

SHS1000 Handheld Digital Oscilloscope



Application

- Embedded electronic circuit design and test
- Mechanical and electrical products design and analysis
- Manufacturing and circuit function test
- Differential signal analysis
- Floating signal measurements

Key Features

- Combines the functions of oscilloscope, multimeter and recorder in one
- Isolated oscilloscope channels, isolation level: CAT II 1000 V and CAT III 600 V
- 60 MHz/100 MHz bandwidth, 1 G sampling rate, 2 M memory depth, 7 M recording length
- Built-in lithium battery
- 5.7 inch color TFT-LCD

Specification

Model	SHS1102	SHS1062
Bandwidth	100 MHz	60 MHz
Rise time	≤3.5 ns	≤5.8 ns
Real time sampling rate	1 GSa/s	
Equivalent sampling rate	50 GSa/s	
Vertical sensitivity	5 mV – 100 V/div	
Time base range	2.5 ns – 50 ns/div Scan: 100 ms – 50 s/div	5 ns – 50 s/div
Memory depth	2 Mpts	
Triggering	Edge, Pulse, Video, Slope, Alternative	
Vertical resolution	8 bit	
Triggering frequency counter	6 digits	
Data recorder	7 M points	
Trend plot	800 K/CH	
Interface	USB Device, USB Host	
Math operation	+, -, *, /, FFT	

Multimeter Specification

Maximum resolution	6000 Counts	
Item	Range	Accuracy
DC voltage	60 mV	±1%±15 digit
	600 mV – 1000 V	±1%±5 digit
AC voltage	60 mV	±1%±15 digit
	600 mV – 750 V	±1%±5 digit
DC current	60 mA – 600 mA	±1%±5 digit
	6 A – 10 A	±1.5%±5 digit
AC current	60 mA – 600 mA	±1%±5 digit
	6 A – 10 A	±1.5%±5 digit
Capacitance	40 nF	±3%±10 digit
	400 nF – 400 uF	±4%±5 digit
Resistance	600 Ω-60 MΩ	±1%±5 digit
Continuity	<50 Ω Buzzer sounds	
Diode	0 V – 2 V	
Trend plot	1.2 M points	
Measuring mode	Manual/Auto	

Isolation Level

Max input Voltage

Input by input port directly	CATII 300 V
Input by 10: 1 probe	CATII 1000 V, CAT III 600 V
The Max input voltage of Multimeter	DC 1000 V, AC 750 V

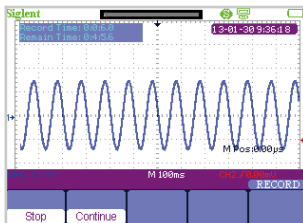
Max floating voltage

Float voltage between BNC reference and earth ground	CATII 1000 V, CAT III 600 V
Float voltage between BNC reference	CATII 1000 V, CAT III 600 V
Float voltage between multimeter reference and earth ground	CATII 600 V, CAT III 300 V

Security: Isolated Handheld Digital Oscilloscope should be designed according to the standard of level II and pollution degree level II which apply to measure 1000 V. Or according to the standard of level III and pollution degree level III which apply to measure 600 V

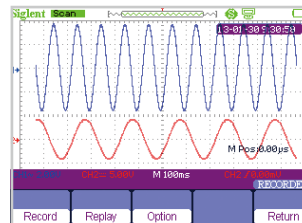
Multimeter Specification

Display	5.7 inch color TFT-LCD, 320*234
Power supply	With battery or apply DC adapter to get power from outside
Power mode	Lithium battery: 7.4 V 4500 mAh, Battery persisting > 4 hours DC adapter: 100-240 V 50/60 Hz input 9 V 4 A output
Net Weight	1.5 Kg
Dimension	259.5 mm*163.2 mm*53.3 mm
Accessories	Two Passive Probes, Multimeter pen, USB data cable, DC adapter, Manual, Toolbox



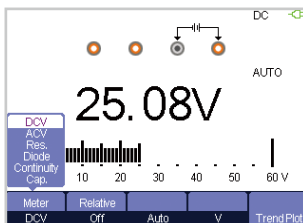
High-performance oscilloscope

- Bandwidth: 100 MHz, 60 MHz
- Real-time sampling rate: 1 GSa/s
- Memory depth: 2 Mpts.



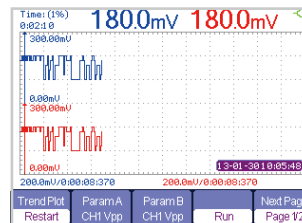
Data recorder function

- 7 M internal storage, up to 18 hours recording time
- USB port, up to 3000 hours recording time
- Record, replay function supported



High precision multimeter

- 6000 counts display
- Accurate measurement of DCV, ACV, DCI, ACI
- Accurate measurement of Resistance, Diode, Capacitance, Continuity



Trend Plot

- 32 measurement trend plot analyzer
- Scope: 800 k/CH points capacity, more than 24 hours recording
- Meter: 1.2 M points capacity 6000 hours recording time at 0.05 Sa/s

