



- Android system, rapid operation respond
- 2/4 channels, 100MHz / 150MHz bandwidth
- 1G Sa / S real-time sample rate, 70Mpts memory depth
- Up to 130,000 times/s waveform capture rate
- 8" industrial LCD, 800 * 600 resolution multi-point capacitive touch screen
- Optional lithium battery, battery life up to 5 hours

- Support LAN, WiFi, USB2.0, USB Device, HDMI, Trigger out, Pass / Fail out ports
- Support Bus trigger and decoding (UART,I2C,SPI,CAN,LIN)
- Support PC software, APP(iOS and Android mobile phone) to remote control oscilloscope
- Built-in 8G storage support various types waveform and video record

STO1000E Series Smart Oscilloscope

DATA SHEET



STO1000E Series Smart Oscilloscope

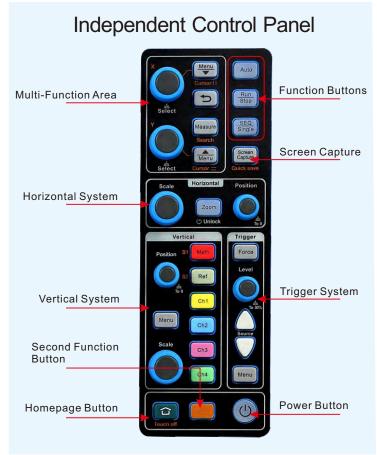
As Micsig's newest portable smart oscilloscope, STO1000E's bandwidth upto 150MHz,1GSa/s sample rate, 70Mpts memory depth, 2 & 4 Channels, and 130,000 wfm/s waveform capture rate. Support serial bus trigger and decoding; it also equipped with various measurements and mathematical functions; 256-level waveform grayscale display and color temperature display; compatible with ports like LAN, Wi-Fi, USB 2.0, USB Device, HDMI, Trigger out; 800 * 600 8-inch capacitive touch screen Support three operation modes: Full screen-touch, Knob panel, and mixed Touch + Panel.

Product appearance





Weight: 4CH Oscilloscope 1425g Battery 320g







Technical Features



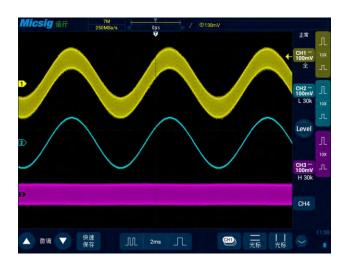
Ultra-high Waveform Capture Rate

Maximum 130,000wfm/s capture rate. By increasing the waveform capture rate, you see a more complete picture of what is going on with the signal.



Powerful Trigger Functions

Support Edge, Pulse width, Short pulse (Underthrow), Logic, Video, Overtime, N_Edge, Slope and other triggers. Simple and intuitive settings, swift trigger source switching mode, make the difficult part of oscilloscope application extremely easy.





31 Types of Auto Measurements

31 automatic measurements. Various automatic measurements can meet different measurement demand. It can be display all in one page.



Super Memory Depth

Up to 70Mpts memory depth ,Zoom into a selected part of the captured waveforms to get more details.

Hardware High-pass / Low-pass Digital Filtering

Most engineers focus on the details of a certain frequency band of asignal. Filtering out insignificant frequency to eliminate interfer ence, realizes a better judgement of the signal





Autoranging

STO 1000E supports automatic measurements. The scope can adjust the amplitude and horizontal time base in real time, ensures the waveform is always displayed with a suitable size on the screen, more convenient and accurate, avoids complicated manual adjustments.



Serial Bus Decoding and Analysis

Support serial triggering and decoding (I2C, SPI, RS232/UART, CAN, LIN)





High-precision Frequency Meter

Supports 6-bit hardware frequency meter, the accuracy is much higher than the soft solution frequency measurement, show more accurate measurement results.



Decode Text Mode

Supports bus text decoding mode, able to store or export data for further analysis.

Convenient Cursor Measurement

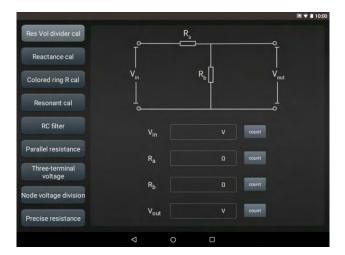
One soft touch to initiate horizontal and vertical cursors, each cursor can be moved independently. Simple two-point touch to track down the cursors, efficiency increased by 80%! No more traditional "anti-human" cursor operations!





Screenshot inverse and Timestamp

STO1000E supports adding time stamp and inverse color to screenshots, waveform are more concise and prominent, easy to record, meet the demands of our users to collect and organize.

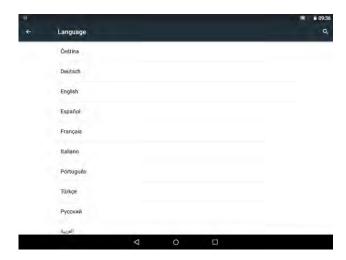


Electronic Calculation Tool Function



Soft Keyboard Input

When entering the name, IP, and special characters, ordinary oscilloscopes can only be selected one by one through the knobs, while Micsig's can easily Input by clicking on the soft keyboard,increasing efficiency by 90%.



Support Simplified / Traditional Chinese, English



Unique oscilloscope mobile APP and PC software via Wi-Fi, USB, Wi-Fi LAN and LAN connection. Support transfer data from scope to PC via Wi-Fi and USB. Support Micro HDMI to connect scope and display directly.



Product model

	STO1102E	STO1152E	STO1104E
Bandwidth	100MHz	150MHz	100MHz
Channels	2	2	4
Rise time(calculated)	≤3.5ns	≤2.33ns	≤3.5ns
Real time sampling rate(1 Ch)	1G Sa/S	1G Sa/S	1G Sa/S
Real time sampling rate (2Ch)	500M Sa/S	500M Sa/S	500M Sa/S
Real time sampling rate (4Ch)	1	1	250M Sa/S
Peak mode(1 Ch)	1ns	1ns	1ns
Peak mode(2 Ch)	2ns	2ns	2ns
Peak mode (4 Ch)	/	1	4ns
Memory depth(1 Ch)	70M	70M	70M
Memory depth(2 Ch)	35M	35M	35M
Memory depth(4 Ch)	/	1	17.5M

Product parameters

Vertical system	
Bandwidth limitation	20MHz
Hardware Filtering	$High \ pass \ (30 KHz \sim maximum \ bandwidth)/Low \ pass \ (maximum \ bandwidth \ \sim 30 KHz)$
Input coupling	DC、AC、GND
Inputimpedances	1MΩ±1% 14.5pF±3pF
Vertical resolution	8 bit
DC gain accuracy (Amplitude accuracy)	$<\pm2\%$ (1M Ω input)
Vertical scale factor	≥40dB (100:1)
Channel-to-channelisolation DC tomaximum bandwidth	1mV/div~10V/div (1MΩ input)
Offset range	\pm 2.5V (with probe multiple X1, <500mV/div), ±120V (with probemultiple X1, \geqslant 500mV/div
Noise	≤1mV
Maximum input voltage	CAT I 300Vrms (1MΩ input)
Sampling system	
Sampling mode	Real time sample rate
Peak sampling Sample rate 1G Sa/s	All the sampling glitches in scanning rate are narrow to single channel 1 ns, dual channel 2 ns .four channel 4ns
Maxduration in the max sampling	
rate Sample rate 1G Sa/s	70ms
Sample rate 500M Sa/s	140ms /70ms
Sample rate 250M Sa/s	280ms/140ms/70ms
Average	Average of sampling for N times N is chosen from 2, 4, 8, 16, 32, 64, 128, 256
Envelope	Envelope of sampling for N times $$ N is chosen from 2, 4, 8, 16, 32, 64, 128, 256, ∞
Automatic	
Auto setting	Automatically turns on/off channels, threshold level setting, and automatically sets the trigger source
	Vertical gear automatic, horizontal time base automatic, trigger level automatic



Trigger system		
Trigger mode	Normal, Auto, and Single	
Trigger coupling	DC,AC,HF reject(>50KHz),LF reject(<50KHz),noise reject	
Trigger holdoff range	200ns~10s	
Trigger level ranges	±10 grids from the center of the screen	
Trigger type		
Edge	Positive, negative, or either slope on any channel input. Coupling includes DC, AC, HF reject, LF reject, and noise reject.	
Pulse Width	Trigger on width of positive or negative pulses that are $>$, $<$, $=$, \neq , or inside/outside a specified period of time (8ns~10s).	
Logic	Trigger when any logical pattern of channels goes false or stays true for specified period of time (8ns~10s). Any input can be used as a clockto look for the pattern on a clock edge. Pattern (AND, OR, NAND,NOR) specified for all input channels defined as High, Low, or Don'tCare	
Runt	By setting high and low thresholds, triggering pulses that span a level that does not cross another level captures positive and negative pulses	
Time out	Starting from the intersection of the signal and the trigger level, Trigger when the trigger level is above (or below) the duration and reaches theset time	
Slope	Trigger when the waveform's time from one level to another matches the set time condition	
Video trigger	The triggering method for video signals is different depending on the video format. Generally, there are PAL/625, SECAM, NTSC/525, 720P,1080I, 1080P, etc.	
Nth edge	Trigger on the Nth rising/falling edge of the waveform	
Bus	 Trigger for the set bus, including UART, I2C, SPI, CAN, LIN, 1553B,429 bus UART: start bit, stop bit, data, 0: data, 1: data, x: data, parity error I2C: start condition, stop condition, acknowledge loss, restart, address field no acknowledgement, frame type 1, frame type 2, EEPROM data read and write, 10-l write frame SPI: CS, data, X data CAN: frame start, remote frame ID, data frame ID, remote/data frame ID, data frame ID and data, error frame, all errors, acknowledgment errors, overload frames LIN: Synchronous rising edge, frame ID, frame ID and data 1553B: instruction/status word sync header, data word sync header, instruction/status word, remote terminal address, Manchester code error, data word, odd parity error all errors 429: word start, word end, LABEL, SDI, DATA, SSM, LABEL+SDI, Label+Data, Label+ 	
	SSM, word error, word gap error, check error, all errors, all 0 bits, all 1 bit	
Horizontal system		
Time base range	2ns/div~1ks/div	
Time base delay range	-14divisions to 14ks	
Clock drift	≤±5ppm/year	
Time base accuracy	±20ppm	
Rollmode	200ms/div~1ks/div	
Bus setup and decoding		
Display model	Graphic mode, list mode	
Decoding type	UART,I2C,SPI,CAN,LIN,1553B,429	
List mode	For uninterrupted decoding of collected data and can be saved	
UART	RX: Ch1, Ch2, Ch3, Ch4	
	Idle level: high and low	
	Check: no, odd, even	
	Bits: 5, 6, 7, 8, 9	
	Baud rate: 1.2K~8Mbps	
	Budd Tato: 1.217 GMBpo	



I2C	Data: Ch1, Ch2, Ch3, CH4
	Clock:Ch1,Ch2,Ch3,Ch4
SPI	Clock: rising edge / falling edge Ch1, Ch2, Ch3, Ch4
	Data: High/Low Ch1, Ch2, Ch3, Ch4
	CS: High/Low Ch1, Ch2, Ch3, Ch4
	Bits: 4,8,16,24,32
CAN	Source: Ch1, Ch2, Ch3, Ch4
	Signal type: CAN_H,CAN_L,H_L,L_H,Rx,Tx
	Baud rate: 2.4K~625Kbps
LIN	Source: Ch1, Ch2, Ch3, Ch4
	Idle level: high level / low level
	Baud rate: 2.4K~625Kbps
1553B(optional)	Source: Ch1, Ch2, Ch3, Ch4
420/ 1: "	Display:binary, hexadecimal
429(optional)	Source: Ch1, Ch2, Ch3, Ch4
	Format:LABEL_DATA,L+D+SSM,L+SDI+D+SSM
	Display: binary, hexadecimal
	Baud rate: 12.5Kbs/100Kbps
Display system	
Display type	8"TFT LED Multi point touchable capacitive screen,24bit
Display resolution	800*600
Max touch point on touch screen	5
Operation way	Touch, button, touch + button
Afterglow time	Automatic,10ms~10s,∞
Time base format	YT,XY,Roll,Zoom
Expansion bench mark	Center, Trigger Position
Color temperature display	Support
Waveform display	Point, line, adjustable brightness
Grid	14*10 grid, adjustable brightness
Grey level	256levels
Waveform refresh rate	130,000wfms/s
Time	Real time, user adjustable
Language	English, Chinese (standard), German, French, Czech, Korean, Spanish, Italian (Options)
Storage	
Storage format	Local,UDisk
Built-in storage	8G
Storage format	Csv,wav,Bin
Waveform storage number	Unlimited
Waveform storage name	Support
Display the reference waveform quantity	4 pcs
Screenshot	Support
Video recording and playback	Support
User setting number storage	10
User name setting Flash format	Support
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Power source voltage 100~240V AC,50/60Hz Power consumption <60W Fuse 12V DC, 5A Built-in Battery 7.4V,7500mAh Waveform measurements Cursor Horizontal, vertical, cross Auto measurements 31, of which up to five can be displayed on-screen at any one time. Measurements include: Period, Frequency, Rise Time, Fall Time, Delay, Positive duty Cycle, Negative Duty Cycle, Positive Pulse Width, Negative Pulse Width, Burst Width, Positive Overshoot, Negative	Power source	
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2CHBare 2745g	4CH Bare	1425g
	Shipment	
4CHBare 2930g	2CHBare	2745g
	4CHBare	2930g



Accessory

Standard accessories

Model	Product	Parameters	Model	Product	Parameters
P130A	Passive probe	Bandwidth:200MHz (One per channel)	\$ 100 mm	Adapter	12V DC,5A
	BNC cap	BNC cap (One per channel)		Power cable	Dedicated Oscilloscope Power cable
	Dedicated Carry Strap	Leather Carry Strap		Lithium Ion Battery	7.4V 7500mAh
	Dedicated protective film	Anti-slip and anti-reflective			

Optional Accessories

lodel Pro	oduct	Parameters	Model Product
Micsig	illoscope dbag	Wear-resistant canvas material	High-voltage differential probe
Н Н Н Н Н Н	/II Cable	1.6m	High-voltage differential probe
high prob	n voltage De	Test current range: 0.1A-1000A Operation frequency: 10Hz-100KHz	AC/DC current probe
AC curr	ent probe	Test current range: 0.1A-1000A Operation frequency: 10Hz-100KHz	AC/DC current probe



Ordering information

Step 1, Select STO1000E series basic models

STO1000 family	
STO1102E	Tablet touch digital oscilloscope,100MHz 2 analog channels, single channel sampling rate 1G Sa/s,70Mpts
STO1152E	Tablet touch digital oscilloscope,150MHz 2 analog channels, single channel sampling rate 1G Sa/s,70Mpts
STO1104E	Tablet touch digital oscilloscope,100MHz 4 analog channels, single channel sampling rate 1G Sa/s,70Mpts

Step 2: Configure your STO1000E by adding instrument options

Instrument option

All STO1000E series instruments can be pre-configured with the following options at the factory:

Software option

1553B bus decoding	Suitable for all models
429 bus decoding	Suitable for all models

The final interpretation right of this manual belongs to Shenzhen Micsig Instrument Co., Ltd



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