

Premium Used Equipment

SEPTEMBER 2009 CATALOG

DSA90804A Infiniium High Performance Oscilloscope: 8 GHz

Engineered for unmatched real-time measurement accuracy

Agilent's award winning Infiniium DSA90000A Series oscilloscopes provide unmatched real-time measurement accuracy, surpassing even more expensive scopes with higher bandwidths (16 GHz, 20 GHz or 30 GHz) on today's high speed serial signals with data rates up to 8.5 Gb/s.

- 8 GHz bandwidth
- 40 GSa/s on each of 4 analog channels
- 20 Mpts memory per channel upgradeable to industry leading 1 Gpts
- Industry's lowest noise floor at 2.22 mV at 100 mV/div
- Deepest jitter analysis capability (PRBS23) and most accurate real-time Tj and Rj characterization for data rates at 8.5 Gb/s and below

Prices after discount starting at \$61,595

Or lease for as little as \$2,803/month*

** For details on leasing see back cover*



Agilent Technologies

Agilent's Financial Solutions help improve your economy

Economy may be a word you've heard entirely too often lately. As it fluctuates, everyone feels the impact. As a result, many companies today are looking for opportunities to reduce capital expenditures.

But economy can also mean the thrifty and efficient use of resources. And right now that's more important than ever, when limited resources make it a challenge to buy the instruments you need. Because your company can't stand still – you need to develop new products to remain competitive.

That's why Agilent offers financial solutions to help you budget wisely. We understand the challenges you face and want to help you acquire the equipment you need. We offer two acquisition options that save you money: Agilent CertiPrime Premium Used Equipment and Agilent Trade-in.

- **Agilent CertiPrime:** Save 20% to 50% (and occasionally more) on the latest technology by purchasing from the largest inventory of premium used Agilent equipment available anywhere. CertiPrime units meet the same performance standards as our new products do. Plus they come with firmware and software updated to the latest compatible version and a full production calibration, including a printout of test results. Learn more at www.agilent.com/find/CertiPrime.

- **Agilent Trade-in:** Trade on the remaining value of your current equipment – manufactured by Agilent or another vendor – for cash to buy new products, CertiPrime premium used equipment or services. You'll receive a credit worth up to 50% toward the technology you want. It's like discovering additional funds you didn't know you had. Learn more at www.agilent.com/find/trade.

Use these cost-effective solutions to acquire the equipment you need. Contact your account manager to learn how Agilent CertiPrime and Trade-in, used either singly or together, can help improve your economy.

Why Buy Agilent CertiPrime?

CertiPrime makes buying used test equipment almost like buying new instruments – only with a **discount 20% to 50% less** (and occasionally more) than our list price for new products.

You receive a number of key benefits:

Savings: 20% to 50% (and occasionally more) off list price

Quality: Like-new performance

Capabilities: Updated firmware and software

Accuracy: Fully Calibrated with actual test data supplied

Convenience: Same standard accessories and manuals as new units

Confidence: Same warranty and return policy as new products

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Contact us today:

**www.agilent.com/find/contactus
or visit www.certiprime.com**

Base Station Test Set

E7495B Base Station Test Set

Bit Error Ratio Test (BERT) Solutions

N4903A	High-Performance Serial BERT	40% Off
N4906B	Serial BERT	
N5980A	3.125 Gb/s BERT	70% Off

Data Acquisition Hardware & System Switching

34980A Multifunction Switch/Measure Unit

Digital Multimeters, Voltmeters

34410A	Digital Multimeter, 6.5 Digit	
34411A	Digital Multimeter/Digitizer, 6.5 Digit	30% Off

Function/Arbitrary Waveform Generator

33250A	80 MHz Function/Arbitrary Waveform Generator
81150A	1- Or 2-Channel 120 MHz Pulse-/Function-/Arbitrary Generator

Hand-Held Cable Testers

N9330B Handheld Cable and Antenna Tester, 25 MHz - 4 GHz

Impedance Analyzers

4287A	RF LCR Meter, 3 GHz
4294A	Precision Impedance Analyzer
4395A	Network/Spectrum/Impedance Analyzer
4396B	RF Network/Spectrum/Impedance Analyzer
E4980A	2 MHz Precision LCR Meter
E4991A	RF Impedance/Material Analyzer

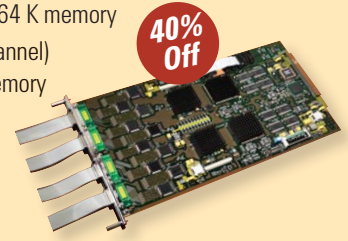
Logic Analyzers

16720A	300M Vector/S Pattern Generator	50% Off
16802A	68 Ch, 4 GHz Timing, 250 MHz State, 1M Deep Logic Analyzer	
16822A	68 Ch, 4 GHz Timing, 250 MHz State, 1M Deep Logic Analyzer with 48 Ch Pattern Generator	
16900A	6-Slot Logic Analysis System Mainframe	65% Off
16901A	2-Slot Logic Analysis System Mainframe, 15-inch Display with Touch Screen	55% Off
16902A	6-Slot Logic Analysis System Mainframe with Built-in Touch Display	60% Off
16902B	6-Slot Logic Analyzer Mainframe with 15-in (38.1 cm) Color Touch Display	
16903A	3-Slot Logic Analysis Mainframe	90% Off
16910A	102 Channel, 4 GHz Timing/250 MHz State, 256 K Deep Logic Analysis Module	
16911A	68 Channel, 4 GHz Timing/250 MHz State, 256 K Deep Logic Analysis Module	

Logic Analyzers continued...

16950B 68-Channel 4 GHz Timing, 667 MHz State Logic Analyzer Module

- 4 GHz (250 ps) timing zoom with 64 K memory
- 1.2 GHz / 600 MHz (half / full-channel) conventional timing with deep memory
- State clock rates up to 667 MHz
- Data rates: up to 1066 Mb/s (Dual Sample), up to 667 Mb/s (Double Data Rate - DDR)

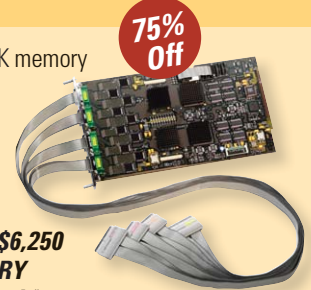


40% Off

Prices after discount starting at \$14,504
FREE OPTION 016-16 MB MEMORY
Or lease for as little as \$660/month*

16950A 68 Channel 4 GHz Timing/600 MHz State Logic Analysis Module

- 4 GHz (250 ps) timing zoom with 64 K memory
- 1.2 GHz / 600 MHz (half / full-channel) conventional timing with deep memory
- Data rates: up to 800 Mb/s



75% Off

Prices after discount starting at \$6,250
FREE OPTION 064-64 MB MEMORY
Or lease for as little as \$284/month*

16903A 3-Slot Modular Logic Analyzer

- 3-slot modular system
- Supports timing/state analyzers and pattern generator
- 12.1 inch color touch screen display, 800 x 600 resolution
- Data views: waveform/chart, listing, packet viewer, source code, compare



90% Off

Prices after discount starting at \$1,547
Or lease for as little as \$70/month*

* For details on leasing see back cover.

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CAPABILITIES

Updated firmware and software mean your instrument operates with the most recent capabilities possible.

N5230A PNA-L Network Analyzer, 2-Ports, Up To 6, 13.5, 20, 40, Or 50 GHz

35%
Off

- 108 dB of dynamic range and <0.006 dB trace noise
- <9 usec/point measurement speed, 32 channels, 16,001 points
- TRL/LRM calibration, on-wafer, in-fixture, and waveguide measurements



**Prices after discount starting at \$63,419
with option 246
Or lease for as little as \$2,886/month***

MSO8104A Infiniium Mixed Signal Oscilloscope: 1 Ghz, 4 Scope and 16 Digital Channels

40%
Off

- 8 Mpts standard memory depth with options to 128 Mpts
- 16 digital channels, time correlated with 4 scope channels
- Pattern and mixed signal triggering across all analog and digital channels



**Prices after discount starting at \$14,504
FREE OPTION 640 - 64 MB MEMORY
Or lease for as little as \$660/month***

MSO7054A Mixed Signal Oscilloscope: 500 MHz, 4 Analog Plus 16 Digital Channels

35%
Off

- 500 MHz bandwidth
- 12.1" XGA display with 256 levels of intensity shows subtle signal detail
- Industry's fastest uncompromised update rate of up to 100,000 waveforms/sec displays infrequent events



**Prices after discount starting at \$9,718
Or lease for as little as \$442/month***

* For details on leasing see back cover.

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CONVENIENCE

You'll never scramble for accessories or manuals – they're the same standard ones we ship with a new unit.

**Offers are valid through
31 December 2009 or while stock lasts**

Logic Analyzers continued...

16950A	68 Channel Logic Analysis Module FREE OPTION 064-64 MB MEMORY	75% Off
16950B	68 Channel, 4 GHz Timing, 667 MHz State, 1 M Deep Logic Analysis Module FREE OPTION 016-16 MB MEMORY	40% Off
16951B	68 Channel, 4 GHz Timing/667 MHz State/ Deep Memory Logic Analysis Module	40% Off

N2X Wireline Test Equipment

E7906A	16-Port 10/100 Ethernet XR Test Card	60% Off
E7907A	2-Port OC-3c/OC-12c ATM/POS/FR Routing Test Card	
N5541A	4-Slot Chassis	50% Off
N5550A	4-Port 10/100 Ethernet XR-2 Test Card	75% Off
N5550B	4x 10/100 Ethernet XR-2 Test Card	
N5551A	4 Port 10/100/1000 Electrical/ Optical XR-2 Test Card (SFP/RJ45)	70% Off
N5551B	4x 10/100/1000 Electrical/Optical XR-2 Test Card (SFP/RJ45)	60% Off
N5552B	2x 10/100/1000 Electrical/Optical XR-2 Test Card (SFP/RJ45)	
N5553B	4x 10/100/1000 Electrical/Optical XP-2 Test Card (SFP/RJ45)	50% Off
N5602A	1-Port 10G XR-2 Test Card (XFP)	
N5603A	1-Port 10G XR-2 Test Card (XFP) Ethernet Only	
N5604A	4x Tri-rate/SFP Ethernet XR-2 EPON Card	65% Off
N5630A	2x 10/100/1000 Electrical/Optical XS-2 Test Card (SFP/RJ45)	85% Off
N5630B	2x Tri-rate/SFP Ethernet XS-2 Card	
N5632A	1-Port 10G XS-2 Test Card (XFP)	

Network Analyzers

8757D	Scalar Network Analyzer, 76 db Dynamic Range, Color Display, AC Or DC Detection	
E5061A	1.5 GHz Network Analyzer	
E5062A	3 GHz Network Analyzer	
E5071B	ENA Series Network Analyzer, 300 kHz to 8.5 GHz	50% Off
E5071C	ENA Series Network Analyzer	
E5091A	Multiport Test Set	50% Off
E8361A	Microwave Vector Network Analyzer, 10 MHz to 67 GHz	35% Off
E8361C	Microwave Vector Network Analyzer, 10 MHz to 67 GHz	
E8362B	10 MHz to 20 GHz Vector Network Analyzer, 2 Port, 4 Receiver	
E8363B	10 MHz to 40 GHz vector Network Analyzer, 2 Port, 4 Receiver	
E8364B	10 MHz to 50 GHz Vector Network Analyzer; 2-Port; 4 Receiver	35% Off
E8364C	10 MHz to 50 GHz Vector Network Analyzer; 2 Port; 4 Receiver	
N4431B	4-Port RF Ecal Module 9 kHz to 13.5 GHz	
N4691B	3.5 mm Ecal Module 300 kHz to 26.5 GHz	
N5230A	PNA-L Network Analyzer	35% Off
N5230C	PNA-L Network Analyzer	
N5242A	10 MHz to 26.5 GHz PNA-X Network Analyzer	

Noise Figure Analyzers

N8975A 10 MHz to 26.5 GHz NFA Series Noise Figure Analyzer 35% Off

Optical Component Test

81600B	Tunable Laser Source Family
8163B	Lightwave Multimeter, Mainframe
8164B	Lightwave Measurement System, Mainframe
86122A	Multi-Wavelength Meter, 1270 nm to 1650 nm

Oscilloscopes

1130A	1.5 GHz InfiniiMax Probe Amplifier	
1134A	7 GHz InfiniiMax Probe Amplifier	
1169A	12 GHz InfiniiMax II Probe Amplifier	
54754A	Differential TDR Module	40% Off
83496A	Clock Recovery Module	60% Off
83496B	Clock Recovery Module	40% Off
86100C	Infiniium DCA-J Oscilloscope Mainframe	
86105B	15 GHz Optical / 20 GHz Electrical Module	
86105C	9 GHz Optical / 20 GHz Electrical Sampling Module, 750 to 1650 nm - SMF and MMF 45%	
86107A	Precision Timebase Reference Module	
86108A	2-Channel Oscilloscope Receiver with Internal Clock Recovery and Precision Timebase	
86112A	20 GHz Dual Channel Electrical Module	
86118A	70 GHz Dual Electrical Module with Remote Sampling Head (2 m cable)	
DSA90404A	Digital Signal Analyzer - 4 GHz, 20 GSa/s, 4-Channel, 20M memory	
DSA90604A	Digital Signal Analyzer - 6 GHz, 20 GSa/s, 4-Channel, 20M memory	30% Off
DSA90804A	Infiniium High Performance Oscilloscope, 8 GHz	30% Off
DSA91204A	Digital Signal Analyzer - 12 GHz, 40 GSa/s, 4-Channel, 20M memory	30% Off
DSA91304A	Digital Signal Analyzer - 13 GHz, 40 GSa/s, 4-Channel, 20M memory	30% Off
DS05054A	500 MHz, 4-Channel Oscilloscope	40% Off
DS06014L	100 MHz, 4-Channel LXI Oscilloscope	65% Off
DS06032A	300 MHz, 2-Channel Oscilloscope	
DS06104L	1 GHz, 4-Channel LXI Oscilloscope	65% Off
DS07034A	350 MHz, 4-Channel Oscilloscope	
DS07054A	500 MHz, 4-Channel Oscilloscope	
DS080204B	Infiniium Oscilloscope - 2 GHz 20/40 GSa/s, 4-Channel	
DS080304B	Infiniium Oscilloscope - 3 GHz 20/40 GSa/s, 4-Channel	
DS080604B	Infiniium Oscilloscope - 6 GHz 20/40 GSa/s, 4-Ch	45% Off
DS080804B	Infiniium Oscilloscope - 8 GHz 20/40 GSa/s, 4-Ch	45% Off
DS081204B	Infiniium Oscilloscope - 12 GHz 20/40 GSa/s, 4-Ch	60% Off
DS081304B	Infiniium Oscilloscope - 13 GHz 20/40 GSa/s, 4-Ch	50% Off
DS090254A	Infiniium Oscilloscope - 2.5 GHz, 20 GSa/s, 4-Channel	
DS090404A	Infiniium Oscilloscope - 4 GHz, 20 GSa/s, 4-Channel	
DS090804A	Infiniium Oscilloscope - 8 GHz, 40 GSa/s, 4-Channel	

Oscilloscopes continued...

DSO5054A 5000 Series Oscilloscope: 500 MHz, 4 Channels

40% Off

- 500 MHz bandwidth
- 8 Mpts acquisition memory standard
- Up to 100,000 waveform per second real-time update rate



Prices after discount starting at \$6,307
Or lease for as little as \$287/month*

54754A Differential & Single-Ended TDR/TDT Module

40% Off

- Two 18-GHz channels that have built-in TDR step generators
- Two built-in step generators configurable for 1-port, 2-port common mode, or 2-port differential TDR or TDT measurements
- Characteristic rms noise: 0.25 mV (12.4 GHz BW), 0.5 mV (18 GHz BW)



Prices after discount starting at \$8,650
Or lease for as little as \$394/month*

N6705A DC Power Analyzer, Modular, 600W, 4 Slots

35% Off

- 4-slot mainframe holds up to 600W of total power and up to 4 modules, with 21 DC power modules to choose from
- Voltmeter Accuracy: Up to 0.016% + 1.5 mV, up to 18 bits
- Ammeter Accuracy: Up to 0.03% + 15 μ A, up to 18 bits



Prices after discount starting at \$4,225
Or lease for as little as \$192/month*

* For details on leasing see back cover.

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QUALITY

Agilent-certified technicians make sure your unit works just like it did when it left the manufacturing line.

E4440A PSA Series Spectrum Analyzer, 3 Hz - 26.5 GHz

- +/-0.19 dB absolute amplitude accuracy
- -155 dBm displayed average noise level (DANL)
- Standard 10 MHz analysis bandwidth
- Flexible platform with 16 optional, easy-to-use built-in measurement personalities



35% Off

Prices after discount starting at \$45,354 with options 1DS\B7J
Or lease for as little as \$2,064/month*

E8267D PSG Vector Signal Generator, up to 44 GHz

- 250 kHz to 20, 31.8, or 44 GHz (.001 Hz resolution)
- +22 dBm @ 20 GHz and +18 dBm @ 40 GHz output power (typ)
- 160 MHz (extendable to 2 GHz) RF modulation bandwidth



40% Off

Prices after discount starting at \$59,829 with options 005\520\602\UNW\UNX
Or lease for as little as \$2,722/month*

E4438C ESG Vector Signal Generator

- 250 kHz to 1, 2, 3, 4, or 6 GHz (.01 Hz resolution)
- 160 MHz RF modulation bandwidth
- Internal baseband generator (80 MHz RF BW): arbitrary waveform and real-time I/Q



35% Off

Prices after discount starting at \$31,417 with options 005\506\602\UNJ
Or lease for as little as \$1,429/month*

* For details on leasing see back cover.

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ACCURACY

Full production calibration (with actual test data if available on new) ensures you get accurate measurements and meaningful test results.

Offers are valid through
 31 December 2009 or while stock lasts.

Oscilloscopes continued...

MSO6014A	4+16-Channel, 100 MHz Mixed Signal Oscilloscope	
MSO6034A	4+16-Channel, 300 MHz Mixed Signal Oscilloscope	
MSO6054A	4+16-Channel, 500 MHz Mixed Signal Oscilloscope	
MSO6102A	2+16-Channel, 1 GHz Mixed Signal Oscilloscope	
MSO6104A	4+16-Channel, 1 GHz Mixed Signal Oscilloscope	50% Off
MSO7034A	350 MHz, 4+16 Channel MSO	
MSO7054A	500 MHz, 4+16 Channel MSO	
MSO7104A	1 GHz, 4+16 Channel MSO	
MSO8104A	Infiniium MSO - 1 GHz, 2/4 GSa/s, 4+16 Channel	40% Off
	FREE OPTION 640 - 64 MB MEMORY	

Phase Noise Measurement

E5052A	10 MHz to 7 GHz Signal Source Analyzer	
E5052B	10 MHz to 7 GHz Signal Source Analyzer	
E5053A	Microwave Downconverter	40% Off
E5505A	Bench or ATE Phase Noise Test System	45% Off

Power Meters & Power Sensors

E4416A	Single Channel EPM-P Series Power Meter	
E4417A	Dual Channel EPM-P Series Power Meter	
E4419B	Dual Channel EPM Series Power Meter	
N1911A	P-Series Power Meter Single Channel	30% Off
N1912A	P-Series Power Meters, Dual Channel	
N1921A	P-Series Wideband Power Sensor, 50 MHz-18 GHz	30% Off
N1922A	Series Wideband Power Sensor, 50 MHz-40 GHz	40% Off

Power Supplies

66319D	Mobile Communication Dual-Output DC Source, with Battery Emulation, DVM, GPIB.	
N5746A	DC Power Supply 40 V, 19 A, 760 W GPIB, LAN, USB, LXI	
N5747A	DC Power Supply 60 V, 12.5 A, 750 W GPIB, LAN, USB, LXI	
N5766A	DC Power Supply 40 V, 38 A, 1520 W GPIB, LAN, USB, LXI	
N5767A	DC Power Supply 60 V, 25 A, 1500 W GPIB, LAN, USB, LXI	
N6700B	Low-Profile Modular Power System Mainframe, 400 W GPIB, LAN, USB, LXI	30% Off
N6705A	DC Power Analyzer Mainframe	35% Off

Pulse Pattern Generators

81110A	165 / 330 MHz Pulse / Pattern Generator	40% Off
81134A	3.35 GHz 2-Channel Pulse / Pattern Generator	

Signal and Spectrum Analyzers

8563EC	9 kHz-26.5 GHz Portable Spectrum Analyzer	
8564EC	9 kHz-40 GHz Portable Spectrum Analyzer	
8565EC	9 kHz-50 GHz Portable Spectrum Analyzer	
89600S	89600 Vector Signal Analyzer	80% Off
E4402B	ESA-E 9 kHz-3.0 GHz Spectrum Analyzer	40% Off
E4404B	ESA-E 9 kHz-6.7 GHz Spectrum Analyzer	40% Off
E4405B	ESA-E 9 kHz-13.2 GHz Spectrum Analyzer	40% Off
E4407B	ESA-E 9 kHz-26.5 GHz Spectrum Analyzer	40% Off
E4408B	ESA-L 9 kHz-26.5 GHz Spectrum Analyzer	40% Off
E4440A	PSA Spectrum Analyzer 3 Hz - 26.5 GHz	35% Off
E4443A	PSA Spectrum Analyzer 3 Hz - 6.7 GHz	
E4445A	PSA Spectrum Analyzer 3 Hz - 13.2 GHz	
E4447A	PSA High-Performance Spectrum Analyzer 3 Hz to 42.98 GHz	
E4448A	PSA Spectrum Analyzer 3 Hz - 50 GHz	
E7405A	EMC Analyzer 9 kHz to 26.5 GHz	
N9010A	EXA Signal Analyzer	
N9020A	MXA Signal Analyzer	30% Off
N9039A	RF Filter Section 9 kHz - 1 GHz	70% Off
N9340B	Agilent Handheld Spectrum Analyzer	

Signal Generators

E4428C	ESG Analog Signal Generator	
E4438C	ESG Vector Signal Generator	35% Off
E8257D	PSG Analog Signal Generator	
E8267D	PSG Vector Signal Generator	40% Off
E8663B	Analog Signal Generator	55% Off
N5102A	Baseband Studio Digital Signal Interface Module	50% Off
N5181A	MXG Analog Signal Generator	
N5182A	MXG Vector Signal Generator	35% Off
N5183A	MXG Analog Microwave Signal Generator	40% Off
N9310A	RF Signal Generator 9 KHz to 3.0 GHz	30% Off

Wireless Device Test Sets

E5515C	8960 Series 10 Wireless Communications Test Set	
E6601A	Wireless Communications Test Set	65% Off
E6651A	Mobile WiMAX Test Set	60% Off
N4010A	Wireless Connectivity Test Set	
N8300A	Wireless Networking Test Set	40% Off

E5515C 8960 Series 10 Wireless Communication Test Set

- Supports W-CDMA, HSPA, cdma2000, 1xEV-DO, IS-95, GSM, GPRS, EGPRS, TIA/EIA-136, and AMPS mobile phone testing
- Software upgradeable
- 292 to 2700 MHz frequency range
- -127 to -10 dBm output



20% Off

Prices after discount starting at \$39,180 with options 002\003\050
Or lease for as little as \$1,783/month*

N8300A Wireless Networking Test Set

- Multi-format - complete one-box transmitter and receiver test solution for mobile and Fixed WiMAX™ devices and modules
- MIMO/Multi-port Connectivity (option 404) for WLAN 802.11n and WiMAX™ manufacturing test using Broadcast Mode
- Simplify test development with an easy-to-use graphical user interface and SCPI programming:



40% Off

Prices after discount starting at \$24,000 with option 505
Or lease for as little as \$1,092/month*

E6651A Mobile WiMAX™ Test Set

- WiMAX Forum®-validated PCT and NCT solutions
- Flexible base station emulation and RF parametric tests in one integrated unit
- Support for IEEE 802.16e 2005 Protocol Conformance Test (PCT)
- Instrument grade signal source and signal analyzer to 6 GHz



60% Off

Prices after discount starting at \$52,000 with option 503
Or lease for as little as \$2,366/month*

* For details on leasing see back cover.

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CONFIDENCE

We'll answer your questions, fix anything that goes wrong, and take back your unit if you're not happy – at NO COST.

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Premium Used Equipment

In This Edition

**DSA90804A
Infiniium High
Performance
Oscilloscope**
DETAILS ON
FRONT COVER



**30%
Off**

Look inside to see
great deals on Agilent
test equipment.

**Our specials can save you up to
90% off the new product list price.**

**Act now: These deals are good only until
31 December 2009 or while supplies last!**

**www.certiprime.com
1.800.829.4444**

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LEASING and FINANCING AVAILABLE

* Reflects a 24 month leasing contract and requires final investment approval by GE Capital Solutions, and the execution of mutually satisfactory lease documentation. Minimum OEC is \$5,000. Lease terms and conditions are subject to change without notice or obligation.

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