

T3DS0H1000/T3DS0H1000-IS0

Handheld Oscilloscope

100 MHz/200 MHz, Isolated, CAT III Dedicated 6000 Count DMM Data logger 1 Sa/s to 25 kSa/s



Multifunctional tool suitable for harsh environments

 1000-ISO series offers two independent floating isolated inputs. 	Ideal for simultaneous measurement of independently floating signals and to reduce accidental short circuits.
 Large bright 5.6-inch TFT -LCD display with 640 * 480 resolution. 	Large bright display makes it easy to view data in the field.
 IP51 rated dust and drip-proof housing. 	Safety rated for industrial environments.
• Long Capture – 6 Mpts/Ch and 12 Mpts interleaved.	Capture more time and show more waveform detail.
 True-RMS measurements – All AC Voltage and Current ranges give True-RMS readings. 	Excellent accuracy regardless of the waveform shape.
 Serial Bus Decoders for I²C, SPI, UART, CAN, LIN as standard. 	Debug serial buses directly in your Oscilloscope at no extra cost.
3 Years Warranty as standard.	Reliable product gives peace of mind.

The Teledyne Test Tools DSOH1000 and DSOH1000-ISO handheld oscilloscopes integrate oscilloscope, recorder and multimeter functions into a convenient and portable design. Weighing only 1.7 kg (3.8 lb), the battery-powered DSOH series can be used for field testing, automotive, R&D, and industrial maintenance.

Superb Performance

- 100 MHz and 200 MHz Bandwidth models
- Max Sample rate of 1 GSa/s
- Waveform capture rates up to 100,000 wfm/s
- Vertical range of 2 mV/div to 100 V/div
- Up to 12 Mpts of Acquisition memory
- Sequence acquisition mode (up to 80,000 segments)
- History waveform record (History) function with up to 80,000 frames
- 38 Automatic measurement parameters
- Supports 256-level intensity grading and color temperature display modes
- Intelligent trigger: Edge, Slope, Pulse Width, Window, Runt, Interval, Time out (dropout), Pattern
- Serial bus triggering and decoding (Standard) for IIC, SPI, UART, CAN and LIN protocols
- Video trigger/HDTV



Robust design

- UL2054 certified lithium battery pack, 6900 mAh capacity, external charger
- Sealed IP51 dust and drip-proof housing
- Rubberized surface with large keys makes it easy to use with gloves

Excellent connectivity

- Interface types: Isolated USB Host, USB Device (MicroUSB – TMC)
- Supports SCPI remote control commands

True RMS Digital Multimeter

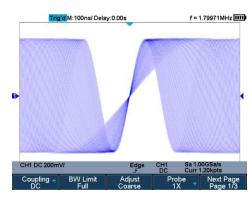
- CAT III 600V/CAT II 1000V rated isolated inputs
- 6000 counts Digital Multimeter supports DCV, ACV, DCI, ACI, Resistance, Diode, Capacitance, Continuity test.
- True RMS AC Voltage/Current measurement multimeter
- Included current adaptors helps in current measurement up to 10 A

2 3

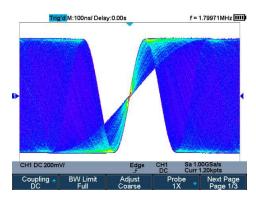
^{*} Isolated channel is only available on T3DSOH1000-ISO Series

FUNCTIONS & CHARACTERISTICS

256-Level Intensity Grading and Color Temperature Display

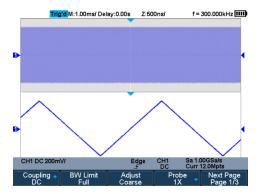


SPO display technology provides fast refresh rates. The resulting intensity-graded trace is brighter for events that occur with more frequency and dims when the events occur with less frequency.



The color temperature display is similar to the intensity-graded trace function, but the trace occurrence is represented by different colors (color "temperature") as opposed to changes in the intensity of one color. Red colors represent events that occur more frequently, while blue is used to mark points that occur less frequently.

2 Record Length of up to 12 Mpts



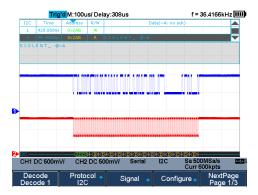
Using hardware-based Zoom technologies and max record length up to 12 Mpts, users can oversample to capture for longer periods at higher resolution and use the zoom feature to see more details within each signal.

3 Waveform Capture Rate up to 400,000 wfm/s



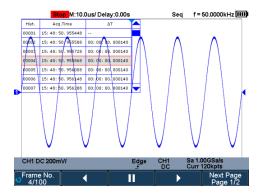
With a waveform capture rate of up to 400,000 wfm/s (sequence mode), the oscilloscope can easily capture unusual or low-probability events.

4 Serial Bus Decoding Function



The T3DSOH displays the decoding through the events list. Bus protocol information can be quickly and intuitively displayed in a tabular format.

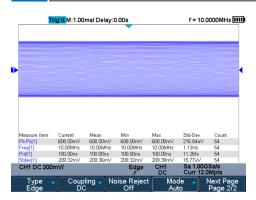
History Waveforms (History) Mode and Segmented Acquisition (Sequence)



Playback the latest triggered events using the history function. Segmented memory collection will store trigger events into multiple (Up to 80,000) memory segments, each segment will store triggered waveforms and timestamps for each frame.

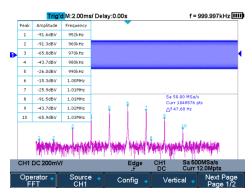
FUNCTIONS & CHARACTERISTICS

6 True measurement to 12 M points



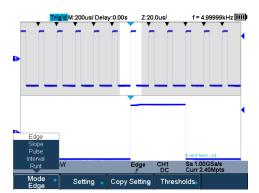
The T3DSOH series can measure all sampled data points up to 12 Mpts. This ensures the accuracy of measurements while the math co-processor decreases measurement time and increases ease-of-use.

8 1 M points used to calculate the FFT



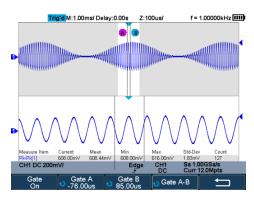
The new math co-processor enables FFT analysis of incoming signals using up to 1 M samples per waveform. This provides high-frequency resolution with a fast refresh rate. The FFT function also supports a variety of window functions so that it can adapt to different spectrum measurement needs. Support Peaks, Markers, a variety of numbers.

10 Search and Navigate



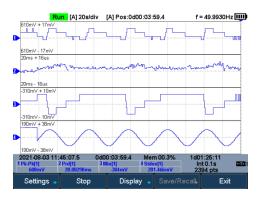
The T3DSOH series can search events specified by the user in a frame. It can also navigate by time (delay position) and historical frames.

7 Gate and Zoom Measurement



Through Gate and Zoom measurement, the user can specify an arbitrary interval of waveform data analysis and statistics. This helps avoid measurement errors that can be caused by invalid or extraneous data, greatly enhancing the measurements' validity and flexibility.

9 Measurement Logger



The measurement Logger is the mode of logging the measurement value for a long time. If the amount of measurement data is relatively small, to process quickly, the data is logged in memory. After stopping logging, the data can be saved into the internal flash or external U disk.

11 6000 Counts Digital Multimeter

HOLD DC MANUAL



6000 count digital multimeter featured function of DCV, true RMS ACV, DCI, ACI, Diode, Resistance, Capacitance, and Continuity.

FUNCTIONS & CHARACTERISTICS

12 Adapter/Battery



Wall power using the supplied adapter

T3DSOH supports adapter power supply and battery power supply. After connecting the adapter, the battery enters into charging mode. The adapter provides a maximum 4 A output current.





Battery powered

T3DSOH uses a UL2054 certified lithium battery package. The battery capacity of 6900 mAh can guarantee long-term operation without an external power supply for up-to 5.5 hours (T3DSOH1000 series) and 4 hours (T3DSOH1000-ISO series). The battery supports an external charger to further meet the requirements of portability.

13 Connectivity



Right side of the T3DSOH series

T3DSOH supports USB Host, USB Device (Micro USB – TMC).



Left side of the T3DSOH series

OSCILLOSCOPE

Model	T3DSOH1000	T3DS0H1000-IS0		
Acquisition System				
Sampling Rate (Max.)	1 GSa/s (single channel), 500 MSa/s (two chan	nnels)		
Memory Depth (Max.)	Max 12 Mpts/Ch (single channel), 6 Mpts/Ch (two channels)			
Peak Detect	2 ns	,		
Average	Averages: 4, 16, 32, 64, 128, 256, 512, 1024			
ERES	Enhance bits: 0.5, 1.5, 2, 2.5, 3			
Waveform interpolation	Sin(x)/x, Linear			
Input				
Channels	2 channels			
Coupling	DC, AC, GND			
mpedance	DC: (1 MΩ ±2 %) (14 pF ±2 pF)	DC: (1 M Ω ±2 %) (14 pF ±2 pF)		
Max. Input voltage ¹⁾	CAT II 300 Vrms Between BNC Signal and Protecting Earth CAT II 30 Vrms Between BNC GND and Protecting Earth CAT II 300 Vrms Between BNC Signal and BNC GND	CAT III 600 Vrms, CAT II 1000 Vrms Between BNC Signal and Protecting Earth CAT III 600 Vrms, CAT II 1000 Vrms Between BNC GND and Protecting Earth CAT III 300 Vrms Between BNC Signal and BNC GND		
CH to CH Isolation	DC-Max BW: >40 dB			
Probe attenuation	0.1X, 0.2X, 0.5X, 1X, 2X, 5X, 10X1000X, 2000X, 5000X, 10000X, Custom			
Vertical System				
Bandwidth (-3 dB) ²⁾	≥ 200 MHz (T3DS01202)	≥ 200 MHz (T3DS01202-IS0)		
()	≥ 100 MHz (T3DS01102)	≥ 100 MHz (T3DS01102-IS0)		
/ertical Resolution	8-bit			
/ertical Scale (Probe 1X)	2 mV/div-100 V/div (1-2-5 sequence) 5 mV/div-100 V/div (1-2-5 sequence)			
Offset Range (Probe 1X)	2 mV - 296 mV: ±5 V 302 mV - 7.5 V: ±80 V 7.6 V - 100 V: ±400 V			
Bandwidth limit ²⁾	20 MHz ± 40 %			
Bandwidth Flatness ²⁾	DC - 10 % (BW): ± 1 dB 10 % - 50 % (BW): ± 2 dB 50 % - 100 % (BW): + 2 dB/-3 dB			
_ow-frequency response (AC coupling -3 dB)	≤ 2 Hz (at input BNC)			
Noise/SNR	2 mV/div: > 24 dB 5 mV/div: > 25 dB ≥ 10 mV/div: > 35 dB P-P Noise ≤ 15 SDEV Spec			
SFDR including harmonics	≥ 30 dB	≥ 28 dB		
CMRR		> 100 dB DC > 50 dB to AC 1 MHz		
DC Gain Accuracy	≤ ± 3 %: ≥ 10 mV/div ≤ ± 4 %: < 10 mV/div			
Offset Accuracy	± (1.5 % * Offset + 1.5 % * 8 * div + 5 mV)	± (1.5 % * Offset + 1.5 % * 8 * div + 5 mV)		
Rise time ²⁾	Typical 1.7 ns (T3DS01202) Typical 3.5 ns (T3DS01102) Typical 3.5 ns (T3DS01102) Typical 3.5 ns (T3DS01102)			
Overshoot (500 ps Pulse) ²⁾	typical 12 %	typical 18 %		

¹⁾ According to IEC61010-1, a voltage higher than 30 Vrms is a dangerous voltage, necessary protection must be taken to prevent personal injury. Please read the user's manual for details.

²⁾ The T3DSOH series handheld oscilloscope featured 1 M Ω input impedance. Bandwidth and pulse response must be verified with an external 50 Ω adapter, to guarantee signal integrity at higher frequency.

Horizontal System

Timebase Scale	1.0 ns/div – 100 s/div
Channel Skew	< 300 ps
Waveform Capture Rate	Up to 100,000 wfm/s (normal mode), 400,000 wfm/s (sequence mode)
Intensity grading	256 Levels
Display Format	Y-T, X-Y, Roll
Timebase Accuracy	±25 ppm
Roll Mode	50 ms/div-100 s/div (1-2-5 sequence)
Trigger System	

Trigger System		
Mode	Auto, Normal, Single	
Level	Internal: ±4.5 div from the center of the screen	
Hold off range	80 ns - 1.5 s	
Coupling	AC DC LFRJ HFRJ Noise RJ	
Coupling Frequency Response	DC: Passes all components of the signal AC: Blocks DC components and attenuates signals below 8 Hz LFRJ: Blocks the DC component and attenuates the low-frequency components below 2 MHz HFRJ: Attenuates the high-frequency components above 1.2 MHz	
Accuracy (typical)	Internal: ± 0.2 div	
Sensitivity	DC - Max BW: 0.8 div	
Jitter	< 100 ps	
Displacement	Pre-Trigger: 0 – 100 % Memory Delay Trigger: 0 to 10,000 div	
Edge Trigger		
Slope	Rising, Falling, Rising & Falling	
Source	All channels	
Slope Trigger		
Slope	Rising, Falling	
Limit Range	<, >, < >, > <	
Source	All channels	
Time Range	2 ns - 4.2 s	
Resolution	1 ns	
Pulse Width Trigger		
Polarity	+wid,-wid	
Limit Range	<,>,<>,><	
Source	All channels	
Pulse Range	2 ns - 4.2 s	
Resolution	1 ns	
Video Trigger		
Signal Standard	NTSC, PAL, 720p / 50, 720p / 60, 1080p / 50,1080p / 60,1080i / 50,1080i / 60, Custom	
Source	All channels	
Sync	Any, Select	
Trigger condition	Line, Field	
Window Trigger		
Window Type	Absolute, Relative	
Source	All channels	
Interval Trigger		
Slope	Rising, Falling	
Limit Range	<, >, < >, > <	
Source	All channels	
Time Range	2 ns - 4.2 s	
Resolution	1 ns	

Dropout Trigger			
Timeout Type	Edge, State		
Source	All channels		
Slope	Rising, Falling		
Time Range	2 ns - 4.2 s		
Resolution	1 ns		
Runt Trigger			
Polarity	+wid,-wid		
Limit Range	<,>,<>,><		
Source	All channels		
Time Range	2 ns - 4.2 s		
Resolution	1 ns		
Pattern Trigger			
Pattern Setting	Invalid, Low, High		
Logic	AND, OR, NAND, NOR		
Source	All channels		
Limit Range			
Time Range	<, >, < >, > < 2 ns - 4.2 s		
Resolution	1 ns		
Resolution	I IIS		
Serial Trigger			
I ² C Trigger			
Condition	Start, Stop, Restart, No Ack, EEPROM, 7-bits Address & Data, 10-bits Address & Data, Data Length		
Source(SDA/SCL)	All channels		
Data format	Hex		
Limit Range	EEPROM: =, >, <		
Data Length	EEPROM: 1 byte Addr & Data: 1–2 byte Data Length: 1–12 byte		
R/W bit	Addr & Data: Read, Write, Do not care		
SPI Trigger			
Condition	Data		
Source(CS/CL/Data)	All channels		
Data format	Binary		
Data Length	4-96-bit		
Bit Value	0, 1, X		
Bit Order	LSB, MSB		
UART Trigger			
Condition	Start, Stop, Data, Parity Error		
Source(RX/TX)	All channels		
Data format	Hex		
Limit Range	=, >, <		
Data Length	1 byte		
Data Width	5, 6, 7, 8-bits		
Parity Check	None, Odd, Even, Space, Mark		
Stop Bit	1, 1.5, 2-bits		
Idle Level	High, Low		
Baud Rate (Selectable)	600 / 1200 / 2400 / 4800 / 960019200 / 38400 / 57600 / 115200 / Custom bit/s		
Baud Rate (Selectable)	300 - 5000000 bit/s		
Daud Hate (Custoff)	300 3000000 bit/s		

CAN Trigger			
Condition	Start, Remote, ID, ID + Data, Error		
Source	All channels		
ID	STD (11-bits), EXT (29-bit)		
Data Format	Hex		
Data Length	1–2 byte		
Baud Rate	5 k / 10 k / 20 k / 50 k / 100 k / 125 k / 250 k / 500 k / 800 k / 1 M / Custom bit/s		
LIN Trigger	0 K / 10 K / 20 K / 100 K / 120 K / 200 K / 000 K / 1 M / 000 K		
Condition	Break, Frame ID, ID + Data, Error		
Source	All channels		
ID	1 byte		
Data Format	Hex		
Data Length	1–2 byte		
Baud Rate (Selectable)	600 / 1200 / 2400 / 4800 / 9600 / 19200 / Custom bit/s		
Baud Rate (Custom)	300 bit/s - 20 Mbit/s		
	20 11/0 20 11/0		
Search			
Event	Edge, Slope, Pulse, Interval, Runt		
Event Number	Y-T: 600		
	ROLL: No limitation Stop After ROLL: 600		
	Stop Arter Holl. 000		
Serial Decoder			
Decoders	2		
I ² C			
Signal	SCL, SDA		
Address	7, 10 bits		
Threshold	-4.5 – 4.5 div		
List	1–7 lines		
SPI			
Signal	SCL, MISO, MOSI, CS (2 channel scopes can only use 2 signal) identifiers		
Edge Select	Rising, Falling		
Idle Level	Low, High		
Bit Order	MSB, LSB		
Threshold	-4.5 – 4.5 div		
List	1–7 lines		
UART			
Signal	RX, TX		
Data Width	5, 6, 7, 8 bits		
Parity Check	None, Odd, Even, Space, Mark		
Stop Bit	1, 1.5, 2 bits		
Idle Level	Low, High		
Threshold	-4.5 – 4.5 div		
List	1–7 lines		
CAN			
Signal	CAN_H, CAN_L		
Source	CAN_H, CAN_L, CAN_H-CAN_L		
Threshold	-4.5 — 4.5 div		
List	1–7 lines		
LIN			
LIN Specification Package Revision	Ver1.3, Ver2.0		
Threshold	-4.5 – 4.5 div		
List	1–7 lines		

Measurement

Source	All channels.	All channels in Zoom, Math, All References, History		
Number of Measurements	Display 4 measurements at the same time. 5 measurements are displayed in the statistics table.			
Measurement Range	Screen or Gate region			
Measurement Parameters	38 Types			
Vertical	Max	Highest value in input waveform		
	Min	The lowest value of the input waveform		
	Pk-Pk	Difference between maximum and minimum data values		
	Ampl	Difference between top and base in a bimodal signal, or between max and min		
	· 	in a unimodal signal		
	Тор	Value of most probable higher state in a bimodal waveform		
	Base	Value of most probable lower state in a bimodal waveform		
	Mean	Average of all data values		
	Cmean	Average of data values in the first cycle		
	Stdev	Standard deviation of all data values		
	Cstd	Standard deviation of all data values in the first cycle		
	VRMS	Root mean square of all data values		
	Crms	Root mean square of all data values in the first cycle		
	FOV	Overshoot after a falling edge; (base – min)/Amplitude		
	FPRE	Overshoot before a falling edge; (max – top)/Amplitude		
	ROV	Overshoot after a rising edge; (max – top)/Amplitude		
	RPRE	Overshoot before a rising edge; (base – min)/Amplitude		
	Level@X	the voltage value of the trigger point		
lorizontal	Period	Time between the middle threshold points of two consecutive, like-polarity edge		
	Freq	Reciprocal of period		
	+Wid			
	-Wid	Width measured at 50 % level and negative slope		
	Rise Time	Duration of rising edge from 10−90 %		
	Fall Time	Duration of falling edge from 90-10 %		
	Bwid	Time from the first rising edge to the last falling edge, or the first falling edge to the last rising edge at the 50 % crossing		
	+Duty	Time difference between the 50 % threshold of a rising edge to the 50 % threshol of the next falling edge of the pulse		
	-Duty	Time difference between the 50% threshold of a falling edge to the 50% threshold of the next rising edge of the pulse		
	Delay	Time from the trigger to the first transition at the 50 % crossing		
	Time@Level	Time from the trigger to each rising edge at the 50 % crossing. When Statistics is Off, it shows the time from the trigger to the last rising edge at the 50 % crossing. When Statistics is On, it shows the Mean, Min, Max, Standard Deviation of time from the trigger to each rising edge at the 50 % crossing in multiple frames (number = Count). The Current shows the time of the current frame from the trigger to the last rising edge at the 50 % crossing.		
Delay	Phase	Phase difference between two edges		
Dolay	FRFR	Time from the first rising edge of channel A to the following first rising edge of channel B		
	FRFF	Time from the first rising edge of channel A to the following first falling edge of channel B		
	FFFR	Time from the first falling edge of channel A to the following first rising edge of channel B		
	FFFF	Time from the first falling edge of channel A to the following first falling edge of channel B		
	FRLR	Time from the first rising edge of channel A to the last rising edge of channel B		
	FRLF	Time from the first rising edge of channel A to the last falling edge of channel B		
	FFLR	Time from the first falling edge of channel A to the last rising edge of channel B		
	FFLF	Time from the first falling edge of channel A to the last falling edge of channel B		
	Skew	Time of source A edge minus time of nearest source B edge		

Cursors	Manual: Time X1, X2, (X			
	Voltage Y1, Y2, (Y1-Y2) Track: Time X1, X2, (X			
Statistics	Current, Mean, Min, Max	•		
Counter		er (channels are selectable)		
	Tialdware 0-digit counte	er (crianineis are selectable)		
Math				
Operation	+, -, *, /, FFT, d/dt, ∫dt, √			
FFT window	Rectangular, Blackman, Hanning, Hamming, Flattop			
FFT display	Full Screen, Split, Exclusive			
Recorder				
Sample Logger				
Source	CH1, CH2, CH1 & CH2			
Sample Rate	1 Sa/s - 25 kSa/s (1-2-	5 sequence)		
Memory Depth	Internal memory 50 MB,	, Support External memory to 2	2 GB	
Log Time with Max sample rate			vo-channels mode with internal memory	
		le-channel mode, 11 hours in	two-channel mode with external memory	
Data Format	Binary			
Measurement Logger				
Source	Measurement, Meter, M	easurement & Meter		
Log Interval	0.1 s - 10min			
Number of simultaneous logging channels	4			
Memory Depth	Approx.3.6 Msamples in	single-channel mode, 900 ks	amples in four-channel mode	
Log Time with Minimum Interval	Approx.100 hours			
Data Format	Binary			
Export Data Format	Binary, csv, MATLAB			
Multimeter (DMM) 1)				
Maximum Resolution	6000 Counts			
Maximum Input Voltage	CAT III 300 Vrms			
(T3DS0H1000)	CAT II 600 Vrms			
Maximum Input Voltage (T3DSOH1000-ISO)	CAT III 600 Vrms CAT II 1000 Vrms			
Maximum Input Voltage (For adapter SCD10A, SCD600MA)	CAT III 60 Vrms			
Function	Range	Resolution	Accuracy ⁴⁾	
DC Voltage	60.00 mV	10 μV	(± 1 % ± 15 digit)	
	600.0 mV	100 μV		
	6.000 V	1 mV	(± 1 % ± 5 digit)	
	60.00 V	10 mV	(= 1 10 = 0 digity	
	600.0 V	100 mV		
	1000 V ³⁾	1 V	(± 1.5 % ± 5 digit)	
AC Voltage	60.00 mV	10 μV	(± 1 % ± 15 digit)	
(45 Hz 400 Hz)	600.0 mV	100 μV		
	6.000 V	1 mV	(±1 % ± 5 digit)	
	60.00 V	10 mV		
	600.0 V	100 mV	(
. 0 5	750 V ³⁾	1 V	(± 1.5 % ± 5 digit)	
DC Current ^{2) 5)}	60.00 mA	10 μΑ	(± 4 % ± 10 digit)	
	600.0 mA	100 μΑ	(augity	
	6.000 A	1 mA	(± 5 % ± 5 digit)	
	10.00 A	10 mA	(= 0 .0 = 0 digit)	

¹⁾ The spec for DMM functions are calibrated and verified in Battery-Power mode, Temperature range [23 °C ± 5 °C], warm-up for 0.5 hour.
2) For rank A (ampere) range, the measurement time should be less than 10s, the interval time should be more than 15 minutes.
3) This spec is for T3DS01000-ISO only, The maximum input voltage is 600V (DC/AC) for the T3DS01000 series.
4) ± of reading % ± range error. For AC signals, the input signal should be greater than 10 % of range.
5) 60 mA, 600 mA specification along with adapter SCD600MA; 6 A, 10 A specification along with adapter SCD10A.

Function	Range	Resolution	Accuracy ⁴⁾	
AC Current 2) 5)	60.00 mA	10 μΑ	(± 4 % ± 10 digit)	
(45 Hz – 400Hz)	600.0 mA	100 μΑ	(± 4 % ± 10 digit)	
	6.000 A	1 mA	(± 5 % ± 5 digit)	
	10.00 A	10 mA	(± 5 % ± 5 digit)	
Resistance	600.0 Ω	0.1 Ω		
	6.000 kΩ	1 Ω		
	60.00 kΩ	10 Ω	(± 1 % ± 5 digit)	
	600.0 kΩ	100 Ω		
	6.000 ΜΩ	1 kΩ		
	60.00 ΜΩ	10 kΩ	(± 4 % ± 5 digit)	
Capacitance	40.00 nF	0.01 nF	(± 5 % ± 50 digit)	
	400.0 nF	0.1 nF		
	4.000 μF	1 nF	(LEO(LE digit)	
	40.00 μF	10 nF	(± 5 % ± 5 digit)	
	400.0 μF	100 nF		
Diode	0 ~ 2 V			
Continuity	Continuous beep whe	n resistance < 50 Ω		
1/0				
USB Host	1 port, isolated type A	plug, Full/Low speed, memory st	icks only	
USB device	1 port, Micro USB-B, r		,	
Probe compensation output	1 kHz, 0 ~ 5 V Square	1 kHz, 0 ~ 5 V Square wave output		
Display (Screen)		·		
Display Type	5.6-inch TFT LCD			
Display Resolution	640 × 480 pixels			
Display Color	24-bit			
Contrast(Typical)	500:1			
Backlight	200 nits			
Display (Waveform)				
Range	8 x 12 divisions			
Display Mode	Dot, Vector			
Persist Time	Off, 1 Sec, 5 Sec, 10 S	ec 30 Sec Infinite		
Color Display	Normal, Color	co, oo oco, iiiiiiite		
Screen Saver	1 min, 5 min, 10 min, 3	30 min 1 hour Off		
Language			Jananese Korean German Spain	
Language	Simplified Chinese, Traditional Chinese, English, French, Japanese, Korean, German, Spain, Russian, Italian, Portuguese			
Environmental				
Temperature	Operating: 0 °C - +40 °C Non-operating: -20 °C - +60 °C			
Humidity	Operating: 85 % RH, 40 °C, 24 hours Non-operating: 85 % RH, 65 °C, 24 hours			
Height	Operating: ≤ 200 Non-operating: ≤ 500	0 m		

 $^{^{1)}}$ The spec for DMM functions are calibrated and verified in Battery-Power mode, Temperature range [23 °C ± 5 °C], warm-up for 0.5 hour.

²⁾ For rank A (ampere) range, the measurement time should be less than 10s, the interval time should be more than 15 minutes.

³⁾ This spec is for T3DS01000-ISO only, The maximum input voltage is 600V (DC/AC) for the T3DS01000 series.

^{4) ±} of reading % ± range error. For AC signals, the input signal should be greater than 10 % of range.
5) 60 mA, 600 mA specification along with adapter SCD600MA; 6 A, 10 A specification along with adapter SCD10A.

Standards

Electromagnetic compatibility		Meets EMC directive (2014/30/EU), meets or exceeds IEC 61326-1:2012/EN61326-1:2013 (Basic)			
	Conducted disturbance	CISPR 11/EN 55011	CLASS A group 1, 150 kHz – 30 MHz		
	Radiated disturbance	CISPR 11/EN 55011	CLASS A group 1, 30 MHz – 1 GHz		
	Electrostatic discharge (ESD)	IEC 61000-4-2/EN 61000-4-2	4.0 kV (Contact), 8.0 kV (Air)		
	Radio-frequency electro- magnetic field Immunity	IEC 61000-4-3/EN 61000-4-3	10 V/m (80 MHz to 1 GHz); 3 V/m (1.4 GHz to 2 GHz); 1 V/m (2.0 GHz to 2.7 GHz)		
	Electrical fast transients (EFT)	IEC 61000-4-4/EN 61000-4-4	2 kV (Input AC Power Ports)		
	Surges	IEC 61000-4-5/EN 61000-4-5	1 kV (Line to line)		
	Radio-frequency continuous conducted Immunity	IEC 61000-4-6/EN 61000-4-6	3 V, 0.15 – 80 MHz		
	Voltage dips and interruptions	IEC 61000-4-11/EN 61000-4-11	Voltage Dips: 0 % UT during 1 cycle 40 % UT during 10/12 cycles 70 % UT during 25/30 cycles Voltage interruptions: 0 % UT during 250/300 cycles		
Safety	UL 61010-1:2012/R:2018-11; CAN/CSA-C22.2 No. 61010-1:2012/A1:2018-11. UL 61010-2-030:2018; CAN/CSA-C22.2 No. 61010-2-030:2018. UL 61010-2-033:2020.				

Power Supply/Battery

Model	T3DS0H1000	T3DS0H1000-IS0		
Power Adapter				
Input	100 ~ 240 Vrms 50/60 Hz, 1.2 A	100 ~ 240 Vrms 50/60 Hz, 1.1 A		
Output	9 V, 4 A	12 V, 4 A		
Battery				
Operating time	5.5 hours	4 hours		
Charging time	4 hours while the instrument is switched off	4 hours while the instrument is switched off		
Capacity	6900 mAh	6900 mAh		
Charging Protection	≥ 55 °C at Battery	≥ 55 °C at Battery		
Power Consumption				
Battery Mode	9 W	11 W		
Mechanical				
IP Rating	IP51			
Dimensions	Length: 276 mm Width: 168 mm Height (Depth): 68 mm			
Weight with Battery	Without package 1.75 Kg, With package 3.5 Kg	Without package 1.75 Kg, With package 3.5 Kg		

ORDERING INFORMATION

T2DC0H1202	200 MILIZ	
13DS0H1102	100 MHz	
T3DSOH1202-ISO	200 MHz	Isolated Input
T3DS0H1102-IS0	100 MHz	Isolated Input
USB Cable		1
Quick Start		1
Multimeter Test Lea	d	2
Certification		1
Power Adapter		1
Battery		1
SCD600MA Current	Measurement	Adapter 1
SCD10A Current Me	asurement Ada	apter 1
Carrying Bag		1
T3DSOH1102	2 x PP510	(100 MHz, 1X/10X, 1 MΩ/10 MΩ, 1X CATII 150V, 10X CATII 300 V)
T3DSOH1202	2 x PP215	(200 MHz, 1X/10X, 1 MΩ/10 MΩ, 1X CATII 150V, 10X CATII 300 V)
T3DSOH1102-ISO	2 x PB925	(Staubli 68.9871-12028) (250 MHz, 10X Fixed, 10 MΩ, CATIII 600 V, CATII 1000V)
T3DS0H1202-IS0	2 x PB925	(Staubli 68.9871-12028) (250 MHz, 10X Fixed, 10 MΩ, CATIII 600 V, CATII 1000V)
T3DS0H1102	PP020-1	(500 MHz, 10X Fixed, 10 MΩ, CATII 400 V)
T3DS0H1202	PP020-1	(500 MHz, 10X Fixed, 10 MΩ, CATII 400 V)
T3DS0H1102-IS0	PB925	(Staubli 68.9871-12028) (250 MHz, 10X Fixed, 10 MΩ,
		CATIII 600 V, CATII 1000 V)
T3DS0H1202-IS0	PB925	(Staubli 68.9871-12028) (250 MHz, 10X Fixed, 10 MΩ,
		CATIII 600 V, CATII 1000 V)
	T3DSOH1102-ISO USB Cable Quick Start Multimeter Test Lea Certification Power Adapter Battery SCD600MA Current SCD10A Current Me Carrying Bag T3DSOH1102 T3DSOH1202 T3DSOH1202-ISO T3DSOH1202-ISO T3DSOH1102 T3DSOH1102 T3DSOH1202 T3DSOH1202	T3DSOH1102 100 MHz T3DSOH1202-ISO 200 MHz T3DSOH1102-ISO 100 MHz USB Cable Quick Start Multimeter Test Lead Certification Power Adapter Battery SCD600MA Current Measurement Ada Carrying Bag T3DSOH1102 2 x PP510 T3DSOH1202 2 x PP215 T3DSOH1102-ISO 2 x PB925 T3DSOH1202-ISO 2 x PB925 T3DSOH1102 PP020-1 T3DSOH1202 PP020-1 T3DSOH1202 PP020-1 T3DSOH1102-ISO PB925

Warranty: 3 Years return to Teledyne LeCroy.

ABOUT TELEDYNE TEST TOOLS



Company Profile

Teledyne LeCroy is a leading provider of oscilloscopes, protocol analyzers and related test and measurement solutions that enable companies across a wide range of industries to design and test electronic devices of all types. Since our founding in 1964, we have focused on creating products that improve productivity by helping engineers resolve design issues faster and more effectively. Oscilloscopes are tools used by designers and engineers to measure and analyze complex electronic signals in order to develop high-performance systems and to validate electronic designs in order to improve time to market.

The Teledyne Test Tools brand extends the Teledyne LeCroy product portfolio with a comprehensive range of test equipment solutions. This new range of products delivers a broad range of quality test solutions that enable engineers to rapidly validate product and design and reduce time-to-market. Designers, engineers and educators rely on Teledyne Test Tools solutions to meet their most challenging needs for testing, education and electronics validation.

Location and Facilities

Headquartered in Chestnut Ridge, New York, Teledyne Test Tools and Teledyne LeCroy has sales, service and development subsidiaries in the US and throughout Europe and Asia. Teledyne Test Tools and Teledyne LeCroy products are employed across a wide variety of industries, including semiconductor, computer, consumer electronics, education, military/aerospace, automotive/industrial, and telecommunications.

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