

A circular graphic with a blue-to-white gradient background. The word "PRODUCT" is written in white, uppercase letters above a horizontal white line, and the word "CATALOG" is written in white, uppercase letters below the line.

PRODUCT CATALOG

Tablet Oscilloscope Creator Optical-isolated Probe Leader

- High Resolution Oscilloscope
- Digital Storage Oscilloscope
- Tablet Oscilloscope
- Automotive Oscilloscope
- Android Oscilloscope
- SigOFIT Optical-fiber Isolated Probe
- High Voltage Differential Probe
- Rogowski AC Current Probe
- High Frequency AC/DC Current Probe
- Low Frequency AC/DC Current Probe
- AC Current Probe



8CH High Resolution Oscilloscope MHO 6 Series 16 inches **NEW** **P03-P04**

- 350MHz-1GHz Bandwidth
- 6GSa/s Sampling Rate
- 8CH Analog Channels
- 1800Mpts Memory Depth
- 230,000wfms/s Max. waveform capture rate
- 3.52cm ultra-thin design
- save desktop space
- 12bit vertical resolution
- 12bit ADC



High Resolution Oscilloscope MHO 3 Series 14 inches **HOT** **P05-P07**

- 250MHz-500MHz Bandwidth
- 3GSa/s Sampling Rate
- 4CH Analog Channels
- 360Mpts Memory Depth
- 230,000wfms/s Max. waveform capture rate
- 3.58cm ultra-thin design
- save desktop space
- 12bit vertical resolution
- 12bit ADC



Digital Storage Oscilloscope MDO Series 14 inches **P08**

- 250MHz-500MHz Bandwidth
- 3GSa/s Sampling Rate
- 4CH Analog Channels
- 360Mpts Memory Depth
- 230,000wfms/s Max. waveform capture rate
- 3.58cm ultra-thin design
- save desktop space
- supports hanging



Tablet Oscilloscope ETO Series 14 inches **P09-P10**

- 350MHz-500MHz Bandwidth
- 3GSa/s Sampling Rate
- 4CH Analog Channels
- 360Mpts Memory Depth
- 230,000wfms/s Max. waveform capture rate
- 13500mAh built-in lithium battery
- save desktop space
- supports hanging
- SCPI/APP/remote control supports remote control operation



Tablet Oscilloscope TO Series 10.1 inches **P11**

- 100MHz-300MHz Bandwidth
- 1GSa/s-2GSa/s Sampling Rate
- 2/4CH Analog Channels
- 220Mpts Memory Depth
- 78,000-300,000wfms/s Max. waveform capture rate
- 7500mAh built-in lithium battery
- SCPI/APP/remote control supports remote control operation



Tablet Oscilloscope STO Series 8 inches **P12**

- 100MHz-200MHz Bandwidth
- 1GSa/s Sampling Rate
- 2/4CH Analog Channels
- 70Mpts Memory Depth
- 130,000wfms/s Max. waveform capture rate
- 5+ hours battery life built-in lithium battery
- SCPI/APP supports remote control operation



Automotive Oscilloscope ATO Series 10.1 inches **P13-P14**

- 100MHz-300MHz Bandwidth
- 1GSa/s-2GSa/s Sampling Rate
- 2/4CH Analog Channels
- 220Mpts Memory Depth
- 78,000-300,000wfms/s Max. waveform capture rate
- 7500mAh built-in lithium battery
- integrated car diagnostic pro features dedicated to car maintenance



Automotive Oscilloscope SATO Series 8 inches **P13-P14**

- 100MHz-200MHz Bandwidth
- 1GSa/s Sampling Rate
- 2/4CH Analog Channels
- 70Mpts Memory Depth
- 130,000wfms/s Max. waveform capture rate
- 5+ hours battery life built-in lithium battery
- integrated car diagnostic pro features dedicated to car maintenance



Android (USB) Oscilloscope VTO / VATO Series **P15**

- 200MHz Bandwidth
- 1GSa/s Sampling Rate
- 4CH Analog Channels
- 50Mpts Memory Depth
- tiny slim body design
- 7500mAh built-in lithium battery
- direct-connect with Android economical and portable



SigOFIT Optical-fiber Isolated Probe

Best seller

P16-P18

- 100MHz-1GHz
Bandwidth
- ±6250V
Differential Voltage Range
- 1%
DC Gain accuracy
- Up to 180dB
CMRR
- 85kVpk
Common mode voltage range
- 0dB/20dB
Dual range switching
- rapid self-calibration
instant access
- multiple attenuators available
full-scale output
- BNC interface
universal interface



High Voltage Differential Probe DP Series

HOT

P19-P20

- 100MHz-500MHz
Bandwidth
- Up to 7000Vpk
Differential Voltage Range
- 2%
Accuracy
- DC: >80dB
CMRR
- Provide Optimal Range Selection
Common mode voltage range
- rapid self-calibration
instant access
- Audio-Visual Alert
Overvoltage Alarm
- BNC interface
universal interface



Rogowski AC Current Probe RCP Series

P21-P22

- Up to 30MHz
Bandwidth
- 6000Apk
Maximum Measurable Current
- 2%
Typical Accuracy
- 1.6mm
coil cross-sectional diameter
- < 5mVpp
Output Noise
- 25mm
Rogowski coil inner diameter
- AC 1kVrms(1 minute)
withstand voltage
- BNC interface
universal interface



High Frequency AC / DC Current Probe CP Series

P23

- 50MHz/100MHz
Bandwidth
- 5A/30A
Dual Range Design
- 1%
Accuracy
- 5mm
jaw diameter
- <4mApp(5A)
Output Noise
- Up to 1mA
Resolution
- One-Click Completion
Quick Demagnetization and Zeroing
- BNC interface
universal interface



Low Frequency AC / DC Current Probe CP2100 Series

P24

- 300kHz/800kHz/
2.5MHz
Bandwidth
- 10A/100A
Dual Range Design
- Manual/Automatic
Zeroing Method
- 13mm
Maximum Conductor Diameter
- tiny
Convenient for Testing
Compact and Exquisite
- BNC interface
universal interface



AC Current Probe ACP1000

P25

- 10Hz-100kHz
Bandwidth
- 10A/100A/1000A
Three-Range Design
- 1%
Highest Precision
- 52mm
Jaw Diameter
- 2000A(2 seconds)
Maximum Primary Current
- BNC interface
universal interface

8CH High Resolution Oscilloscope MHO 6 Series

The MHO high-resolution oscilloscope 6 series, with up to 1GHz bandwidth, 6GSa/s real-time sampling rate, 8 analog channels, 1800Mpts of memory depth, and 12-bit vertical resolution. Its high bandwidth and 8-channel capability are suitable for high-speed circuit analysis and synchronized testing of multiple signals. With a 3.52cm ultra-thin design, it saves valuable desktop space. The 16-inch touch screen with a 1920*1200 resolution offers a crisp waveform display for a comfortable visual experience.



12 bit

Vertical Resolution



350MHz-1GHz
Bandwidth



6GSa/s
Sampling Rate



8CH
Channel



1800Mpts

Memory Depth



16-inch 2K HD

HD Large Display



3.52cm

Ultra-Thin



save desktop space
supports hanging



Key Performance Indicators

- ▶ 12-bit vertical resolution
- ▶ 8 analog channels
- ▶ 3.52cm Ultra-Thin Design
- ▶ Simultaneous data saving on multi-channel
- ▶ High / Low pass bandwidth filtering
- ▶ Segmented storage function
- ▶ Advanced math and FFT function
- ▶ Standard decodes: RS-232/422/485/UART, CAN, CAN FD, LIN, SPI, I²C, ARINC-429, MIL-STD-1553B
- ▶ 350MHz, 500MHz or 1GHz options available
- ▶ 6GSa/s sampling rate, 1800Mpts memory depth
- ▶ 16-inch 2K High-Definition Touch Screen Display
- ▶ Ultra-friendly UI, learn to use in 5 minutes
- ▶ Mic-OPI™ patented probe interface, automatic probe calibration
- ▶ Mobile APP, PC remote control, SCPI commands
- ▶ 256G internal storage to save large data

Features



8 analog channels

- Can observe 8 signals simultaneously
- Effortlessly handles complex system timing analysis



1GHz bandwidth

- Quickly captures high-speed signals
- Easily meets the testing challenges of the most advanced devices



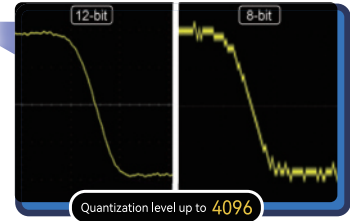
3.52cm ultra-thin body

- Supports hanging, portable and aesthetically pleasing
- Significantly saves desktop space



12-bit high resolution

- 4096-level quantization
- More clearly observe waveform details



16-inch high-definition touch screen

- Resolution up to 1920*1200
- Provides a delicate and clear visual experience



3 interaction modes

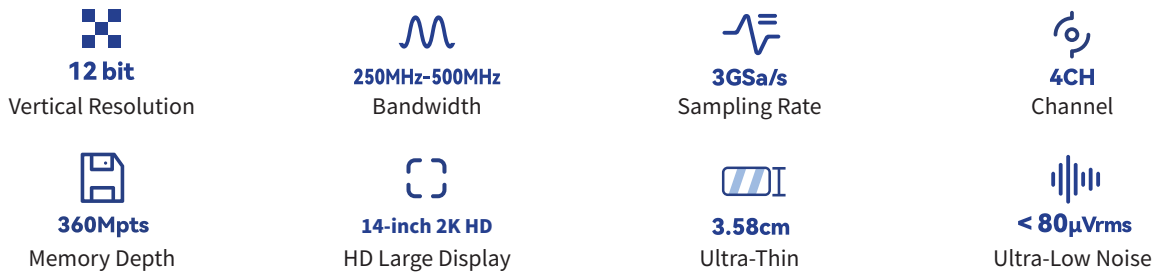
- Supports touch operation, button knob operation, and hybrid operation
- Quick operations simplify complex tasks

Key Specifications

Model	MHO68-1000	MHO68-500	MHO68-350
Bandwidth	1GHz	500MHz	350MHz
Rise time	≤ 0.35ns	≤ 0.7ns	≤ 1ns
Analog channels	8CH		
Sampling rate	6GSa/s		
Memory depth	1800Mpts		
Vertical resolution	12bit		
Trigger types	Edge, Pulse Width, Logic, N Edge, Runt Pulse (Runt), Slope, Time Out, Video, Serial		
Bus decoding	RS-232/422/485/UART, CAN, CAN FD, LIN, SPI, I ² C, ARINC429, 1553B		
Interfaces	USB 3.0 Host, USB type-C, LAN, HDMI, Trigger out		
Display	16" TFT LCD touch screen, 1920*1200 resolution		
Dimension / Net weight	440*307*35.2mm / 5.7kg		

High Resolution Oscilloscope MHO 3 Series

The MHO 3 series of high-resolution oscilloscopes has revolutionized the design of traditional benchtop oscilloscopes, with a body thickness of only 3.58 cm, support for suspension, a 14-inch anti-glare touch screen, and a resolution of 1920*1200. It features a hybrid operation mode of full touch control and knob buttons, equipped with the exclusive SigtestUI professional system for test instruments, bringing you an unparalleled oscilloscope experience. The MHO 3 series boasts a 12-bit vertical resolution, a maximum bandwidth of 500MHz, a real-time sampling rate of 3GSa/s, 4 analog channels, a storage depth of 360Mpts, and a waveform capture rate of 230,000 waveforms per second. It has a rich interface including HDMI, USB, supports Wi-Fi, mobile APP, PC software, and SCPI control, comes standard with decoding for 8 serial bus protocols, FFT data analysis, and a full set of measurement and statistical functions. Its powerful performance easily handles various circuit development and debugging analysis tasks.

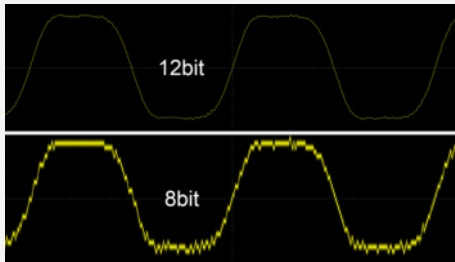


Key Performance Indicators

- ▶ 12-bit vertical resolution
- ▶ 3GSa/s sampling rate, 360Mpts memory depth
- ▶ 3.58cm Ultra-Thin Design
- ▶ Simultaneous data saving on multi-channel
- ▶ High / Low pass bandwidth filtering
- ▶ 230,000 wfms/s waveform capture rate
- ▶ Segmented storage function
- ▶ Advanced math and FFT function
- ▶ 250MHz, 350MHz or 500MHz options available
- ▶ 4 analog channels, base noise < 80µVrms
- ▶ 14-inch 2K High-Definition Touch Screen Display
- ▶ Ultra-friendly UI, learn to use in 5 minutes
- ▶ Mic-OPI™ patented probe interface, automatic probe calibration
- ▶ Mobile APP, PC remote control, SCPI commands
- ▶ 32G internal storage to save large data
- ▶ Standard decodes: RS-232/422/485/UART, CAN, CAN FD, LIN, SPI, I²C, ARINC-429, MIL-STD-1553B

Features

12-bit vertical resolution



► 12-bit hi-re ADC with a quantization level of up to 4096, 16 times that of traditional 8-bit, presents unmatched waveform details.

Remote control



► Support PC and smartphone remote control, also have HDMI port for demonstration purpose. Support SCPI programming commands control, helping engineers achieve automated measurements more flexibly and efficiently.

Wall / Arm mounting



► 130 mm x 300 mm wall mount interface, convenient wall / arm mounting, flexible and space-saving on the desktop.

Various connections



► USB 3.0 Host, USB Type-C, LAN, Grounding, HDMI, Trigger out, etc.

Mic-OPI™ probe interface

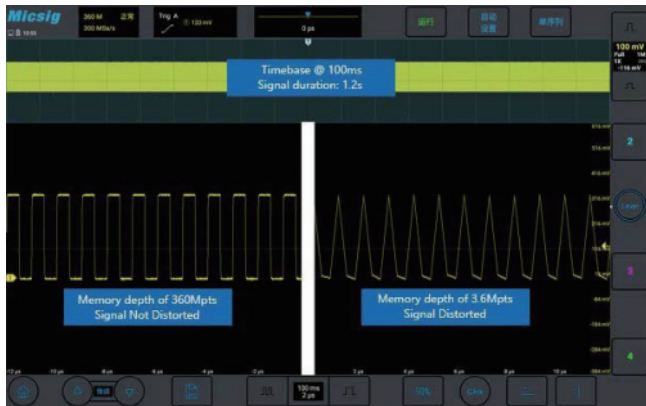


► Mic-OPI™ interface performs automatic probe compensation and calibration, standard BNC adapters help to connect with all BNC probes.

Key Specifications

Model	MHO3-5004	MHO3-3504	MHO3-2504
Bandwidth	500MHz	350MHz	250MHz
Rise time	≤ 0.7ns	≤ 1ns	≤ 1.4ns
Analog channels	4CH		
Sampling rate	3GSa/s		
Memory depth	360Mpts		
Waveform capture rate	230,000 wfms/s		
Noise	< 80μVrms		
Vertical resolution	12bit		
Trigger types	Edge, Pulse Width, Logic, N Edge, Runt Pulse (Runt), Slope, Time Out, Video, Seria		
Bus decoding	RS-232/422/485/UART, CAN, CAN FD, LIN, SPI, I ² C, ARINC429, 1553B		
Interfaces	USB 3.0 Host, USB type-C, LAN, HDMI, Trigger out		
Display	14" TFT LCD touch screen, 1920*1200 resolution		
Dimension / Net weight	400*280*35.8mm / 4.3kg		

Functions



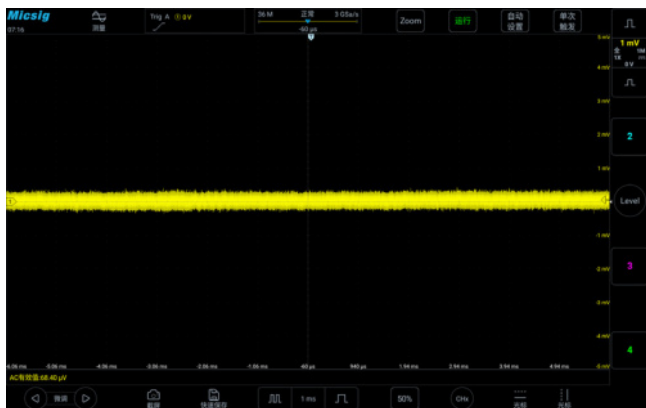
Deep memory

Insufficient memory depth often leads to distortion when long time-base signals were expanded. With memory depth of up to 360Mpts, there is no reduction in performance even with two channels opened at the same time. The signals will still maintain excellent fidelity even at long period of time.



Segmented storage acquisition

The segmented storage function divides the limited storage space into multiple small segments and collects multiple trigger events into one storage space and allow to play back captured signals, effectively captures target signals multiple times over a long period of time.



Low noise floor

Even at its full bandwidth of 500M, the noise floor of the MHO 3 series still less than 80µVrms, allow engineers accurately capture weak but important signals during daily circuit debugging and signal analysis.



■ Full bandwidth ■ High pass ■ Low pass

Hardware digital filtering

Digital filtering can selectively allow or block signal components within specific frequency ranges.



Statistics Measurement

Simultaneously calculate the average, maximum, minimum, and root mean square of 10 measurement items, with a max count of up to 10,000, every waveform data is accurately recorded, provide more accurate and comprehensive readings.



Serial bus decoding and analysis

Support 8 serial bus decodes: RS-232/422/485/ UART, CAN, LIN, CAN FD, SPI, I2C, ARINC-429, 1553B. With the TXT decoding text mode, the data can be transferred to CSV format.

Digital Storage Oscilloscope MDO Series

- ▶ Simultaneous data saving on multi-channel
- ▶ High / Low pass bandwidth filtering
- ▶ Standard segmented storage function
- ▶ Advanced math and FFT function
- ▶ Ultra-friendly UI, get to use in 5 minutes
- ▶ Mic-OPI™ probe interface, automatic probe calibration
- ▶ Mobile APP, PC remote control, SCPI commands
- ▶ 32G internal storage to save big data
- ▶ Standard decodes: RS-232/422/485/UART, CAN, CAN FD,LIN,SPI, I²C, ARINC-429, MIL-STD-1553B



Model	MDO5004	MDO3504	MDO2504
Bandwidth	500MHz	350MHz	250MHz
Rise time	≤ 0.7ns	≤ 1ns	≤ 1.4ns
Analog channels		4CH	
Sampling rate		3GSa/s	
Memory depth		360Mpts	
Waveform capture rate		230,000 wfms/s	
Vertical resolution		8bit	
Noise		< 90μVrms	
Interfaces		USB 3.0 Host, USB type-C, LAN, HDMI, Trigger out	
Display		14" TFT LCD touch screen, 1920*1200 resolution	
Bus decoding (std.)		400*280*35.8mm / 4.3kg	

Tablet Oscilloscope ETO Series

The ETO series of flat oscilloscopes is a high-end, professional, portable oscilloscope designed for both laboratory and field testing needs. Equipped with a large 13500mAh battery, it meets the dual requirements of portability and endurance. With a standard VESA interface for easy wall mounting, a 14-inch full-touchscreen with a 1920*1200 resolution, and the exclusive SigtestUI professional testing instrument system, the ETO series provides an immersive oscilloscope operation experience. It features up to 500MHz bandwidth, 3GSa/s real-time sampling rate, 360Mpts memory depth, and a waveform capture rate of 230,000 waveforms per second. It has a rich set of interfaces including HDMI and USB, supports Wi-Fi, and is compatible with mobile APP, PC software, and SCPI control. A standard remote control is included for convenient remote operation. It comes with decoding for 8 types of serial bus protocols, FFT data analysis, and comprehensive measurement and statistical functions, making it suitable for most measurement needs of electronic engineers.



350MHz-500MHz
Bandwidth



3GSa/s
Sampling Rate



4CH
Channel



360Mpts
Memory Depth



14-inch touch screen
HD large screen



7.4V/13500mAh
Large-capacity lithium battery



Remote control support
Wireless controller



Up to 10,000 segments
Segmented storage



Key Performance Indicators

- ▶ 4 analog channels
- ▶ 360Mpts memory depth
- ▶ 13500mAh Li-ion battery
- ▶ Intuitive user interface
- ▶ Support wireless remote control
- ▶ High pass, Low pass bandwidth filter
- ▶ Segmented storage function (10,000 events)
- ▶ Advanced math and FFT functions
- ▶ 350MHz or 500MHz options available
- ▶ 3GSa/s sampling rate
- ▶ 14" touch screen, 1920 x 1200 resolution
- ▶ Built-in large battery, easy for lab and field using
- ▶ Mic-OPI™ probe interface, auto probe compensation
- ▶ Support mobile, PC remote control and SCPI commands
- ▶ 32G internal storage to store big data
- ▶ Standard RS-232/422/485/UART, CAN, CAN FD, LIN, SPI, I2C, and ARINC-429, MIL-STD-1553B serial decode

Features

Large battery



- ▶ Built-in large-capacity battery, perfect to use in the field. Special power lock design prevents accidental startup.

Remote control



- ▶ Support remote control via PC, mobile app, and HDMI screen projection. Support SCPI programming commands, helping engineers to conduct tests more flexibly and efficiently.

VESA mounting



- ▶ 75mm x 75mm standard VESA connector compatible with various wall mounts.

Various interfaces



- ▶ Power button, ground plug, probe calibration output, USB 3.0/2.0, HDMI, USB-C, charging port, power lock.

Mic-OPI™ probe interface



- ▶ Mic-OPI™ interface performs automatic probe compensation and calibration, standard BNC adapters help to connect with all BNC probes.

Key Specifications

Model	ETO5004	ETO3504
Model	500MHz	350MHz
Analog channels	4CH	
Sampling rate	3GSa/s	
Memory depth	360Mpts	
Waveform capture rate	230,000 wfms/s	
Noise	< 90µVrms	
Vertical resolution	8bit	
Trigger types	Edge, Pulse Width, Logic, Nth Edge, Runt, Slope, Time Out, Video, Serial	
Bus decoding	RS-232/422/485/UART, CAN, CAN FD, LIN, SPI, I ² C, ARINC429, 1553B	
Interfaces	USB 3.0/2.0 Host, USB type-C, Ground, HDMI, Trigger out	
Display	14" integrated TFT LCD screen, 1920*1200 resolution	
Battery	7.4V/13500mAh Li-ion Battery	
Dimensions / Net weight	353*245*56mm/3.6kg (with battery)	

Tablet Oscilloscope TO Series

- ▶ 100MHz to 300MHz bandwidth
- ▶ 1GSa/s to 2GSa/s sampling rate
- ▶ 110Mpts to 220Mpts memory depth
- ▶ 10.1" Integrated Touchscreen
- ▶ 7500mAh Li-ion Battery
- ▶ 2/4 Analog Channels



Model	TO3004	TO2004	TO2002	TO1004
Bandwidth	300MHz	200MHz	200MHz	100MHz
Rise time	≤ 1.16ns	≤ 1.75ns	≤ 1.75ns	≤ 3.5ns
Analog channels	4	4	2	4
Max. Sampling rate	2GSa/s		1GSa/s	
Max. Memory depth	220Mpts		110Mpts	
Max. waveform capture rate	300,000 wfms/s		78,000 wfms/s	
Vertical resolution	8bit			
Interfaces	Wi-Fi, USB 3.0/2.0 Hos, USB Type-C, HDMI, Trigger out			
Data storage	32G			
Display	10.1 Inch LCD capacitive touch display, 1280*800 resolution, 11*10 grids			
Size/Net weight	265*192*50mm / 1.9kg(with battery)			
Battery	7.4V, 7500mAh Li-Ion			

Tablet Oscilloscope STO Series

- ▶ 2/4 Analog Channels
- ▶ 70Mpts Memory Depth
- ▶ 7500mAH Li-ion Battery
- ▶ 100~200MHz Bandwidth
- ▶ 1 GSa/s Sampling Rate
- ▶ 8" Capacitive Touchscreen



Handbag set

HOT



Suitcase set

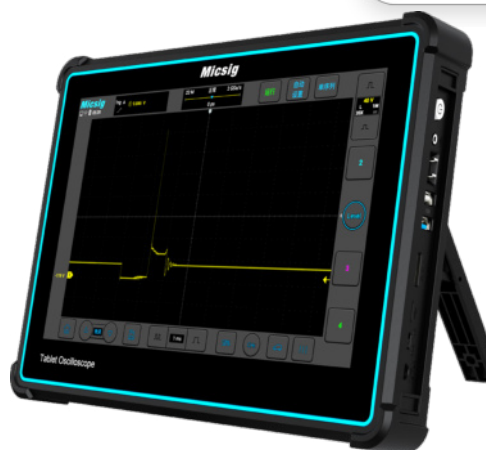
HOT



Model	STO1004	STO2002
Bandwidth	100MHz	200MHz
Analog Channels	≤ 3.5ns	≤ 1.75ns
Rise time	4	2
Sampling Rate (Max.)	1GSa/s	
Memory Depth	70Mpts	
Waveform Capture Rate (Max.)	130,000 wfms/s	
Vertical resolution	8bit	
Bandwidth Filter	20MHz, High Pass, Low Pass (to 30KHz)	
Interfaces	Wi-Fi, USB 3.0/2.0 Hos, USB Type-C, HDMI, Trigger out	
Display	Industrial 8" TFT-LCD (800*600), 14*10 divisions	
Dimension / Net Weight	265*192*50mm / 1.9kg (with battery)	
Battery	7.4V, 7500mAh, Li-ion	

Automotive Oscilloscope SATO / ATO Series

- ▶ Professional automotive diagnostic presets
- ▶ Support measurements for all vehicles
- ▶ Built-in 7500mAh large Li-ion battery
- ▶ Compact portable design, best for field work
- ▶ Robust oscilloscope functions



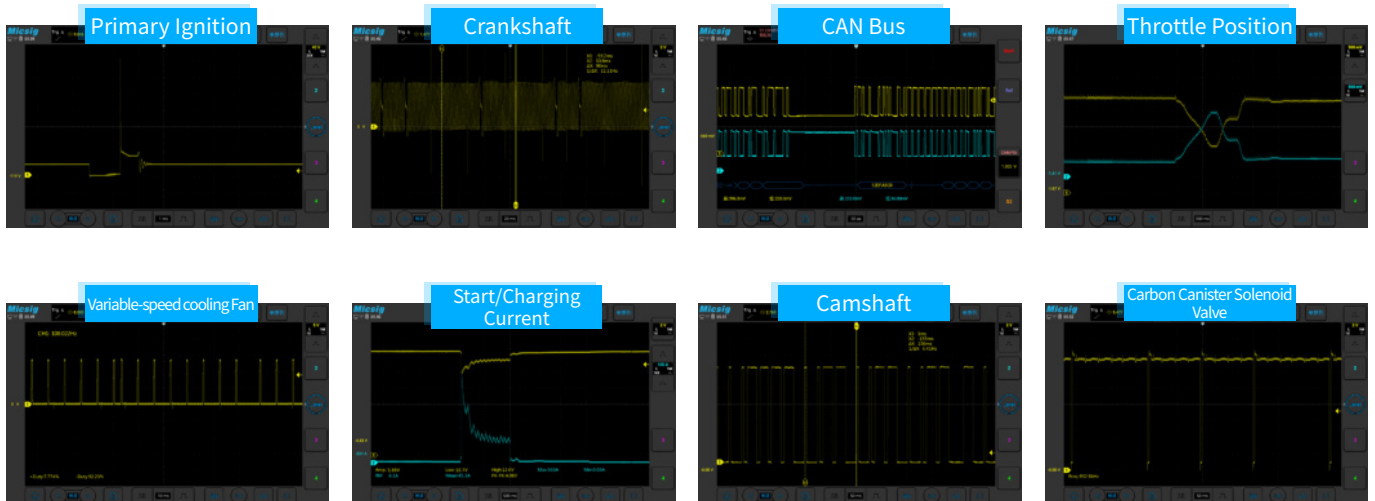
Model	SATO1004	SATO2002	ATO1004	ATO2002	ATO2004	ATO3004
Bandwidth	100MHz	200MHz	100MHz	200MHz	200MHz	300MHz
Analog Channels	4	2	4	2	4	4
Sampling Rate	1GSa/s		1GSa/s		2GSa/s	
Memory Depth	70Mpts		110Mpts		220Mpts	
Waveform Capture Rate (Max.)	130,000 wfms/s		78,000 wfms/s		300,000 wfms/s	
Bandwidth Filter	High Pass, Low Pass (to 30KHz)				High Pass, Low Pass (to 30Hz)	
Segmented storage	Not support				Support	
Vertical resolution	8bit					
Support tests	Charging Circuits, Starter Circuits, Sensors, Actuators, Ignition, Networks (CAN, CAN FD, LIN, Flexray, K line), Combination test, Pressure test (ATO series only)					
Interfaces	Wi-Fi, USB 3.0/2.0 Host, USB type-C, Grounding, HDMI, Trigger out					
Display	8" TFT-LCD, 800*600 pixel			10.1" TFT-LCD, 1280*800 pixel		
Dimension / Net Weight	265*192*50mm / 1.9kg (with battery)					
Battery	7.4V, 7500mAh Li-ion					

Features

- Comprehensive auto diagnostic presets
- Powerful signal capture and analysis capability
- Various sensors / Actuators / CAN / LIN / Flexray / Ignitions
- Convenient storage: waveform/save pictures / video recording
- Portable design with all-in-one functions
- The battery life can reach up to 5 hours (depending on the power consumption of different models and the existence of battery wear and tear).
- HDMI function for training & education
- Life-long free software online update



References



Standard Kit



Master Kit



Android Oscilloscope VTO Series

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 – VATO



*The VATO series adds automotive diagnostic accessories to the VTO oscilloscope, including 4 alligator clips, 4 probes, 4 BNC to banana plug cables, and an automotive diagnostic software package.

Model	VTO2004	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		7.4V, 7500mAh Lithium-ion battery
Dimensions		140*215*52mm
Net Weight		640g
Software package	General-purpose oscilloscope	Automotive Oscilloscope

SigOFIT™ Optical-fiber Isolated Probe

Power-Over-Fiber Complete Isolation

No battery, powered by mains, enabling uninterrupted testing for 365 days

Best probe for SiC and GaN test

Based on Micsig's exclusive SigOFIT™ technology, the SigOFIT probe is powered by laser, delivers extremely high CMRR and isolation voltage, unveils the whole truth of the signal within bandwidth. In addition, the SigOFIT optically isolated probe utilizes advanced laser power supply technology, perfectly solving the problem of isolated power supply.

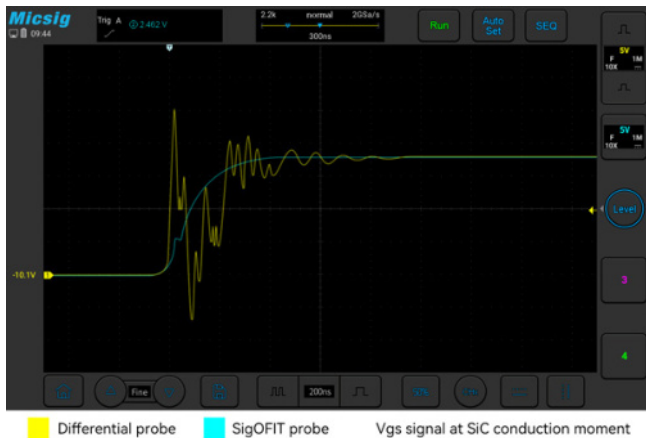
Applications

When there is doubt about the accuracy and authenticity of the measurements taken by other voltage probes, the SigOFIT optically isolated probe can serve as the ultimate reference for arbitration.

- Power supply assessment and EMI/ESD troubleshooting
- Motor and power supply design
- GaN, SiC, IGBT device design and analysis
- High-voltage, high-bandwidth safety isolation testing
- Inverter, UPS, and SMPS testing
- Wide-range voltage and bandwidth testing
- Floating ground testing



Product Features



Highest Accuracy

- SigOFIT probe has excellent amplitude-frequency characteristics. DC gain accuracy $\leq 1\%$, while noise $\leq 0.45\text{mVrms}$. Zero drift $<0.1\%$ (works 5 mins later), gain drift also $<1\%$.



20X/50X/100X/200X/1000X/2000X/5000X/10000X

Compact & Simple

- Smaller size than traditional differential probes, more accurate probe tips, makes it much easier and flexible to use.

Efficient & Affordable

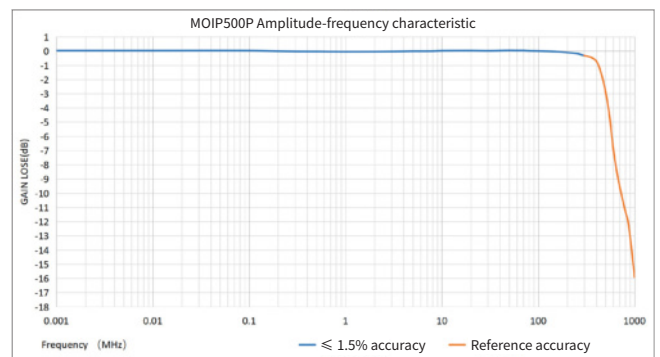
- Fastest response, can be tested immediately after power-on, Auto Calibration in less than 1 second, ensures accurate signal output in real time.

Present True Signal

- SigOFIT probe delivers highest CMRR: over 128dB at 100MHz, up to 108dB at 1GHz. It's the ultimate referee of signal fidelity measured by other voltage probes.

Best Probe for Third-Gen Semiconductor

- Power device like SiC and GaN can switch high voltages in a few nanoseconds, containing very high-energy high-frequency harmonics. Even at the highest bandwidth, the SigOFIT probe still have over 100dB CMRR in max. bandwidth, perfectly suppress oscillation caused by high-frequency common-mode noise, it's the best choice for third-generation semiconductor test and measurement.



Safe to Test Gallium Nitride (GaN)

- The test leads of SigOFIT probe are short and with coaxial cable transmission, the input capacitance is as low as 1pF minimum, very safe to test GaN.

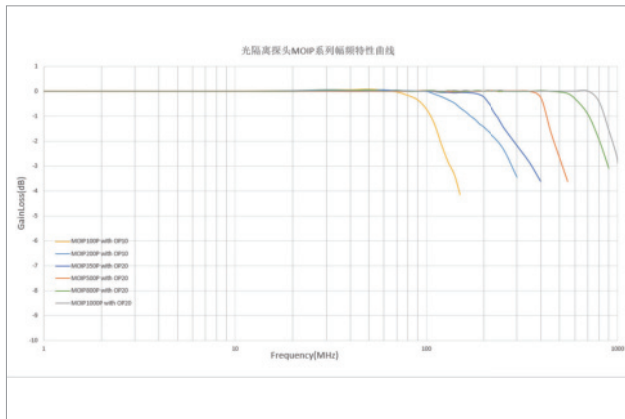
Wide Measurement Range

- Unlike traditional differential probes can only test high-voltage signals, SigOFIT probe can be used with different attenuator tips to test differential mode signals from $\pm 0.01\text{V}$ to $\pm 6250\text{V}$, achieve full-range output and very high signal-to-noise ratio.

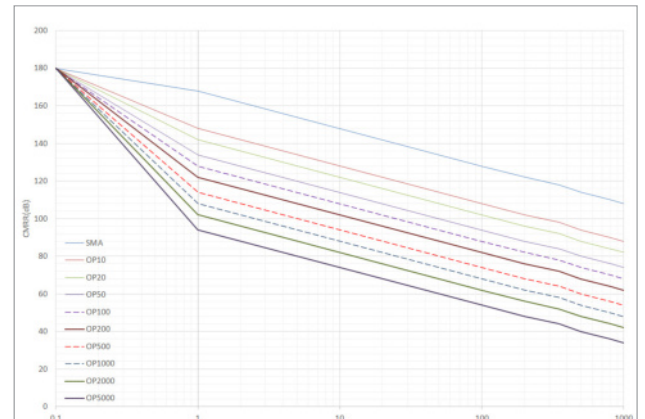


Key Specifications

Mode	MOIP100P	MOIP200P	MOIP350P	MOIP500P	MOIP800P	MOIP1000P
Bandwidth	100MHz	200MHz	350MHz	500MHz	800MHz	1GHz
Rise Time	≤ 3.5ns	≤ 1.75ns	≤ 1ns	≤ 700ps	≤ 438ps	≤ 350ps
CMRR	DC: 180dB 100MHz: 128dB	DC: 180dB 200MHz: 122dB	DC: 180dB 350MHz: 118dB	DC: 180dB 500MHz: 114dB	DC: 180dB 800MHz: 110dB	DC: 180dB 1GHz: 108dB
Differential Voltage Range	±6250V			±5000V		
Differential Voltage Range	Standard OP20(MMCX), ±25V Optional OP50(MMCX), ±62.5V Optional OP200(MCX), ±250V Optional OP1000(MCX), ±1250V Optional OP2000(MCX), ±2500V Optional OP5000(LCX), ±6250V	Standard OP20(MMCX), ±25V Optional OP50(MMCX), ±62.5V Optional OP200(MCX), ±250V Standard OP1000(MCX), ±1250V Optional OP2000(MCX), ±2500V Optional OP5000(LCX), ±6250V	Optional OP20(MMCX), ±10V Standard OP50(MMCX), ±25V Optional OP100(MMCX), ±50V Standard OP2000(MCX), ±1000V Optional OP5000(MCX), ±2500V Optional OP10000(LCX), ±5000V			
Noise	< 0.45mVrms					
DC Gain Accuracy	1%					
Common Mode Voltage Range	85kVpk					
Interface	Standard BNC					




Amplitude-frequency characteristics of different SigOFIT probes



CMRR of different types of attenuators (0dB) at various frequencies.

High Voltage Differential Probe DP Series

The DP series differential probes feature a bandwidth from 100MHz to 500MHz and can measure up to 7000Vpk differential voltage. They utilize advanced optical isolation technology for low noise and excellent common-mode rejection. With a standard BNC interface, they're compatible with all oscilloscopes. The probes are made of metal for better interference resistance and are only 2 cm thick for a compact design. They offer quick zeroing, overload protection, and settings preservation. The probes have a 2% accuracy and dual-range selection for various voltages. They also have a high input impedance (>8MΩ) and low input capacitance (<3pF) for safety testing. A 5MHz bandwidth limiter helps in filtering out noise for precise measurements, making them suitable for a wide range of high-voltage and high-frequency applications.


100MHz-500MHz
 Bandwidth



Up to 7000Vpk
 differential voltage


> -80dB
 CMRR

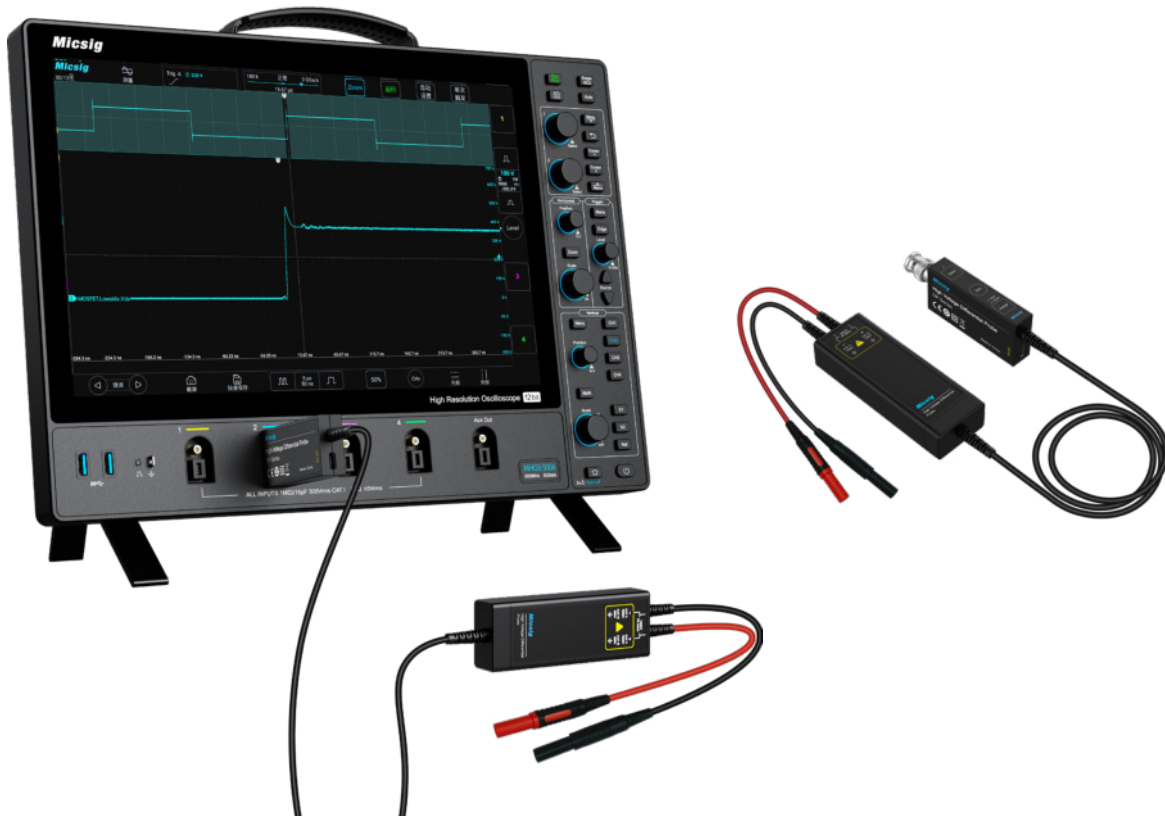

BNC
 universal interface


Only 2 cm thick
 compact in size


Optimal range selection provided
 dual-range switching


one-click switch
 quick zeroing


audio-visual alert
 overvoltage alarm



- ▶ 100MHz-500MHz bandwidth, 7000Vpk differential voltage
- ▶ Outstanding frequency response, superior CMRR
- ▶ Low noise, high-impedance, compliant with safety standards
- ▶ Quick zero, overload alert, settings saved
- ▶ 2 cm thick, metal, anti-interference
- ▶ BNC, fits all oscilloscopes

Key Specifications

Max. input differential voltage (DC+AC PK)	70V (20X) 700V (200X)	150V (50X) 1500V (500X)	300V (100X) 3000V (1000X)	700V (100X) 7000V (1000X)	
Bandwidth / Model					CMRR
100MHz	DP700	DP1500	DP3000	DP7000	DC: > -80dB 100kHz: > -60dB 10MHz: > -30dB 100MHz: > -26dB
150MHz	DP701	DP1501	DP3001	/	
200MHz	DP702	DP1502	DP3002	/	
300MHz	DP703	DP1503	DP3003	/	DC:>-80dB 100kHz:>-70dB 20MHz:>-40dB 120MHz:>-26dB
400MHz	DP704	DP1504	DP3004	/	
500MHz	DP705	DP1505	DP3005	/	

* Previous DP10007 upgraded to DP700

* Previous DP10013 upgraded to DP1500

* Previous DP20003 upgraded to DP3000

Note: These models have been enhanced in performance (see the specification table for details) and have an all-new, more compact and refined design. Please process orders according to the new model numbers when placing orders for procurement.

Other Specifications	
Accuracy	±2%
Power supply	DC 5V
Overload alarm	LED flashes, Buzzer beeps
Size	Control module: 91*33*15mm (L*W*H) Signal module: 100*36*20mm (L*W*H)
Input Cable Length	Approx 8 cm
Output Cable Length	Approx 120 cm
Temperature	working: 0°C ~ 40 °C non-working: -30°C ~ 70 °C
Humidity	working: 5 ~ 85% RH (0°C ~ 40 °C) non-working: 5% ~ 85% RH (≤ 40 °C) ; 5% ~ 45% RH (40 °C ~70 °C)

Rogowski AC Current Probe RCP Series

The RCP series Rogowski coils has a bandwidth of up to 30MHz and can measure up to 6000A peak current. They feature a 1kVrms voltage rating and near-zero insertion impedance to reduce measurement interference. With a 1.6mm coil diameter, they're easy to use with TO-220 semiconductors. These probes offer 2% accuracy for high-frequency, high-current signal measurements, ideal for third-generation semiconductor testing and monitoring semiconductor switch currents.



Up to 30MHz
Bandwidth



6000Apk
Maximum measurable current



< 5mVpp
Output noise



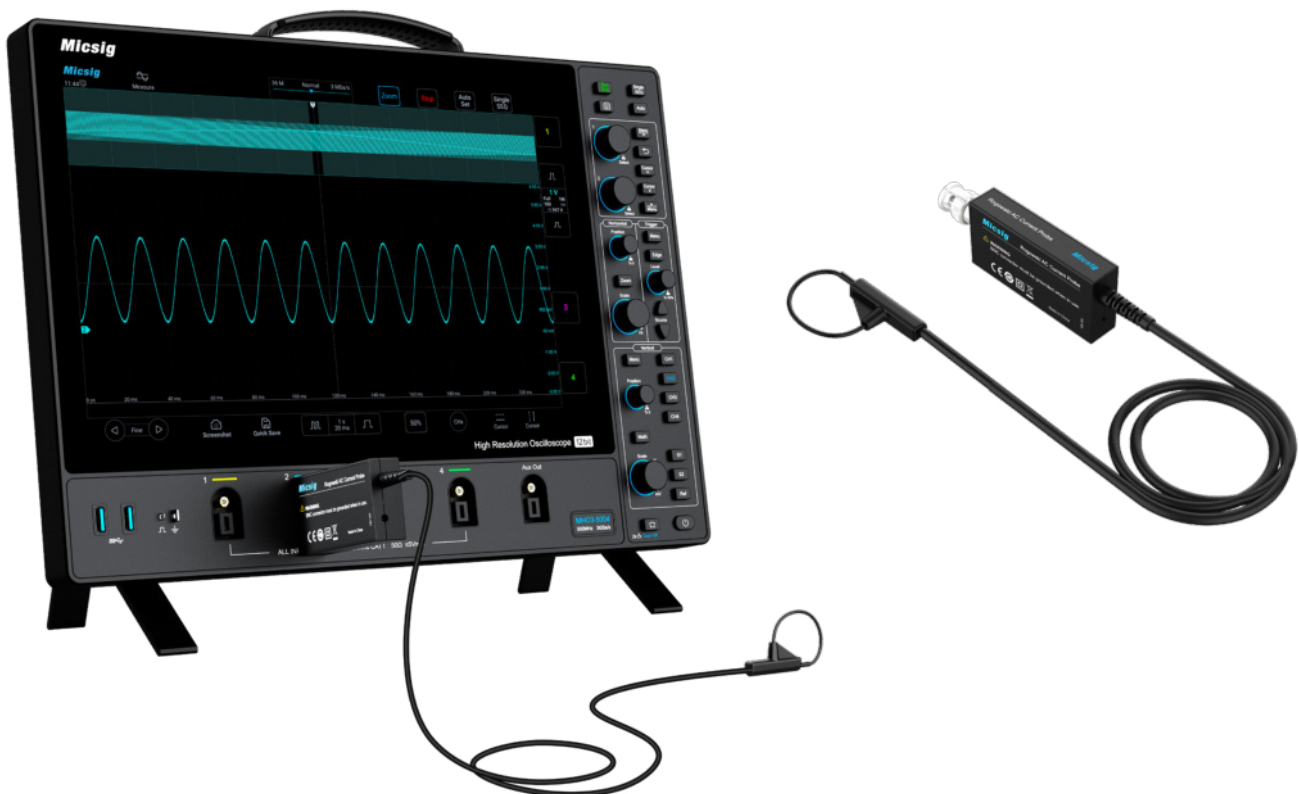
1.6mm
Coil cross-sectional diameter



2%
Typical accurac



BNC
universal interface



- ▶ Up to 30MHz bandwidth
- ▶ Typical accuracy up to 2%
- ▶ Output noise: <5mVpp
- ▶ Maximum measurable current up to 6000A peak
- ▶ Coil cross-sectional diameter approximately 1.6mm
- ▶ BNC interface, compatible with all oscilloscope brands

Product Features

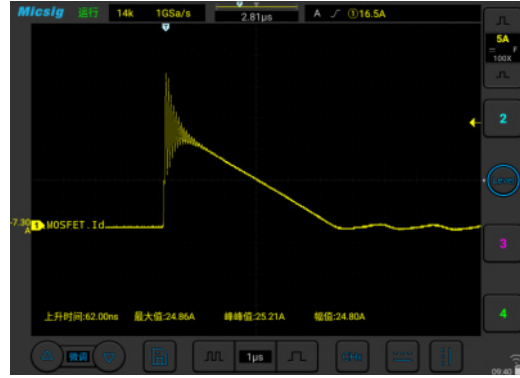
Smaller coil cross-section

The cross-sectional diameter of the coil is only 1.6mm, allow engineers measure current in most difficult-to-reach parts of the circuit, such as TO-220, TO-47.



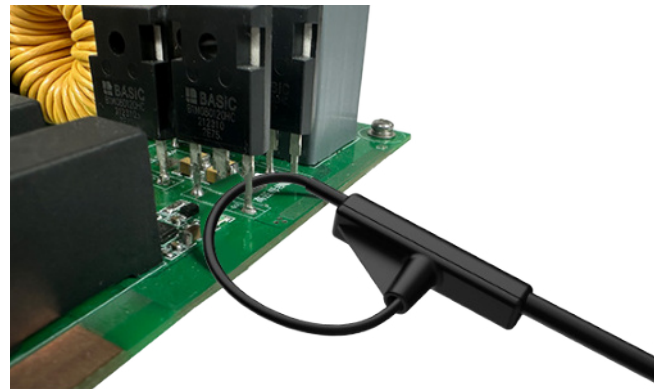
Measure the Id current of MOSFET

Excellent high-frequency measurement capabilities, easily measures high-speed signals, able to observe HF harmonic components when measuring the Id current of MOSFET (as shown the oscillation section below).



Application

- Measure currents in motor drives such as VSDs, UPS, and SMPS for power quality analysis.
- Test MOSFETs and IGBTs made of SiC, GaN in double-pulse tests.
- Monitor currents in small inductors, capacitors, and damping circuits.
- Measure load and harmonic currents in power electronics.
- Measure small AC currents in the presence of large DC currents.
- Measure high-frequency sine wave, pulse, or transient currents.
- Measure AC currents in three-phase power systems.
- Measure power losses in semiconductors.
- Measure 50/60Hz utility frequency currents.
- Develop and diagnose power converters.



Key Specifications

Model	RCP60XS	RCP300XS	RCP600XS	RCP1200XS	RCP3000XS	RCP6000XS
Bandwidth	85Hz-30MHz	10Hz-30MHz	10Hz-30MHz	12Hz-30MHz	3Hz-30MHz	2Hz-30MHz
Peak current	60Apk	300Apk	600Apk	1200Apk	3000Apk	6000Apk
Output sensitivity	100mV/A (10X)	20mV/A (50X)	10mV/A (100X)	5mV/A (200X)	2mV/A (500X)	1mV(1000X)
Accuracy (typical)	2%	2%	2%	2%	2%	2%
Peak di/dt	4kA/µs	20kA/µs	40kA/µs	70kA/µs	70kA/µs	70kA/µs
Drop	65%/ms	9%/ms	6%/ms	3%/ms	2%/ms	2%/ms
Output Noise	<20mVpp	<18mVpp	<12mVpp	<5mVpp	<5mVpp	<5mVpp
Peak coil isolation voltage	AC 1kVrms (1min) (50Hz/60Hz) (Rogowski coil part only)					
Wire length (integrator to Rogowski coil)	1.5m (customizable)					
Coil inner diameter	25mm (customizable)					
Coil circumference	80mm (customizable)					
Coil cross-section diameter	Appx. 1.6mm					
Interface	1MΩ BNC					

High Frequency AC/DC Current Probe CP series

The CP series current probes has a bandwidth of up to 100MHz, dual 5A/30A ranges, and measure up to 30A continuous or 50A peak currents with 1% accuracy and 1mA resolution. They offer high SNR, one-click demagnetization and zeroing, and overload protection for precise current waveform capture. The probes are compact, easy to use, and have a standard BNC interface for all oscilloscopes.



- ▶ 50MHz or 100MHz bandwidth options available
- ▶ Dual range design of 5A/30A
- ▶ Clamp diameter of 5mm
- ▶ 1% accuracy, 1mA resolution, high SNR
- ▶ One-click demagnetization and zeroing
- ▶ BNC, fits all oscilloscopes

Model	CP503B	CP1003B
Bandwidth	DC-50MHz	DC-100MHz
Rise Time	≤ 7ns	≤ 3.5ns
Range	5Arms (5A) 30Arms (30A)	
Max. Current Input	50Apk, 100Apk-pk, 30Arms	
Accuracy (Max continuous current @ DC and 45-66Hz)	±1% ±1mA (5A) ±1% ±10mA (30A)	
Resolution	1mA (5A) 10mA (30A)	
Noise	< 4mApp (5A) < 30mApp (30A)	
Delay	< 6.5ns (5A) < 8.5ns (30A)	
Output Sensitivity	1V/1A (5A, 1X) 1V/10A (30A, 10X)	
Over-current alarm value	> 5Apk (5A) > 50Apk (30A)	
Power Supply	12V	
Max. Working Voltage	CAT I 300V	
Max. Floating Voltage	CAT I 300V	
Max. Conductor Diameter	5mm	

Low Frequency AC/DC Current Probe CP2100 series

The CP2100 series current probes have bandwidths of 800kHz, or 2.5MHz, measuring up to 100A peak with a switchable 10A/100A range. They offer auto/manual zeroing and a compact, robust design. With a 13mm max conductor size and USB power, they connect directly to oscilloscopes via BNC, compatible with all brands, and are ideal for motor drives, inverters, and avionics.



- ▶ 800kHz-2.5MHz bandwidth options
- ▶ Auto/manual zeroing available
- ▶ Compact split design
- ▶ Switchable 10A/100A ranges
- ▶ BNC, fits all oscilloscopes
- ▶ Max conductor diameter up to 13mm

Model	CP2100A	CP2100B
Bandwidth	DC~800kHz	DC~2.5MHz
Rise time	≤ 437.5ns	≤ 140ns
Range	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)	
Measuring range	50mA~10Apk (10A) 1A~100Apk (100A)	
Max measurable current	100Apk, 70.7Arms (DC+ACpk) 200Apk-pk, 70.7Arms (AC)	
Max working voltage	CAT III 300V CAT II 600V	
Max float voltage	CAT III 300V CAT II 600V	
Max conductor diameter	13mm	
Overload indication	Buzzer beeps and Button light flashes	
Supplied power	DC 5V	
Probe head size	11*6.1*2.5cm	
Control module size	10.8*5.6*2.6cm	
Total Length	228cm	

AC Current Probe ACP1000

The ACP1000 AC current probe covers a bandwidth from 10Hz to 100kHz, measures up to 1000A with 1% accuracy, and uses a standard BNC interface for all oscilloscopes. It offers switchable ranges of 10A/100A/1000A with a 52mm clamp for non-intrusive measurements. Portable and no external power needed, it's ideal for motor drives, inverters, power supplies, and avionics.



- ▶ Bandwidth range from 10Hz to 100kHz
- ▶ Maximum test current up to 1000A
- ▶ Accuracy up to 1%
- ▶ Switchable 10A/100A/1000A ranges
- ▶ Clamp design for continuous circuit testing
- ▶ BNC, fits all oscilloscopes

Model	Input current (A)	Output signal	Frequency (Hz)	Rated load (Ohms)	Accuracy level
ACP1000	0.1-10A	100mV/A	10Hz-100kHz	≥ 100kΩ	3%±10mV
	0.1-100A	10mV/A			2%±5mV
	1-1000A	1mV/A			1%±1mV

Other Specifications	
Current range	0.1A-1000A
Max. pulse current	2000A (2s)
Working frequency	10Hz-100kHz
Accuracy (typical)	1%
Safety Level	CAT III 600V
Jaw diameter	52mm
Dimensions	111*216*45mm



ABOUT US

Tablet Oscilloscope Creator Optical-isolated Probe Leader

Shenzhen Micsig Technology Co., Ltd. is an industry-leading manufacturer and solution provider of signal test and measurement equipment, committed to the R&D of cutting-edge technologies in the field of oscilloscopes and peripheral products for 20 years, we have always been at the forefront of innovation and owned lots of technical patents and software copyrights.

Each of our innovations aims to break through the technical boundaries and explore new possibilities for industry development trends.

We created world-first full-touch tablet oscilloscope, smooth performance and ultimate user experience shocked the industry.

We launched the pioneering SigtestUI™, the only testing platform in the industry specifically designed for test and measurement instruments, making professional instruments lighter, smarter, and more stable.

We independently developed the SigOFIT™ technology, released industry-leading optical-fiber isolated probe and high-bandwidth high-voltage differential probe, brings a qualitative leap to the industry, making 3rd-Gen power semiconductors test no longer difficult.

We strive to serving global users with "Micsig Creation", keep building on value, constantly surpass ourselves and pursue excellence.



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