

# Acute

## TravelData Data Generator

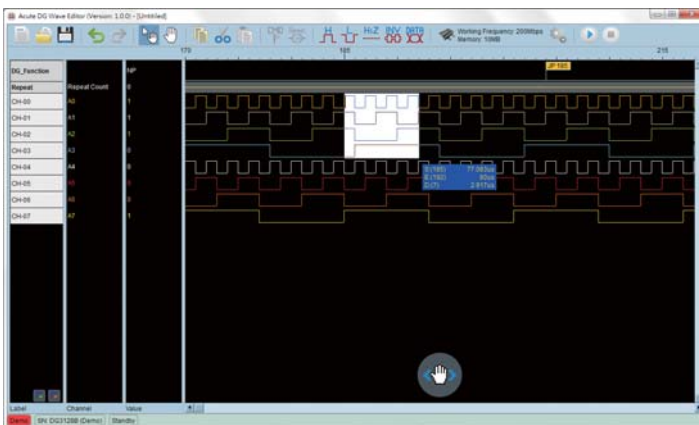


123 x 76 x 21 mm<sup>3</sup>

- PC-based
- USB 3.0 Interface
- Channels : 16 (Max. / Data Output), 3 (Event Input)
- Data rate : 200Mbps @Ch (Max.)
- Memory: 256Mb/ch (Max.)
- Clock Range : 1Hz ~ 200MHz (6 digits)
- Data output : 0.9Vpp ~ 4.5Vpp (0.1V resolution) and Hi-Z
- Default pattern : I<sup>2</sup>C, MIPI I3C, MIPI RFFE, PMBus, PWM, SPI, Sync / Async-Counter, ...
- User pattern : Direct draw, Acute-LA / VCD, CSV (MIPI I3C, MIPI RFFE), ...

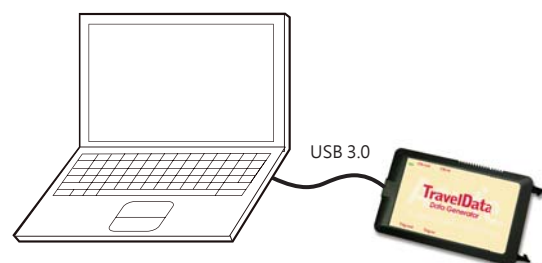
Model	Data Channel	Event Channel	Pattern Depth
TD3008E	8	3	512Kb/ch
TD3116B	16	3	1Mb/ch
TD3216B	16	3	256Mb/ch

### Software Window



### System Requirements

- USB 3.0 port
- Win 7, Win 8, Win 10, Win11
- PC RAM 16GB (recommended) or 8GB at least



# Acute

PC-based T&M Instruments

Acute Technology Inc.

Tel: +886-2-2999-3275 E-mail: [service@acute.com.tw](mailto:service@acute.com.tw) <http://www.acute.com.tw>



## TD3000 series

Model		TD3008E	TD3116B	TD3216B	
Power	Power Source	USB 3.0			
	Static Power Dissipation	2.5W			
	Max Power Dissipation	4.5W			
Hardware Interface		USB 3.0			
Number of Output Channels		8	16		
Memory	Pattern Depth /ch	512Kb	1Mb	256Mb	
Data Rate		100Mbps @Ch (Max.)	200Mbps @Ch (Max.)		
Operation Clock System	Internal	Range	1Hz ~ 100MHz		
		Resolution	6 digits		
	External	Clock Range	<100MHz	<200MHz	
		Input Channels	1 Channel (TTL3.3V)		
Data Flow Control		Loop, Jump, Hold, Wait for Event			
Period Jitter	Clock	<200ps			
	Channel	<200ps			
Temperature	Operating / Storage	5°C~45°C (41°F~113°F) / -10°C~65°C (14°F~149°F)			
Software Features	Languages	English / 繁體中文 / 简体中文			
	Save & Load Waveform	Yes			
	Regular Waveform Generator	Synchronous / Asynchronous Counter, Printer (SPP), I <sup>2</sup> C, MIPI I3C, MIPI RFFE, PMBus, PWM, SPI			
	Waveform Editing Interface	Waveform Drawing, Script File - DGV/ VCD/ CSV (MIPI I3C, MIPI RFFE)			
Dimension	L x W x H (mm <sup>3</sup> )	123 x 76 x 21			
Weight		680g			
Lead Cable	(Data / CLK-IN / CLK-OUT / Event / GND / N.C.)	A 40-pin lead cable (16 / 1 / 1 / 3 / 18 / 1)			
Grippers		20	40		
Data Output	Channels	8 with OE	16 with OE		
	Data Rate	100Mbps @Ch (Max.)	200Mbps @Ch (Max.)		
	Group	1 (ch0~7 & CKO)	2 (ch0~7 & CKO, ch8~15)		
	VoL	0V			
	VoH min.	0.9Vpp @ <= 15Mbps, 1Vpp @ <= 100Mbps	0.9Vpp @ <= 15Mbps, 1Vpp @ <= 100Mbps, 1.1Vpp @ <= 200Mbps		
	VoH max.	4.5V			
	Minimum Pulse Width	10 ns	5 ns		
	Impedance	CMOS with 20 Ω			
	Fan Out	20mA/ch @ 50 Mbps			
	Output Enable	All channels			
Event / Clock Input	Internal	Hot Key			
	External	Channels	3 Event / 1 Clock		
		Mode	Logic AND / Logic OR		
		Threshold	±5V		
		Frequency	200MHz (Max.)		
		Operation	-10V~10V		
		Non Destructive	±30V DC, 12Vpp AC		
		Minimum Pulse Width	5 ns		
Sensitivity	1.5V				
Impedance	200KΩ    7pF				

## Packing List :



Device



USB 3.0 cable



Aux. In/Out Cable



18.5cm Lead Cable



Grippers