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PRODUCT CATALOG

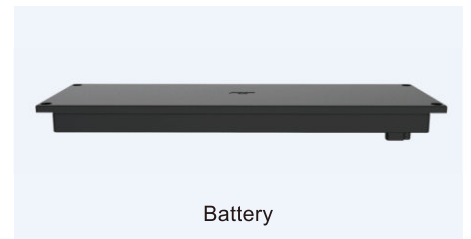# Smart Digital Oscilloscope

STO1000E Series

- Powerful Android system for faster response and smoother operation
- Real-time WiFi data transmission and HDMI display
- User-friendly soft keyboard makes convenient input
- 8-inch touch screen combines high-quality knobs,easy operation,powerful multifunction
- 7500mAh large lithium-ion battery,up to 5-hour continuous operation
- Support APP(iOS & Android) and Windows PC software remote control
- Built-in 8G storage capacity,support video recording
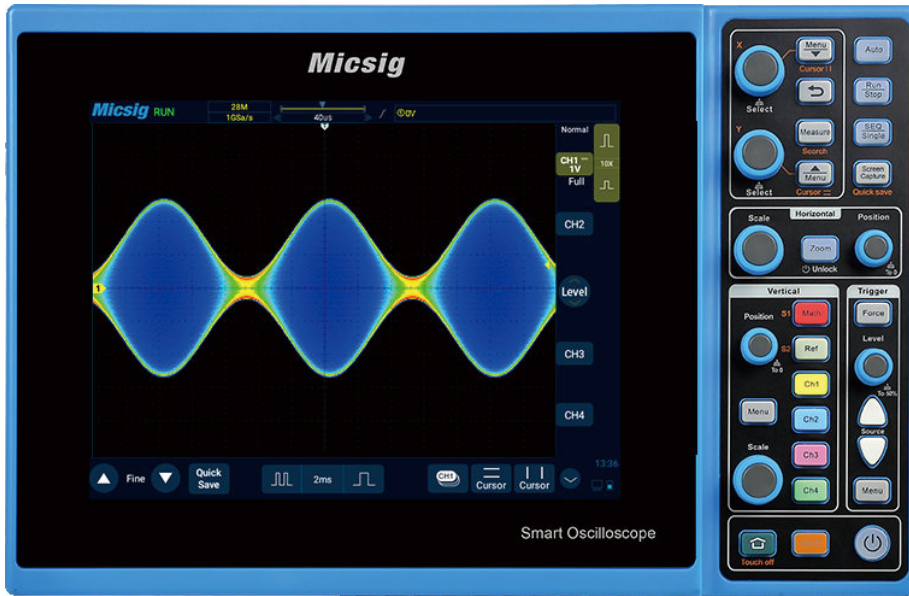- Level 256 grayscale and color temperature display

Dimension: 280*180*50mm
Weight: 4CH Oscilloscope 1425g   Battery 320g

Model	STO1102E	STO1104E	STO1152E
Analog channel	2	4	2
Bandwidth	100MHz	100MHz	150MHz
Rise time	≤3.5ns	≤3.5ns	≤2.3ns
Ram	2G		
Max capture rate	130,000wfm/s		
Sample rate	1GSa/S (single channel)		
Memory depth	70Mpts (single channel)		
Bandwidth limitation	20MHz, High pass,Low pass		
I/O Port	Wi-Fi、LAN、HDMI、USB Host、USB Device、DC Power、Aux out		
APP	Support Android / IOS		
Built-in storage capacity	8G		
Trigger types	Edge, Pulse Width, Logic, Video, Runt, Timeout, Nth Edge, Slope		
Display	8" Industry TFT LCD touchable capacitive screen, resolution: 800*600 pixels, 14*10 grids		
Automatic Measurements	Period, Frequency, Rise Time, Fall Time, Delay, Positive Duty Cycle, Negative Duty Cycle, Positive Pulse Width, Negative Pulse Width, Burst Width, Positive Overshoot, Negative Overshoot, Phase, Peak to Peak, Amplitude, High, Low, Max, Min, Mean, Cycle Mean, RMS, Cycle RMS.		
Math function	+, -, *, /, FFT		
Vertical resolution	8 bits		
DC gain accuracy	≤2%		
Vertical scale	1mV/div~10V/div		
Serial bus trigger and decode	UART、CAN、LIN、SPI、I2C、(1553B,429 are optional)		
Battery	7.4V 7500mAh, rechargeable lithium battery		

Battery

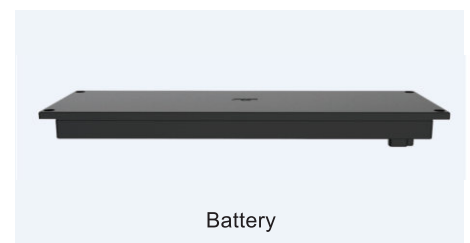# Smart Digital Oscilloscope

STO1000C Series

- Support APP (iOS and Android) and PC software to remote control oscilloscope
- Support Wi-Fi data real-time transmission and HDMI high-definition display
- Support video recording and built-in 8G storage capacity
- Support 256-level intensity grading and color temperature display
- Unique file management system, easy to save and transfer waveform data
- 8 inches full touch capacitive screen and high quality button and knobs make the operation more simple and smart

Dimension: 280*180*50mm
Weight: 4CH Oscilloscope 1425g   Battery 320g

Model	STO1102C	STO1104C	STO1152C
Analog channel	2	4	2
Bandwidth	100MHz	100MHz	150MHz
Rise time	≤3.5ns	≤3.5ns	≤2.3ns
Sample rate	1GSa/S(single channel)		
Max capture rate	80,000wfm/s		
Memory depth	28Mpts (single channel)		
Bandwidth limitation	20MHz,High pass,Low pass		
I/O Port	Wi-Fi、LAN、HDMI、USB Host、USB Device、DC Power、Aux out		
APP	Support Android / IOS		
Built-in storage capacity	8G		
Trigger types	Edge, Pulse Width, Logic, Video, Runt, Timeout, Nth Edge, Slope		
Display	8" Industry TFT LCD touchable capacitive screen, resolution: 800*600 pixels, 14*10 grids		
Automatic Measurements	Period, Frequency, Rise Time, Fall Time, Delay, Positive Duty Cycle, Negative Duty Cycle, Positive Pulse Width, Negative Pulse Width, Burst Width, Positive Overshoot, Negative Overshoot, Phase, Peak to Peak, Amplitude, High, Low, Max, Min, Mean, Cycle Mean, RMS, Cycle RMS.		
Math function	+, -, *, /, FFT		
Vertical resolution	8 bits		
DC gain accuracy	≤2%		
Vertical scale	1mV/div~10V/div		
Serial bus trigger and decode (Optional)	UART、CAN、LIN、SPI、I2C、1553B、429		
Battery (Optional)	7.4V 7500mAh, rechargeable lithium battery		

STO1000C plus version include battery,screen mask,carry strap.

Battery

Digital Tablet Oscilloscope tBook mini

TO1000 Series

- Innovative software design and high quality hardware

- Built in 8000mAH lithium battery, up to 5 hours continuous working time

- 8''TFT LCD & 800*600 pixels high resolution Multi-touch capacitive screen

- Support 5 kinds of bus trigger and decoding(optional): UART CAN SPI I2C LIN

- 8 types of trigger function: Edge, Pulse, Logic,Timeout, Runt, Slope, Nth Edge, and Video

- Built-in 8G storage capacity, waveforms and screenshots can be viewed and edited in scope, support Video record and file management.

- Various I/O port: LAN、Wi-Fi、USB Host、USB Device、HDMI、Aux out

- Support APP (iOS and Android)and PC software remote control

APPs(iOS and Android)
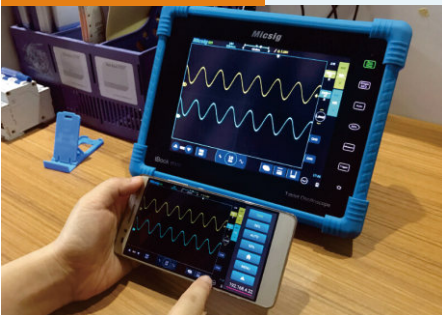
HDMI

Dimension: 250*200*55mm
Weight: 4CH Oscilloscope 1125g   Battery 263g

Model	TO1102	TO1104	TO1152
Bandwidth	100MHz	100MHz	150MHz
Rise time	≤3. 5ns	≤3. 5ns	≤2. 3ns
Input channel	2	4	2
Sample rate	1GSa/S (single channel)		
Memory depth	28Mpts (single channel)		
Max capture rate	130,000wfm/s		
Bandwidth Limit	20MHz, High pass,Low pass		
Interface	Wi-Fi、LAN、HDMI(Optional)、USB Host、USB Device、DC Power Aux out		
Screen	8 inches TFT LCD 800*600 pixels display resolution, 14*10 display range		
Battery(optional)	7.4V 8000 mAH, rechargeable lithium battery		
PC Software	PC software and APP (support iOS and Android) via Wi-Fi or USB		
Serial bus trigger and decode (Optional)	UART、CAN、LIN、SPI、I2C、1553B、429		
Cursor types	Horizontal, Vertical, Cross		
Automatic Measurements	Period, Frequency, Rise Time, Fall Time, Delay, Positive Duty Cycle, Negative Duty Cycle, Positive Pulse Width, Negative Pulse Width, Burst Width, Positive Overshoot, Negative Overshoot, Phase, Peak to Peak, Amplitude, High, Low, Max, Min, Mean, Cycle Mean, RMS, Cycle RMS.		
Vertical resolution	8 bits		
DC gain accuracy	≤2%		
Vertical scale	1mV/div~10V/div		

TO1000C plus version include battery,screen mask,carry strap.

Automotive Tablet Oscilloscope

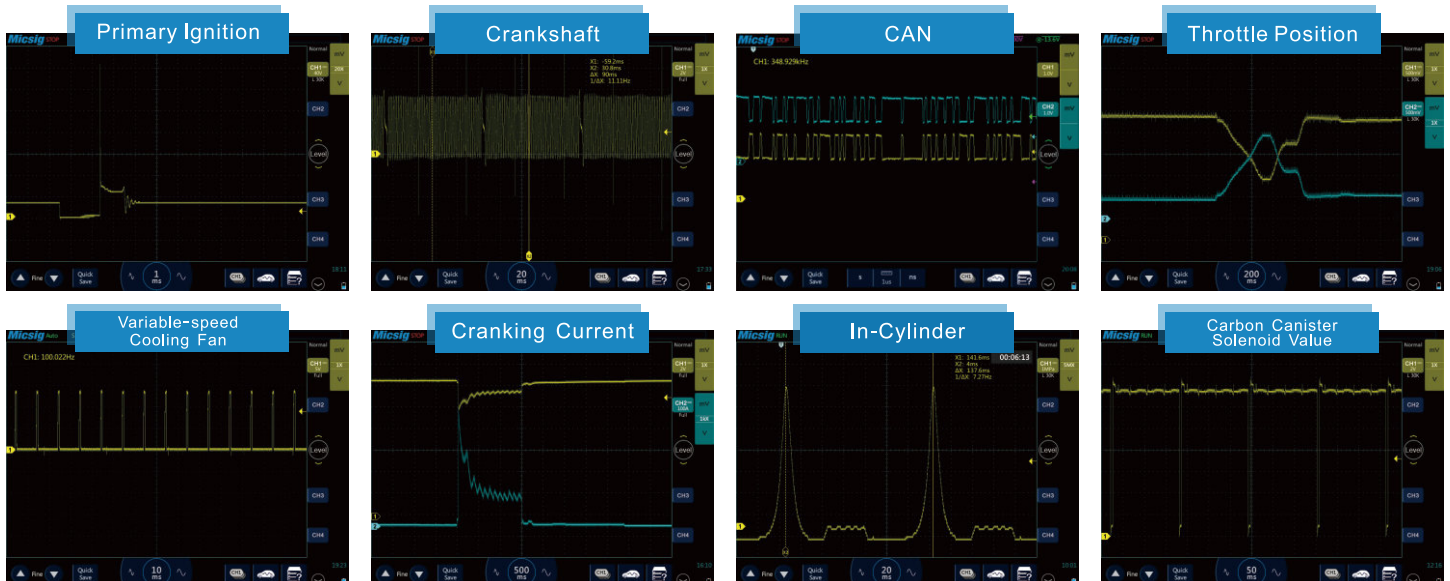## ATO1000 Series

- Various automotive diagnostic function：Ignition, sensor, actuators, networks, combination test and pressure test.
- Easy to use, convenient to operate in field, when battery included.
- Support APP to operate oscilloscope remotely.
- Support Wi-Fi to transfer waveform data.
- Internal 8G memory to save big waveform data.
- 8 inches full touch capacitive screen, 800*600 pixels.

Dimension: 250*200*55mm

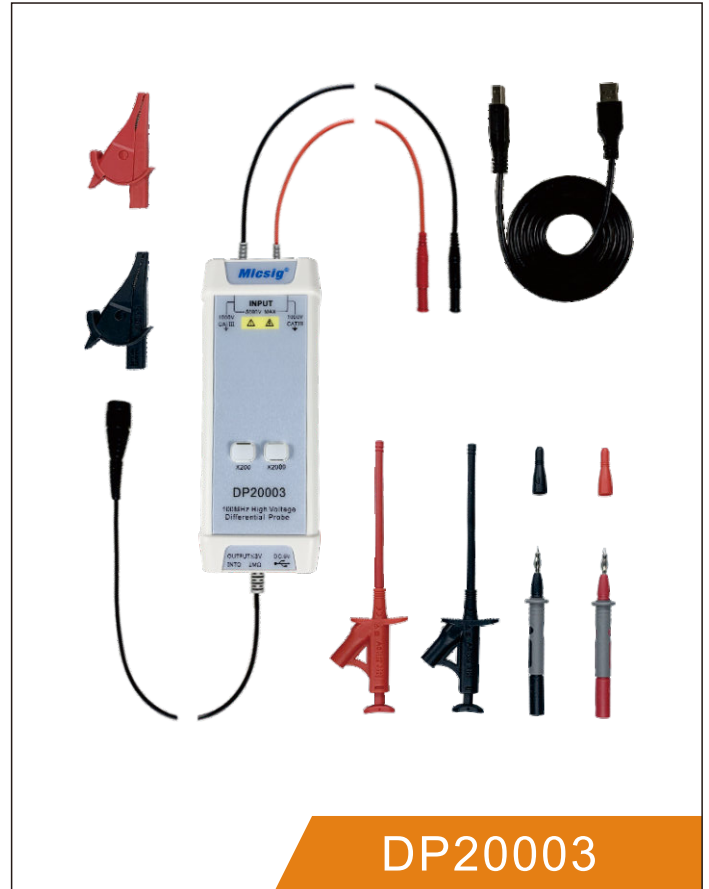| Model	ATO1102	ATO1104
Bandwidth	100MHz	100MHz
Channel	2	4
Real time sample rate	1G Sa/S （single channel）	1G Sa/S （single channel）
Memory depth	28Mpts (single channel)	28Mpts (single channel)
Support test	Charging circuit, starter circuit, sensor, actuator, ignition test, communication test (including CAN, LIN, Flexray, K, etc.), pressure test (cylinder pressure, intake and exhaust pressure, fuel pressure, etc.)	
Bandwidth limitation	Full bandwidth, low pass	
I/O port	Wi-Fi、LAN、HDMI、USB Host、USB Device、GND、DC Power	
Accessories	Lithium battery, power adapter, power cord, 2*BNC banana lines, 2*alligator clips, 2*Flexible needle,2*P130A probes	Lithium battery, power adapter, power cord, 4*BNC banana lines, 4*alligator clips, 4*Flexible needle, 4*P130A probes

Primary Ignition

Crankshaft

CAN

Throttle Position

Variable-speed Cooling Fan

Cranking Current

In-Cylinder

Carbon Canister Solenoid Value

High Voltage Differential Probes

DP Series

DP10013

DP20003

| Model	DP10007	DP10013	DP20003
Bandwidth	100MHz	100MHz	100MHz
Attenuation Rate	10X 100X	50X 500X	200X 2000X
Rise Time	3. 5ns	3. 5ns	3. 5ns
Accuracy	±2%	±2%	±2%
Input Impedance	8MΩ/1.25pF(differential) 4Ω/2.5pF(single-ended to ground)	10MΩ/1pF(differential) 5MΩ/2pF(single-ended to ground)	50MΩ/1.25pF(differential) 25MΩ/2.5pF(single-ended to ground)
Maximum Differential Test Voltage(DC + AC PK)	70V(10X) 700V(100X)	130V(50X) 1300V(500X)	560V(200X) 5600V(2000X)
Output Voltage	≤7V	≤3V	≤3V
Overrange Alarm	Button light flashes	Button light flashes	Button light flashes
Power Supply	DC 5V, USB Supply	DC 5V, USB Supply	DC 5V, USB Supply
Power	1.25W	0.85W	0.85W
Dimension	14.5cm*6cm*2.7cm	14.5cm*6cm*2.7cm	14.5cm*6cm*2.7cm
Input cable length	Approx 45cm	Approx 45cm	Approx 45cm
Output cable length	Approx 90cm	Approx 90cm	Approx 90cm

AC/DC
Current Probe

- Bandwidth up to 2MHz
- Two optional current measurement range: 10A/100A
- Reliable and exquisite design
- USB power supply, no need extra power adaptor
- Standard BNC interface for oscilloscopes or multimeter

Dimension: Control box 108*56*26mm

Probe head 11*6.1*2.5mm

Series	CP2100	
Model	CP2100A	CP2100B
Bandwidth	DC~800KHz	DC~2MHz
Rise time	≤437.5ns	≤140ns
Ranges	10A/100A	
Output sensitivity	0.1V/A（10A） 0.01V/A（100A）	
DC accuracy(typical)	3%±50mA（10A） 4%±50mA（100A，500mA~40Apk） 15%（100A，40Apk~100Apk）	
Signal delay	＜150ns（10A） ＜200ns（100A）	
Current measurement range	50mA~10Apk（10A） 1A~100Apk（100A）	
Maximum measurable Current	100Apk，70.7Arms（DC+ACpk） 200Apk-pk，70.7Arms（AC）	
Maximum working voltage	CAT III 300V CAT II 600V	
Maximum float voltage	CAT III 300V CAT II 600V	
Maximum conductor Diameter	13mm	
Overload indication	buzzer beeps, button light flashes	
Power supply	DC 5V	
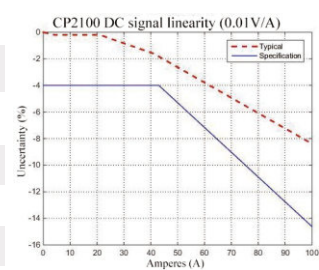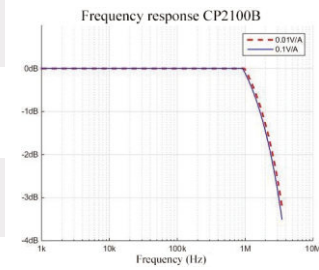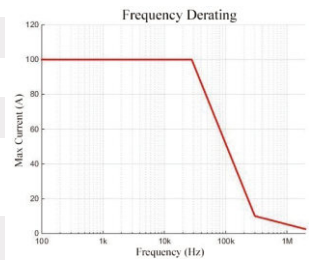
Coil-on-Plug (COP) and Signal Probe

SA204

- Attenuation 5000:1
- Directly connect to spark plug
- BNC port applicable for any oscilloscope
- Find misfires fast for automotive diagnostic
- Compatible with all automotive scope, able to display ignition waveform
- Flexible design, super easy to access hard-to-reach components
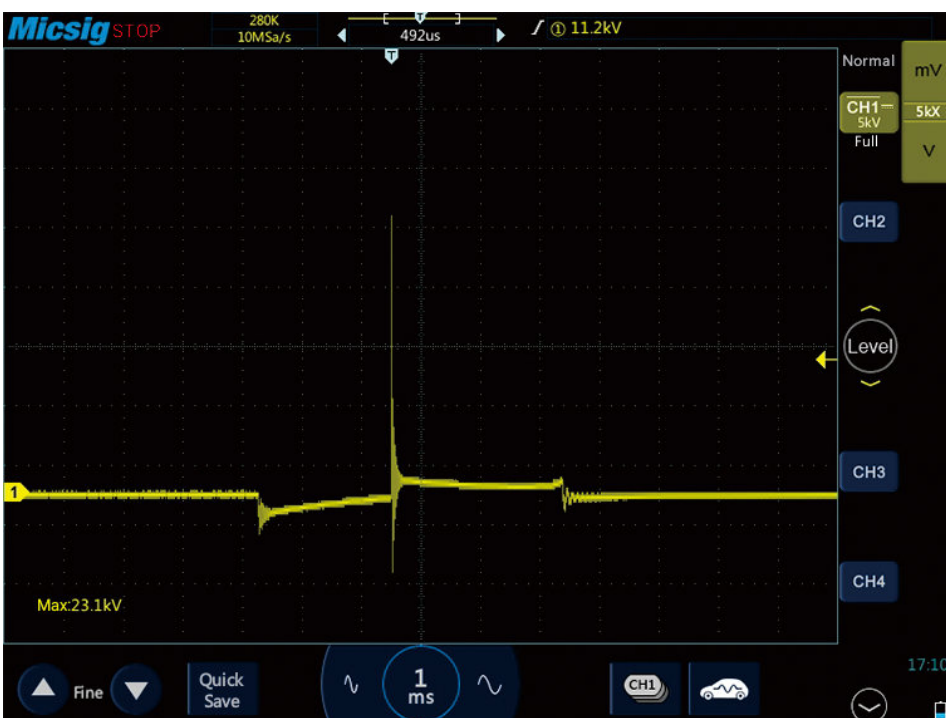- Can also be used to investigate injectors & other inductive actuators
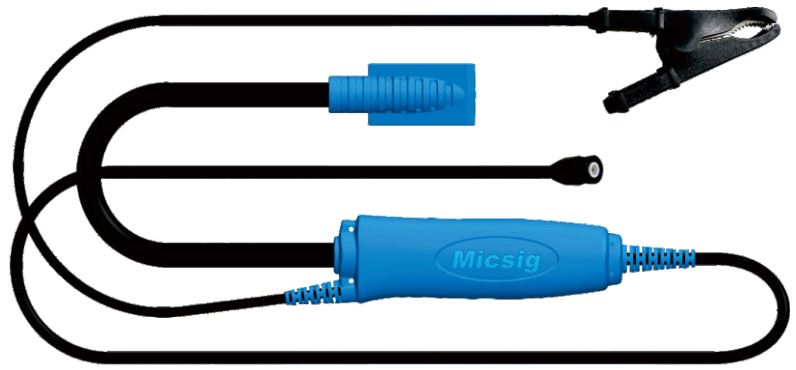
Net weight:240g

Accessories

	Ignition Probe (standard)	1		Double Ended BNC Connector (gift)	1
	Special Carry bag (standard)	1		Extended Cable (1.5m) (gift)	1

Appilcation

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Accessories

Model:MS_A_001
Test leads

Model:MS_A_001_4
BNC to BNC cable

Model:T3100
High Voltage passive probe

Model:P130A
Passive probe

Model:MS_A_003
Insulation test needle
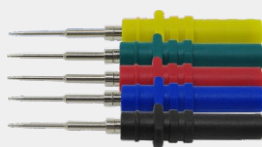
Model:MS_A_004
Pincer clips

Model:MS_A_005
Multimeter probes

Model:MS_A_006
Insulated alligator clips

Model:MS_A_007
Non-destructive piercing needle

Model:MS_A_008
Secondary ignition pickup

Model:MS_A_009
Flexible piercing needle

Model:MS_A_010
Multimeter pen

Model:MS_A_011
Fine copper test alligator clips

Model:MS_A_012
Quick piercing test hook needle

Model:MS_A_013
HDMI cable

Model:Adapator
Delta power adapter

Model:MS_handbag
Oscilloscope handbag

Model:MS_belt
Carry Strap

Model:MS_mask
Screen protector film

Model:ACP1000
AC current probe

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