all signal details
- ▶ Compact portable design, ideal for automotive diagnostics
- ▶ Robust oscilloscope functions
- ▶ Support WIFI, USB, PC and SCPI control
- ▶ Comprehensive serial bus trigger & decoding

Handbag



Suitcase



8 inches

SATO Series ▶



10.1 inches

◀ ATO Series

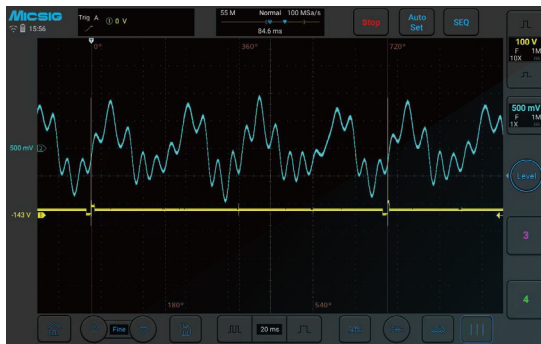


## Key Specifications

Model	SATO1004	SATO2002	ATO1004	ATO2002	ATO2004	ATO3004
Bandwidth	100MHz	200MHz	100MHz	200MHz	200MHz	300MHz
Analog channels	4	2	4	2	4	4
Real-time sampling rate	1GSa/s		1GSa/s		2GSa/s	
Memory depth	70Mpts		110Mpts		220Mpts	
Max. waveform capture rate	130,000wfms/s		78,000wfms/s		300,000 wfms/s	
Bandwidth filter	High Pass, Low Pass (to 30KHz)				High Pass, Low Pass (to 30Hz)	
Segmented storage	Not support				Support	
Vertical resolution	8bit					
Support test	Charging/Start Circuits, Sensors, Actuators, Ignition, Networks (CAN L/H, CAN FD, LIN, Flexray, K line), Combination Tests					
Interfaces	Wi-Fi, USB 3.0/2.0 Host, USB Type-C, HDMI, Trigger Out					
Display	8" TFT-LCD, 800*600 pixel			10.1" TFT-LCD, 1280*800 pixel		
Battery	7.4V, 7500mAh Li-ion					
Dimension / Net weight	265*192*50mm/1.9kg (with battery)					

# Automotive Oscilloscope VATO Series

- ▶ 200MHz bandwidth
- ▶ 50Mpts storage depth
- ▶ Supports CAN and LIN bus decoding
- ▶ Compatible with any Android device
- ▶ 1GSa/s sampling rate
- ▶ 4 channels
- ▶ Built-in battery for day-long use
- ▶ Automotive-diagnostic functions



Install and run the oscilloscope Apk on Android devices.  
(Download from official website)



## Key Specifications

Model	VATO2004
Bandwidth	200MHz
Analog channels	4
Rise time	≤ 1.8ns
Real-time sampling rate	1GSa/s
Memory depth	50Mpts
DC gain accuracy	≤ 2%
Input Impedance	1MΩ±1%    14pF
Vertical resolution	8bit
Power supply	DC 12V
Battery ( Optional )	7.4V, 7500mAh Lithium-ion battery
Dimension / Net weight	140*215*52mm/640g