

T3DSO3000 Data Sheet

Oscilloscopes

Debug with Confidence

200 MHz - 1 GHz



Tools for Improved Debugging

- Long Capture 125 Mpts/Ch and 250 Mpts interleaved.
 Capture more time and show more waveform detail.
- Math and Measure 9 basic math functions plus FFT, and 50+ automatic measurement parameters.
- Extract results from waveforms and measurements.
- Connectivity USB for mass storage, printing and PC control, plus LAN for fast data transfer.
- Save data for external analysis and screen images for reports.
- Includes Serial Bus Decoders for I²C, SPI, UART, CAN, LIN, CAN FD, I²S, MIL-1553B, FlexRay, SENT & Manchester.
- Debug serial buses directly in your Oscilloscope.
- Waveform Sequence Recorder record and play back up to 100,000 waveforms.
- Replaythe changing waveform history.
- Includes Bode Plot and Power Analysis applications as standard.
- Common applications coverage as standard.
- · Optional 16 Channel mixed signal capability.
- Add mixed signal debugging in your Oscilloscope.

Key Specifications

Bandwidth	200 MHz, 350 MHz, 500 MHz, 1 GHz
Channels	4, 50 Ohm / 1 MOhm Input Impedance
Memory	125 Mpts/Ch (250 Mpts interleaved)
Sample Rate	up to 5 GS/s (Interleaved)
Display	Large 10.1" Bright TFT LCD (1024 x 600)
Connectivity	USB Host, USB Device, LAN
Warranty	3 Years

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PRODUCT OVERVIEW

T3DSO3204: 4 Channel 200 MHz

T3DSO3354: 4 Channel 350 MHz

T3DSO3504: 4 Channel 500 MHz

T3DSO31004: 4 Channel 1 GHz

Teledyne Test Tools new T3DSO3000 Oscilloscopes feature four channel models with analog bandwidth options from 200 MHz to 1 GHz. Each model offers a maximum sample rate of 5 GSa/s, and a maximum memory depth of 250 Mpts in half channel mode. All models incorporate two 5 GSa/s ADCs and two 250 Mpts memory modules. When all channels are enabled, each channel has sample rate of 2.5 GSa/s and a standard record length of 125 Mpts. When only a single channel per ADC is active, the maximum sample rate is 5 GSa/s and the maximum record length is 250 Mpts. For ease-of-use, the most commonly used functions can be accessed with its user-friendly front panel design.

The T3DSO3000 series employs a new generation of high speed display technology that provides excellent Signal clarity, fidelity and performance. It comes with a minimum vertical input range of 500 μ V/div, an innovative digital trigger system with high sensitivity low jitter, and a waveform capture rate of 500,000 waveforms/sec (sequence mode). The T3DSO3000 also employs a 256-level intensity grading display function and a color temperature display mode which complement the high speed update rate. Teledyne Test Tools latest oscilloscope offering supports multiple powerful triggering modes including serial bus triggering of I2C, SPI, UART, CAN, LIN, CAN FD, I2S, FlexRay. MIL-STD-1553B, SENT and Manchester protocols are

supported as decode only (no protocol specific triggering). Serial bus support is included as standard in all the T3DSO3000 models. The T3DSO3000 oscilloscope range also include History waveform recording, Sequence acquisition, Search and Navigate, Bode Plot and Power Analysis functions, as well as user upgradeable options to add a 25 MHz function / arbitrary waveform generator and 16 channel MSO capability. The new digital oscilloscope architecture also includes a hardware co-processor that delivers measurements quickly and accurately without slowing acquisition and front-panel response. The features and performance of Teledyne Test Tools new T3DSO3000 oscilloscopes offer outstanding value for money.

Key Features

- 200 MHz, 350 MHz, 500 MHz and 1GHz bandwidth models
- Real-time sampling rate up to 5 Gsa/s
- New generation of high speed display technology
 - Waveform capture rate up to 120,000 wfm/s (normal mode), and 500,000 wfm/s (sequence mode)
 - Supports 256-level intensity grading and color display modes Record length up to 250 Mpts
 - Record length up to 250 Mpts
- Digital intelligent trigger system: Edge, Slope, Pulse Width, Window, Runt, Interval, Dropout, Pattern, Qualified, Serial and Video
- Zone trigger: Up to 2 zones with user defined 'intersect' / 'not intersect' events.
- Video trigger, supporting HDTV

- Standard serial bus triggering and decoding, supports protocols I²C, SPI, UART, CAN, LIN, CAN FD, FlexRay, I²S.
- Decode only for MIL-STD-1553B, SENT and Manchester (use standard oscilloscope trigger functionality).
- Low background noise with voltage scales from 500 μ V/div to 10 V/div.
- Abundant data analysis functions such as Search, Navigate, Digital Voltmeter, Counter, Measurement and Waveform Histograms, Bode plot and Power Analysis.
- Segmented acquisition (Sequence) mode, divides the maximum record length into multiple segments (up to 100,000), according to trigger conditions set by the user, with a very small dead time between segments to capture the qualifying event.
- History waveform record (History) function, maximum recorded waveform length is 100,000 waveforms.

Models and Key Specifications

Model	T3DSO3204	T3DSO3354	T3DSO3504	T3DSO31004
Bandwidth	200 MHz	350 MHz	500 MHz	1 GHz
Sampling Rate (Max.)	All models have two 5 GSa/s ADCs. When all channels are enabled, each channel has a maximum sample rate of 2.5 GSa/s. When a single channel per pair is active, that channel has sample rate of 5 GSa/s			
Analog Channels	4 + EXT			
Memory Depth (Max.)	125 Mpts/Ch (non interleaved mode); 250 Mpts/Ch (interleave mode)			
Waveform Capture Rate (Max.)	110,000 wfm/s (normal mode), 500,000 wfm/s (sequence mode)			
Trigger Type	Edge, Slope, Pulse width, Window, Runt, Interval, Dropout, Pattern, Video, Qualified, Serial			
Serial Trigger and decoder ¹	I ² C, SPI, UART, CAN, LIN, CAN FD, FlexRay, I ² S, MIL-STD-1553B, SENT & Manchester			
16 Digital Channels ²	Maximum waveform capture rate up to 1.25 GSa/s, record length up to 62.5 Mpts/Ch			
Waveform Generator ³	External USB waveform generator, 25 MHz, sample rate of 125 Msa/s, 16 kpts memory			
1/0	USB Host, USB Device, LAN 100M, Pass/Fail, Trigger In/Out			
Probe (Std)	1 PP020-1 for each Channel			
Display	10.1 inch Touch Screen TFT-LCD (1024 x 600)			

- 1. All serial protocols support trigger and decode capability except SENT, MIL-STD-1553B and Manchester which offer decode only. Trigger SENT, MIL-STD-1553B and Manchester using a standard trigger (Edge, Pulse, Window, Runt, Interval, Dropout, Pattern, Qualified).
- 2. Optional 16 channel MSO capability can be added to the T3DSO3000 range of oscilloscopes by ordering the T3DSO2000-LS.
- 3. Optional waveform generator can be added to the T3DSO3000 range of oscilloscopes by ordering the T3DSO1000-FGMOD-A.

- Automatic measurement function for over 50 parameters as well as Histograms, Statistics, Zoom, Gating, Math, Trend, History and Reference functions.
- 10 Math functions (FFT, addition, subtraction, multiplication, division, integration, differential, square root, average, Enhanced Resolution and formula editor).
- 2 Math operators allowing 2 math functions to be used at the same time.
- High Speed hardware based Pass/Fail function
- Optional MSO,16 digital channels. Record Length up to 62.5 Mpts/Ch (Option T3DSO2000-LS)
- Optional 25 MHz function/arbitrary waveform generator.
 6 waveform types (Sine, Square, Ramp, Pulse, DC, Noise) and 45 Arbitrary waveforms. (Option T3DSO1000-FGMOD-A)
- Bode Plot from 10 Hz to 25 MHz using the T3DSO1000-FGMOD-A function/arbitrary waveform generator, or

- Bode Plot measurements from 10 Hz to 120 MHz using the T3AFG120 arbitrary function generator.
- Power Analysis application included as standard, measuring power quality, current harmonics, inrush current, switching loss, slew rate, modulation, output ripple, turn on / turn off, transient response, PSRR, efficiency.
- Large 10.1 inch capacitive touch screen TFT-LCD display with 1024 x 600 resolution
- Multiple interface types: USBHost, USBDevice (USB-TMC), LAN, Trigger In/Out
- Built in web server supporting remote control over LAN via a web browser. Supports SCPI remote control commands
- Supports Multi-language display and embedded online help



- 1 High Resolution 10.1-inch TFT-LCD touch screen display for clear images.
- 2 Horizontal controls of Timebase, Zoom, Roll and trigger position.
- 3 Advanced Triggering controls including Edge, Pulse, Interval, Window, Slope, DropOut, Runt and Pattern trigger types.
- 4 Easy to use Auto Setup, Run/Stop and Default Controls.

- 5 Multi-functional controls for AWG, Search, Navigate, History and Decode.
- 6 Individual color coded channels, Math and Digital inputs.
- 7 Probe compensation calibrator.
- 8 Color coded input channels.
- 9 Digital lead set socket.

10.1 inch TFT-LCD display and 15 one-button menus

- 10.1 inch TFT-LCD capacitive touch screen display with 1024 x 600 resolution
- Most commonly used functions are accessible using 15 different one-button operation keys Auto Setup, Default, Cursors, Measure, Roll, History, Persist, Clear Sweeps, Zoom, Print, Math, Measure, Search/ Navigate, Decode and AWG.

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A Wide Range Of Trigger Functions



A wide range of powerful triggering functions including Edge, Slope, Pulse, Video, Window, Runt, Interval, Dropout, Pattern, Serial, etc, allows users to debug complex hardware issues with ease.

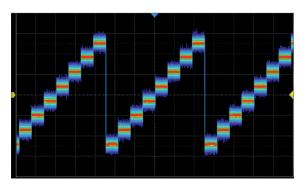
Powerful User Set Zone Trigger Extends Trigger Capability



Set up to 2 zones defining each as either an Intersect or a Non Intersect. Trigger occurs when conditions are met. Zone Trigger helps to simplify advanced triggering.

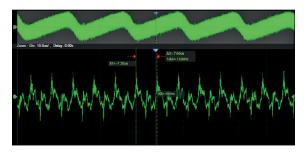
256-level Intensity Grading and Color Temperature Display

256-level intensity graded waveform display is ideal for viewing modulated and changing waveforms.



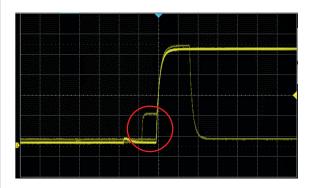
The Color temperature display clearly shows noise and jitter with infrequently occurring waveforms shown in blue through to the most frequently occurring waveforms shown in red.

Record Length of up to 250 Mpts



The record length of up to 250 Mpts (interleaved) or up to 125 Mpts (non-interleaved) allows use of a higher sampling rate to capture more signal detail. The hardware-based Zoom then allows quick zoom in to any area of interest.

Waveform Capture Rate up to 500,000 wfm/s



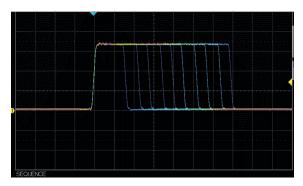
With a waveform capture rate of up to 500,000 wfm/s (sequence mode) and 110,000 wfm/s (normal mode) the T3DSO3000 can easily capture glitches, infrequent anomalies and other low-probability events.

History Mode



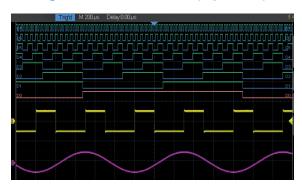
The always enabled History mode records up to 100,000 waveforms allowing users to scroll back through previous acquisitions to analyze past events and locate anomalies quickly. Serial decode, zoom and cursor measurements can be used.

Sequence Mode



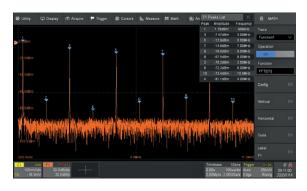
Segmented memory mode can store up to 100,000 waveforms into memory segments for capturing fast events in quick succession. Combine Sequence Mode with advanced triggers to isolate rare events. All the segments can be play back using the History function.

16 Digital Channels/MSO (Optional)



The MSO option adds 16 digital channels to the T3DSO3000 enabling users to trigger and acquire digital as well as analog waveforms in a mixed signal debug environment.

Advanced Math Function



Two Math traces support Plus, Minus, Multiply, Divide, FFT, integration, differential, square root, average, Eres and formula editor, providing a quick insight into the waveform characteristics.

ERES Mode



Enhanced Resolution (ERES) function reveals hidden waveform detail by using a linear average filter to reduce waveform noise on single acquisition waveforms, where regular averaging will not work. The ERES acquisition mode is hardware based, allowing waveforms to be captured at a faster rate.

Waveform Histogram



The Waveform Histogram feature provides a statistics view of the waveform in horizontal and vertical directions.

Browser Control



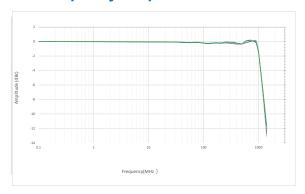
The embedded web server enables users to control the T3DSO3000 oscilloscopes from a single browser web page. This provides users with an easy to use, familiar, browser based, remote control interface for remote monitoring and troubleshooting.

High Performance Front End



T3DSO3204: At 200 MHz bandwidth, the input noise floor is typically only 80 uVrms.

Flat Frequency Response



T3DSO31004 at 5 GSa/s shows exceptionally flat frequency response up to its maximum 1 GHz bandwidth.

Measurements of all relevant Parameters with Statistics





Parameter measurements include 4 categories: Vertical, Horizontal, Miscellaneous and Channel Delay providing over 50 different types of measurements.

Measurements can be performed on the whole waveform or within a specified gate period.

Simple measurement mode measures up to 12 waveform characteristics simultaneously.

Statistics show the current value, maximum value, minimum value, standard deviation, mean value of up to 12 parameters simultaneously.

Histogram is available to show the probability distribution of a parameter. Trend is available to show the parameter value vs. time. In addition, horizontal measurements can process up to 1000 signal edges within one single acquisition, thus greatly improving the test efficiency.

Serial Bus Trigger and Decode

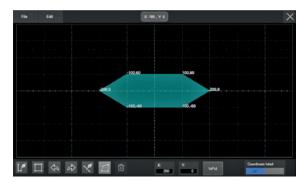


Trigger and decode up to 2 common embedded and automotive serial buses, I²C, SPI, UART, LIN, CAN, CAN FD, FlexRay, I²S, MIL-STD-1553B, SENT and Manchester. Protocol information can be quickly and intuitively displayed, time aligned with the waveform and in table format.

Mask Test Function



The T3DSO3000 utilizes a hardware based mask test function, that can perform 18,000 pass / fail tests per second. Users can define their own masks directly from a waveform or from the mask editor capability. The masks can then be used for Go / No Go testing with any failures stored as history waveforms or screen shots. The masks can also be stored on the T3DSO3000 for future use, making it suitable for long-term signal monitoring or automated production line testing.



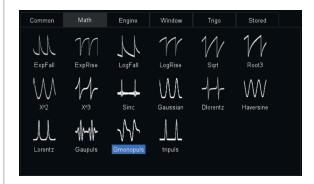
Built-in Mask Editor application helps to create custom masks

Complete Connectivity



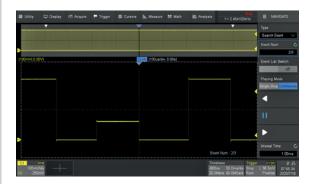
Connectivity includes External Trigger Input, Pass/Fail and Trigger Out, USB Device (USBTMC) and LAN for remote control, and a Kensington Lock security point.

25 MHz Function / Arbitrary Waveform Generator



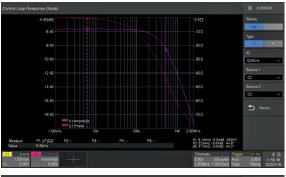
The 25 MHz function / arbitrary waveform generator comprises 6 standard waveforms and 45 arbitrary waveforms.

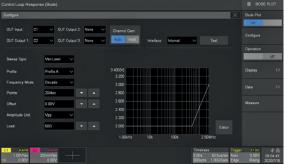
Search and Navigate



The T3DSO3000 can find events within an acquisition record or history acquisition based on user specified trigger conditions. Navigate browses through Events flagged by the Search, plays back history events or continuously moves the delay position on long records (useful in zoom view).

Bode Plot







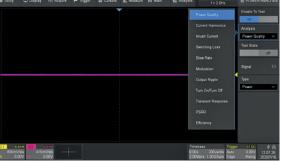
The T3DSO3000 Bode Plot application can control the T3DSO1000-FGMOD-A waveform generator, or any T3AFG40-80-120 function generator, to make Bode Plot measurements of passive or active components and circuits. The application scans the amplitude and phase response over frequency, making it possible to replace expensive network analyzers in less demanding applications. The T3DSO1000-FGMOD-A waveform generator allows Bode Plot measurements up to 25 MHz whereas using the T3AFG120 allows Bode Plot measurements up to 120 MHz.

The configuration screen enables setup of the reference and measurement channels, with up to three measurement channels possible. Configuration of the measurement frequency and amplitude, setting the number of measurement points, load, variable level sweeps, channel gain, decade or linear frequency mode, etc.

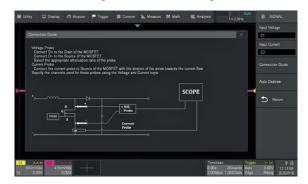
The measurement screen enables the setting of five common measurements: Upper cutoff, lower cutoff frequency, bandwidth, gain margin and phase margin, in addition there are user settable measurement cursors.

Power Analysis





The T3DSO3000 Power Analysis application provides a full suite of power measurements and analysis tools. These tools enable an improvement in the efficiency of measurements made on switching power supplies and power devices. The Power Analysis application can measure Power Quality, Current Harmonics, Inrush Current, Switching Loss, Slew Rate, Modulation, Output Ripple, Turn On/ Turn Off, Transient Response, PSRR and Efficiency. Each measurement has a help screen showing a connection diagram with notes.



All specifications are only guaranteed if the following conditions are met:

- The oscilloscope calibration period is valid
- The oscilloscope has been working continuously for at least 30 minutes at the specified temperature (18°C to 28°C)

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Acquisition System		
Sampling Rate	5 GSa/s (interleaving mode), 2.5 GSa/s (non-interleaving mode)	
Memory Depth	250 Mpts (single-channel), 125 Mpts (dual-channel)	
Peak Detect	400 ps	
Average	Averages: 4, 16, 32, 64, 128, 256, 512, 1024	
Eres	Enhance bits: 0.5, 1, 1.5, 2, 2.5, 3 selectable	
Interpolation	Sinx/x, Linear	
Input		
Channels	4 + EXT	
Coupling	DC, AC, GND	
Impedance	DC: (1 MΩ ± 2 %) (16 pF ± 2 pF) 50 Ω: 50 Ω ± 1 %	
Max.Input voltage	1 MΩ ≤ 400 Vpk (DC + Peak AC), DC – 10 kHz 50 Ω ≤ 5 Vrms, ± 10 V Peak	
CH to CH Isolation	DC - 100 MHz > 40 dB, 100 MHz - BW ≥ 34 dB	
Probe Attenuation	1X, 10X, 100X, Custom	
Horizontal System		
Time Scale	T3DSO3204 / T3DSO3354: 1.0 ns/div - 1000 s/div T3DSO3504: 500 ps/div - 1000 s/div T3DSO31004: 200 ps/div - 1000 s/div	
Channel Skew	< 150 ps	
Waveform Capture Rate	Up to 110,000 wfm/s (normal mode), 500,000 wfm/s (sequence mode)	
Intensity grading	256-level	
Display Format	Y-T, X-Y, Roll (≥ 50 ms/div)	
Time base Accuracy	± 1 ppm initial; ± 1 ppm 1st year ageing; ± 3.5 ppm 10-year ageing	
Roll Mode	50 ms/div – 1000 s/div (1-2-5 Step)	
Vertical System		
Bandwidth (-3dB) ¹	1 GHz T3DSO31004 500 MHz T3DSO3504 350 MHz T3DSO3354 200 MHz T3DSO3204	
Vertical Resolution	8 bit	
Vertical Range	8 divisions	
Vertical scale (Probe 1X)	1 MΩ: 500 μV/div – 10 V/div (setting range), 1 mV/div – 10 V/div (specified range) 50 Ω: 500 μV/div – 1 V/div (setting range), 1 mV/div – 1 V/div (specified range)	
Offset Range (Probe 1X)	0.5 mV/div - 20 mV/div: ±2V; 205 mV/div - 1 V/div: ±50 V; 20.5 mV/div - 100 mV/div: ±5V; 1.02 V/div - 2 V/div: ±200 V; 102 mV/div - 200 mV/div: ±20V; 2.05 V/div - 10 V/div: ±400 V	
Bandwidth Limit	20 MHz (±40%), 200 MHz (±40%)	
Bandwidth Flatness (50 Ω, >2mV/div)	10 kHz - BW/10: ±0.5 dB BW/10 - BW/3: ±0.8 dB BW/3 - BW2/3: +1.0 dB, -1.2 dB BW2/3 - BW: +2.0 dB, -2.5 dB	
Low Frequency Response (ACCoupling –3 dB)	5 Hz (typical)	
SFDR	≥ 32 dBc	
DC Gain Accuracy	≤3.0%	
Offset Accuracy	±(1.5%*offset+1.5%*full scale + 1 mV)	
Rise Time (typical) 50 Ω	0.4 ns T3DSO31004 0.7 ns T3DSO3504 1.0 ns T3DSO3354 1.7 ns T3DSO3204	
Overshoot (150 ps Fast Edge, 50 Ω)	<10% (typical) T3DSO3204, 3354, 3504 <15% (typical) T3DSO31004	

^{1.} All ranges below 5 mV / Div are limited to 200 MHz maximum bandwidth.

Trigger System	
Mode	Auto, Normal, Single
Level	Internal: ±4.1 div from the center of the screen
Level	EXT: ±0.61 V
	EXT/5: ±3.05 V
Holdoff Range	By Time: 8 ns – 30 s (8 ns Step)
	By Event: 1 – 10 ⁸
Coupling: CH1-CH4	DC: Passes all components of the signal
	AC: Blocks DC components and attenuates signals below 8 Hz LFRJ: Attenuates the frequency components below 1.2 MHz
	HFRJ: Attenuates the frequency components above 740 kHz
	Noise RJ: Increases the trigger hystersis
Coupling: EXT	DC: Passes all components of the signal
Coupling. EXT	AC: Blocks DC components and attenuates signals below 10 Hz
	LFRJ: Attenuates the frequency components below 400 kHz
	HFRJ: Attenuates the frequency components above 1.6 MHz
Accuracy (typical)	CH1 - CH4: ±0.2div EXT: ±0.3div
Sensitivity	Noise RJ = OFF: CH1 - CH4: >10mV/div 0.3div, 5mV/div-10mV/div: 0.5 div, ≤ 2mV/div: 1 div
Continuity	Noise RJ = ON: CH1 - CH4: >10mV/div 0.7div, 5mV/div-10mV/div: 0.7 div, ≤ 2mV/div: 1.5 di
	EXT: 200mVpp, DC - 10MHz, 300mVpp, 10MHz - bandwidth
	EXT/5: 1Vpp, DC - 10MHz, 1.5Vpp, 10MHz - bandwidth
Jitter	< 9 ps RMS (typical) for ≥300MHz sine and ≥6 divisions pk-pk from 2.5mV/div to 10V/div
	< 5 ps RMS (typical) for ≥500MHz sine and ≥6 divisions pk-pk from 2.5mV/div to 10V/div
Trigger Position	Pre-Trigger: 0 – 100 % memory
	Delay-Trigger: 0 – 5,000 div
Zone	Up to 2 zones, Source: CH1 - CH4, Property: Intersect / Not Intersect
Edge Trigger	
	OHA OHA/EVT//EVT/EVAOL::/DO DAE
Source	CH1 - CH4/EXT/(EXT/5)/ACLine/D0 - D15
Slope	Rising, Falling, Rising & Falling
Slope Trigger	
Source	CH1 - CH4
Slope	Rising, Falling
Limit	<, >, in range, out of range
Time Range	2 ns - 20 s; Resolution 1 ns
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Pulse Width Trigger	
Source	CH1 - CH4, D0 - D15
Polarity	+wid, -wid
Limit range	<, >, in range, out of range
Pulse Width Range	2 ns – 20 s; Resolution 1 ns
Video Trigger	
Source	CH1 - CH4
Standard	NTSC, PAL, 720p/50, 720p/60, 1080p/50, 1080p/60, 1080i/50, 1080i/60, Custom
Sync	Any, Select
Trigger condition	Line, Field
Window Trigger	
Source	CH1 - CH4
Window type	Absolute, Relative
Interval Trigger	
Source	CH1 - CH4, D0 - D15
Slope	Rising, Falling
Limit range	<, >, in range, out of range

2 ns - 20 s; Resolution 1 ns

Time Range

Dropout Trigger

Source	CH1-CH4, D0-D15
Timeout type	Edge, State
Slope	Rising, Falling
Time Range	2 ns – 20 s; Resolution 1 ns

Runt Trigger

Source	CH1 - CH4	
Polarity	Positive, Negative	
Limit range	<, >, in range, out of range	
Time Range	2 ns – 20 s; Resolution 1 ns	

Pattern Trigger

Source	CH1-CH4, D0-D15
Pattern setting	Don't Care, Low, High
Logic	AND, OR, NAND, NOR
Limit Range	<, >, in range, out of range
Time Range	2 ns – 20 s; Resolution 1 ns

Qualified Trigger

Type	State, State with Delay, Edge, Edge with Delay
Qualified Source	CH1 - CH4, D0 - D15
Edge Trigger Source	CH1 - CH4, D0 - D15

Serial Trigger

I ² C Trigger	
Condition	Start, Stop, Restart, No Ack, EEPROM, Address & Data, Data Length
Source (SDA/SCL)	CH1-CH4, D0-D15
Data format	Hex
Limit Range	EEPROM: =, >, <
Data Length	EEPROM: 1 byte
	Address & Data: 1 - 2 byte
	Data Length: 1 - 12 byte
R/W bit	Address & Data: Read, Write, Don't Care
SPI Trigger	
Condition	Data
Source (CS/CL/Data)	CH1-CH4/ D0-D15
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)	CH1- CH4/ D0- D15
Data format	Hex
Limit Range	
	=, <, >,
Data Length	1 byte
Data Width	5 bit, 6 bit, 7 bit, 8 bit
Parity Check	None, Odd, Even
Stop Bit	1 bit, 1.5 bit, 2 bit
Idle Level	High, Low
Baud Rate (Selectable)	600/1200/2400/4800/9600/19200/38400/57600/115200 bit/s
Baud Rate (Custom)	300 bit/s - 334000 bit/s
CAN Trigger	
Туре	All, Remote, ID, ID + Data, Error
Source	CH1-CH4/D0-D15
ID	STD (11 bit), EXT (29 bit)
Data format	Hex
Data Length	1–2 byte
Baud Rate (Selectable)	5 k, 10 k, 20 k, 50 k, 100 k, 125 k, 250 k, 500 k, 800 k, 1 M bit/s
Baud Rate (Custom)	5 kbit/s - 1 Mbit/s
LIN Trigger	
Туре	Break, Frame ID, ID+Data, Error
Source	CH1- CH4/ D0- D15
ID	1 byte
<u></u>	•
Data format	Hex
Data format Data Length	Hex 1 – 2 byte
Data Length	1 – 2 byte
Data Length Baud Rate (Selectable)	1 – 2 byte 600/1200/2400/4800/9600/19200 bit/s
Data Length Baud Rate (Selectable) Baud Rate (Custom)	1 – 2 byte
Data Length Baud Rate (Selectable)	1 – 2 byte 600/1200/2400/4800/9600/19200 bit/s
Data Length Baud Rate (Selectable) Baud Rate (Custom)	1 – 2 byte 600/1200/2400/4800/9600/19200 bit/s
Data Length Baud Rate (Selectable) Baud Rate (Custom) Serial Decoder No. of Decoder	1 – 2 byte 600/1200/2400/4800/9600/19200 bit/s 300 bit/s – 20 kbit/s
Data Length Baud Rate (Selectable) Baud Rate (Custom) Serial Decoder	1 – 2 byte 600/1200/2400/4800/9600/19200 bit/s 300 bit/s – 20 kbit/s
Data Length Baud Rate (Selectable) Baud Rate (Custom) Serial Decoder No. of Decoder Decode Type Threshold	1 – 2 byte 600/1200/2400/4800/9600/19200 bit/s 300 bit/s – 20 kbit/s 2 Full Duplex -4.1 – +4.1 Div
Data Length Baud Rate (Selectable) Baud Rate (Custom) Serial Decoder No. of Decoder Decode Type Threshold List	1 – 2 byte 600/1200/2400/4800/9600/19200 bit/s 300 bit/s – 20 kbit/s 2 Full Duplex
Data Length Baud Rate (Selectable) Baud Rate (Custom) Serial Decoder No. of Decoder Decode Type Threshold List I'C Decoder	1 – 2 byte 600/1200/2400/4800/9600/19200 bit/s 300 bit/s – 20 kbit/s 2 Full Duplex -4.1 – +4.1 Div 1 -7 lines
Data Length Baud Rate (Selectable) Baud Rate (Custom) Serial Decoder No. of Decoder Decode Type Threshold List I'C Decoder Source	1 – 2 byte 600/1200/2400/4800/9600/19200 bit/s 300 bit/s – 20 kbit/s 2 Full Duplex -4.1 – +4.1 Div 1 -7 lines CH1 - CH4, D0 - D15
Data Length Baud Rate (Selectable) Baud Rate (Custom) Serial Decoder No. of Decoder Decode Type Threshold List I'C Decoder Source Signal	1 - 2 byte 600/1200/2400/4800/9600/19200 bit/s 300 bit/s - 20 kbit/s 2 Full Duplex -4.1 - +4.1 Div 1 -7 lines CH1 - CH4, D0 - D15 SCL, SDA
Data Length Baud Rate (Selectable) Baud Rate (Custom) Serial Decoder No. of Decoder Decode Type Threshold List I'C Decoder Source Signal Address	1 – 2 byte 600/1200/2400/4800/9600/19200 bit/s 300 bit/s – 20 kbit/s 2 Full Duplex -4.1 – +4.1 Div 1 -7 lines CH1 - CH4, D0 - D15
Data Length Baud Rate (Selectable) Baud Rate (Custom) Serial Decoder No. of Decoder Decode Type Threshold List I'C Decoder Source Signal Address SPI Decoder	1 - 2 byte 600/1200/2400/4800/9600/19200 bit/s 300 bit/s - 20 kbit/s 2 Full Duplex -4.1 - +4.1 Div 1 -7 lines CH1 - CH4, D0 - D15 SCL, SDA 7bit, 10bit
Data Length Baud Rate (Selectable) Baud Rate (Custom) Serial Decoder No. of Decoder Decode Type Threshold List I'C Decoder Source Signal Address SPI Decoder Source	1 - 2 byte 600/1200/2400/4800/9600/19200 bit/s 300 bit/s - 20 kbit/s 2 Full Duplex -4.1 - +4.1 Div 1 -7 lines CH1 - CH4, D0 - D15 SCL, SDA 7bit, 10bit CH1 - CH4, D0 - D15
Data Length Baud Rate (Selectable) Baud Rate (Custom) Serial Decoder No. of Decoder Decode Type Threshold List I'C Decoder Source Signal Address SPI Decoder Source Signal	1 – 2 byte 600/1200/2400/4800/9600/19200 bit/s 300 bit/s – 20 kbit/s 2 Full Duplex -4.1 – +4.1 Div 1 -7 lines CH1 - CH4, D0 - D15 SCL, SDA 7bit, 10bit CH1 - CH4, D0 - D15 CLK, MISO, MOSI, CS
Data Length Baud Rate (Selectable) Baud Rate (Custom) Serial Decoder No. of Decoder Decode Type Threshold List I'C Decoder Source Signal Address SPI Decoder Source Signal Edge Select	1 - 2 byte 600/1200/2400/4800/9600/19200 bit/s 300 bit/s - 20 kbit/s 2 Full Duplex -4.1 - +4.1 Div 1 -7 lines CH1 - CH4, D0 - D15 SCL, SDA 7bit, 10bit CH1 - CH4, D0 - D15 CLK, MISO, MOSI, CS Rising, Falling
Data Length Baud Rate (Selectable) Baud Rate (Custom) Serial Decoder No. of Decoder Decode Type Threshold List I'C Decoder Source Signal Address SPI Decoder Source Signal Edge Select Chip Select	1 – 2 byte 600/1200/2400/4800/9600/19200 bit/s 300 bit/s – 20 kbit/s 2 Full Duplex -4.1 – +4.1 Div 1 -7 lines CH1 - CH4, D0 - D15 SCL, SDA 7bit, 10bit CH1 - CH4, D0 - D15 CLK, MISO, MOSI, CS Rising, Falling Active Low, Active High, Clock Timeout
Data Length Baud Rate (Selectable) Baud Rate (Custom) Serial Decoder No. of Decoder Decode Type Threshold List I'C Decoder Source Signal Address SPI Decoder Source Signal Edge Select Chip Select Bit Order	1 - 2 byte 600/1200/2400/4800/9600/19200 bit/s 300 bit/s - 20 kbit/s 2 Full Duplex -4.1 - +4.1 Div 1 -7 lines CH1 - CH4, D0 - D15 SCL, SDA 7bit, 10bit CH1 - CH4, D0 - D15 CLK, MISO, MOSI, CS Rising, Falling
Data Length Baud Rate (Selectable) Baud Rate (Custom) Serial Decoder No. of Decoder Decode Type Threshold List I'C Decoder Source Signal Address SPI Decoder Source Signal Edge Select Chip Select Bit Order UART Decoder	1 – 2 byte 600/1200/2400/4800/9600/19200 bit/s 300 bit/s – 20 kbit/s 2 Full Duplex -4.1 – +4.1 Div 1 -7 lines CH1 - CH4, D0 - D15 SCL, SDA 7bit, 10bit CH1 - CH4, D0 - D15 CLK, MISO, MOSI, CS Rising, Falling Active Low, Active High, Clock Timeout MSB, LSB
Data Length Baud Rate (Selectable) Baud Rate (Custom) Serial Decoder No. of Decoder Decode Type Threshold List I'C Decoder Source Signal Address SPI Decoder Source Signal Edge Select Chip Select Bit Order UART Decoder Source	1 - 2 byte 600/1200/2400/4800/9600/19200 bit/s 300 bit/s - 20 kbit/s 2 Full Duplex -4.1 - +4.1 Div 1 -7 lines CH1 - CH4, D0 - D15 SCL, SDA 7bit, 10bit CH1 - CH4, D0 - D15 CLK, MISO, MOSI, CS Rising, Falling Active Low, Active High, Clock Timeout MSB, LSB CH1 - CH4, D0 - D15
Data Length Baud Rate (Selectable) Baud Rate (Custom) Serial Decoder No. of Decoder Decode Type Threshold List I*C Decoder Source Signal Address SPI Decoder Source Signal Edge Select Chip Select Bit Order UART Decoder Source Signal	1 - 2 byte 600/1200/2400/4800/9600/19200 bit/s 300 bit/s - 20 kbit/s 2 Full Duplex -4.1 - +4.1 Div 1 -7 lines CH1 - CH4, D0 - D15 SCL, SDA 7bit, 10bit CH1 - CH4, D0 - D15 CLK, MISO, MOSI, CS Rising, Falling Active Low, Active High, Clock Timeout MSB, LSB CH1 - CH4, D0 - D15 RX, TX
Data Length Baud Rate (Selectable) Baud Rate (Custom) Serial Decoder No. of Decoder Decode Type Threshold List I'C Decoder Source Signal Address SPI Decoder Source Signal Edge Select Chip Select Bit Order UART Decoder Source Signal Data Width	1 - 2 byte 600/1200/2400/4800/9600/19200 bit/s 300 bit/s - 20 kbit/s 2 Full Duplex -4.1 - +4.1 Div 1 -7 lines CH1 - CH4, D0 - D15 SCL, SDA 7bit, 10bit CH1 - CH4, D0 - D15 CLK, MISO, MOSI, CS Rising, Falling Active Low, Active High, Clock Timeout MSB, LSB CH1 - CH4, D0 - D15 RX, TX 5 bit, 6 bit, 7 bit, 8 bit
Data Length Baud Rate (Selectable) Baud Rate (Custom) Serial Decoder No. of Decoder Decode Type Threshold List I'C Decoder Source Signal Address SPI Decoder Source Signal Edge Select Chip Select Bit Order UART Decoder Source Signal Data Width Parity Check	1 – 2 byte 600/1200/2400/4800/9600/19200 bit/s 300 bit/s – 20 kbit/s 2 Full Duplex -4.1 – +4.1 Div 1 -7 lines CH1 - CH4, D0 - D15 SCL, SDA 7bit, 10bit CH1 - CH4, D0 - D15 CLK, MISO, MOSI, CS Rising, Falling Active Low, Active High, Clock Timeout MSB, LSB CH1 - CH4, D0 - D15 RX, TX 5 bit, 6 bit, 7 bit, 8 bit None, Odd, Even, Mark, Space
Data Length Baud Rate (Selectable) Baud Rate (Custom) Serial Decoder No. of Decoder Decode Type Threshold List I'C Decoder Source Signal Address SPI Decoder Source Signal Edge Select Chip Select Bit Order UART Decoder Source Signal Data Width Parity Check Stop Bit	1 – 2 byte 600/1200/2400/4800/9600/19200 bit/s 300 bit/s – 20 kbit/s 2 Full Duplex -4.1 – +4.1 Div 1 -7 lines CH1 - CH4, D0 - D15 SCL, SDA 7bit, 10bit CH1 - CH4, D0 - D15 CLK, MISO, MOSI, CS Rising, Falling Active Low, Active High, Clock Timeout MSB, LSB CH1 - CH4, D0 - D15 RX, TX 5 bit, 6 bit, 7 bit, 8 bit None, Odd, Even, Mark, Space 1 bit, 1.5 bit, 2 bit
Data Length Baud Rate (Selectable) Baud Rate (Custom) Serial Decoder No. of Decoder Decode Type Threshold List I'C Decoder Source Signal Address SPI Decoder Source Signal Edge Select Chip Select Bit Order UART Decoder Source Signal Data Width Parity Check	1 – 2 byte 600/1200/2400/4800/9600/19200 bit/s 300 bit/s – 20 kbit/s 2 Full Duplex -4.1 – +4.1 Div 1 -7 lines CH1 - CH4, D0 - D15 SCL, SDA 7bit, 10bit CH1 - CH4, D0 - D15 CLK, MISO, MOSI, CS Rising, Falling Active Low, Active High, Clock Timeout MSB, LSB CH1 - CH4, D0 - D15 RX, TX 5 bit, 6 bit, 7 bit, 8 bit None, Odd, Even, Mark, Space

CAN Decoder	
Signal	CAN_H, CAN_L
Source	CH1 - CH4, D0 - D15
LINDanadan	
LIN Specification Deckage Povision	Vor4 2 Vor2 0
LIN Specification Package Revision Baud Rate (Selectable)	Ver1.3 , Ver2.0 600 bps, 1200 bps, 2400 bps, 4800 bps, 9600 bps, 19200 bps, custom
Daud Nate (Selectable)	000 bps, 1200 bps, 2400 bps, 4600 bps, 9000 bps, 19200 bps, custom
CAN FD	
Source	CH1-CH4, D0 - D15
Nominal Baud Rate	10 kbps, 25 kbps, 50 kbps, 100 kbps, 250 kbps, 1 Mbps, custom
Data Baud Rate	500 kbps, 1 Mbps, 2 Mbps, 5 Mbps, 8 Mbps, 10 Mbps, custom
FlexRay	
Source	CH1 - CH4, D0 - D15
Data Baud Rate	2.5 Mbps, 5 Mbps, 10 Mbps, custom
I ² S	
Source	CH1 - CH4, D0 - D15
Signal	BCLK, WS, DATA
Audio Variant	Audio-l ² S, Audio-LJ, Audio-RJ
Start Bits	0 – 31
Baud Rate	1 – 32
MIL-STD-1553B	
Source	CH1 – CH4
SENT	
Source	CH1 - CH4, D0 - D15
Manchester	
Source	CH1 – CH4
Baud rate	500bps - 5Mbps
Measurement	
Source	CH1-CH4, D0-D15, F1-F2, Ref, History, Zoom
Mode	Simple, Advanced
Range	Screen, Gate
Measurement Parameters	
Vertical	Max, Min, Pk-Pk, Top, Base, Amplitude, Mean, Cycle Mean, Stdev, Cycle Stdev, RMS, Cycle RMS, Median, Cycle Median, FOV, FPRE, ROV, RPRE, Level@Trigger
Horizontal	Period, Frequency, Time@max, Time@min, +Width, -Width, 10-90%Risetime, 90-10%Falltime, Risetime, Falltime, +Burst Width, -Burst Width, +DutyCycle, -DutyCycle, Delay, Time@Middle, Cycle-Cycle jitter
Miscellaneous	+Area@DC, -Area@DC, Area@DC, Absolute Area@DC, +Area@AC, -Area@AC, Area@AC, Absolute Area@AC,Cycles, Rising Edges, Falling Edges, Edges, Positive pulses Negative pulses
Delay	+Area@DC, -Area@DC, Area@DC, Absolute Area@DC, +Area@AC, -Area@AC, Area@AC, Absolute Area@AC, Cycles, Rising Edges, Falling Edges, Edges, Positive pulses, Negative pulses
Cursors	Source: CH1 - CH4, D0 - D15, Math, Ref Manual : Time X1, X2, (X1-X2), (1/ΔT) Vertical Y1, Y2, (Y1-Y2)
Statistics	Track: Time X1, X2, (X1–X2) Current, Mean, Min, Max, Sdev, Count, Histogram, Trend
Statistics	
Counter	Source: CH1 - CH4 Frequency resolution: 7 digits
	Totalizer: Counter on edges, supports Gate and Trigger

Math

Number of Math Operators	2		
Source	CH1~CH4, F1~F2, Z1~Z4		
Operation	FFT, +, -, x, ÷, ∫dt, d/dt, √, Identity, Negation, x , Sign, ex, 10x, In, Ig, Interpolation, Formula		
FFT	Editor Length: 2 Mpts, 1 Mpts, 512 kpts, 256 kpts, 128 kpts, 64 kpts, 32 kpts, 16 kpts, 8 kpts, 4 kpts		
FFI	2 kpts		
	Window: Rectangular, Blackman, Hanning, Hamming, Flattop		
	Display: Full Screen, Split, Exclusive		
	Mode: Normal, Max hold, Average		
	Tools: Peaks, Markers		
Analysis			
Search			
Source	CH1 – CH4, History		
Mode	Edge, Slope, Pulse, Interval, Runt		
Copy setting	Copy from trigger, Copy to trigger		
Navigate			
Туре	Search event, Time, History frame		
Mask Test			
Source	CH1 – CH4, Z1 – Z4		
Mask creating	Auto (Createmask), Custom (Mask Editor)		
Mask test speed	Up to 18,000 frames/s		
DVM			
Source	CH1 - CH4		
Mode	DC Mean, DC RMS, AC RMS, Peak-peak, Amplitude		
Mask test speed	Bar, Histogram, Trend		
Bode Plot			
Source	CH1 – CH4		
Supported signal sources	T3DSO1000-FGMOD-A		
	T3AFG40, T3AFG80, T3AFG120		
Sweep type	Simple, Vari-level		
Frequency	Mode: Linear, Logarithmic		
	Range: 10 Hz – 120 MHz (T3AFG120)		
Measure	Upper cutoff frequency, Lower cutoff frequency, Bandwidth, Gain margin, Phase margin		
Power Analysis			
Measure	Power quality, Current Harmonics, Inrush current, Switching loss, Slew rate, Modulation,		
	Output ripple, Turn on/turn off, Transient response, PSRR, Efficiency		

Arbitrary Waveform Generator (T3DSO1000-FGMOD-A)

Channel	1
Max. Output Frequency	25 MHz
Sampling Rate	125 MSa/s
Frequency Resolution	1 μHz
Frequency Accuracy	±50 ppm
Vertical Resolution	14 bits
Amplitude Range	-1.5 V - +1.5 V (into 50Ω) -3 V - +3 V (into High-Z)
Waveforms	Sine, Square, Ramp, Pulse, DC, Noise, 45 Arbitrary
Output Impedance	50 Ω ±2%
Protection	Over voltage protection, Current limit
Insulation Voltage	±42 Vpk

Sine

Sille			
Frequency	1 μHz - 25 MHz		
Offset Accuracy (10 kHz)	±(1%*offset setting value +3 mVpp)		
Amplitude Flatness	±0.3 dB, compare to 10 kHz, 5 Vpp		
SFDR	DC - 1 MHz -60 dBc 1 MHz - 5 MHz -55 dBc 5 MHz - 25 MHz -50 dBc		
Harmonic Distorsion	DC - 5 MHz -50 dBc 5 MHz - 25 MHz -45 dBc		
Square/Pulse			
Frequency	1 μHz - 10 MHz		
Duty Cycle	1% - 99%		
Rise/Fall time	< 24 ns (10% - 90%)		
Overshoot	< 3% (typical, 1 kHz, 1 Vpp)		
Pulse Width	> 50 ns		
Jitter	<500 ps + 10 ppm		
Ramp			
Frequency	1 μHz - 300 kHz		
Linearity (Typical)	< 0.1% of Pk-Pk (typical, 1 kHz, 1 Vpp, 50% symmetry)		
Symmetry	0% - 100%		
DC			
Offset range	±1.5 V (into 50 Ω)		
Oliset falige	±3 V (into Hi-Z)		
Accuracy	±(setting value *1%+3 mV)		
Noise			
Bandwidth (-3dB)	>25 MHz		
,			
Arb			
Frequency	1 μHz - 5 MHz		
Wave Length	16 Kpts		
Sampling Rate	125 MSa/s		
Waveform Import	EasyWave,U-Disk,directly from waveform data of analog channels		
Digital Channels			
No. of Channels	16		
Max. Sampling Rate	1.25 GSa/s		
Memory Depth	62.5 Mpts/Ch		
Min. Detectable Pulse Width	3.3 ns		
Level Group	D0-D7, D8-D15		
Level Range	-10V - 10V		
Logic Type	TTL,CMOS,LVCMOS3.3,LVCMOS2.5, Custom		
Skew	D0-D15: ±1 sampling interval Digital to Analog: ± (1 sampling interval +1 ns)		

1/0				
Standard	3 USB Hosts, 1 USB Device, LAN, AUX (Pass/Fail+Trigger Out), 10 MHz In/ Out Ext ≤1.5 Vrms, Ext/5 ≤7.5 Vrms			
Display				
Display Type	10.1 inch TFT LCD Capacitive Tou	ch Screen		
Resolution	1024 x 600			
Contrast	500:1			
Backlight	500 nit typical			
Range	8 x 10 grid			
Waveform Display				
Туре	Dot, Vector			
Persistence Time	OFF, 1s, 5s, 10s, 30s, infinite			
Color Display	Normal, Color; Supports user defined trace color			
Screen Saver	1 min, 5 min, 10 min, 30 min, 1 hour, OFF			
Language				
Language	Simplified Chinese,Traditional Chinese, English, French, Japanese, German, Spanish, 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			
Altitude	Operating: ≤3,000 m Non-operating: ≤15,000 m			
Electromagnetic Compatibility	Meets EMC directive (2014/30/EU 1:2013 (Basic)	J), meets or exceeds IEC 61326-1:2012/EN61326-		
Conducted disturbance	CISPR 11/EN 55011	CLASS A group 1, 150kHz-30MHz		
Radiated disturbance Electrostatic discharge (ESD)	CISPR 11/EN 55011 IEC 61000-4-2/EN 61000-4-2	CLASS A group 1, 30MHz-1GHz 4.0kV (Contact), 8.0 kV (Air)		
Radio-frequency				
electromagnetic 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);		
EL	JEO 04000 4 4/EN 04000 4 4	1 V/m (2.0 GHz to 2.7GHz)		
Electrical fast transients (EFT) Surges	IEC 61000-4-4/EN 61000-4-4 IEC 61000-4-5/EN 61000-4-5	2kV (Input AC Power Ports) 1kV (Line to line)		
	0.000 1 0,_11 01000 4-0	2kV (Line to ground)		
Radio-frequency continuous conducted Immunity	IEC 61000-4-6/EN 61000-4-6	3 V, 0.15-80MHz		
Voltage dips and interruptions	IEC 61000-4-0/EN 61000-4-0	Voltage Dips: 0% UT during half cycle;		
		0% UT during 1 cycle;		
		70% UT during 25/30 cycles Voltage interruptions: 0% UT during 250/300 cycles		
Safety	UL 61010-1:2012/R: 2018-11; CA UL 61010-2-030:2018; CAN/CSA	N/CSA-C22.2 No. 61010-1:2012/A1:2018-11.		
All T3DSO3000 Series Oscilloscopes	·			
·	.,, <u></u>	•		
Power Supply	400 040 1/ 50/0011			
Input Voltage & Frequency	100 - 240 Vrms 50/60Hz			
Power	100 W Max, 70 W typical, 4 W typical in standby mode			
Mechanical				
Dimensions	Length x Width x Height = 370 mi	m × 144 mm × 231 mm		
Weight	N.W 4.0 Kg			
	G.W 5.6 Kg			

G.W 5.6 Kg

ORDERING INFORMATION

T3DSO3000 Probes

Probe type	Model	Picture	Description
Passive	PP020-1	0	500 MHz bandwidth, 10 M Ω , 10X Probe, 1 supplied per channel. Replacement probe for the T3DSO3204, T3DSO3354, T3DSO3504 and T3DSO31004 Oscilloscope.
Logic Probe	T3DSO2000-LS	O	Optional 16 Channel Logic Probe.

Ordering information

Description	1 GHz, 4 Ch, 5 GSa/s (Max.), 125 Mpts/Ch, 250 Mpts Interleaved	T3DSO31004
	350 MHz, 4 Ch, 5GSa/s (Max.), 125 Mpts/Ch, 250 Mpts Interleaved	T3DSO3504
	350 MHz, 4 Ch, 5GSa/s (Max.), 125 Mpts/Ch, 250 Mpts Interleaved	T3DSO3354
	200 MHz, 4 Ch, 5GSa/s (Max.), 125 Mpts/Ch, 250 Mpts Interleaved	T3DSO3204
Standard Accessories	Passive Probe x4	
	USB Cable	
	Power Cord	
	Quick Start Guide	
	Certificate of Calibration	
Optional Accessories	16 Channel MSO Probe	T3DSO2000-LS
	25 MHz Function/Arbitrary Waveform Module	T3DSO1000-FGMOD-A
	500 MHz Passive Probe, 10:1, 10 M $Ω$	PP020-1

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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