



適用於功率元件測試的示波器量測方案

Raymond Zeng

品勛科技股份有限公司(台灣是德科技優秀經銷夥伴) 技術經理

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線上詢價

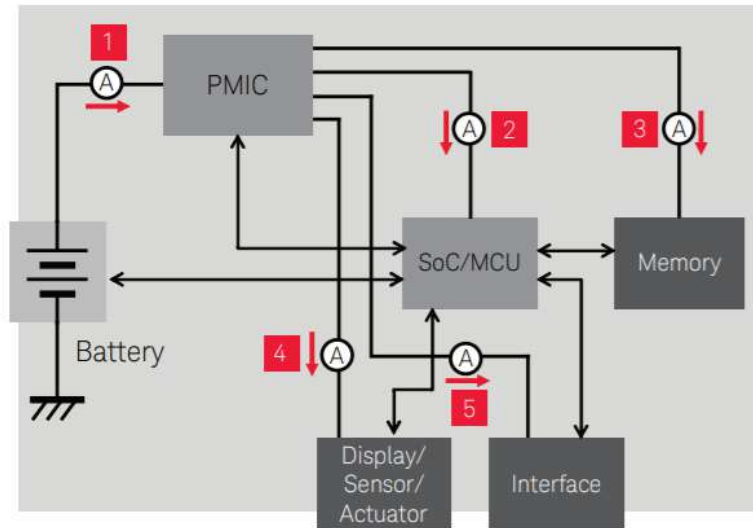


- 分別於台北、新竹、台南皆有據點
- 專業AE 團隊 / 設有開放實驗室
- 提供到府或線上教育訓練
- 網站提供線上諮詢/即時服務

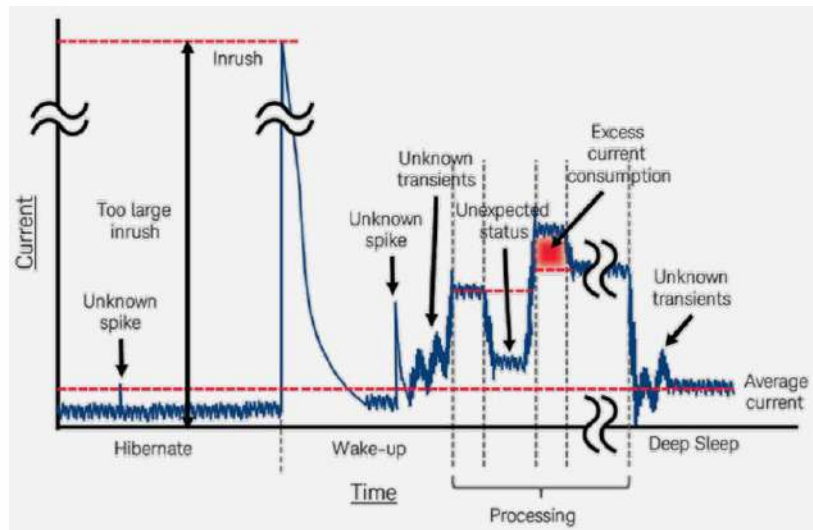


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Power Distribution Network



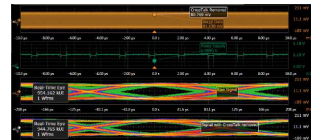
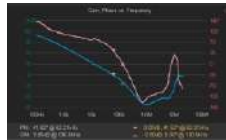
Dynamic current capture



Infiniium EXR-Series

Feature

- 4 or 8 channel (upgradeable)
- 50 MHz arbitrary waveform generator
- 4 digit DVM, 10 digit counters
- Frequency response analyzer (Bode Plot/ PSRR)
- Fault Hunter
- Standard eye diagrams, clock recovery
- Multiple-mask test
- Offline oscilloscope GUI



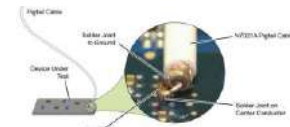
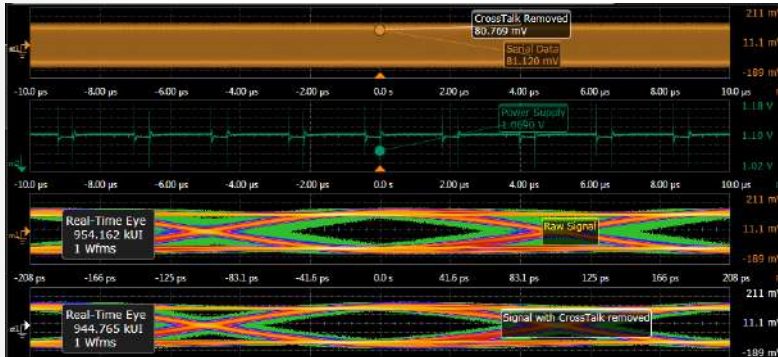
Power Up/Down Sequencing / PMIC Test – Standard

- ◆ Mask testing on every channel
- ◆ “One page report” with timing measurements and failures on screen
- ◆ Analyze control signals with protocol trigger/decoding



Power Distribution – D9010POWA

- Measure DC power rail quality with N7020A probe solution
- Perform “what if” analysis by simulating a cleaner power rail and seeing the net benefits to signal integrity

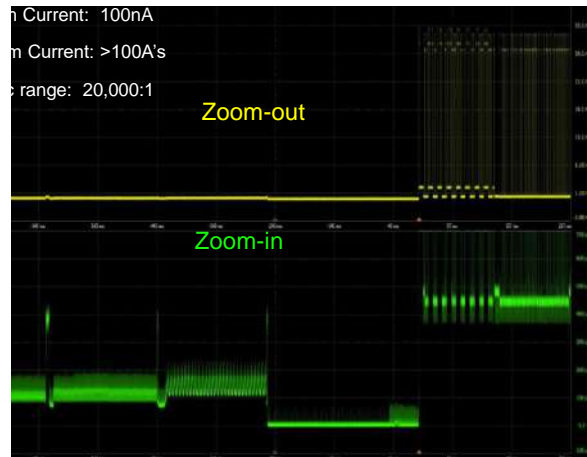


Power Consumption – N2820A/N2821A

Industry's only shunt resistor current probe:
N2820A-Series Current Probes

- ✓ High Sensitivity
- ✓ High Dynamic Range
- ✓ R_{SENSE} : 1m Ω to 1M Ω

Capture and analyze low level current flow in the device under test to characterize sub-circuits or measure current consumption of wireless battery-powered devices or integrated circuits



Hi-Z+ Passive Probing System

HIGH BANDWIDTH AND HIGH VOLTAGE PROBING

Perfect for demanding high-voltage, fast signals, Keysight's new Hi-Z+ passive probing system delivers never before seen performance in a compact, rugged design.

PP0001A...

- ✓ 1 GHz of bandwidth and 300 V_{RMS} of input voltage

PP0002A...

- ✓ 800 MHz bandwidth and 1.2 kV_{RMS} input voltage

PP0003A...

- ✓ MMCX probing with 1 GHz bandwidth and 30 V_{RMS} input voltage

All three offer...

- ✓ A broad selection of connection accessories available
- ✓ Compact, rugged 5 mm tip for probing the tightest spaces



	PP0001A	PP0002A	PP0003A
Bandwidth	1 GHz	800 MHz	1 GHz
Voltage (rms)	300	1200	30
Voltage (peak)*	1500	3000	42.4
Input to scope	Via PP0004A	Via PP0004A	Via PP0004A
Tip style	Cartridge tip	Cartridge tip	MMCX

*peak overvoltage is allowed for a duration of a few milliseconds or less.



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DP001xA Probe Overview

±42V Differential Voltage Probes

- Provide the superior general-purpose differential signal measurements
- Covering portfolio gaps: extended bandwidth and voltage
- AutoProbe1 interface (3000G X-Series and Up)



	DP0010A	DP0011A	DP0012A	DP0013A
Bandwidth	250 MHz	500 MHz	1.0 GHz	1.7 GHz
Maximum differential measurement range	±8.4 Volts peak on 17:1 auto attenuation ranges ±42 Volts peak on 85:1 auto attenuation ranges			
Input impedance	1.7 MΩ // 1.5 pF			



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New Standard Features

INFINIIVISION 3000G X-SERIES OSCILLOSCOPE

➤ The 3000G includes the **best features standard**– enabling **ease of ordering** and eliminating customer need to anticipate optional upgrade requirements at time of purchase.

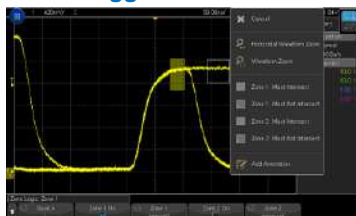


3000G Standard Features

- ✓ **Waveform & measurement histograms**
- ✓ **Built-in waveform generator**
- ✓ **I2C, SPI, UART, I2S, and USB PD trigger & decode**
- ✓ **Mask limit testing**
- ✓ **Measurement limit testing**
- ✓ **Frequency response analysis (Bode plots)**
- ✓ **Enhanced HDTV video analysis**
- ✓ **LAN/VGA connectivity module**

3000G Powerful Tool

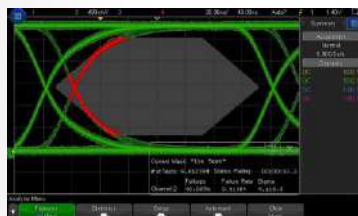
Zone Trigger



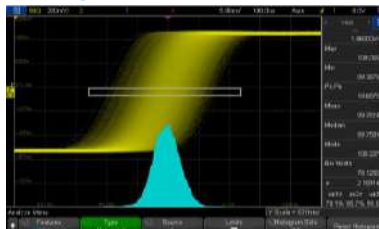
Segmented Memory



Mask Test



Histograms



Standard FRA Feature

- FRA measurement used to characterize frequency response (gain and phase versus frequency) in variety of electronic designs, enabling greater analysis capability.
- Applicable to multiple use-cases, including passive filters, amplifier circuits, and loop response.



Frequency response analysis plot (Bode gain & phase) of a bandpass filter.



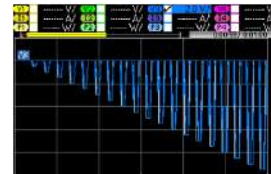
CX3300A Series Device Current Waveform Analyzer



- Wide bandwidth at 200 MHz
- High-resolution/highspeed sampling at 14-bit (1GSa/s)/ 16-bit (75MSa/s)
- Low noise and a wide dynamic range with high sensitivity from sub-nA and sub- μ V
- Long-duration measurement capabilities up to 100 hours maximum
- Waveform analytics, current profiler and more efficient analysis functions on mainframe and PC



N6705C DC Power Analyzer



The powerful instrument:

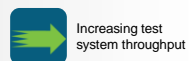
- 1 to 4 modules
- Voltmeter & Ammeter
- Arbitrary waveform generator
- Scope
- Data logger
- Remote Control Interface
- multiple Modules



BV9200 advanced control and analysis software



- Software control of the N6705C, N7900 Series, RP7900 Series
- Measurement visualization (scope, datalogger, CCDF)
- Waveform creation
- Automation



Increasing test system throughput



Characterizing inrush current



Properly powering on/off a DUT



Maintaining output integrity under dynamic load conditions



Generating power transients



Protecting against power related damage



Building a continuous source and load



Tracking power events for root-cause analysis



Characterizing dynamic current profiles



BV9210B Advanced Battery Test and Emulation Software

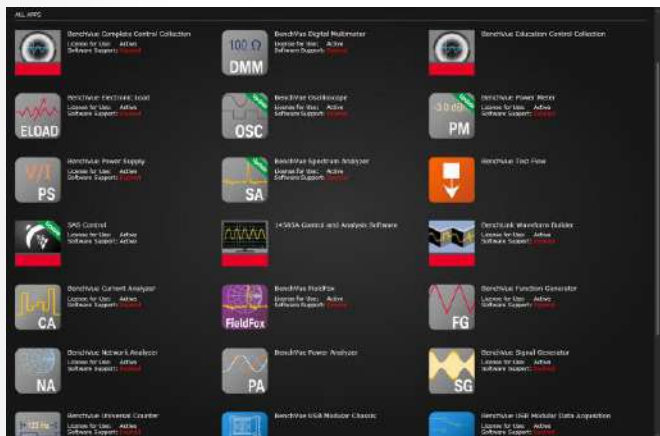


- See how your device consumes power.
- Simulate actual batteries.
- Profile batteries through charge / discharge to create a unique battery model.
- Emulate charge states to reduce test time, improve safety, and test repeatability.



BenchVue

Software Control. Automate. Simplify.



GPIB



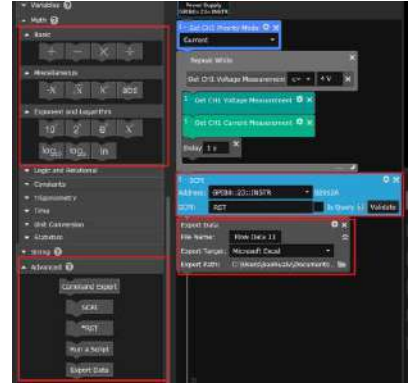
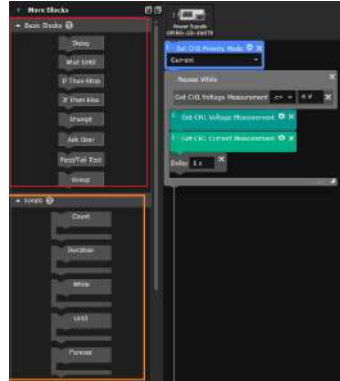
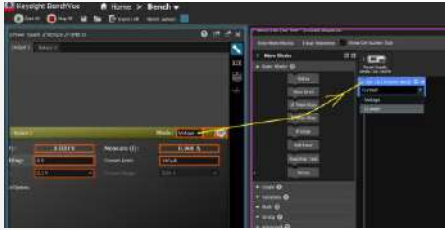
USB



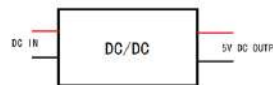
LAN



Test Flow easy setting & Advance function

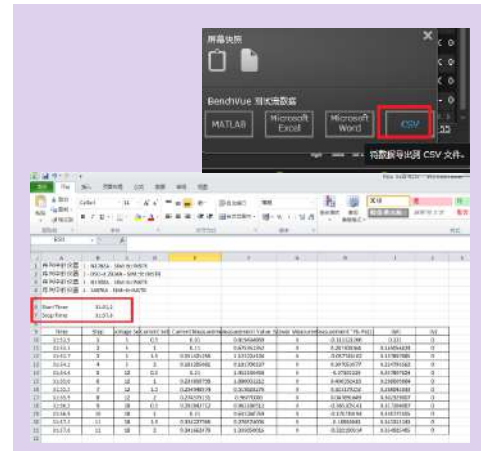


Setup DC-DC measurement



Parameters Set		Measure Result							
Wave	Scope Set	Input	Control	Output Vol	Output Curr	Eff	Temperature	Temp	Other
1	DC								
2	DC								
3	DC								
4	DC								
5	DC								
6	DC								
7	DC								
8	DC								
9	DC								
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100	DC								

Auto calculate: $Eff = P_{out} / P_{in}$



聯絡品勳科技(Keysight經銷商)

產品選購與技術配置協助/到府教育訓練安排請洽

台北總公司

洽詢專線 02-2278-9886

新北市三重區重新路五段609巷12號4樓之12

新竹辦公室

洽詢專線 03-668-1808

新竹縣竹北市復興二路229號2樓之9

台南辦公室

洽詢專線 06-230-0896

台南市歸仁區大光一街59號

