

# Acute DG3000 Data Generator

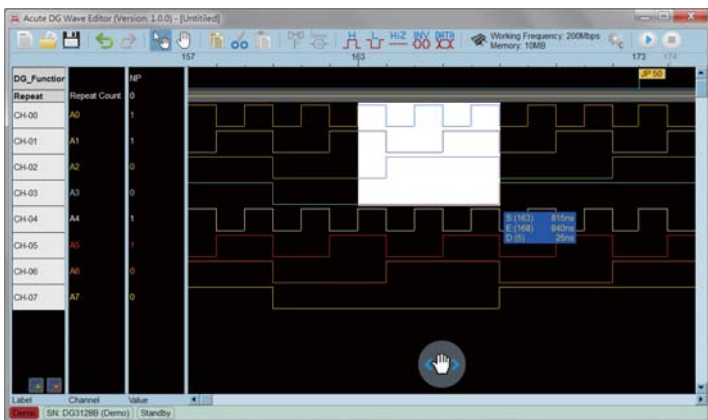


270 x 175 x 55 (mm<sup>3</sup>)

- USB 3.0 interface, 12V power adaptor
- Channels : 112 Max. (Data Output), 16 (Event Input)
- Data rate : 400Mbps @Ch (Max.)
- Memory : 256Mb/ch
- Clock Range : 1Hz ~ 400MHz (6 digits)
- Probe output : 0.8V ~ 5.0V (0.1V resolution) and Hi-Z
- Phase tuning between channels
- Default pattern : RS232, Sync / Async-Counter, I<sup>2</sup>C, I<sup>2</sup>S, SPI, CAN, USB1.1, ...
- User pattern : Direct draw, Acute-LA / Text / VHDL / VCD, ...

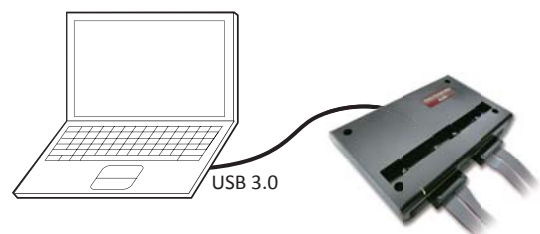
Model	Data Channel	Event Channel	Pattern Depth
DG3064B	48	16	256Mb/ch
DG3096B	80	16	256Mb/ch
DG3128B	112	16	256Mb/ch

## Software Window



## System Requirements

- USB 3.0 port
- Win 7, Win 8, Win 10 (64 bit)
- PC RAM 16GB (recommended) or 8GB at least



# Acute<sup>®</sup>

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# DG3000 series

Model	DG3064B		DG3096B	DG3128B
Power	Power Source	12V Power adapter		
	Static Power Dissipation	9W	12W	18W
	Max Power Dissipation	24W	30W	36W
Hardware Interface	USB 3.0			
Number of Output Channels	48		80	112
Memory	Total Memory Size	32Gb		
	Pattern Depth	256Mb/ch		
Data Rate	400Mbps @Ch (Max.)			
Operation Clock System	Internal	Range	1Hz ~ 400MHz	
		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		
Event	Internal	Hot Key		
		Channel	16	
	External	Mode	Logic AND / Logic OR	
		Threshold	-0.5V ~ 4.5V	
Phase Tuning Delayed	Channels	All		
	Time	> 300Mbps : No, < 300Mbps : 8 Phases from 0 to 1UI		
Temperature	Operating / Storage	5°C~45°C (41°F~113°F) / -10°C~65°C (14°F~149°F)		
Software Features	Languages	English / Traditional Chinese / Simplified Chinese		
	Save & Load Waveform	Yes		
	Regular Waveform Generator	Synchronous / Asynchronous Counter, CAN, I <sup>2</sup> C, I <sup>2</sup> S, LIN, SPI, UART, ...		
	Waveform Editing Interface	Waveform Drawing, Script File		
Device Dimension	L x W x H (mm <sup>3</sup> )	270 x 175 x 55		
Weight	Device / Accessories	800g / 1850g		
	DG-pod / Event-pod / OE-pod	1 / 1 / 1	2 / 1 / 1	3 / 1 / 1
Probe	Flying lead cable:			
	DG (DG)/Event (DG, Event)/OE (DG, OE)	4 / 2, 2 / 2, 1	8 / 2, 2 / 2, 1	12 / 2, 2 / 2, 1
	Grippers	80	120	160
DG-Probe/ OE-Probe	Channels	32 for DG / 24 for OE		
	Data Rate	400Mbps @Ch (Max.)		
	VoL	0V		
	VoH min. for DG-Probe	0.8Vpp @ <= 40Mbps, 1.2Vpp @ <= 300Mbps, 1.5Vpp @ <= 400Mbps		
	VoH min. for OE-Probe	1.1Vpp @ <= 50Mbps, 1.3Vpp @ <= 300Mbps, 1.5Vpp @ <= 400Mbps		
	VoH max.	5.0V		
	Minimum Pulse Width	2.5 ns		
	Impedance	CMOS with 20 Ω		
	Fan Out	20mA/ch		
	Output Enable	DG-Probe	2 Group O.E. (16ch/O.E. *2=32ch)	
	OE-Probe	1 Group O.E. + 8ch Independent O.E. (16ch+8ch=24ch)		
Event-Probe	Channels	16 (DG) + 16 (Event)		
	Frequency	200MHz (Max.)		
	Operation	-1V~8V @ 0.1V Resolution		
	Input Voltage (Non-destructive)	±15V DC+AC peak (Max.)		
	Minimum Pulse Width	2.5 ns		
	Sensitivity	~300mV		
	Impedance	1M    5p		

## Packing List :

					<ul style="list-style-type: none"> <li>· USB3.0 (1.8M)</li> <li>· BNC to MCX</li> <li>· Gripper</li> <li>· Software USB Drive</li> <li>· Adapter/Power cord</li> <li>· Instrument handbag</li> </ul>
Device	DG-Pod	Event-Pod	OE-Pod	Flying lead cable	