Micsig® powered by …

ALLDAQ

Handheld-Oszilloskope

MS200/MS300/MS500-Serien

Vertriebs-Hotline: +49 (0) 89 894 222 74
E-Mail: info@alldaq.com
Wir beraten Sie gerne!

ALLDAQ – a division of ALLNET GmbH | Maistraße 2 | D-82110 Germering
Tel.: 089 / 894 222 74 | Fax: 089 / 894 222 33 | E-Mail: info@alldaq.com

Micsig®

Handheld Multifunctional Oscilloscope

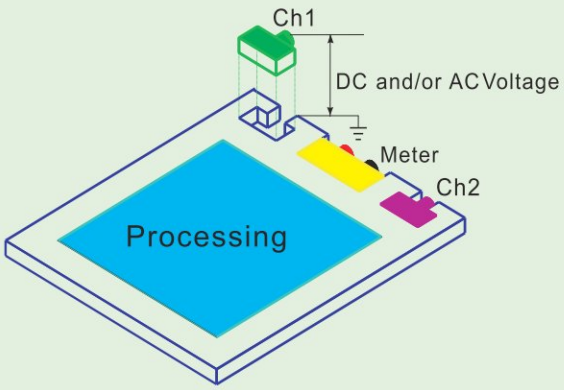
MS200/MS300/MS500 Series

- 5.7 inches TFT LCD touch screen, 640*480 high resolution
- 70MHz~200MHz selectable bandwidth, up to 190,000wfms/s capture rate
- 1GS/s real time sampling rate, 240Kpts memory depth
- 3 Operation modes: Touch, Button, Scroll wheel
- Optional electronically isolated-inputs
- Integrate the functions of oscilloscope, multi-meter and recorder in one unit
- Up to 4~5H Li-ion battery persistence working time
- Support serial trigger and decode for UART/RS232/RS422/RS485, LIN, CAN, SPI, I^2C
- Support I/O interface of USB, HDTV trigger for PAL,NTSC,SECAM,720P,1080I,1080P

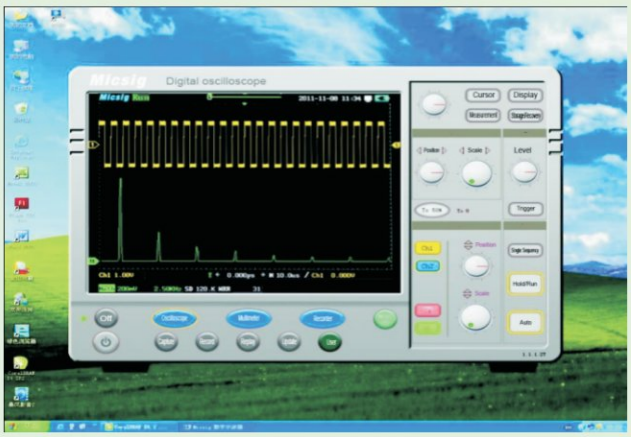
CE

Overview

◇ This series of handheld oscilloscope fit comfortably in one hand, It's an ideal choice in the field on electrical measurement , test and maintenance tasks.

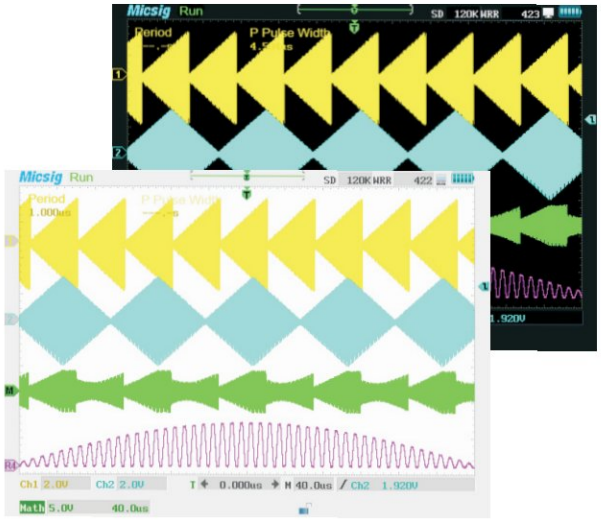


All isolated inputs allows independent floating measurements with each input.

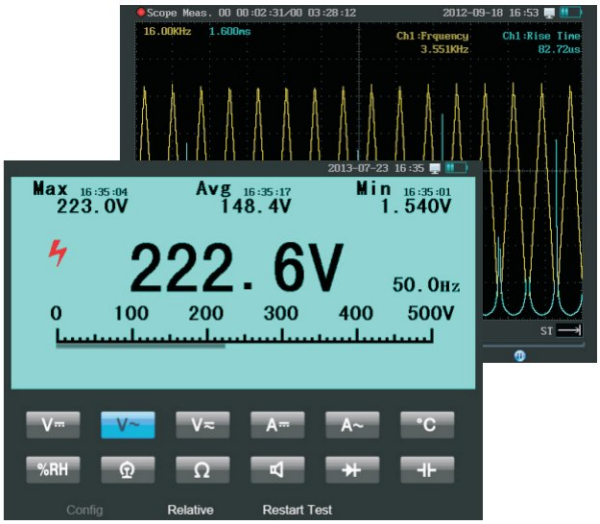


The functions of scopesuite include updating, real time control, measurement, storage, dynamic display, record, data analysis

Feature

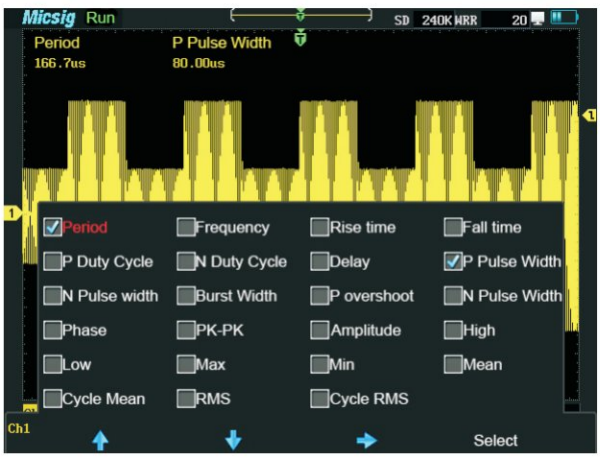


Indoor /Outdoor display mode

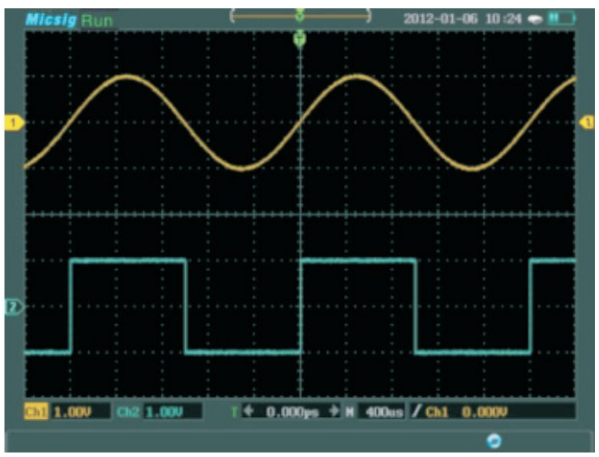


Multi-meter and recorder

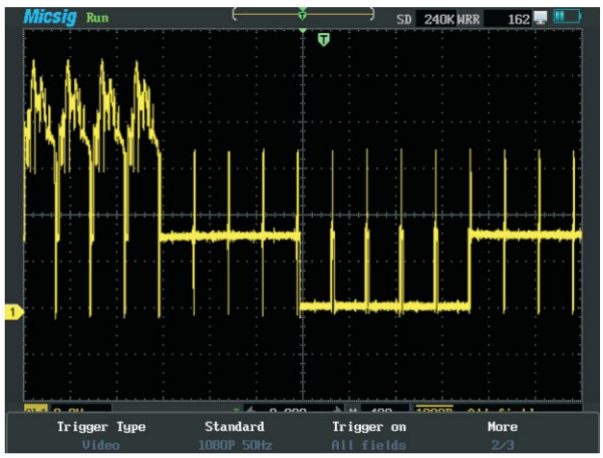
Users can choose 4 reference waveforms for comparison and analyze



31 types auto measurement, you can choose any four ones at one time just touch the marquee



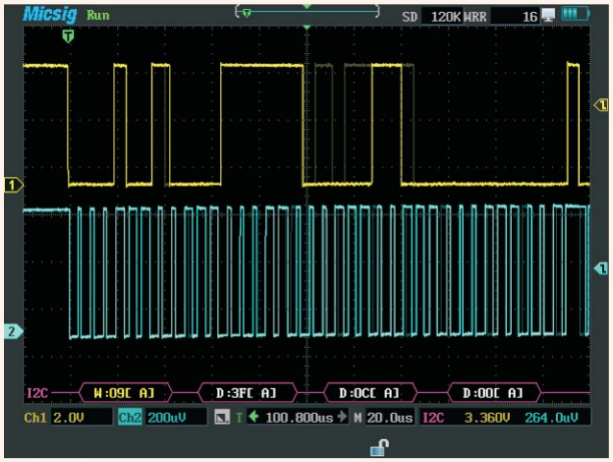
Connect to USB port to dynamiclly record waveforms



Support various video triggers, PAL,NTSC,SECAM,720P,1080I,1080P

Feature

Series bus trigger and decode (support UART/232/485/LIN/CAN/SPI/I²C)
(MS510S/MS520S Standard. MS300 series, MS510IT/MS520IT Optional)

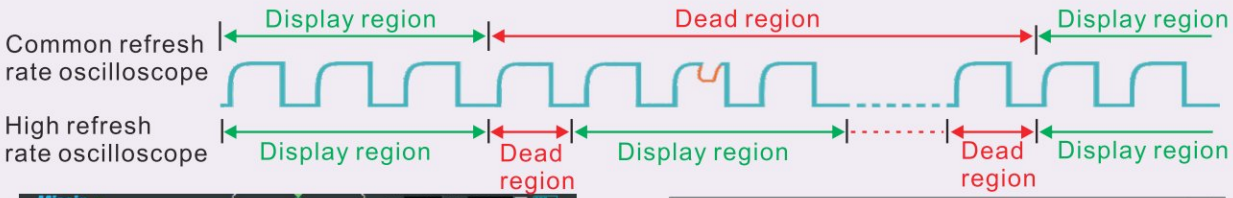


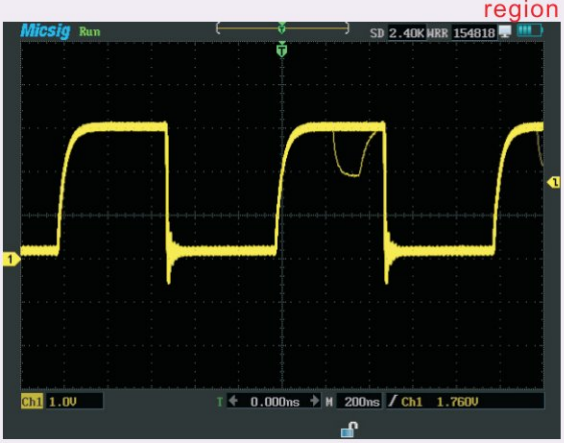
I2C serial bus decoding graphic mode

I2C serial bus decoding text mode

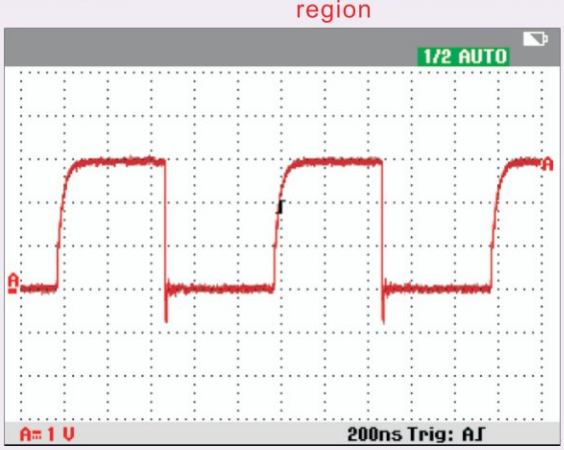
Waveform and data can be got in graphic mode; Address, ID, data, Calibration which makes up the frame are classified in text modem, and frame type and mistake can be satisfied, which can help users to debug and analyze the serial bus easier. What's more, the waveform and data can be transferred to a PC for your further analyze by a flash device

Up to 190,000 wfms/s capture rate, capture any random and infrequent events.





High refresh rate oscilloscope



Common refresh rate oscilloscope

Capture rate means how many waveforms acquisition per seconds your scope can acquire, process and display. Oscilloscope 'dead time' is the time it takes for scope to process and then display an acquired waveform before re-arming it's triggering for the next acquisition. The dead time of traditional oscilloscope is far more than 'display time', which results the signal occurred during dead time can't be captured. High capture rate product reduces dead time so that the abnormal signal could be caught fast and accurately.

Specification

Series	MS200 Series				MS300 Series		MS500 Series			
Model	MS207T	MS210T	MS215T	MS220T	MS310IT	MS320IT	MS510IT	MS520IT	MS510S	MS520S
Bandwidth	70MHz	100MHz	150MHz	200MHz	100MHz	200MHz	100MHz	200MHz	100MHz	200MHz
Rise-time	≤5ns	≤3.5ns	≤2.3ns	≤1.5ns	≤3.5ns	≤1.5ns	≤3.5ns	≤1.5ns	≤3.5ns	≤1.5ns
Serial data decode	Not optional				Optional		Optional		Standard	
Isolated channel	Not support				Support		Support			
Max capture rate	50,000 wfms/s						190,000 wfms/s			
Real-time sampling rate	1GS/s single channel, 500MS/s two channels									
Memory depth	240Kpts									
Display										
Screen	5.7 inches touch screen, 640* 480 pixels display resolution, 12* 8 display range									
Format	YT, can be updated to XY						YT, XY			
Persistence	Auto, 100ms- 10s, or ∞									
Vertical system										
Input Channel	2 Oscilloscope channels, 1 multi-meter channel									
Bandwidth limitation	20MHz									
Coupling	DC, AC, GND									
Input impedance	1MΩ ± 1% ≈ 15pF ± 3pF									
Vertical scale	5mv/div to 50V/div									
Vertical resolution	8 bit									
Max input voltage	500V				600V CAT Ⅱ 300V CAT Ⅲ					
Isolated channel voltage	-				1000V CAT Ⅱ 600V CAT Ⅲ					
Max channel floating voltage	-				1000V CAT Ⅱ 600V CAT Ⅲ					
DC vertical offset accuracy	5mV/div to 50V/div, ±2%									
Horizontal system										
Horizontal range	4ns/div to 10s/div									
Time base accuracy	20ppm									
Sampling modes	Normal, Average, Peak, Envelop									
Reference waveform	4 waveforms can be set									
Trigger system										
Trigger types	Edge, Pulse, Logic, Serial data(UART/LIN/CAN/SPI/I2C)									
Coupling modes	DC, AC, HF Rej., LF Rej., Noise Rej.									
Trigger modes	Auto, Normal, Single									
Hold-off time	200ns to 10s									
Math	+, -, *, /, FFT(Rectanglar/Hamming/BlackmanHarris/Hanning)									
Trigger source	CH1, CH2				CH1, CH2 (Ext trigger is optional)		CH1, CH2, Ext trigger			
Multi-meter										
Meter type	10 physical measurements						13 physical measurements			
Precision	5,000 counts									
Time base range	Meter: 10s/div to 20min/div, Scope: 10s/div to 20min/div, Waveform: 100us/div to2min/div									
Other information										
Interface	USB Host, USB Slave(Connect to PC)									
Power adapter	Input: 100~240V AC, 50~60Hz, Output: 12V DC, 5A									
Battery	7.4V/6,000mAh capacity, continuous working time 4~5h									
Temperature/Humidity	-20℃~ + 50℃, <85% RH									
Dimension	254mm* 160mm* 60mm									
Weight	Main unit: 1380g, accessories: 691g, battery: 276g									

Standard Accessories

Items	Description	Items	Description
	Multimeter table pen line		Power adapter: Input: 100-240V AC, 50-60Hz, Output: 12V DC, 5A
	Banana jack		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
 Probe	MS-PR-1050	100MHz,150MHz,200MHz,300MHz, 10X:1
 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

Micsig® **Shenzhen Micsig Instruments Co., Ltd.**

Room 508, Bldg.C, Guanlong Village, Xili Town, Nanshan, Shenzhen, China

Tel: +86-755-88600880 Fax: +86-755-88600880-818

Web: www.micsig.com Email: sales@micsig.com