

# Acute TravelData Data Generator

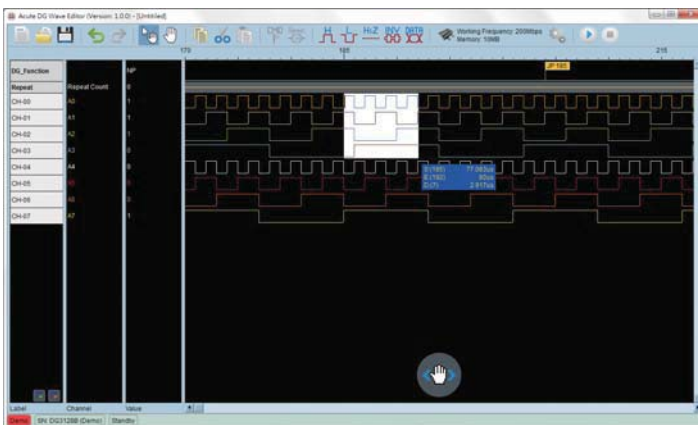


123 x 76 x 21 mm<sup>3</sup>

- PC-based
- USB 3.0 Interface
- Channels : 16 (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), ...

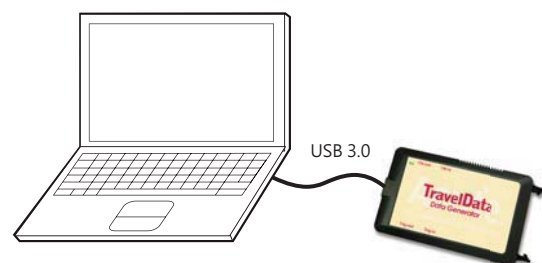
Model	Data Channel	Event Channel	Pattern Depth
TD3116B	16	3	1Mb/ch
TD3216B	16	3	256Mb/ch

## Software Window



## System Requirements

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



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## TD3000 series

Model		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		16		
Memory	Pattern Depth /ch	1Mb	256Mb	
Data Rate		200Mbps @Ch (Max.)		
Operation Clock System	Internal	Range	1Hz ~ 200MHz	
		Resolution	6 digits	
	External	Clock Range	<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		
Data Output	Channels	16 with OE		
	Data Rate	200Mbps @Ch (Max.)		
	Group	2 (ch0~7 & CKO, ch8~15)		
	VoL	0V		
	VoH min.	0.9Vpp @ <= 15Mbps, 1Vpp @ <= 100Mbps, 1.1Vpp @ <= 200Mbps		
	VoH max.	4.5V		
	Minimum Pulse Width	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