PC-Based Pattern Generator
PkPG-2000 series

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Purpose

Not only can you apply the PkPG-2000 for circuit emulation, IC testing and ROM simulation, but also can use for protocol simulation and IC programmer. Acute PkPG-2000 provides many popular data waveforms so that is very easy to control, such as "Direct Draw DATA waveform", "TEXT file convert", "Altera waveform convert", "Acute LA waveform convert" and so on. Friendly USER interface help you learn it in short time.

Acute PkPG2000 Features

1. Pocket size, No external power adapter required
2. USB interface, Plug & Play
3. 100MHz high-speed system clock (adjustable)
4. Up to 16-output channels (voltage adjustable)
5. Output-channel can be set as Hi-Impedance in real time.
6. 2 external events and 1 keyboard event control output procedure
7. PG-function LOOP, JUMP, WAIT command support
8. Acute-LA captured file can reform by PkPG2000
9. PkPG2000 is independent with tested unit to PC
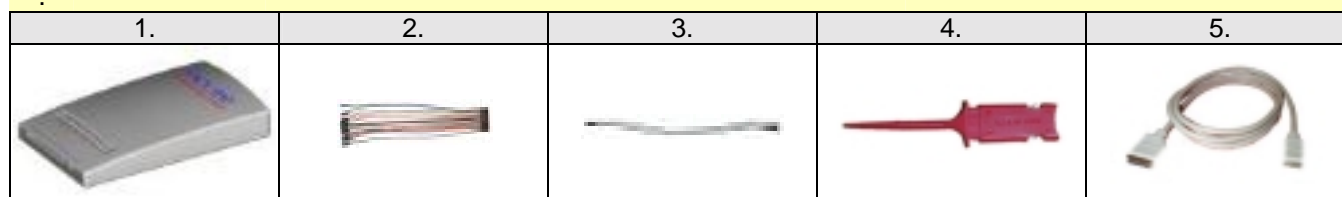10. OS supports Win98/ME/2000/XP

Application

By using Acute-LA, you can capture unknown system signals and reform them by the PkPG-2000. The PkPG-2000 will output these data immediately. If you combine Acute-LA and Acute-PG together, it becomes an auto testing and auto certification system.

Acute will also continually provide other popular interface programs such as PLD and FPGA simulation utility, Test Vector transfer, and more.

For more information about Acute products and the PkPG-2000, please visit our web site. We also provide **free software for your evaluation**.

Pattern Generator PkPG-2000 series equipment

Item	P/N.	Description	PkPG-2016/PkPG-2116
1.	ASPKPG1XAA	PkPG-2000 mainframe	1
2.	CBS20AXXAB	Signal 1x20 color line	1
3.	CBS02AXXAB	Ground 1x2 blk line with red mark	1
4.	GB3STXXXAB	Probe (Red)	22
5.	CBISBABXAA	USB A-B cable (1.8m)	1
6.	DSDL0001CA	Installation CD	1
7.	DSMN0001AA	Acute-PG manual	1
8.	PKCT0002BA	Pocket wallet	1

1.	2.	3.	4.	5.

Now, you just plug the Pocket-PG into USB port and you may start to use it immediately, not require any other peripherals such as power adapter to occupy your space. Really Plug & Play, really portable.

What wonderful things, we make it. You get it.

Pattern Generator —
Acute PkPG-2000 Series Specification & Characteristics

Specification & Characteristics		PkPG-2016	PkPG-2116
Power	Power Source(Internal/External)	USB bus-power (+5V)	
	Static Power Dissipation	0.75W	
	Max Power Dissipation	< 2.5W	
	Protection	Re-settable Fuse (750mA)	
Hardware Interface		**USB**	
Number of Output Channels		16 (ch-0~ch-15)	
Operation Clock System	Internal Operation Clock Range	100MHz ~ 1Hz	
	Internal Operation Clock Mode	Adjustable (Fine tune)	
	Internal Operation Clock Output Channels	1 Channel (ch-19; Voltage = Output Type)	
	External Operation Clock Range	<75MHz	
	External Operation Clock Mode	Internal/External Clock Logic Not , And	
	External Operation Clock Input Channels	1 Channel (ch-18; Voltage = Output Type)	
Data Flow Control		Loop Jump Wait for Event Branch(If command)	
Output Type		5V, 3.3V, 3V, 2.8V, 2.5V, 2.1V, 1.8V, 1.5V, Hi-Z	
Fan out		20mA/ea. (Total < 200mA)	
Data Skew		< 3ns	
Memory	Total Memory Size	2M bits	16M bits
	Memory Depth(in vectors)	64kb/ch	512kb/ch
Event	Internal Event	Hot Key	
	External Event Channel	2 (ch-16, ch-17)	
	External Event Mode	Events Not, Or	
	External Event Threshold	Same as output channel voltage type	
Temperature	Operating Temperature	5°C ~ 45°C (41°F ~ 113°F)	
	Storage Temperature	-40°C ~ 75°C (-40°F ~ 167°F)	
Software Features	Operating System	Windows 98/ME/2000/XP	
	Languages	English/Chinese	
	Save & Load Waveform	Yes	
	Print Waveform	Yes	
	Online Help	Yes	
	Regular Waveform Generator	Synchronous Counter Asynchronous Counter Printer(SPP)	
	Waveform Editing Interface	Waveform Drawing Script File	
	Waveform Conversion	Acute-LA (.LAW) Acute-PG vector file (Text) Altera (.TBL) Customer Requirement	
Volume	Length x Width x Height (mm)	117x72x20(mm)	

System Requirement

- Above Pentium 100 compatible PC or Notebook
- One USB A-type port
- PC memory size above 8M Bytes
- Hard Disc empty space over 8M Bytes
- CD-ROM driver for installation
- 640x480 VGA above, 800x600 recommended
- 101 key keyboard
- Mouse
- OS: Windows 98/ME/2000/XP