

# Acute TravelLogic series 4 GHz Logic Analyzer

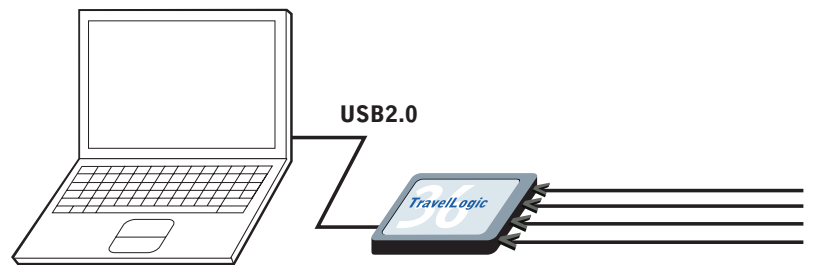
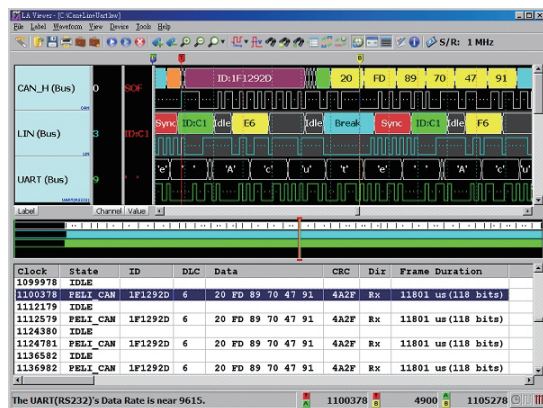
## Features

- PC-based
- USB2.0 interface/powered
- 36 channels
- 4GHz Timing analysis
- 200MHz State analysis
- 180K/18M/72Mb memory (stackable)
- Glitch trigger (500ps)
- Bus trigger (UART, I<sup>2</sup>C, I<sup>2</sup>S, SPI, CAN, ...)
- Bus Decode (UART, I<sup>2</sup>C, I<sup>2</sup>S, SPI, CAN, LIN, SDIO, IDE, ... see the other side)
- 4-conditions (16 levels each) trigger
- Data logger (HD storage)
- Time Stamp
- Real time frequency display
- Real time State display
- Stackable with Acute or other brand DSO to form a MSO
- Input Sensitivity 0.25Vpp



Model	Timing	State	Total Memory
TL2036	4GHz	200MHz	180Kb
TL2136	4GHz	200MHz	18Mb
TL2236	4GHz	200MHz	72Mb

## Software Window



## System Requirements

- Above Intel Pentium-II compatible PC (1GHz or faster recommended)
- USB2.0 port
- Windows 98/ME/2000/XP/Vista/7 OS
- 128MB Memory available
- Disk memory 80MB or more
- CD Drive for installation program
- VGA 800x600 (1024x768 or higher recommended)
- Keyboard & Mouse

**Acute**  
PC-based T&M Instruments

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## TravelLogic series

Model		TL2036	TL2136	TL2236
Power	Power Source	USB bus-power (+5V)		
	Static Power Dissipation	0.75W		
	Max Power Dissipation	<2.5W		
Hardware Interface		USB2.0 (USB1.1 Compatible)		
Timing Analysis (Max. Sample Rate)		4GHz		
State Clock Rate		200MHz		
Time Stamp		Yes		
Special Transitional Sampling		Yes		
Channels		36		
Total Sample Memory		180K bits	18M bits	72M bits
Timing vs. memory vs. available channels	Timing Analysis	Memory (bits) per channel/ number of channels available		
	4 GHz	2.5K / 36	2.5K / 36	2.5K / 36
	2 GHz	5K / 36	5K / 36	5K / 36
	1.6 GHz	32K / 4	4M / 4	16M / 4
	800 MHz	16K / 9	2M / 9	8M / 9
	400 MHz	8K / 18	1M / 18	4M / 18
	200 MHz	4K / 36, 8K / 18 12K / 12, 16K / 9 24K / 6, 36K / 4 72K / 2, 144K / 1	512K / 36, 1M / 18 1.5M / 12, 2M / 9 3M / 6, 4.5M / 4 9M / 2, 18M / 1	2M / 36, 4M / 18 6M / 12, 8M / 9 12M / 6, 18M / 4 36M / 2, 72M / 1
	Trigger	Resolution	250ps	
	Channels	36		
	Conditions	4		
	Levels for each Condition	16		
	Pre/Post Trigger setting	Yes		
	Pass Counter	Yes		
	Event Types	Word, Channel, Transition, Glitch, Width		
	Bus trigger	UART, I <sup>2</sup> C, I <sup>2</sup> S, SPI, CAN		
	Input port (for Stack)	TTL 3.3V		
	Output port (for Stack)	TTL 3.3V		
Threshold	Range	+6V to -6V		
	Resolution	50mV		
	Accuracy	±100mV + 5%*Vth		
Maximum Input Voltage		±40V DC 15Vpp AC		
Input Sensitivity		0.25Vpp @50MHz 0.5Vpp @150MHz 0.8Vpp @250MHz		
Impedance		200KΩ // <5pF		
Temperature	Operating Temperature	5°C ~ 45°C (41°F ~ 113°F)		
	Storage Temperature	-10°C ~ 65°C (14°F ~ 149°F)		
Channel to channel skew		< 1ns		
Software features	Zoom In & Zoom Out	1/2048 ~ 64		
	Languages	English / Traditional Chinese / Simplified Chinese		
	Waveform Height	Adjustable		
	Save & Load Waveform	Yes		
	Print Waveform	Yes		
	Project Manager	Yes		
	Online Help	Yes		
	Export waveform to Bitmap file	Yes		
	Export waveform to Text file	Yes		
	Export waveform to PGW file	Yes		
	Trigger, auxiliary cursors	1, 25		
	Data Logger	Saved to Hard Disk		
	Bus Decode	1-Wire, CAN, HDMI-CEC, HDQ, I <sup>2</sup> C, I <sup>2</sup> S, I80, IDE, JTAG, LCD1602, LIN, Lissajous, LPC, Microwire, PMBus, PS/2, SDIO, SMBus, S/PDIF, SPI, SSI, ST7669, UART, UNI/O, USB1.1, .....		
	Line Decoding / Encoding	NRZ, NRZI, Manchester, IEEE802.3, Differential-Manchester, .....		
	Dimension	Length x Width x Height (mm <sup>3</sup> )	123x76x21	
Lead Cable		Teflon insulated 40 lead cables (36 Signal + 4 Ground)		
Grippers		40		