

Acute TravelScope series Digital Storage Oscilloscope

135 x 80x 26 mm³

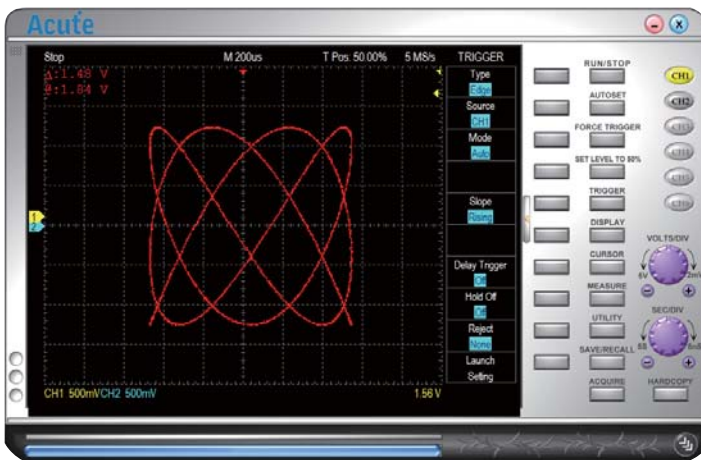
Features

- PC-based (USB2.0 interface)
- USB powered (2 USB ports needed for TS2212A)
- 2 channels (stackable up to 6 channels)
- 1 GS/s real-time sampling
- 200 MHz bandwidth
- 10K/64M points per channel
- Vertical offset adjustable
- Width, Video/TV, Delay, Runt, Pattern, External Trigger
- LF reject, HF reject, Noise reject
- RUN/STOP hardware button
- Export data to WORD, EXCEL, TEXT, HTML, etc.
- Data Logger (HD storage)
- Embedded 2-channels FG with Modulation, Sweep, Burst function



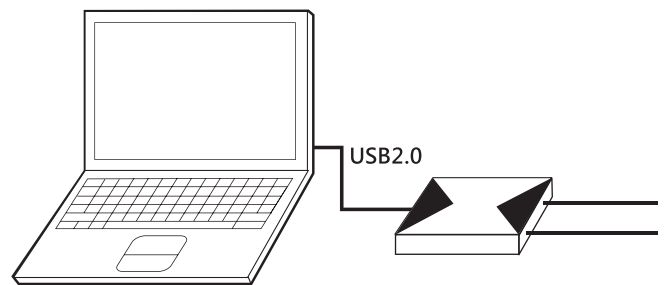
Model	Sampling	Bandwidth	Record Length
TS2202A	1GS/s	200 MHz	10K pts/ch
TS2212A	1GS/s	200 MHz	64M pts/ch

Software Window



System Requirements

- USB 2.0 port
- Win2000, XP, Vista (-32/-64), Win7 (-32/-64)



Acute[®]

PC-based T&M Instruments

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TravelScope series

Acquisition	
Mode	Sample, Average, Envelope, Peak detect, High Resolution
Sampling rate	1 GS/s @ 1-channel; 500 MS/s @ 2-channel
Record length	Normal: 10K pts/ch Single-shot: TS2202A: 10K pts/ch; TS2212A: 64M pts/ch
Input	
Input channels	2 (Ch1, Ch2)
Input coupling	AC/DC
Input impedance	1 MΩ 18 pF
Overvoltage protection	±100 V (DC+AC peak)
Ch-Ch crosstalk	≥ 100 : 1
Ch-Ch skew	100 ps between two channels with the same scale & coupling settings
Vertical	
Bandwidth	200 MHz @ 1-channel; 100 MHz @ 2-channels
Rise Time	1.75 ns @ 200 MHz; 3.5 ns @ 100 MHz
Resolution	8 bits
Input scale	2 mV/div to 10 V/div (Full Scale: ±4 div/screen, ±1 div beyond screen)
Position range	±4 divisions
Offset range	±150 V @ 2, 5, 10 V/div; ±15 V @ 0.2, 0.5, 1 V/div; ±1.5 V @ 2, 5, 10, 20, 50, 100 mV/div
DC accuracy	±3% of full-scale
Bandwidth limit	20 MHz, 100 MHz or Full
Horizontal	
Time scale	2 ns/div to 10 s/div (10 div/screen)
Time resolution	40 ps
Time accuracy	±10 ppm
Delay range	Pre-trigger: 0 to 100% of 1 screen; Post-trigger up to 50 sec.

Stack

Max. channels expand	6 ch (3x TravelScopes, 1 Master & 2 Slaves)
Trigger source	Only available for Master-scope
Skew between devices	±8 ns between Master & Slave channels

Packing list

Item	Quantity
1. TravelScope device	1
2. Stack cable	1
3. USB 2.0 Cable	1
4. 250 MHz Probe & Accessories pack	2
5. Soft case	1
6. Installation CD	1

Trigger	
Trigger mode	Auto, Normal, Single, Untriggered-Roll (@ Time scale ≥ 200 ms/div)
Source	Ch1, Ch2, Ext.(TTL only)
Coupling	DC, LF reject (50kHz), HF reject (50kHz), Noise reject
Trigger range	±4 div from window center
Vertical sensitivity	1 div or 5 mV @ <10 mV/div; 0.6 div @ ≥ 10 mV/div
Holdoff time	~60 ns to 10 sec.
Trigger type	Edge, Video/TV, Pulse Width
Basic trigger	Rising, Falling, Alternate, Either
Advanced trigger	
Video/TV	NTSC, PAL, SECAM, Field, Scan Line
Edge	A-trigger
Width	Positive/Negative/Any <, >, =, ≠ range from 8 ns to 50 sec
Runt	Positive/Negative/Runt+Pulse Width Range from 8 ns to 50 sec
Pattern	AND, OR, NAND, NOR
Measurement/Processing	
Special Function	Autoset, Logger
Measurement	Frequency, Period, Vpp, Vmax, Vmin, Vamp, Vhigh, Vlow, Vmean, Vrms, Positive overshoot, Negative overshoot, Pulse Width
Cursor	Time difference, Voltage difference
Math	Add, Sub, Multiplication, Division, XY
FFT	Rectangular, Blackman, Hann, Hamming, Harris, Triangular, Cosine, Lanczos, Gaussian. (Vertical Scale: dBm RMS, dBV RMS, Linear RMS)
Export Data	WORD, EXCEL, CSV, TEXT, HTML, Clipboard, Hardcopy, Preview
I/O port	
Trig-In	TTL 3.3 V level (Rising/Falling)
Trigger pulse approval	> 8 ns
Trig-Out	TTL 3.3 V

Function Generator

Output channels	2 (Gen.1, Gen.2)
Output impedance	600 Ω
Frequency	DC to 1 MHz
Amplitude	0 V to 2.5 V (to 1 MΩ load) ±50mV
Offset	Fixed at 0 V @ Dual channel mode -1.25 V to 1.25 V @ Single channel mode (Gen 2 only)
FG mode	Sine, Square, Pulse, Triangle, Ramp(Sawtooth), DC
Modulation	AM, FM, PM, ASK, FSK, PSK
Others	Sweep, Burst



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