



- Android system, rapid operation respond
- 2/4 channels, 100MHz / 150MHz bandwidth
- 1G Sa / S real-time sample rate, Up to 70Mpts memory depth
- Up to 130,000 times/s waveform capture rate
- 8" industrial LCD, 800 \* 600 resolution multi-point capacitive touch screen
- Support LAN, WiFi, USB2.0, USB Device, HDMI, Trigger out
- 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
- Optional lithium battery, battery life up to 5 hours

## STO1000 Series Smart Oscilloscope

# DATA SHEET

## STO1000 Series Smart Oscilloscope

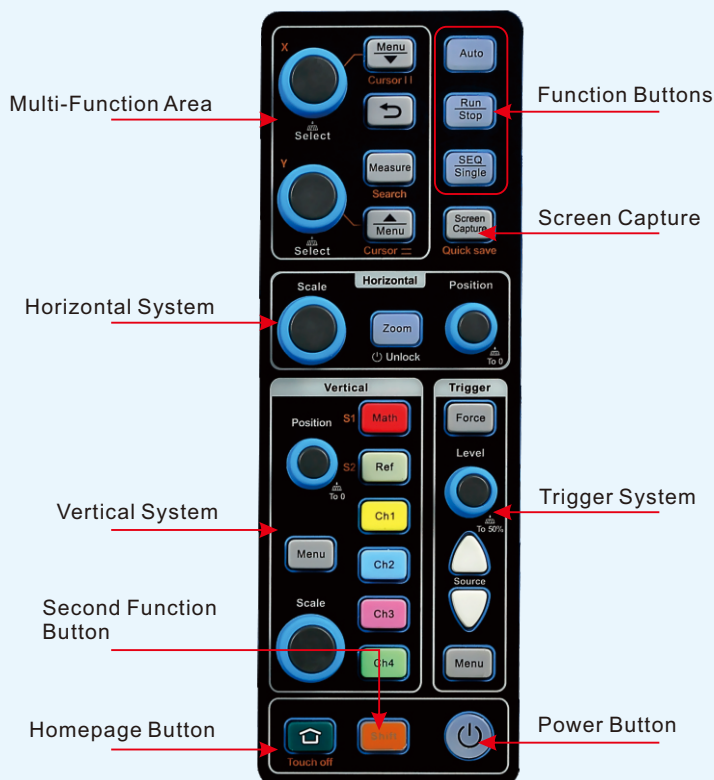
STO1000 is Micsig's newest portable smart 2/4-Channel oscilloscope model, with 100/150MHz bandwidth, 1GSa/s sample rate, Up to 70Mpts memory depth, and up to 130,000 wfm/s waveform capture rate. Adopting high-sensitivity digital trigger system, the trigger jitter is small, support serial bus trigger and decoding; it also equipped with various measurements and mathematical functions; standard digital filter module, 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 and highly integrated control panel

### Product appearance



Weight: 4CH Oscilloscope 1425g Battery 320g

### Independent Control Panel



## Technical Features



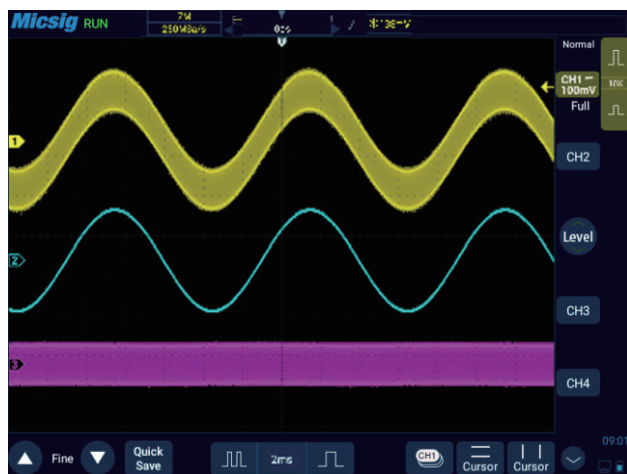
### Ultra-high Waveform Capture Rate

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



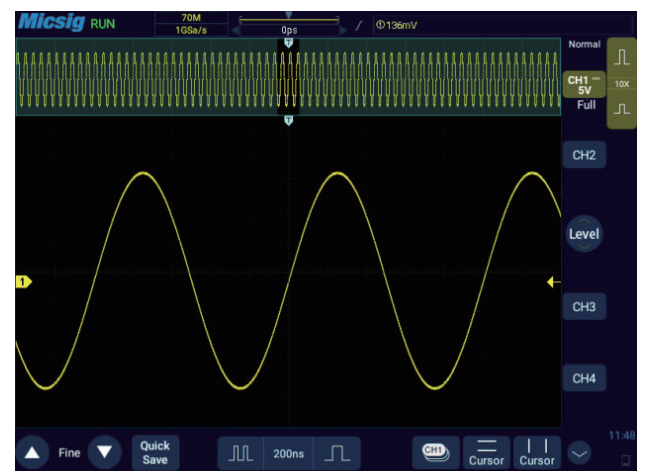
### Powerful Trigger Functions

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

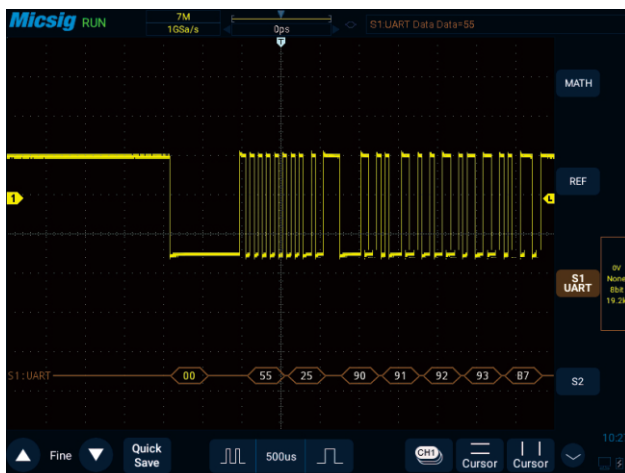
Most engineers focus on the details of a certain frequency band of a signal. Filtering out insignificant frequency to eliminate interference, realizes a better judgement of the signal.





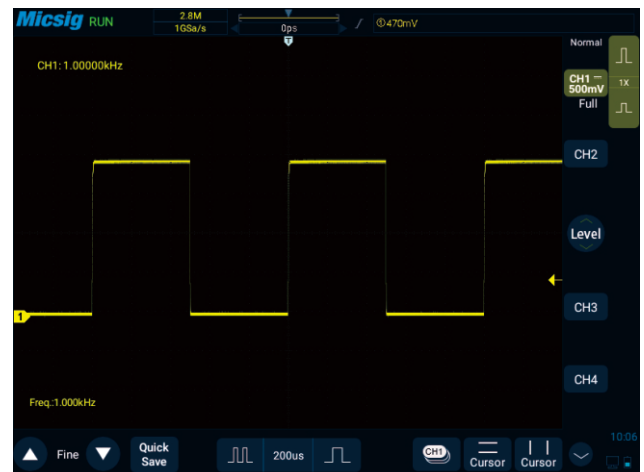
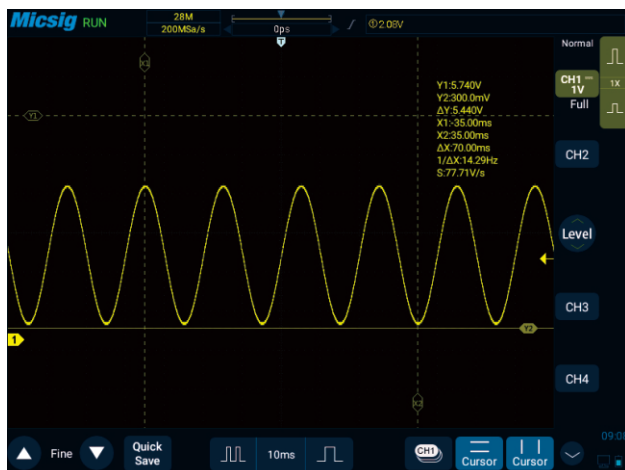
## Autoranging

STO1000 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

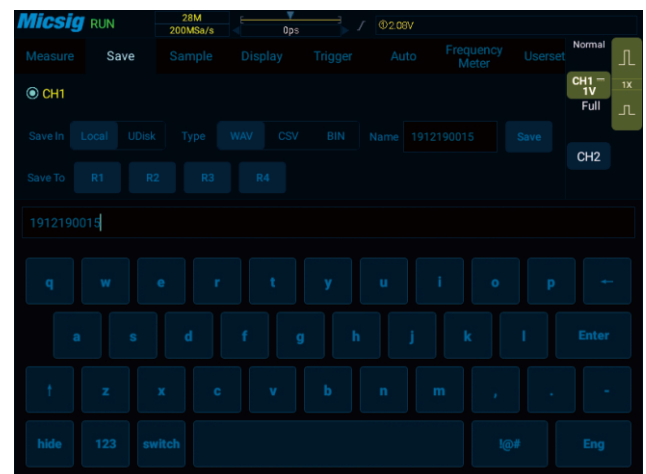
One soft touch to initiate horizontal and vertical cursors, each cursor can be moved independently. Simple two-point touch to track down the cursors, efficiency increased by 80%! No more traditional "anti-human" cursor operations!





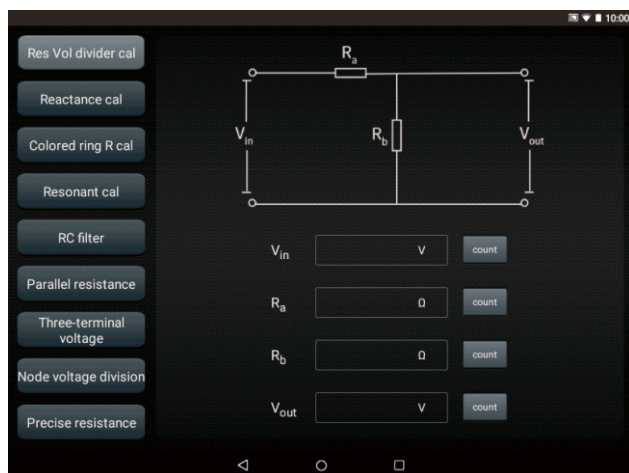
## Screenshot inverse and Timestamp

STO1000 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.

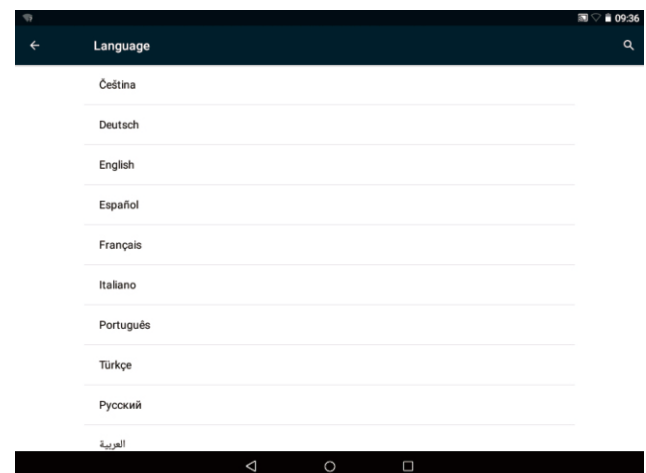


## Soft Keyboard Input

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%.



Electronic Calculation Tool Function



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

|                               | STO1000C  |           |           | STO1000E  |           |           |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Model                         | STO1102C  | STO1152C  | STO1104C  | STO1102E  | STO1152E  | STO1104E  |
| Bandwidth                     | 100MHz    | 150MHz    | 100MHz    | 100MHz    | 150MHz    | 100MHz    |
| Channels                      | 2         | 2         | 4         | 2         | 2         | 4         |
| Rise time(calculated)         | ≤3.5ns    | ≤2.33ns   | ≤3.5ns    | ≤3.5ns    | ≤2.33ns   | ≤3.5ns    |
| Real time sampling rate(1 Ch) | 1G Sa/S   | 1G Sa/S   | 1G Sa/S   | 1G Sa/S   | 1G Sa/S   | 1G Sa/S   |
| Real time sampling rate (2Ch) | 500M Sa/S | 500M Sa/S | 500M Sa/S | 500M Sa/S | 500M Sa/S | 500M Sa/S |
| Real time sampling rate (4Ch) | /         | /         | 250M Sa/S | /         | /         | 250M Sa/S |
| Peak mode(1 Ch)               | 1ns       | 1ns       | 1ns       | 1ns       | 1ns       | 1ns       |
| Peak mode(2 Ch)               | 2ns       | 2ns       | 2ns       | 2ns       | 2ns       | 2ns       |
| Peak mode (4 Ch)              | /         | /         | 4ns       | /         | /         | 4ns       |
| Memory depth(1 Ch)            | 28M       | 28M       | 28M       | 70M       | 70M       | 70M       |
| Memory depth(2 Ch)            | 14M       | 14M       | 14M       | 35M       | 35M       | 35M       |
| Memory depth(4 Ch)            | /         | /         | 7M        | /         | /         | 17.5M     |

## Product parameters

### Vertical system

|                                                      |                                                                                         |
|------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Bandwidth limitation                                 | 20MHz                                                                                   |
| Hardware Filtering                                   | High pass (30KHz~ maximum bandwidth)/Low pass (maximum bandwidth ~30KHz)                |
| Input coupling                                       | DC、AC、GND                                                                               |
| Input impedances                                     | 1MΩ±1%  14.5pF±3pF                                                                      |
| Vertical resolution                                  | 8 bit                                                                                   |
| DC gain accuracy (Amplitude accuracy)                | <±2% (1MΩ input)                                                                        |
| Vertical scale factor                                | ≥40dB (100:1)                                                                           |
| Channel-to-channel isolation DC to maximum bandwidth | 1mV/div~10V/div (1MΩ input)                                                             |
| Offset range                                         | ± 2.5V (with probe multiple X1, <500mV/div), ±120V (with probe multiple X1, ≥500mV/div) |
| Noise                                                | ≤1mV                                                                                    |
| Maximum input voltage                                | CAT I 300Vrms (1MΩ input)                                                               |

### Sampling system

|                                                              |                                                                                                                      |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Sampling mode                                                | Real time sample rate                                                                                                |
| Peak sampling<br>Sample rate 1G Sa/s                         | All the sampling glitches in scanning rate are narrow to single channel<br>1 ns, dual channel 2 ns .four channel 4ns |
| Max duration in the max sampling rate<br>Sample rate 1G Sa/s | 28ms                                                                                                                 |
| Sample rate 500M Sa/s                                        | 56 ms /28ms                                                                                                          |
| Sample rate 250M Sa/s                                        | 112ms/56/28ms                                                                                                        |
| 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 |
| Auto range   | 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 >, <, =, ≠, 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 clock to look for the pattern on a clock edge. Pattern (AND, OR, NAND, NOR) specified for all input channels defined as High, Low, or Don't Care                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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 the set 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                   | <p>Trigger for the set bus, including UART, I2C, SPI, CAN, LIN, 1553B, 429 bus</p> <p><b>UART:</b> start bit, stop bit, data, 0: data, 1: data, x: data, parity error</p> <p><b>I2C:</b> start condition, stop condition, acknowledge loss, restart, address field no acknowledgement, frame type 1, frame type 2, EEPROM data read and write, 10-bit write frame</p> <p><b>SPI:</b> CS, data, X data</p> <p><b>CAN:</b> 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</p> <p><b>LIN:</b> Synchronous rising edge, frame ID, frame ID and data</p> <p><b>1553B:</b> 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</p> <p><b>429:</b> 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</p> |

## Horizontal system

|                       |                      |
|-----------------------|----------------------|
| Time base range       | 2ns/div~1ks/div      |
| Time base delay range | -14divisions to 14ks |
| Clock drift           | ≤±5ppm/year          |
| Time base accuracy    | ±20ppm               |
| Roll mode             | 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          | <p>RX: Ch1, Ch2, Ch3, Ch4</p> <p>Idle level: high and low</p> <p>Check: no, odd, even</p> <p>Bits: 5, 6, 7, 8, 9</p> <p>Baud rate: 1.2K~8Mbps</p> <p>Display mode: hexadecimal, binary, ASC II code</p> |



|       |                                                                                                                                                                            |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I2C   | Data: Ch1 , Ch2 , Ch3, CH4<br>Clock:Ch1 , Ch2 , Ch3, Ch4                                                                                                                   |
| SPI   | Clock: rising edge / falling edge    Ch1 , Ch2 , Ch3, Ch4<br>Data: High/Low    Ch1 , Ch2 , Ch3, Ch4<br>CS: High/Low    Ch1 , Ch2 , Ch3, Ch4<br>Bits : 4 , 8 , 16 , 24 , 32 |
| CAN   | Source: Ch1 , Ch2 , Ch3, Ch4<br>Signal type: CAN_H,CAN_L,H_L,L_H,Rx,Tx<br>Baud rate : 2.4K~625Kbps                                                                         |
| LIN   | Source :Ch1 , Ch2 , Ch3, Ch4<br>Idle level: high level / low level<br>Baud rate : 2.4K~625Kbps                                                                             |
| 1553B | Source :Ch1 , Ch2 , Ch3, Ch4<br>Display:binary, hexadecimal                                                                                                                |
| 429   | Source :Ch1 , Ch2 , Ch3, Ch4<br>Format:LABEL_DATA , L+D+SSM , L+SDI+D+SSM<br>Display : binary, hexadecimal<br>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           | 80,000wfms/s(STO1000C),13,0000wfm/s(STO1000E)                                     |
| Time                            | Real time, user adjustable                                                        |
| Language                        | English,Chinese(standard),German, French, Czech, Korean, Spanish,Italian(Options) |

### Storage

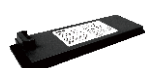
|                                         |             |
|-----------------------------------------|-------------|
| Storage format                          | Local,UDisk |
| Built-in storage                        | 8G          |
| Storage format                          | Csv,wav,Bin |
| Waveform 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                       | Support     |
| Flash format                            | Support     |

| Power source             |                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 Overshoot, Phase, Peak to Peak, Amplitude, High, Low, Max, Min, Mean, Cycle Mean, RMS, Cycle RMS. |
| Frequency counter        | 6                                                                                                                                                                                                                                                                                                                                                                           |
| Waveform math            |                                                                                                                                                                                                                                                                                                                                                                             |
| Dual Waveform<br>FFT     | + - * /<br>Spectral magnitude. Set FFT Vertical Scale to Linear RMS or dBVRMS, and FFT Window to Rectangular, Hamming, Hanning, or Blackman-Harris.                                                                                                                                                                                                                         |
| Interface                |                                                                                                                                                                                                                                                                                                                                                                             |
| USB2.0 interface         | Support 1 USB mass storage devices, can read and write                                                                                                                                                                                                                                                                                                                      |
| Micro USB2.0 interface   | 1, support read and write                                                                                                                                                                                                                                                                                                                                                   |
| DC interface             | 1, Oscilloscope power supply                                                                                                                                                                                                                                                                                                                                                |
| Probe calibration port   | 1KHz, 2Vpp                                                                                                                                                                                                                                                                                                                                                                  |
| LAN                      | Support                                                                                                                                                                                                                                                                                                                                                                     |
| HDMI                     | 1.4                                                                                                                                                                                                                                                                                                                                                                         |
| WIFI                     | Support                                                                                                                                                                                                                                                                                                                                                                     |
| Android APP              | Support                                                                                                                                                                                                                                                                                                                                                                     |
| IOS APP                  | Support                                                                                                                                                                                                                                                                                                                                                                     |
| Computer software        | Support                                                                                                                                                                                                                                                                                                                                                                     |
| Environment              |                                                                                                                                                                                                                                                                                                                                                                             |
| Temperature              |                                                                                                                                                                                                                                                                                                                                                                             |
| Operating                | 0°C~45°C                                                                                                                                                                                                                                                                                                                                                                    |
| Npn-operating            | -40°C~60°C                                                                                                                                                                                                                                                                                                                                                                  |
| Humidity                 |                                                                                                                                                                                                                                                                                                                                                                             |
| Operating                | 5% to 85%, 25°C                                                                                                                                                                                                                                                                                                                                                             |
| Non-operating            | 5% to 90%, 25°C                                                                                                                                                                                                                                                                                                                                                             |
| Altitude                 |                                                                                                                                                                                                                                                                                                                                                                             |
| Operating                | <3000m                                                                                                                                                                                                                                                                                                                                                                      |
| Non-operating            | <12000m                                                                                                                                                                                                                                                                                                                                                                     |
| Physical characteristics |                                                                                                                                                                                                                                                                                                                                                                             |
| Dimensions               | 280*180*50mm                                                                                                                                                                                                                                                                                                                                                                |
| Weight                   |                                                                                                                                                                                                                                                                                                                                                                             |
| Net                      |                                                                                                                                                                                                                                                                                                                                                                             |
| 2CH Bare                 | 1340g                                                                                                                                                                                                                                                                                                                                                                       |
| 4CH Bare                 | 1425g                                                                                                                                                                                                                                                                                                                                                                       |
| Shipment                 |                                                                                                                                                                                                                                                                                                                                                                             |
| 2CH Bare                 | 2745g                                                                                                                                                                                                                                                                                                                                                                       |
| 4CH Bare                 | 2930g                                                                                                                                                                                                                                                                                                                                                                       |

## Accessory

Standard accessories Of STO1000 Plus

| Model                                                                                           | Product       | Parameters                            |
|-------------------------------------------------------------------------------------------------|---------------|---------------------------------------|
| 1<br><br>P130A | Passive probe | Bandwidth:200MHz<br>(One per channel) |
| 2<br>          | BNC cap       | BNC cap<br>(One per channel)          |
| 3<br>          | Power cable   | Dedicated Oscilloscope<br>Power cable |
| 4<br>         | Adapter       | 12V DC, 5A                            |

| Model                                                                                  | Product                      | Parameters                       |
|----------------------------------------------------------------------------------------|------------------------------|----------------------------------|
| 5<br> | Dedicated<br>Carry Strap     | Leather Carry Strap              |
| 6<br> | Dedicated<br>protective film | Anti-slip<br>and anti-reflective |
| 7<br> | Lithium<br>Ion Battery       | 7.4V 7500mAh                     |

Note:

“ ” Standard accessories for STO1000

“1~7” Standard accessories for STO1000 Plus

Optional Accessories

| Model                                                                                         | Product                 | Parameters                                                               |
|-----------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------|
|            | Oscilloscope<br>handbag | Wear-resistant<br>canvas material                                        |
|            | HDMI Cable              | 1.6m                                                                     |
| <br>T3100  | high voltage<br>probe   | Test current range:<br>0.1A-1000A<br>Operation frequency:<br>10Hz-100KHz |
| <br>AC1000 | AC<br>current probe     | Test current range:<br>0.1A-1000A<br>Operation frequency:<br>10Hz-100KHz |

| Model                                                                                          | Product                               | Parameters                                                                        |
|------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------|
| <br>DP10013 | High-voltage<br>differential<br>probe | Bandwidth :100MHz<br>Maximum input differential<br>voltage(DC+AC PK-PK):<br>1300V |
| <br>DP20003 | High-voltage<br>differential<br>probe | Bandwidth :100MHz<br>Maximum input differential<br>voltage(DC+AC PK-PK):<br>5600V |
| <br>CP2100A | AC/DC current<br>probe                | Bandwidth :<br>800KHz<br>Vertical scale:<br>10A/100A                              |
| <br>CP2100B | AC/DC current<br>probe                | Bandwidth :<br>2.5MHz<br>Vertical scale:<br>10A/100A                              |

## Ordering information

### Step 1: Select STO1000 series basic models

| STO1000 family |                                                                                                           |
|----------------|-----------------------------------------------------------------------------------------------------------|
| STO1102C       | Tablet touch digital oscilloscope, 100MHz 2 analog channels, single channel sampling rate 1G Sa/s, 28Mpts |
| STO1152C       | Tablet touch digital oscilloscope, 150MHz 2 analog channels, single channel sampling rate 1G Sa/s, 28Mpts |
| STO1104C       | Tablet touch digital oscilloscope, 100MHz 4 analog channels, single channel sampling rate 1G Sa/s, 28Mpts |
| 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: Optional Software Configurations

| Instrument option |              |                         |
|-------------------|--------------|-------------------------|
| Software option   |              |                         |
| UART              | bus decoding | Suitable for all models |
| SPI               | bus decoding | Suitable for all models |
| I2C               | bus decoding | Suitable for all models |
| CAN               | bus decoding | Suitable for all models |
| LIN               | bus decoding | Suitable for all models |
| 1553B             | bus decoding | Suitable for all models |
| 429               | bus decoding | Suitable for all models |

UART, SPI, I2C, CAN, LIN are standard options for STO1000 plus, optional for STO1000, 1553B and 429 are optional for all models.

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

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