# Micsig®

Tablet Oscilloscope Innovator

Handheld Multifunctional Oscilloscope
MS300 Series(Isolated)

- 5.7 inches TFT LCD touch screen, 640*480 high resolution
- 100MHz/200MHz selectable bandwidth
- 1GSa/s real-time sampling rate, 240Kpts memory depth
- Two electrically isolated and floating oscilloscope inputs
- Integrate the functions of oscilloscope, multi-meter and recorder
- Up to 4~5H Li-ion battery persistence working time
- Support serial bus trigger for UART/RS232/RS422/RS485, LIN, CAN, SPI, I2C
- Full real-time remote control and data transfer via Micsig ScopeSuite Software
- Support I/O interface of USB Slave and USB Host
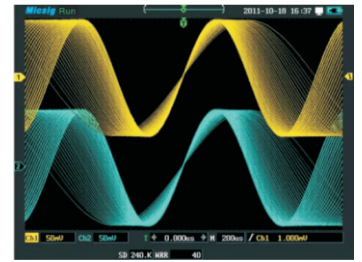- Support indoor and outdoor view modes
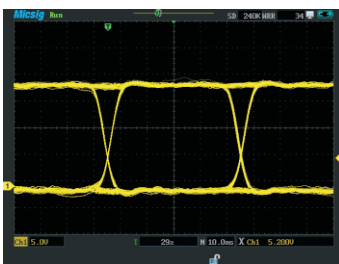- Quick Help support

✧ Features
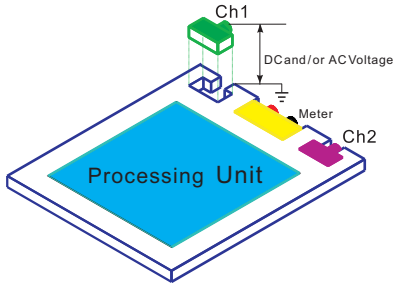
Three isolated inputs include two oscilloscope inputs and one multi-meter input, and all isolated inputs allows independent floating measurements with each input

Three operation modes for moving waveform, zooming in and out, and using menu by touch, button and scroll wheel.


640*480 high resolution

A perfect eye pattern contains an immense amount of parametric information about a signal, it gives you a visual indication of overall signal quality, noise level and signal jitter without looking at the data content. It finds errors like improper cable connections, bad contacts, incorrect grounding and missing or superfluous terminators. Serial bus trigger can be set to a variety of trigger conditions, users can find the wanted frame directly, reducing lots of their working loads.
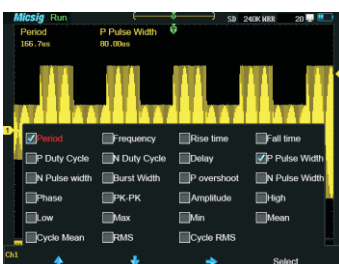

The functions of Micsig's ScopeSuite software include upgrading, real time control, measurement, storage, dynamic display, record, and data analysis.
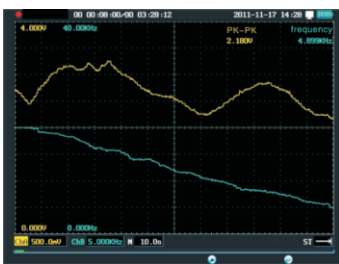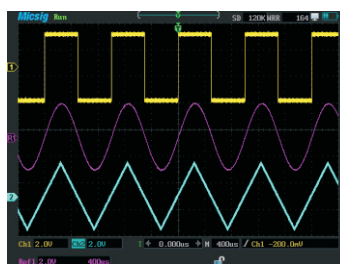

3 types of record modes: multimeter record, oscilloscope measurement record and oscilloscope waveform record.

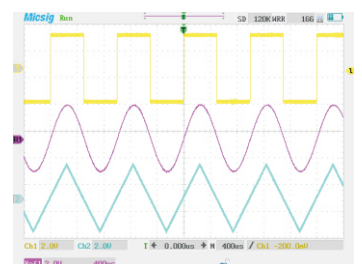10 physical measurements such as AC/DC voltage, current, resistance etc.

240Kpts memory depth

31 types auto measurements

Indoor display mode

Outdoor display mode

Micsig Handheld Multifunctional Oscilloscope   MS300 Series (Isolated)

General information		
Bandwidth	100MHz	200MHz
Model	MS310IT	MS320IT
Rise-time	≤3. 5ns	≤1. 75ns
Isolated channel	Support	
Real-time sampling rate	Single channel :1GSa/s,dual channels:500MSa/s	
Max waveform capture rate	-(can be upgraded to 50K wfms/s)	
Serial bus decode	Not support	
Memory depth	Single channel :240Kpts,dual channels:120Kpts	

Display	
Screen	5.7 inches/ touch screen
Display resolution	640*480
Display range	12*8
Format	YT,Can be upgraded to XY
Persistence	Auto ,100ms-10s ,or ∞

Vertical system	
Channel	2 isolated oscilloscope channels,1 multimeter channel
Limited bandwidth	20MHz
Coupling modes	DC ,AC ,GND
Input impedance	Parallel 1MΩ±1% with 15pF±3pF
Vertical scale	5mV/div~50V/div
Vertical resolution	8bits
Max voltage input	600V CAT Ⅱ 300V CAT Ⅲ
Floating voltage from CHs to GND	1000V CAT Ⅱ 600V CAT Ⅲ
DC vertical gain accuracy	5mV/div～50V/div,±2%

Horizontal system	
Timebase	4ns/div～10s/div
Timebase delay range	-12divs~50s
Timebase accuracy	20ppm
Sample mode	Normal,average, pk-pk,envelope
Dynamic record	-(can be upgraded)
Store waveform	4 sets (can be upgraded to flash disk storage)

Trigger system	
Trigger types	Edge, pulse, logic, serial bus(UART,LIN,CAN,SPI,I2C)
Trigger coupling	DC,AC,High-frequency suppression,Low-frequency suppression, Noise suppression
Trigger modes	Auto, normal, single
Inhibition range	200ns-10s
Math	+, −, *, /, FFT

Multimeter	
Measurement types	10 physical measurements ,such as voltage, current, resistance, capacitance, diode , etc.
Measurement accuracy	4 bits
Measurement display	Max, average, min, values with time stamp,relative measurement

Other information	
Interface	USB HOST , USB SLAVE (Connect to PC)
Power adapter	Input:100-240VAC, 50-60Hz, Output:12VDC,5A
Battery	Capacity 7.4V/6000mAh, work time:4~5 hours
Temperature/Humidity	-20℃−+50℃,<85%RH
Size	254mmx160mmx60mm
Weight	Main unit: 1380g, accessories: 691g, battery:276g

Standard Accessories

Items	Description	Items	Description
	250MHz, 10X probe		Power adapter: Input:100-240VAC, 50-60Hz, Output:12VDC,5A
	Multimeter table pen line		USB cable : Mini USB2.0
	7.4V/6000mAh lithium battery		Basic ScopeSuite Software

Optional Accessories

	Items	Model No.	Description
	ScopeSuite Software	MS-UM-A002	Full Function Scopesuite Software
	Handbag	MS-HB-S001	Dimention : 300mmX410mmX130mm
	Suitcase	MS-SC-S001	WR-16 ABS anti-pressure seal suitcase
	Li-ion battery	MS-BA-S900	7. 4V/9000mAh Li-ion battery
	Active probe	MS-PR-2010	1GHz Active probe
	HF current probe	MS-G105	DC：~50MHz
		MS-G110	DC：~100MHz
	AC/DC Current clamp	MS-V502	AC/DC 200A/20A
		MS-V601	AC/DC 600A
		MS-V701	AC/DC 400mA-4A-30A
	Serial bus decode module	MS-UART	Support UART/RS232/RS422/RS485, Graphic and Text display
		MS-LIN	Support LIN, Graphic and Text display
		MS-CAN	Support CAN, Graphic and Text display
		MS-SPI	Support SPI, Graphic and Text display
		MS-I2C	Support I2C, Graphic and Text display