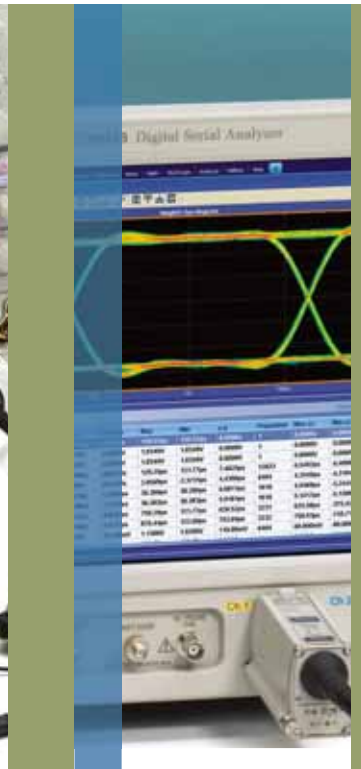


2009 Product Catalog

Test & Measurement Solutions



In this Catalog...

New Products:

Check out our new oscilloscopes created to save you time and money:

The Best Scopes on the Planet



DPO/MSO2000 Series
Powerful, Portable and Affordable
Debug and Analysis



DPO/DSA70000B Series
Industry's Choice for High Speed
Serial Analysis and Compliance

Technology and Applications Solutions pages 3 - 8

Oscilloscopes pages 9 - 15

Visit: www.tektronix.com/oscilloscopes

[Oscilloscope Selection Guide pages 9 - 11](#)

Spectrum Analyzers page 16 - 17

Visit: www.tektronix.com/spectrum_analyzers

Probes and Accessories pages 18 - 19

Visit: www.tektronix.com/accessories

[Probes Selection Guide page 18](#)

Logic Analyzers pages 20 - 21

Visit: www.tektronix.com/logic_analyzers

[Logic Analyzers Selection Guide page 20](#)

Signal Generators pages 22 - 23

Visit: www.tektronix.com/signal_generators

[Signal Generators Selection Guide page 22](#)

Handheld Test Tools (Multimeters, ScopeMeter®) page 24

Visit: www.fluke.com

MPEG and Video Signal Analyzers page 25

Visit: www.tektronix.com/video

Service pages 26 - 27

Visit: www.tektronix.com/service

www.tektronix.com

The Tektronix web site is your reliable resource for complete, up-to-date product information, application solutions, selection guides, and more.

Resources

For the detail you need, please see the following resources on the Tektronix web site.

Technical Content

For a better understanding of the fundamentals of your product, or the latest technology and application information.

Visit: www.tektronix.com/techpapers

Service

- Online look-up Tool
- Calibration

For complete Service information, visit: www.tektronix.com/service

MyTekResources

- Download Manuals
- Access to Software and Drivers
- Check on Order Status
- Review Service Status
- My Product Support
- Webinars

See www.tektronix.com/mytek

Product Demos

Test-drive some of our products with our web demos. Our demos are sprinkled throughout the web site on the product hub pages.

Visit www.tektronix.com

Webinars

To help solve your application problems.

See our webinars at: www.tektronix.com/tutorials

Tektronix RSS Feeds

All the latest information when you want it.



For further details visit: www.tektronix.com/rss

Probes and Accessories

Find the best probe for your needs with the Interactive Probe Selector Tool.

Visit: www.tektronix.com/probes

Technology and Application Solutions

Keep up-to-date on the latest technologies and applications with Tektronix at:
www.tek.com/Measurement/applications/



Serial Data

www.tektronix.com/serial_data



Embedded Systems

www.tektronix.com/embedded



RF/Microwave

www.tektronix.com/rf



Digital Video

www.tektronix.com/Measurement/applications/video_apps.html

Other Applications

www.tektronix.com/Measurement/applications



PCI Express

PCI Express Design Challenges Need Fast, Accurate Answers

PCI Express 2.0 testing requires dual-port acquisition and 1 million unit interval analysis. Tektronix oscilloscopes provide full sample rate and deep memory on all channels required for compliance testing. The DPO70000B features channel emulation, equalization and up to 20 GHz Bandwidth which enables 5th harmonic measurements on 3rd generation data rates to 8 Gb/s.

Recommended Products:

Oscilloscopes and Application Software:

- DSA70000B Series Real Time Oscilloscopes
- DPOJET Jitter and Eye Analysis Software
- DSA8200 Sampling Oscilloscope with 80E08 module
- IConnect[®] S-parameters and Z-Line software 80SSPAR

Probing:

- P7300SMA Series SMA Differential Probing System
- P7300 and P7500 Series TriMode Differential Probes
- P80318 TDR hand probes

Logic Analyzers:

- TLA7000 Series
- TLA7Sxx Serial Analyzer module
- TLA SW version 5.1 or higher and protocol disassembly software

Signal Generators:

- AWG7000 Series
- AFG3000 Series

Spectrum Analyzers:

- RSA6000 Series

For more information visit:

www.tektronix.com/pci_express

Serial ATA

Powerful Serial ATA Automated Compliance Toolset Saves Time and Effort

Serial ATA test requirements are some of the most complex among current serial data standards. With a full toolset for characterization you will know how much margin your design really has. Tektronix' one-button solution for device state control and test automation allow you to focus your attention on other priorities.

Recommended Products:

Oscilloscopes and Application Software:

- DSA70000B Series Real Time Oscilloscopes
- TekExpress SATA Compliance Automation Software
- TDSRTEye Serial Data Compliance and Analysis software
- TDSJIT3 Advanced Jitter Measurement and Analysis software
- SATA Eye Pattern Compliance Software
- DSA8200 Series Sampling Oscilloscope
- TDR and S-Parameter Software 80SSPAR

Probing:

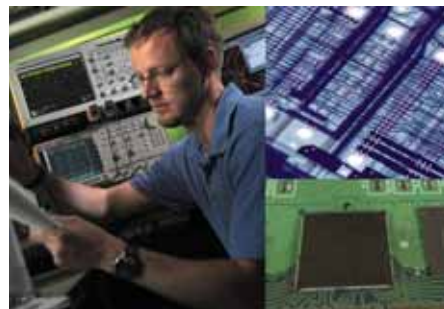
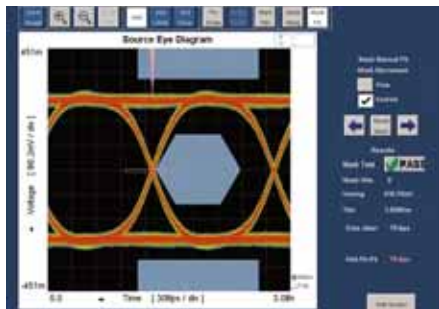
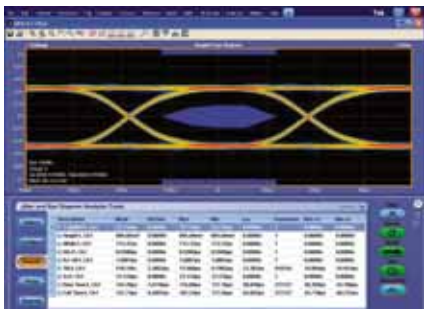
- P7313SMA Differential probes

Signal Generators:

- AWG7000 Series Arbitrary Waveform Generators

For more information visit:

www.tektronix.com/serial_data



DisplayPort

Powerful, Efficient Solution for DisplayPort Compliance Measurement Challenges

DisplayPort compliance testing for CTS v1.0 and v1.1 requires timing/jitter measurements for Source validation, impedance tests for cables and confirming clock recovery with low bit error rates on Sink tests. Simplify your DisplayPort tests for CTS v1.0 and v1.1 with Tektronix automated toolset for Source, Sink and Cable. Tektronix suite of oscilloscopes, signal sources and signal analysis tools enable you to resolve design challenges quickly and efficiently.

Recommended Products:

Source Testing:

- DPO/DSA70000B Series Real Time Oscilloscopes
- Automated DisplayPort Source Test Software Opt. DSPT
- DPOJET Jitter and Eye Diagram Analysis Tool
- P7380SMA Probes
- TPA-P and TPA-R Test Fixtures

Sink Testing:

- AWG7102 Arbitrary Waveform Generator
- DPO/DSA70000B Series Real Time Oscilloscopes
- TekExpress DisplayPort Compliance Automation Software
- DPOJET Jitter and Eye Diagram Analysis Tool
- TPA-P and TPA-R Test Fixtures
- Attenuators

Cable Testing (Passive & Active):

- DSA8200 Sampling Oscilloscope
- TDR Module 80A04
- Pattern Sync Module 80A06
- TDR and S-Parameter Software 80SSPAR
- Jitter Analysis Software 80SJNB
- TPA-P and TPA-R Test Fixtures

For more information visit:
www.tektronix.com/displayport

HDMI

Complete HDMI Compliance Test Solution for CTS V1.3c

Tektronix comprehensive automated sink, source and cable test solution addresses all requirements of the latest revision of the HDMI test specification CTS V1.3c and DVI specification. Four channel testing capability enables faster and more reliable testing with the results easily generated in a consolidated HTML report.

Recommended Products:

Oscilloscopes and Application Software:

- DPO70000B Series Real Time Oscilloscope with TDSHT3 Compliance Test software
- DSA8200 Sampling Oscilloscope
- TDR and S-Parameter Software 80SSPAR
- Pattern Sync Module 80A06 1
- Jitter Analysis Software 80SJNB

Probing:

- P7313SMA Differential probe

Signal Generators:

- AWG7102 Arbitrary Waveform Generator
- DTG5334 with DTGM30

Test Fixtures:

- TPA-P and TPA-R

For more information visit:
www.tektronix.com/hdmi

Memory

Better Memory Designs, In Less Time, with The Right Tools.

Engineers integrating DDR devices into their designs face many challenges, like separating read/write bursts and debugging protocol violations.

The sophisticated triggering and software analysis packages available on the DPO Series Oscilloscopes and integrated DDR support in the Tektronix TLA Logic Analyzers enable designers to quickly validate and debug DDR designs.

Shrinking package size and type have also created enormous access challenges. Tektronix probing and fixture solutions simplify DDR testing with minimal system loading.

Recommended Products:

Logic Analyzers:

- TLA7000 Series

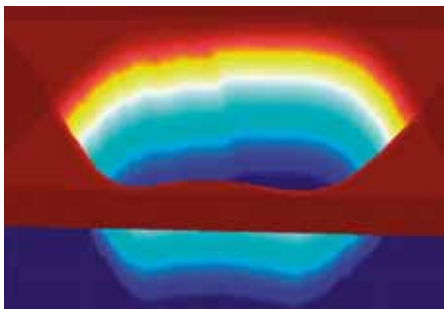
Oscilloscopes:

- DPO/DSA70000B Series Real Time Oscilloscope
- DDR Analysis Option (Opt. DDRA)

Probing & Fixtures:

- P7500 TriMode™ Differential probes
- P7313/P7313SMA Differential probes
- P7380A/P7380SMA Differential probes
- P7360A Differential probe
- P8018 Single Ended/P80318 Differential TDR probes
- P6800/P6900 Series
- Nexus Technology NEX-TDSFBPD and TDSN4238B

For more information visit:
www.tektronix.com/memory



Jitter/Noise Analysis

Solving Jitter Debug and Analysis Challenges Made Easy

Tektronix offers jitter measurement solutions for signals ranging from low-speed digital to ultra-high speed serial data. Real-time oscilloscopes provide electrical measurement and debug capability to support standards up to 8 Gigabits.

For electrical standards above 8 Gigabits, and optical standards above 2.5 Gigabits, Tektronix offers the DSA8200 Series sampling oscilloscope with optical and electrical capabilities for 40 Gigabit OC-768 and beyond.

For solving jitter problems on low level and low noise signals, or for measuring the very small amounts of jitter often found on clocks, Tektronix offers Real Time Spectrum Analyzers (RTSA) that enable engineers to measure and characterize jitter over a wide dynamic range

Recommended Products:

Oscilloscopes and Application Software:

- DPO70000B Series Real-time Oscilloscopes
- DPOJET Jitter and Eye Diagram and Analysis Tools
- DSA8200 Sampling Oscilloscopes
- 80SJNB Jitter, Noise and BER Analysis Software
- IConnect[®] and MeasureXtractor[™] Signal Integrity TDR and S-parameter software

Probing:

- P7313/P7313SMA Differential probes
- P7500 TriMode Probes

Signal Generators:

- AWG7000/AWG5000 Series Arbitrary Waveform Generator
- DTG5000 Series Data Timing Generators

Real-Time Spectrum Analyzers:

- RSA3000 Series

For more information visit:
www.tektronix.com/jitter



Signal Integrity, Time Domain Reflectometry (TDR) and S-parameter Measurements

Signal integrity measurements are a critical step in the process of developing digital systems. The task of isolating and eliminating signal integrity problems anywhere in the system is challenging. You need solutions with the bandwidth and time-saving features to properly address high-speed signal deviations, including digitizing oscilloscopes, logic analyzers, real-time spectrum analyzers, time-domain reflectometry solutions, signal generators, high-fidelity probes, and analysis software. Learn about these solutions that let you quickly locate and trace faults back to their source, eliminating schedule delays and reliability issues.

Recommended Products:

Oscilloscopes and Application Software:

- DSA8200 Sampling Oscilloscope
- IConnect[®] advanced and MeasureXtractor[™] Signal Integrity TDR and S-parameter software
- 80SJNB Jitter, Noise and BER Analysis software

Probing:

- P8018 Single Ended/P80318 Differential TDR probes

For more information visit:
www.tektronix.com/signal_integrity



Receiver Testing

Overcoming RX Testing Challenges Using an Arbitrary Waveform Generator

As a designer specializing in receiver test, you seek easy signal generation of very complex serial data signals. Tektronix offers a solution that delivers the ultimate in signal and impairment generation.

- SIMPLE: Single-instrument solution for high-speed-serial-data signal and impairment generation up to 8 Gb/s.
- FLEXIBLE: Ability to generate very complex signals including an unlimited combination of jitter profiles, ISI, SSC, Out-of-band signals, embedded channel/fixture effects and more.
- REPEATABLE: File-based solution enabling sharing and repeatable receiver tests under the same conditions.

Recommended Products:

Signal Generators:

- AWG7000/AWG5000 Series Arbitrary Waveform Generator
- RFXpress[®] Software for RF/IF/IQ waveform creation and editing
- SerialXpress[®] Software for high speed serial data signal creation and editing

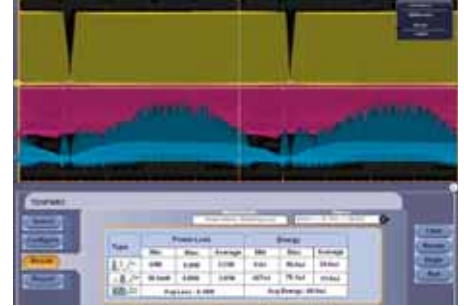
Oscilloscopes and Application Software:

- DPO70000B Series Real-time Oscilloscopes
- DPOJET Jitter and Eye Diagram and Analysis Tools

Probing:

- P7313/P7313SMA Differential probes
- P7500 TriMode Probes

For more information visit:
www.tektronix.com



I²C, SPI, RS-232, CAN, LIN, FlexRay, I²S

Comprehensive Solutions for Fast Debug of Serial Buses

Serial buses are pervasive in today's embedded systems. Now, troubleshooting a system level problem often requires decoding a complex serial data signal. Tektronix offers integrated serial triggering, protocol decoding and comprehensive analysis capabilities to help you speed the debug of your design.

Recommended Products:

Oscilloscopes and Application Software:

- MSO/DPO2000, DPO3000 or MSO/DPO4000 Series
- DPO4AUTOMAX - Extended Automotive Serial Triggering and Analysis Module (CAN, LIN, FlexRay)^{*1}
- DPO2AUTO, DPO3AUTO, and DPO4AUTO - Automotive Serial Triggering and Analysis Module (CAN, LIN)
- DPO2EMBD, DPO3EMBD, and DPO4EMBD - Embedded Serial Triggering and Analysis Module (I²C, SPI)
- DPO2COMP, DPO3COMP and DPO4COMP - Computer Serial Triggering and Analysis Module (RS-232/422/485/UART)
- DPO3AUDIO and DPO4AUDIO - Audio Serial Triggering and Analysis Module (I²S/LJ/RJ/TDM)^{*2}
- DPO7000 Series Real Time Oscilloscope
- DPOJET Jitter and Eye Diagram Analysis - Advanced
- DPOJET Jitter and Eye Diagram Analysis - Essentials
- TDSVNM CAN and LIN Timing and Protocol Decode Software

Probing:

- TDP0500 and TDP1000 Series Differential Probes

Logic Analyzers:

- TLA5000B Series
- TLA7000 Series
- Microprocessor/Bus Support

Signal Generators:

- AFG3000 Series Arbitrary Function Generator
- AWG5000B Series Arbitrary Waveform Generator

For more information visit:

www.tektronix.com/embedded

^{*1} MSO/DPO4000 Series Only

^{*2} MSO/DPO4000 and DPO3000 Series Only

Power Measurement and Analysis

Transform Your Tektronix Oscilloscope Into an Ideal Tool for Power Measurement and Analysis

Today's power supplies are driving to a level of efficiency never seen before, requiring design engineers to perform numerous specialized power measurements that are time-consuming and complex. Tektronix offers an array of power measurement solutions to help you achieve fast, accurate and repeatable results for your specific application.

Recommended Products:

Oscilloscopes and Application Software:

- TPS2000 Series
- TPS2PWR1 Power Measurement and Analysis Software
- DPO3000 Series
- DPO3PWR Power Analysis Module
- DPO3PWRBND Power Solution Bundle
- MSO/DPO4000 Series
- DPO4PWR Power Analysis Module
- DPO4PWRBND Power Solution Bundle
- TDS5000B Series
- TDSPWR3 Power Measurement and Analysis Software
- DPO7000 and DPO70000B Series
- DPOPWR Power Measurement and Analysis Software

Probing:

- TCP0030 / TCP0150 AC/DC Current probes
- TCP202 Current probe
- TCPA300/400 Series Current probes and amplifiers
- P5100 Passive High Voltage probes
- P5200/P5205/P5210 High Voltage Differential probes
- TDP0500/TDP1000 High Voltage Differential probes
- P6250/P6251 High Voltage Differential probes

Signal Generators:

- AFG3000 Series Arbitrary Function Generator

For more information visit:

www.tektronix.com/power



FPGA Validation

Tools to Optimize Real-Time FPGA Debug

Field Programmable Gate Arrays (FPGAs) continue to grow in performance and flexibility. However, increasing gate counts, advanced logic programming, and increasing signal frequencies with tighter timing margins make debug and design verification a challenging process when implementing an FPGA-based design.

Tektronix mixed signal oscilloscopes (MSOs) and logic analyzers with FPGAView[®] enable you to correlate internal FPGA signal activity to board-level signals and instantly move probe points within Altera and Xilinx FPGAs without the need to recompile your design.

Recommended Products:

Logic Analyzers:

- TLA5000B Series
- TLA7000 Series

Mixed Signal Oscilloscopes:

- MSO2000 Series
- MSO4000 Series

Application Software:

- FPGAView[®] Software

For more information visit:
www.tektronix.com/fpga

Microprocessor Validation

System-Level Troubleshooting for Fast Design Verification and Test of Microcontrollers and Microprocessors

The number and types of microprocessors and microcontrollers enable powerful embedded system performance but can make design verification and debugging a test challenge. The growing combination of signal processing variables increases the number of communication paths in the design, adding to system complexity. Tektronix instruments provide a better system view of mixed signal performance, enabling you to speed up the design verification and test of microcontrollers and microprocessors in your embedded system.

Recommended Products:

Logic Analyzers:

- TLA5000B Series
- TLA7000 Series
- P6400 & P6800/P6900 Series Probes
- Microprocessor/Bus Support

Oscilloscopes:

- MSO/DPO2000 Series
- DPO3000 Series
- MSO/DPO4000 Series
- DPO7000 Series
- DPO70000B Series

Probing:

- TDP0500/TDP1000/TDP1500/TDP3500 High Voltage Differential Probes
- TAP1500/TAP2500/TAP3500 Active Probes

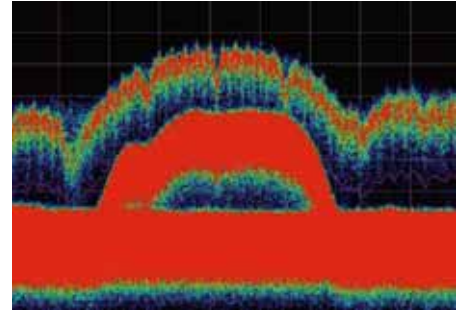
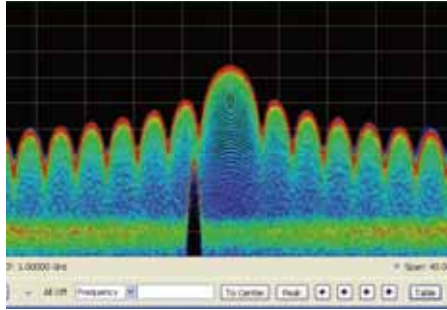
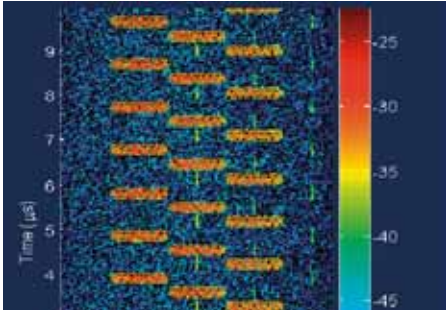
Signal Generators:

- AFG3000 Series Arbitrary/Function Generator
- AWG5000B Series Arbitrary Waveform Generator
- AWG7000B Series Arbitrary Waveform Generator

Application Software:

- DPOJET Jitter and Timing Analysis Software
- iLink[™] Logic Analyzer/Oscilloscope Integration Package

For more information visit:
www.tektronix.com/fpga



WiMedia UWB

Faster, Easier, and More Affordable Ultra-Wideband Designs

WiMedia UWB technologies will revolutionize high-speed personal area networks, but the test requirements are some of the most complex in the wireless industry. Our industry-leading signal generation and analysis hardware platforms and software solutions will improve time-to-market for your reliable UWB designs.

Recommended Products:

Receiver Testing:

- AWG7000 Series Arbitrary Waveform Generator with RFXpress[®] software

Transmitter Testing:

- DPO/DSA70000B Series Oscilloscope with UWB software

For more information visit:
www.tektronix.com/wimedia

Radar

Performance, Precision and Insight for Your Radar/Electronic Warfare Design

With today's rapid advances in radar/electronic warfare technology, developing and manufacturing highly specialized and innovative electronic products requires leading-edge technology and tools. Our innovative test equipment reduces uncertainty during the design process and delivers confidence in the integrity of increasingly complex designs.

Recommended Products:

Receiver/Stimulus Test:

- AWG5000 Series Arbitrary Waveform Generator with RFXpress[®] software
- AWG7000 Series Arbitrary Waveform Generator with RFXpress[®] software

Transmitter Analysis:

- RSA6100 Series Spectrum Analyzer
- RSA3000 Series Spectrum Analyzer
- DPO/DSA70000B Series Oscilloscope with SignalVu[™] software
- DPO7000 Series Oscilloscope with SignalVu[™] software
- Ultra-wideband Analysis software

For more information visit:
www.tektronix.com/radar

Spectrum Management

Accuracy and Insight All Across the Spectrum

Solve today's demanding signal detection and exploitation challenges with world-class instrumentation for detection, identification, mapping, and hunting down signals or sources of interference. DPX[™] Live RF spectrum display will change the way you search and discover elusive signals.

Recommended Products:

Spectrum Management:

- H600/SA2600 Series Handheld Spectrum Analyzer
- RSA3000 Series Spectrum Analyzer
- RSA6000 Series Spectrum Analyzer

For more information visit:
www.tektronix.com/surveillance



TDS2000B Series



TPS2000 Series



TDS3000C Series

Oscilloscope Product Selection

	TDS1000B/TDS2000B	TPS2000	TDS3000C	DPO2000	MSO2000
Channels	2, 4	2, 4 (isolated)	2, 4	2, 4 analog channels	2, 4 analog channels 16 digital channels
Bandwidth	40 MHz to 200 MHz	100 MHz to 200 MHz	100 MHz to 500 MHz	100 MHz and 200 MHz	100 MHz and 200 MHz
Rise Time	8.4 ns to 2.1 ns	3.5 ns to 2.1 ns	3.5 ns to 700 ps	3.5 ns to 2.1 ns	3.5 ns to 2.1 ns
Sample Rate	500 MS/s to 2 GS/s	1 GS/s to 2 GS/s	1.25 GS/s to 5 GS/s	1 GS/s (analog)	1 GS/s (analog) 1 GS/s (digital, only 1 pod) 500 MS/s (digital, both pods)
Max Record Length	2.5 k	2.5 k	10 k points	1 M	1 M
Trigger Types	Edge, Pulse (width), Video	Edge, Pulse (width), Video	Edge, Logic (Pattern, State), Pulse (Glitch, Width, Runt, Slew Rate), Video, Comm* *Optional	Edge, Pulse Width, Runt, Logic, Set-up and Hold, Rise/Fall Time, Video, I ² C*, SPI*, CAN*, LIN*, RS-232/422/485/UART* *Optional	Edge, Pulse Width, Runt, Logic, Set-up and Hold, Rise/Fall Time, Video, I ² C*, SPI*, CAN*, LIN*, RS-232/422/485/UART*, parallel *Optional
Serial Decode and Analysis				I ² C*, SPI*, CAN*, LIN*, RS-232/422/485/UART* *Optional	I ² C*, SPI*, CAN*, LIN*, RS-232/422/485/UART* *Optional
Connectivity	USB Host, USB Device, GPIB* *Optional	RS-232, Centronics, CompactFlash	USB Host, LAN (10Base-T Ethernet), GPIB*, RS-232*, Video Out* *Optional	USB Host, USB Device, GPIB*, LAN (10/100-Base-T Ethernet)*, Video Out* *Optional	USB Host, USB Device, GPIB*, LAN (10/100-Base-T Ethernet)*, Video Out* *Optional
Waveform Math and Analysis	Arithmetic Waveform Math, FFT	Arithmetic Waveform Math, FFT	Arithmetic Waveform Math, FFT, Advanced Math	Arithmetic Waveform Math, FFT* *Available via firmware update after March 2009	Arithmetic Waveform Math, FFT* *Available via firmware update after March 2009
Software	PC communications software: OpenChoice® Desktop, NI LabVIEW Signal Express® Tektronix Edition			PC communications software: OpenChoice® Desktop, NI LabVIEW Signal Express® Tektronix Edition Analysis Software: DPO2EMBD, DPO2COMP, DPO2AUTO, DPO2CONN	
Applications	<ul style="list-style-type: none"> ■ Design and Debug ■ Education and Training ■ Manufacturing Test and Quality Control ■ Service and Repair 	<ul style="list-style-type: none"> ■ Portable Power Troubleshooting ■ Advanced Electronics Design and Installation ■ Automotive Electronics ■ Education 	<ul style="list-style-type: none"> ■ Digital Design and Troubleshooting ■ Video Design & Service ■ Power Supply Design ■ Telecomm Mask Testing and Manufacturing ■ Manufacturing Test & QC 	<ul style="list-style-type: none"> ■ Embedded Design and Debug ■ Investigation of Transient Phenomena ■ Automotive Electronics 	<ul style="list-style-type: none"> ■ Embedded Design and Debug ■ Mixed Signal Design and Debug ■ Investigation of Transient Phenomena ■ Automotive Electronics
	see page 12	see page 12	see page 12	see page 13	see page 13

Probe Selector Tool: Find the best probe for your needs at: www.tektronix.com/probes



DPO3000 Series



DPO4000 Series



MSO4000 Series

Oscilloscope Product Selection

	DPO3000	DPO4000	MSO4000
Channels	2, 4	4	2, 4 analog channels 16 digital channels
Bandwidth	100 MHz to 500 MHz	350 MHz to 1 GHz	350 MHz to 1 GHz
Rise Time	1.17 ns to 700 ps	1 ns to 350 ps	1 ns to 350 ps
Sample Rate	2.5 GS/s	2.5 GS/s to 5 GS/s	2.5 GS/s to 5 GS/s (analog) 60.6 ps (16.5 GS/s) MagniVU [®] (digital)
Max Record Length	5 M	10 M	10 M
Trigger Types	Edge, Sequence, Logic, Pulse, Width, Runt, Set-up and Hold, Rise/Fall Time, Video, Extended Video*, I ² C*, SPI*, CAN*, LIN*, RS232/422/485/UART*, I ² S/LJ/RJ/TDM* *Optional	Edge, Sequence, Logic, Pulse, Width, Runt, Set-up and Hold, Rise/Fall Time, Video, Extended Video*, I ² C*, SPI*, CAN*, LIN*, FlexRay*, RS-232/422/485/UART, I ² S/LJ/RJ/TDM* *Optional	Edge, Sequence, Logic, Pulse, Width, Runt, Set-up and Hold, Rise/Fall Time, Video, Extended Video*, I ² C*, SPI*, CAN*, LIN*, FlexRay*, RS-232/422/485/UART*, I ² S/LJ/RJ/TDM*, Parallel* *Optional
Connectivity	USB Host, USB Device, LAN (10/100 Base-T Ethernet), Video Out, GPIB* *Optional	USB Host, USB Device, CompactFlash, LAN (10/100 Base-T Ethernet), Video Out, GPIB* *Optional	USB, CompactFlash, LAN (10/100 Base-T Ethernet)*, Video Out, GPIB* *Optional
Waveform Math and Analysis	Arithmetic Waveform Math, FFT, Advanced Math, Power Analysis* *Optional	Arithmetic Waveform Math, FFT, Advanced Math, Power Analysis* *Optional	Arithmetic Waveform Math, FFT, Advanced Math, Power Analysis* *Optional
Software	PC Communications Software: OpenChoice [®] Desktop, NI LabVIEW Signal Express [™] , Tektronix Edition Analysis Software: DPO3EMBD, DPO3COMP, DPO3AUTO, DPO3CONN, DPO3VID, DPO3AUD, DPO3POWER	PC Communications Software: OpenChoice [®] Desktop, NI LabVIEW Signal Express [™] , Tektronix Edition Analysis Software: DPO4AUTO, DPO4AUTOMAX, DPO4EMBD, DPO4COMP, DPO4VID, DPO4AUDIO, DPO4PWR	
Applications	<ul style="list-style-type: none"> ■ Embedded Design and Debug ■ Investigation of Transient Phenomena ■ Power Measurements ■ Video Design and Debug ■ Automotive Electronics ■ Manufacturing Test and Quality Control 	<ul style="list-style-type: none"> ■ Embedded Design and Debug ■ Investigation of Transient Phenomena ■ Automotive Electronics ■ Manufacturing Test and Quality Control ■ Industrial Control 	<ul style="list-style-type: none"> ■ Mixed Signal Design and Debug ■ Embedded Design and Debug ■ Investigation of Transient Phenomena ■ Automotive Electronics ■ Manufacturing Test Quality Control ■ Industrial Control

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see page 13

Probe Selector Tool: Find the best probe for your needs at: www.tektronix.com/probes
For the detailed application information you need, see: www.tektronix.com/oscilloscopes



DPO/DSA7000B Series



DSA8200 Series

Oscilloscope Product Selection

See how Digital Phosphor technology provides deeper signal insight for you at: www.tektronix.com/dpo

	DPO7000	DPO/DSA7000B	DSA8200
Channels	4	4	Up to 8
Bandwidth	500 MHz to 3.5 GHz	4 to 20 GHz	DC - 80+ GHz
Rise Time	95 ps to 310 ps	14 ps to 68 ps <small>*User Selectable DSP enhanced.</small>	5 ps
Sample Rate	Up to 40 GS/s	25 GS/s on 4, 6, 8 GHz models; 50 GS/s on 12.5, 16, 20 GHz models.	200 kS/s (sequential)
Max Record Length	Up to 400 M	Up to 100 M on 4, 6, 8 GHz models; Up to 250 M on 12.5, 16, 20 GHz models.	—
Trigger Types	Pinpoint Triggering, Edge, Logic (Pattern State/Setup/Hold), Pulse (Glitch, Width, Runt, Timeout, Transition), Comm*, Serial Pattern*, I ² C, SPI, RS-232, CAN* <small>*Optional</small>	Pinpoint Triggering, Edge, Logic (Pattern State/Setup/Hold), Pulse (Glitch, Width, Runt, Timeout, Transition), Comm*, 5 Gb Serial Pattern and more <small>*Optional on DPO models, standard on DSA models.</small>	Edges, Internal Clock, Clock Recovery
Connectivity	RS-232, GPIB, Centronic, Ethernet, Floppy Disk, LAN (10/100/1000 Base-T Ethernet), Open Access to Windows Platform, USB, DVD-ROM		RS-232, GPIB, Centronic, Ethernet, Floppy Disk, LAN, Open Access to Windows Platform, USB, PCMCIA, CD-ROM, DVD
Waveform Math and Analysis	Advanced Waveform Math, FFT or Spectral, Compatibility with Windows Analysis and Productivity Software		
Software	DPOJET, PWR, SignalVu [®] , CPM2, DDM, ET3, JIT3, PTD, USB2, VNM, DDRA, LSA, MTM, UWB, SVE, SVP, SVM	DPOJET, PWR, RT-EYE, SignalVu [®] , CPM, DDM, DVI, ET3, HT3, JIT3, USB2, UWB, VNM, TekExpress, DDRA, DSPT, FBD, IBA, LT, PCE, SLA, SST, SVE	IConnect [®] 80SICON, 80SOCMX, 80SSPAR, 80SJNB
Applications	<ul style="list-style-type: none"> ■ Signal Integrity, Jitter, and Timing Analysis ■ Verification, Debug and Characterization of Sophisticated Designs ■ Long Record Search and Mark ■ Limit Testing ■ Debugging and Compliance Testing of Serial Data Streams for Telecom and Data Industry Standards ■ Investigation of Transient Phenomena ■ Power Measurements and Analysis ■ Spectral Analysis ■ Ethernet Compliance Testing ■ Low Speed Serial Triggers and CAN/LIN Decode ■ Radar/EW ■ WiMedia UWB 	<ul style="list-style-type: none"> ■ Signal Integrity, Jitter, and Timing Analysis ■ Verification, Debug and Characterization of Sophisticated Designs ■ Long Record Search and Mark ■ Limit Testing ■ Identify and trigger on DDR read and writes ■ USB High Speed and Wireless Compliance Testing ■ Design, Development and Compliance Testing of Serial Data Streams up to 8 Gb/s Rates ■ Serial Data Link Analysis (SDLA) ■ Radar/EW ■ WiMedia UWB 	<ul style="list-style-type: none"> ■ Design/Verification of Telecom and Datacom Components and Systems ■ Manufacturing/Testing for ITU/ANSI/IEEE/SONET/SDH Conformance ■ High-Performance True Differential TDR Measurements ■ Advanced Jitter, Noise, BER and Serial Data Link Analysis ■ Impedance Characteristics and Network Analysis for Serial Data Applications Including S-parameters ■ Channel & Eye diagram Simulation and Measurement-based SPICE Modeling ■ Serial Data Link Analysis (SDLA)

see page 14

see page 15

see page 15

Probe Selector Tool: Find the best probe for your needs at: www.tektronix.com/probes



TDS1000B/2000B Series Oscilloscopes

Features and Benefits

- 40 MHz to 200 MHz bandwidth models
- Real-time sample rates up to 2 GS/s on all channels
- 2 or 4 channels
- 11 automatic measurements
- FFT standard
- Front-panel USB host port for easy storage and transfer of measurement data
- OpenChoice[®] software and National Instruments LabVIEW SignalExpress[™] Tektronix Edition software included for quickly documenting and analyzing measurement results
- Multiple language user interface and context-sensitive help
- Direct print to all PictBridge[®] compatible printers
- Compact, portable design
- Lifetime Warranty^{*1}

Applications

- Design and debug
- Education and training
- Manufacturing test and quality control
- Service and repair

^{*1} Limitations apply. For terms and conditions, visit: www.tektronix.com/lifetimewarranty

For further details visit:
www.tektronix.com/tds2000b



TPS2000 Series Oscilloscopes

Features and Benefits

- 100 MHz and 200 MHz bandwidth models
- Real-time sample rates up to 2 GS/s on all channels
- 2 or 4 fully isolated and floating channels, plus isolated external trigger
- 11 automatic measurements
- FFT standard
- OpenChoice[®] software included for quickly documenting and analyzing measurement results
- Optional power application software offers the broadest range of power measurements at its price point
- Multiple language user interface
- Backlit buttons and display for excellent visibility in low-light environments
- Compact, portable design with up to 8 hours of continuous battery operation with hot swappable batteries

Applications

- Portable power troubleshooting
- Electronics design, troubleshooting, installation, and maintenance
- Automotive electronics
- Education and training

For further details visit:
www.tektronix.com/tps2000



TDS3000C Series Oscilloscopes

Features and Benefits

- 100 MHz to 500 MHz bandwidth models
- Real-time sample rates up to 5 GS/s on all channels
- 2 or 4 channels
- 25 automatic measurements
- FFT standard
- WaveAlert[®] automatic waveform anomaly detection
- Front-panel USB host port for easy storage and transfer of measurement data
- OpenChoice[®] software and National Instruments LabVIEW SignalExpress[™] Tektronix Edition software included for quickly documenting and analyzing measurement results
- Multiple language user interface
- Portable, lightweight design with optional battery pack for up to 3 hours of operation without line power
- TekProbe[®] Interface supports active, differential and current probes for automatic scaling and units

Applications

- Digital design and debug
- Video design and service
- Power supply design
- Telecommunications mask testing
- Manufacturing test
- Education and training
- General bench test

For further details visit:
www.tektronix.com/tds3000c

Probe Selector Tool: Find the best probe for your needs at: www.tektronix.com/probes

Take the TDS1000B/2000B for a spin, right from your desk. Try the 360 degree interactive product demo at: www.tektronix.com/tds2000demo



DPO/MSO2000 Series Mixed Signal Oscilloscopes

Features and Benefits

- 100 MHz and 200 MHz bandwidth models
- Real-time sample rates up to 1 GS/s on all channels
- 5,000 wfms/s maximum waveform capture rate
- 2 or 4 analog channels
- 16 fully-integrated digital channels^{*1}
- 1 M point record length on all channels
- Wave Inspector[®] controls to easily search and navigate through long records
- I²C, SPI, RS-232/422/485/UART, CAN, and LIN serial triggering, analysis, and decode^{*2}
- 7 in. (178 mm) wide-format display
- Slim 5.3 in. (134 mm) depth frees up valuable bench-top space
- OpenChoice[®] software and National Instruments LabVIEW SignalExpress[™] Tektronix Edition software included for quickly documenting and analyzing measurement results
- FilterVu[™] variable low-pass filter to easily filter out unwanted noise without losing sight of important anomalies or glitches
- TekVPI[®] Probe Interface supports active, differential, and current probes for automatic scaling and units
- Digital probe design with color-coded pods simplifies connecting to the device-under-test^{*1}

Applications

- Embedded design and debug
- Mixed signal design and debug
- Investigation of transient phenomena
- Automotive electronics

^{*1} MSO2000 Only

^{*2} Optional

For further details visit:

www.tektronix.com/dpo2000

www.tektronix.com/mso2000



DPO3000 Series Oscilloscopes

Features and Benefits

- 100 MHz to 500 MHz bandwidth models
- Real-time sample rates up to 2.5 GS/s on all channels
- 50,000 wfms/s maximum waveform capture rate
- 2 or 4 analog channels
- 5 M point record length on all channels
- Wave Inspector[®] controls to easily search and navigate through long records
- I²C, SPI, RS-232/422/485/UART, CAN, LIN, and I²S/LJ/RJ/TDM serial triggering, analysis, and decode^{*2}
- Automated power measurements for fast, accurate power analysis^{*2}
- 9 in. (229 mm) high resolution widescreen display to see more horizontal on-screen data
- Slim 5.4 in. (137 mm) depth frees up valuable bench-top space
- OpenChoice[®] software and National Instruments LabVIEW SignalExpress[™] Tektronix Edition software included for quickly documenting and analyzing measurement results
- TekVPI[®] Probe Interface supports active, differential, and current probes for automatic scaling and units
- HDTV and custom video triggering^{*2}

Applications

- Embedded design and debug
- Investigation of transient phenomena
- Power measurements
- Video design and debug
- Automotive electronics

^{*2} Optional

For further details visit:

www.tektronix.com/dpo3000



DPO/MSO4000 Series Mixed Signal Oscilloscopes

Features and Benefits

- 350 MHz to 1 GHz bandwidth models
- Real-time sample rates up to 5 GS/s on all channels
- 50,000 wfms/s maximum waveform capture rate
- 2³ or 4 analog channels
- 16 fully-integrated digital channels^{*3}
- Up to 60.0 ps (16.5 GS/s) digital timing resolution^{*3}
- 10 M point record length on all channels
- Wave Inspector[®] controls to easily search and navigate through long records
- I²C, SPI, RS-232/422/485/UART, CAN, LIN, FlexRay, and I²S/LJ/RJ/TDM serial triggering, analysis, and decode^{*2}
- Automated power measurements for fast, accurate power analysis^{*2}
- 10.4 in. (264 mm) high resolution display provides plenty of room to see up to 20 traces on-screen
- Slim 5.4 in. (137 mm) depth frees up valuable bench-top space
- OpenChoice[®] software and National Instruments LabVIEW SignalExpress[™] Tektronix Edition software included for quickly documenting and analyzing measurement results
- HDTV and custom video triggering^{*2}
- TekVPI[®] Probe Interface supports active, differential, and current probes for automatic scaling and units
- Digital probe design with color-coded pods simplifies connecting to the device-under-test^{*3}

Applications

- Embedded design and debug
- Investigation of transient phenomena
- Power measurements
- Video design and debug
- Automotive electronics

^{*2} Optional

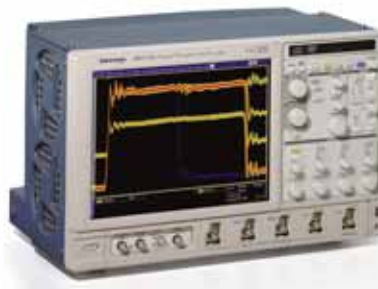
^{*3} MSO4000 only

For further details visit:

www.tektronix.com/dpo4000

www.tektronix.com/mso4000

Try the MSO4000 for yourself. With interactive product controls and 360 degree product views. Simply go to: www.tektronix.com/virtualmso



TDS5000 Series Digital Phosphor Oscilloscope

Features and Benefits

- 100,000 wfms/s Maximum Waveform Capture Rate
- MyScope™ Custom Control Windows Enhance Productivity
- Right Mouse Click Menus for Exceptional Efficiency
- Small Footprint/Lightweight
- Suite of Advanced Triggers
- Communication Mask Testing
- Remote Viewing and Control
- CD-RW Drive

Applications

- Digital Design and Debug
- Mask Testing for Telecomm/Datacomm/Video Standards
- Investigation of Transient Phenomena
- Power Measurements
- Video Design and Debug
- Spectral Analysis
- Automotive Electronics
- Manufacturing Test
- Electro-mechanical
- Bio-medical
- Industrial Control

For further details visit:
www.tektronix.com/tds5000

DPO7000 Series Digital Phosphor Oscilloscopes

Features and Benefits

- 500 MHz, 1 GHz, 2.5 GHz, and 3.5 GHz bandwidth
- Sample rates up to 40GS/s
- Up to 400 MS record length with MultiView Zoom™ feature for quick navigation
- >250,000 wfms/s maximum waveform capture rate
- MyScope™ custom windows enhance productivity
- User-selectable Bandwidth Limit for Better Measurement Accuracy
- Event Search and Mark for Signal Integrity and Timing Challenges
- Enhanced trigger for maximum stability and performance
- Pinpoint™ triggering to address virtually any triggering situation
- Small footprint and light weight
- 12.1 inch largest XGA touch screen display in the industry
- Low-speed serial protocol triggering
- OpenChoice™ with Microsoft Windows XP Professional OS delivers built-in networking and analysis

Applications

- Signal integrity, jitter and timing analysis
- Radar/EW
- WiMedia UWB
- Debugging and compliance testing of serial data streams for telecom and datacom industry standards
- Low-speed serial bus design (CAN, SPI, I²C, LIN)
- Investigation of transient phenomena
- Power measurements and analysis
- Automotive electronics
- Video applications

For further details visit:
www.tektronix.com/dpo7000



DPO/DSA70000B Series Digital Phosphor Oscilloscopes & Digital Serial Analyzers

Features and Benefits

- 4, 6, 8, 12, 16, 20 GHz bandwidth models
- Up to 50 GS/s real-time sample rate on all four channels
- Industry's lowest noise floor and highest number of effective bits (ENOB)
- Up to 200 MS record length with MultiView Zoom[®] feature for quick navigation
- >300,000 wfms/s maximum waveform capture rate
- Pinpoint[®] triggering provides the most flexible and highest performance triggering
- Serial pattern triggering up to 5 Gb/s with 8b/10b protocol triggering for isolation of pattern-dependent effects
- Serial data analysis and compliance for PCI Express, SATA, HDMI, DVI, Fibre Channel, 1394b, Ethernet, XAUI, USB, SAS, Rapid I/O, DisplayPort, DDR
- 12.1 inch XGA touch screen display
- MyScope[®] custom windows and mouse click menus enhanced productivity
- User-selectable Bandwidth Limit for Better Measurement Accuracy
- Event Search and Mark for Signal Integrity and Timing Challenges
- Bandwidth Enhancement to the Probe Tip
- Enhanced trigger for maximum stability and performance
- OpenChoice[®] software with Microsoft Windows XP Professional OS enables built-in networking and extended analysis

Applications

- Signal integrity, jitter and timing analysis
- Verification, debug and characterization of sophisticated designs
- Debugging and automated compliance testing of serial data streams for computer, telecom, and datacom industry standards
- Investigation of transient phenomena
- DDR, LP-DDR and G-DDR system validation, debug and compliance testing
- Serial Data Link Analysis including channel emulation and DFE/FFE receiver equalization
- Radar/EW
- WiMedia UWB
- Debug, characterization, and analysis of radar signals and UWB designs
- TekExpress[®] SATA Automated Compliance Test Software: enables 100% automated, single-button testing of SATA Gen1 and Gen2 Hosts, Devices, and Cables

For further details visit:

www.tektronix.com/dpo70000_dsa70000

DSA8200 Series Digital Serial Analyzer Sampling Oscilloscope

Features and Benefits

- State of the art communication signal analysis with fully integrated multi-rate optical modules and electrical modules to 80+ GHz^{*3} bandwidth
- Industry's only mainframe to support up to 8 input channels, reducing time and cost
- Industry-leading timebase accuracy
- Analysis of high-speed serial data rates from
- 1 Gb/s to 60 Gb/s provides insight into precise causes of eye closure
- Separation of both jitter and noise provides highly accurate extrapolation of BER and eye contour
- True differential remote sampler enabling placement near DUT for superior signal fidelity
- Highest performance TDR with 15ps reflected rise time and 12ps incident rise time
- Intuitive, easy and accurate S-Parameter measurements
- High fidelity differential and single-ended probing
- Automated standards mask testing
- Automated measurement system with over 100 NRZ, pulse, and RZ measurements
- FrameScan[®] acquisition mode
- Four color graded variable persistence waveform databases

Applications

- Design/verification of Telecom and Datacom components and systems
- Manufacturing/testing for ITU/ANSI/IEEE/SONET/SDH Conformance
- Advanced Jitter, Noise, BER and Serial Data Link Analysis
- Impedance characterization and network analysis for serial data applications including S-parameters
- Channel and eye diagram simulation and measurement-based SPICE modeling

^{*3} Bandwidth is determined by plug-in modules and may exceed 80 GHz as higher speed modules become available in the future.

For further details visit:

www.tektronix.com/dsa8200

See the latest videos and webinars for the DPO/DSA70000B Series at:
www.tektronix.com/dpo70000_dsa70000



Spectrum Analyzers

Tektronix Real Time Spectrum Analyzers Deliver Confidence to Confront the Most Challenging Microwave and RF Designs

Effectively characterize time-variant signals and solve unexpected problems with DPX[®] Live RF spectrum display. Standard on all Real Time Spectrum Analyzers ranging from handheld to high performance benchtop instruments.

- Performance Spectrum Analyzers integrate revolutionary DPX[®] Live RF spectrum display with the industry-leading dynamic range and bandwidth combination.
- Mid-Range Spectrum Analyzers deliver performance capabilities, including DPX[®] Live RF spectrum display and frequency masked trigger, for complete time-correlated analysis in the frequency, time and modulation domains.
- Handheld Spectrum Analyzers scan the RF environment, reliably classify signals, and locate signals with the industry's only integrated mapping solution.

	H600/SA2600 Series	RSA3000 Series	RSA6000 Series
Frequency	10 kHz - 6.2 GHz	DC - 8 GHz	9 kHz - 14 GHz
Capture Bandwidth	20 MHz	Up to 36 MHz	Up to 110 MHz

Tektronix DPX technology lets you see what others don't. View this product demo at: www.tektronix.com/rtsa-dpx



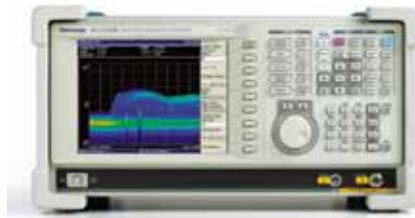
H600/SA2600 Series

Interference troubleshooting has never been so easy

Features and Benefits

- DPX[®] Spectrum Display with 100% Probability of Intercept (POI) - Improve test confidence and find elusive wireless signals to discover signals-within-signals previously unseen
- Benchtop performance - Detect low-level signals quicker with industry leading RF performance. Resolve adjacent channel noise and interference in crowded spectrum
- Integrated mapping - Find signals and log measurements faster with integrated mapping, GPS, and simple direction finding tools. Eliminate the need for an external PC to perform field measurements
- Integrated signal classification and IQ data export - Reduce skill level required to classify signals with automatic Spectrum Correlation Density function. Refine analysis with captured and exported data for confidential analysis
- Designed for field use - Maximize your field time with extended battery life and the industry's only hot swap power system. Improve field utility with rugged alloy design and active touch screen display

For further details visit:
www.tektronix.com/rtsa



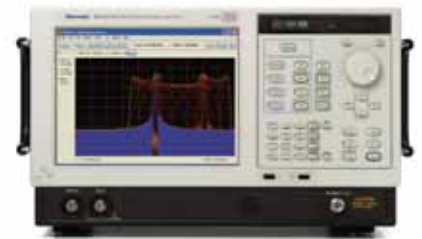
RSA3000 Series

Discover and Interpret Complex Behaviors of Your Time Variant Signals

Features and Benefits

- DPX[®] Spectrum Display with 100% Probability of Intercept (POI) - Discover signal behavior previously unseen. Improve test confidence and catch very short duration transients missed by conventional spectrum analyzers
- Frequency Mask Trigger (FMT) with 100% POI - Save time by isolating signal faults and efficiently utilizing memory with a unique frequency domain trigger. Isolate hard to find hardware and software anomalies with cross domain triggering between multiple instruments
- Seamless data capture into deep memory or external recording system - Observe the entire duration of signal events, like frequency hopping sequences, PLL settling times, turn on transients, and multiple pulses
- Time-correlated data analysis with automatic domain correlation and linked markers - Accelerate troubleshooting and analysis by pinpointing the root cause of problems in multiple domains
- One box multi-function design for spectrum analysis, vector signal analysis, pulse analysis, baseband analysis, signal source analysis, audio distortion analysis, and wireless standard analysis - Simplify test and save test time with multiple measurements on the same captured data. Reduce cost of test with a versatile single instrument that replaces multiple test sets

For further details visit:
www.tektronix.com/rtsa



RSA6000 Series

Instant insight and discovery of unseen phenomena

Features and Benefits

- DPX[®] Spectrum Display with 100% Probability of Intercept (POI) - Discover signal behavior previously unseen. Improve test confidence and catch very short duration transients missed by conventional spectrum analyzers
- Frequency Mask Trigger (FMT) with 100% POI - Save time by isolating signal faults and efficiently utilizing memory with a unique frequency domain trigger. Isolate hard to find hardware and software anomalies with cross domain triggering between multiple instruments
- Seamless data capture into deep memory or external recording system - Observe the entire duration of signal events, like frequency hopping sequences, PLL settling times, turn on transients, and multiple pulses
- Time-correlated data analysis with automatic domain correlation and linked markers - Accelerate troubleshooting and analysis by pinpointing the root cause of problems in multiple domains
- Over 20 automatic pulse and trend analysis measurements - Simplify test and save test time with multiple measurements on the same captured data. Reduce cost of test with a versatile single instrument that replaces multiple test sets

For further details visit:
www.tektronix.com/rtsa

Probes and Accessories

Find the best probe for your needs at: www.tektronix.com/probes

Accessory Type	MSO/DPO2000						
	TDS1000B/ TDS2000B	TPS2000	TDS3000C	DPO3000 MSO/DPO4000 DPO7000	DPO70000B/ DSA70000B	DSA8200	RSA3000/ RSA6000
Passive Probe (1 Meg ohm termination)	P2220 (1X/10X)	P2220 (1X/10X)	P6139A (10X) P3010 (10X) P6101B (1X)	P6139A (10X) P6101B (1X)	P6139A (10X)*1 P6101B (1X)*1		
Passive Probe (50 ohm termination)			P6158 (20X)	P6158 (20X)	P6158 (20X)*2 P6150 (1X/10X)*3	P6158*10 P6150*10 P8031B*3A P8018*3A (TDR Apps)	P6150 (1X/10X)*10 P6158 (20X)*10
Time Domain Reflectometry Probe						P8031B*3A P8018*3A	
High Voltage Probe (1 Meg termination)	P5100 (100X)	P5120 (20X)	P5100 (100X) P6015A (1000X)	P5100 (100X) P6015A (1000X)	P5100 (100X)*1 P6015A (1000X)*1		
High Voltage Differential Probe	P5200 P5205*4 P5210*4	P5205*4 P5210*4	P5205 P5210	TDP0500, TDP1000 P5205*5, P5210*5 P6250*5, P6251*5	P5205*1 P5210*1		
Active Probe (Single-ended)			P6243 P6205	TAP1500 TAP2500*5A TAP3500*5A	P7240 P7225	P7240*6 P7225*6	
Differential Probe			P6243*4	TDP0500 TDP1000 TDP1500 TDP3500 P6330*5 P6248*5 P6247*5 P6246*5	P7520, P7508, P7506, P7504, P75xx Trimode* (4-20GHz), P7313, P7313SMA, P7380A, P7380SMA, P7360A, P7350, P7350SMA, P7340A, P7330	P7520, P75xx Trimode* (4-20GHz)*6, P7508, P7506, P7504, P7313*6, P7313SMA*6, P7380A*6, P7380SMA*6, P7380SMA*6, P7360A*6, P7350*6, P7350SMA*6, P7340A*6, P7330*6	P7520, P7516, P75013A, P7508, P7506, P7504, P7313, P7380A*6A, P7380SMA*6A, P7350*6A, P7350SMA*6A, P7330*6A
Micro-Volt Differential Probe	ADA400A*4		ADA400A*4	ADA400A*5	ADA400A*1		
Current Probe AC/DC	A622 TCP300*8 TCP400*8	A622 TCP300*8 TCP400*8	TCP202 A622 TCP300 TCP400	TCP0030 TCP202*5 TCP0150 A622 TCP300*7 *8 TCP400*7 *8	TCP202*2 A622 TCP300*7 TCP400*7		
Current Probe AC only	A621, P6021, P6022	A621, P6021, P6022	A621, P6021, P6022	CT6, A621, P6021, P6022	CT6*2, CT1*2, A621*1, P6021*2,		
Electro-Optical Converter (50 ohm term.)			P6701B, P6702B	P6701B*5 P6703B*5	P6703B*2		
Power Software		TPS2PWR1		DPOPWR*5A *9, DPO4PWR*4, DPO3PWR*13			
Carts			K420	K420 (requires 407-5192-00 bracket set)*12	K4000 with brackets 407-5187-00 407-5188-00	K4000	
Case (Soft)	AC2100	AC2100	AC3000	ACD4000*5B *13			
Case (Hard)	HCTEK4321	HCTEK4321	HCTEK4321	HCTEK4321*5B *13 016-1942-00*5A (016-1522-00*5A with wheels)	016-1977-00		016-1963-00*11
Rackmount Kit	RM2000B		RM3000	RMD3000*13, RM4000*5B 016-1985-00*5A	016-1985-00	016-1791-00	016-1962-00*11

*1 Requires TCA-1MEG Adapter for TDS7000, DPO/DSA70000B Series

*2 Requires TCA-BNC Adapter for TDS7000, DPO/DSA70000B Series

*3A Use of w/80A02 is suggested to reduce EOS/ESD static discharge damage to sampling equipment.

*3 Requires TCA-292MM or TCA-SMA Adapter for TDS7000, DPO/DSA70000B Series

*4 Requires 1103 Power Supply for DPO7000, DPO3000, DPO4000 or MSO4000 Series

*5 Requires TPA-BNC Adapter for DPO7000, DPO3000, DPO4000 or MSO4000 Series

*5A DPO7000 Series only

*5B DPO/MSO4000 Series only

*6 Requires 80A03 Adapter for use with DSA8200

*6A Requires RTPA2A Adapter for use with the RSA2200A/3300A/3408A, WCA200AA Series.

*7 TCP300 (TCPA300 Amplifier used with TCP305 or TCP312 or TCP303), TCP400 (TCPA400 Amplifier used with TCP404XL).

*8 May be used with TPA-BNC Adapter for proper readout or direct BNC connection without readout.

*9 The DPOPWR for DPO7000 TEKVPI Series Oscilloscopes requires purchase of the DPO7000 OPT PWR or DPO700 OPT PWR.

*10 Requires N type-to-SMA female adapter or N type-to-BNC.

*11 RSA6100A Series.

*12 Brackets for DPO7000 only.

*13 DPO3000 only.



Active Probes

Features and Benefits

- Bandwidth up to 4 GHz
- True signal reproduction and fidelity
- Low input capacitances: < 0.5 pF
- Small Compact Probe Heads for Probing Small Geometry Circuit Elements
- DUT Attachment Accessories Enable Connection to SMDs as small as 0.5 mm Pitch
- Service, Durability and Reliability

Applications

- Verification, debug and characterization of high-speed designs
- Component design and characterization
- Design, development and compliance testing
- Signal integrity, jitter, timing analysis
- Manufacturing engineering and test
- Educational research



Current Probes

Features and Benefits

- Easy to use and accurate AC/DC current measurements
- DC up to 2 GHz
- Amplitude measurements from 1 mA to 20,000 A
- Split core and solid core construction

Applications

- Switching power supplies
- Motor drives
- Disk drive
- Electronic ballasts
- Inverters
- Silicon characterization
- High-frequency analog design



Differential Probes

Features and Benefits

- TriMode[®] probing provides differential, single-ended or common mode measurements with a signal probe (P7500 Series)
- Excellent signal fidelity, with high bandwidth to >20 GHz, excellent step response, low loading, and high CMRR
- Versatility to make differential or single-ended measurements with low cost TriMode accessories
- Tip-Clip[™] interchangeable probe tip system to configure your probe with the optimal tip for your application (P7300 Series)
- Differential TDR hand probe for high fidelity impedance measurements of differential transmission lines (P80318)

Applications

- Debug, validation and compliance testing of high speed serial designs
- Communications Systems
- Semiconductor characterization & validation



High Voltage Probes

Features and Benefits

- Wide range of voltage measurements - Up to 40 kV peak (100 ms pulse)
- High voltage measurement capabilities
- Single-ended - referenced to earth ground
- Differential - non-ground referenced and ground referenced
- Bandwidths from DC to 1 GHz

Applications

- Power supplies
- Motor drives
- Electronic ballast
- DC to DC power converters
- Power device design and evaluation
- Switch mode control
- UPS systems



Passive Probes

Features and Benefits

- DC to 500 MHz
- Wide range of performance to meet the demands of many applications
- Lightweight, ergonomic designs to fit your needs
- Wide range of probe tips for easier circuit access
- Modularity to provide lower cost of ownership (P613X)
- Compact size accessories to provide compatibility with existing adapters

Applications

- Mixture of high, medium and low frequency general purpose measurements
- Digital design
- Power device characterization
- Power supply design
- UPS systems, power converters
- Electronic ballast
- Mixed signal
- Service, manufacturing



Other Accessories

Features and Benefits

- Low capacitance probes, with low loading to extremely high frequencies
- Optical-to-electrical converters for analysis of optical signals
- TekConnect[™] Probe Adapters for Tektronix, Real-Time Spectrum Analyzers & Tektronix DSA8200 Series Oscilloscopes
- Attenuators, terminators and adapters for a wide range of applications and accessories
- Articulating arms to guide and position standard handheld probes
- Quality probe replacement parts
- Oscilloscope carts and racks

Applications

- High-speed device characterization
- Circuit board impedance testing (P6150)
- General RF troubleshooting (RTPA2A)
- Research, electronic design, service and manufacture of small geometry circuitry

Logic Analyzer Product Selection

	TLA520xB	TLA7Sxx	TLA7ACx	TLA7Bxx
Channels	34, 68, 102, 136	8, 16 per module	34, 68, 102, 136 per module	68, 102, 136 per module
Maximum Channels per Timebase (merge)	136	-	272 in TLA7012, 408 in TLA7016	272 in TLA7012, 408 in TLA7016
Maximum Channels per Mainframe	136	32 in TLA7012, 96 in TLA7016	272 in TLA7012, 816 in TLA7016	272 in TLA7012, 816 in TLA7016
Maximum Channels per System	136	2,176 (with eight in TLA7012s and one TLA708EX) 6,528 (with eight in TLA7016s and one TLA708EX)		
Maximum Independent Buses per System	1	16 (with eight in TLA7012s and one TLA708EX) 48 (with eight in TLA7016s and one TLA708EX)		
State Clock Rate	235 MHz	2.5 Gb/s std; 50 Gb/s opt.	120 MHz std; 235, 450 MHz opt.	750 MHz std; 1.4 GHz opt.
Maximum State Clock Rate	235 MHz	50 Gb/s	800 MHz (half channel mode)	up to 1.4 GHz
Maximum State Data Rate	470 Mb/s	-	1,250 Mb/s	3.0 Gb/s
MagniVu™ Timing (all channels, all the time)	125 ps (8GHz) with 16 Kb depth	-	125 ps (8 GHz) with 16 Kb depth	20 ps (50 GHz)
Simultaneous State and Timing Through Same Probe	yes	no	yes	yes
Analog Measurements Through Same Probe	no	no	yes	yes
Timing	500 ps (2 GHz)/ 1 ns (1 GHz)/ 2 ns (500 GHz)/ (quarter/half/full channels)	32 M 8b/10b per channel	500 ps (2 GHz)/ 1 ns (1 GHz)/ 2 ns (500 GHz)/ (quarter/half/full channels)	156.25 ps/ 312.5 ps/ 625 ps to 50 ns (quarter/half/full channels)
Analog Outputs (four per module - analog MUX)	no	no	yes	yes
Record Length	8/4/2 Mb to 128/64/32 Mb (quarter/half/full channels with timestamp)	-	512/256/128 Kb to 256/128/64 Mb (quarter/half/ full channels with timestamp)	4/2 Mb to 128/64 Mb (half/full channels with timestamp)
Source Synchronous Clocking	yes	no	yes	yes
	see page 21	see page 21	see page 21	see page 21

Probes

No test and measurement solution is complete without addressing probing and considering its impact on your system and your measurement time. You can depend on Tektronix probes to protect the integrity of your signal, whether you need simultaneous digital-analog acquisition, an economical compression probe or a high-fidelity general-purpose probe.

For more information visit: www.tektronix.com/products/accessories/logic_analyzers



TLA5000B Series Logic Analyzers

Features and Benefits

- 500 ps (2 GHz) / 32 MB timing record length to capture intermittent events over a wide time window
- 125 ps-resolution MagniVu™ acquisition simultaneous with timing or state acquisition to find elusive timing problems quickly, without double probing
- Glitch and setup/hold violation triggering and display to find and display elusive hardware problems
- 235 MHz state acquisition provides analysis of high-speed synchronous digital circuits
- iView™ time-correlated digital-analog view to clearly see how analog anomalies are affecting your digital signals
- 34/68/102/136 channel configurations offer flexible solutions to fit any budget
- Embedded software integration, debug, and verification
- Broad range of FPGA supports

Applications

- Digital hardware verification and debug
- Monitoring and measurement of digital hardware performance
- Single microprocessor or bus debug

For further details visit:

www.tektronix.com/tla5000



TLA7000 Series Logic Analyzers

Features and Benefits

- Modular mainframes provide flexibility and expandability
- Supports up to 6,528 Logic Analyzer channels, 48 independent buses
- iView™ capability provides up to 20 GHz, 50 GS/s and 200 Mb analog acquisition with a stand-alone Tektronix oscilloscope
- View data in waveform, listing, source code, histogram (performance analysis) displays to perform cross-domain analysis
- Remotely control and monitor the TLA over the network using either hosted mode or via built-in Windows XP remote desktop
- Remote Control using Microsoft.NET and COM/DCOM technology supports advanced data analysis

Applications

- Hardware debug and verification
- DDR2 and DDR3 debug and validation
- Embedded software integration, debug and verification
- PCI-Express Gen 2 debug and verification

For further details visit:

www.tektronix.com/tla7000



iLink™ Toolset: Two Powerful Measurement Tools Team Up

Although Logic Analyzers and oscilloscopes have long been the tools of choice for digital troubleshooting, not every designer has seen the dramatic benefits that come with integrating these two key instruments.

Logic Analyzers speed up debugging and verification by wading through the digital information stream to trigger on circuit faults and capture related events. Oscilloscopes peer behind digital timing diagrams and show the raw analog waveforms, quickly revealing signal integrity problems.

Several Tektronix Logic Analyzer models offer the iLink™ toolset, a Logic Analyzer/Oscilloscope integration package that is unique in the industry. The iLink™ toolset joins the power of Tektronix Logic Analyzers - memory depths to 512 Mb, MagniVu™ acquisition with 20 ps resolution and advanced state machine-based triggering.

The iLink™ Toolset is a comprehensive package designed to speed problem detection and troubleshooting:

- **iCapture™** multiplexing provides simultaneous digital and analog acquisition through a single Logic Analyzer probe
- **iView™** display delivers time-correlated, integrated Logic Analyzer and oscilloscope measurements on the Logic Analyzer display
- **iVerify™** analysis offers multi-channel bus analysis and validation testing using oscilloscope-generated eye diagrams

See how iView easily integrates oscilloscope and logic analyzer measurement to find problems faster. View the product demo at: www.tektronix.com/iview

Mixed/Analog Signal Generators

	AWG5000B Series	AWG7000B Series	AFG3000 Series
Channels (maximum)	4 analog, 28 digital	2 analog	1, 2
Sample Rate (maximum)	1.2 GS/s, Up to 370 MHz	24 GS/s	2.0 GS/s
Frequency (maximum)	370 MHz	9.6 GHz	240 MHz
Memory Depth (maximum)	32M	64M	128 k
Vertical Resolution (bits)	14	10	14
Output Amplitude ¹ (maximum)	4.5	2	20
Marker Outputs (maximum)	4	4	1 (trigger out)
Parallel Digital Outputs (maximum)	28* ²	-	-
Integrated Editors	Graphical, Sequence	Graphical, Sequence	Graphical, Text
Built-in Applications	RFXpress ^o , SerialXpress ^o & the Open Window-based system supports third-party software		-
	see page 23	see page 23	see page 19

Logic Signal Sources

	DTG5334	DTG5274	DTG5078
Channels (maximum)	16	16	96
Data Rate (maximum)	3.35 Gb/s	2.7 Gb/s	750 Mb/s
Pattern Depth (maximum)	64M	32M	8M
Timing Resolution Range	200 fs/600 ns* ¹	200 fs/600 ns* ¹	1 ps/600 ns* ¹
Output Amplitude/Resolution (max)	Three modules support from 0.03 to 3.5 V _{p-p} /5 mV* ²		
Rise/Fall Time	Three modules offer from < 540 ps to < 110 ps* ³		
Auxiliary Inputs	External Clock IN, Phase Lock IN, 10 MHz Ref. IN, Trigger IN, Event IN, Skew Cal IN		
Auxiliary Outputs	DC Outputs, Clock OUT, 10 MHz Red OUT, Sync OUT		
Auxiliary Features	PC/Windows Platform, Jitter Generation, Variable Crossing Points, Duty Cycle, Pulse Generator Mode		
	see below	see below	see below

Get help with your
Signal Generator
selection - compare by
product or application

See: www.tek.com/products/signal_generator/application_selection/index

*1 V_{p-p} into 50 Ohm
*2 Based on data rate settings.
*3 Variable or fixed, depending on module.
*4 Four channel only per pod, delay only.



DTG5000 Series Logic Signal Sources

Features and Benefits

- Data rate up to 3.35 Gb/s
- From 1 to 98 data channels (Master/Slave Configuration)
- Superior delay range and resolutions specifications
- Versatile platform combines features of data generator, pulse generator, and DC source
- Modular architecture helps to protect your investment and allows the instrument to expand with your growing needs
- Up to 64 Mbit pattern depth per channel for complex data patterns

Applications

- Semiconductor device functional test and characterization
- Compliance and interoperability testing to emerging standards (PCI-Express, Serial ATA/2, InfiniBand, XAUI, HDMI/DVI)
- Magnetic and optical storage design
- Data conversion device design
- Imaging sensor device design
- Jitter transfer and jitter tolerance testing

For further details visit:
www.tektronix.com/logic_sources



AFG3000 Series Arbitrary/Function Generators

Features and Benefits

- 10 MHz to 240 MHz sine waveforms
- 5 MHz to 120 MHz pulse waveform with variable edge times
- Up to 20 V_{p-p} output amplitude into 50 Ohms Floating outputs isolated from ground
- 14 bits, 250 MS/s to 2 GS/s arbitrary waveforms
- 1 or 2 channels for tightly synchronized or completely independent waveforms
- Large 5.6 in. display for full confidence in settings and waveform shape
- 25 shortcut keys for direct access to frequently used parameters and functions
- Multi-language and intuitive operation saves set-up time
- 12 standard waveforms
- Noise generator to add variable noise in each channel
- AM, FM, PM, FSK, PWM
- Sweep and burst
- 6.6 in. depth frees up valuable bench-top space
- Front panel USB host port for waveform storage on memory device
- USB, GPIB and LAN

Applications

- Electronic design
- Sensor simulation
- Functional test
- Education and training

For further details visit:
www.tektronix.com/afg3000



AWG5000B Series Arbitrary Waveform Generators

Features and Benefits

- 1.2 GS/s and 600 MS/s models
- 2 or 4 arbitrary waveforms
- 14-Bit vertical resolution
- Both differential and single-end output modes
- Up to 28 variable digital outputs
- 4 or 8 variable level marker outputs
- Up to 32 M point record length for longer data streams
- Down to 800 ps resolution edge timing shift control
- Real-time sequencing creates infinite waveform loops, jumps and conditional branches
- Intuitive user interface based on Windows XP
- Integrated PC supports network integration and provides a built-in DVD, removable hard drive, LAN and USB Ports

Applications

- RFXpress® (RFX100) to synthesize digitally modulated base band, IF and RF signals
- SerialXpress® (SDX100) Easy creation of the exact high speed serial data signal required for thorough and repeatable receiver testing
- Digital RF, Digital test, Image device test, IQ calibration, MIMO 802.11n, WiMax 802.16, Radar

For further details visit:
www.tektronix.com/awg5000



AWG7000B Series Arbitrary Waveform Generators

Features and Benefits

- 12 GS/s (24 GS/s) and 6 GS/s models
- 1 or 2 arbitrary waveform outputs
- Vertical resolution up to 10-Bit available: 10-Bits (no marker output) or 8-Bits (with two marker outputs)
- Up to 64 M (64,800,000) point record length provides longer data streams
- Real-time sequencing creates infinite waveform loops, jumps, and conditional branches
- Integrated PC supports network integration and provides a built-in DVD, removable hard drive, LAN, and USB Ports
- Real-world, ideal or distorted signal generation
- Replicate and playback of DPO/DSA captured signals
- Waveform vectors imported from third party tools such as Excel and other analysis software programs

Applications

- RFXpress® (RFX100) to synthesize digitally modulated base band, IF and RF signals
- SerialXpress® (SDX100) Easy creation of the exact high speed serial data signal required for thorough and repeatable receiver testing
- Serial data test
- Disk drive (magnetic/optical) read/write
- Telecom/data communications
- Wireless communications
- Radar
- WiMedia UWB

For further details visit:
www.tektronix.com/awg7000

To help with your toughest signal generation needs, the AWG7000 Series delivers unrivaled sample rate and bandwidth. For complete information and a product web demo, see: www.tektronix.com/awg7000

Fluke's Electronic Test Tools have been included in the Tektronix 2009 Product Catalog to reflect the perfect complement these powerful handheld instruments bring to the Tektronix Instrument portfolio, providing a broader set of test equipment choices for you.



Fluke ScopeMeter[®] Test Tools

- Dual-input - 200, 100 or 60 MHz bandwidth
- Up to 2.5 GS/s real-time sampling per input
- Color display or Black & White display
- Connect-and-View[™] automatic triggering and a full range of manual trigger modes
- TrendPlot[™] paperless chart recorder for trend analysis
- Frequency spectrum analysis using FFT (190C)
- Digital persistence for analyzing waveforms
- Automatic capture and replay of 100 screens
- ScopeRecord[™] mode with up to 27,500 points per input
- Up to 1000 V independently floating isolated inputs
- 1000 V CAT II and 600 V CAT III safety certified
- Four-hour rechargeable Ni-MH battery pack

Ordering Information

Models

Fluke-192B/003 ScopeMeter 60 MHz, B/W
Fluke-196B/003 ScopeMeter 100 MHz, B/W
Fluke-199B/003 ScopeMeter 200 MHz, B/W
Fluke-196C/003 ScopeMeter 100 MHz, color
Fluke-199C/003 ScopeMeter 200 MHz, color

For further details visit:
www.fluke.com

FLUKE [®]

Fluke Digital Precision Multimeters

6.5 Digit Resolution Series (8845/8846)

- Basic V dc accuracy of up to 0.0024%
- Dual display
- 100 mA to 10 A current range with up to 100 pA resolution
- Wide ohms range from 10 V to 1 GV with up to 10 mV resolution
- 2x4 ohms 4-wire measurement technique
- Both models measure frequency and period
- 8846A measures capacitance and temperature
- USB memory drive port (8846A)
- Graphical display
- Trendplot[™] paperless recorder mode, statistics, histogram

5.5 Digit Resolution Series (8808)

- Basic V dc accuracy of up to 0.01%
- Dual display
- Dedicated dc leakage current measurement
- 2x4 ohms 4-wire measurement technique
- Six dedicated buttons for fast access to instrument setups
- Hi/Lo limit compare for Pass/Fail testing

Ordering Information

Models

Fluke-8845A 6.5 Digit Precision Multimeter, 35 ppm
Fluke-8846A 6.5 Digit Precision Multimeter, 24 ppm
Fluke-8808A 5.5 Digit Precision Multimeter, 0.01%

For further details visit:
www.fluke.com

FLUKE [®]

Fluke Electronics Logging Multimeter

- Large 50,000 count VGA display with white backlight
- Extensive Logging Function with TrendCapture[™]
 - Plots measurements over time to help detect anomalies
 - Store up to 10,000 readings
 - On-board TrendCapture graphically views readings
 - Log multiple sessions
 - Log data continuously for > 200 hours
- 0.025% basic dc accuracy
- 100 kHz ac bandwidth
- Measure up to 10 A (20 A for 30 seconds; 10 A continuous)
- 100 mF capacitance range
- Temperature function
- Peak capture to record transients as fast as 250 ms
- Optional FlukeView Forms software enables you to:
 - Document, store and analyze measurements
 - Convert results into professional-looking reports
- CAT III 1000 V / CAT IV 600 V safety rated

Ordering Information

Models

Fluke-287 True-rms Electronics Logging Multimeter with TrendCapture[™]
Fluke FVF-SC2 FlukeView[™] Forms Software with Cable

For further details visit:
www.fluke.com

FLUKE [®]

For further information, or to order Fluke Electronic Test Tools; please visit www.fluke.com, contact your local Fluke distributor, or call one of the phone numbers located on the back page of this catalog.



MTS400 Series MPEG Test System

The MTS400 Test System offers significant enhancements over traditional MPEG analyzers, and operates both in real-time (live streams) and deferred-time (stored streams). The combination of real-time error capture, an innovative high-speed analysis engine, a wide range of interfaces, and built-in intelligence, allows ultra-fast pinpointing and debugging of intermittent faults in broadcast equipment.

A comprehensive suite of analysis tools include Transport Stream (TS) Compliance Analyzer, Buffer, PES, compressed video and audio elementary stream analyzers, together with TS Editor, Multiplexer, and Data Broadcast applications for stream creation, analysis, and error-injection.

Available as stand alone software, as well as with the MTS400 Series hardware instruments, these applications provide the test tools required in development of next generation consumer equipment and software products for the broadcast industry.

Features and Benefits

- Industry's fastest analysis engine enables reduced time to insight, rapid development, evaluation, deployment and diagnostics of next generation DTV and IPTV systems and services
- Range of interfaces and analysis capabilities provide the necessary connectivity to diagnose problems anywhere in the network environment, whether that be transmission links (RF or IP layer) or content processing (TS layer)
- Connect to both IP version 4 and 6 networks, including those using IGMP and MLD multicast protocols respectively
- Integrated cross layer MPEG/IP fault analysis and logging provides one box solution for fault diagnosis, reducing time to insight when troubleshooting
- Playout functionality provides stimulus with parametric capabilities and IP multi session replication to characterize behavior of network or device under test
- CaptureVu[™] technology captures and analyzes system events in real time and deferred time to debug the intermittent and complex problems that traditional analyzers miss
- Innovative program centric user interface brings expert power to the novice user
- Broadest and deepest range of analysis for legacy and next generation compressed standards including MPEG-2, MPEG-4, H.264, VC-1, 3GPP
- H.264 Thumbnail decode, Buffer Analysis and Multiplexing provide the most powerful suite of tools for creation and analysis of Transport Streams containing H.264 content, supporting the needs of customers transitioning from MPEG-2 to H.264 technologies

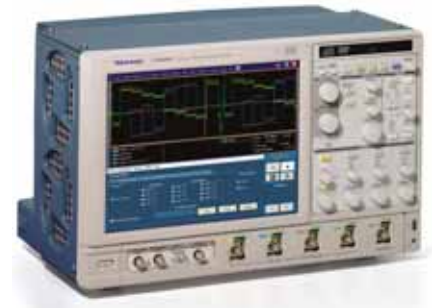
- Customizable scripting supports the broadest range of ratified and evolving World-Wide DTV standards
- Video over IP and RF analysis and recording with Cross Layer time-correlated IP, RF and TS alarming and error logging
- Analyze both constant and variable bit rate streams (CBR and VBR)

Applications

MTS430 Solution for Equipment Manufacturers - Research & Development

- CaptureVu[™] technology allows rapid isolation and debugging of equipment and system faults
- High performance line rate Gigabit Ethernet (GbE) IP connectivity and integrated cross layer MPEG/IP analysis enable diagnosis of complex timing problems in video over IP and IPTV network equipment
- Multiplexer/Re-Multiplexer allows flexible test stream creation and modification
- Rapid and in depth analysis of selected elements of transport streams to confirm functionality and compliance to standards
- Set Top Box buffer testing and verification
- Elementary stream analysis option for codec design and optimization

For further details visit:
www.tektronix.com/mts400



VM6000 Automated Video Measurement Set

The VM6000 integrates acquisition hardware, optimized video measurement algorithms, test signal files, and accessories into a cohesive test system solution. Product verification activities that previously took hours or days to complete can now be completed in seconds or minutes. Offering near plug-and-play video measurement capability, even unskilled operators can reliably assess video output signal quality. The conformance of signals to specifications is reported with obvious pass or fail results, with signal distortions clearly identified for further analysis. The VM6000 is the only automatic video analyzer capable of supporting SD, HDTV and PC graphics signal formats, and is well suited to the demands of measuring high resolution HDTV and high frequency PC graphics video signals.

Features and Benefits

- Automates test of consumer HDTV video devices
- Automates VESA compliance test for PC graphics devices
- Fast, accurate, and reliable video measurements
- Comprehensive component analog video signal analysis
- SD, HDTV, and RGBHV component analog format support
- Picture, vector, and waveform displays
- Pass-fail limit testing
- Automatic report generator
- Complete DPO functionality
- LAN connectivity
- CD-RW drive

Applications

- Design validation & optimization
- Standards compliance testing (VESA, EIA, SMPTE)
- Quality control & functional test
- Automated Manufacturing test
- ISO calibration testing

For further details visit:
www.tektronix.com/vm6000



OpenChoice® Solutions from Tektronix

Tektronix OpenChoice® solutions offer a variety of software and connectivity solutions to best fit the performance of the Tektronix instrument classes.

OpenChoice® Software with Open Windows for Performance Instruments

Tektronix Open Windows products are "open" to support how you want to generate, analyze, and document your work. OpenChoice® provides a high degree of flexibility to network and adapt the instrument into new or existing systems and automate data acquisition, measurement, analysis and documentation. OpenChoice® also provides a collection of software libraries, utilities, samples, industry-standard protocols and interfaces. Open Windows Series' products include: DPO7000, DSA8200, DPO/DSA70000B, TLA5000, TLA7000, AWG5000B, AWG7000B, RSA3300B, RSA3408B, and RSA6100A.

OpenChoice® Desktop Software Solutions for General Purpose Instruments

The freedom to analyze, document and present your data any way you choose.

OpenChoice® Desktop Software solutions are offered with the AFG3000 Series Function Generators and the MSO2000, MSO4000, DPO2000, DPO4000, DPO3000, MSO2000, DPO2000, TDS3000C, TDS2000B, TDS1000B and TPS2000 Series Oscilloscopes to deliver simple, seamless integration between the instrument and the PC. OpenChoice® provides you with multiple choices to easily generate, capture, transfer, document and analyze your measurement results, according to your application environment and preference.

For further details visit:
www.tektronix.com/openchoice



Your Tektronix Service Advantage

You can trust Tektronix to offer unequalled engineering expertise and a customer-centric approach to ensure the optimal performance of your Tektronix products and maximize the lifetime value of your Tektronix investment.

Summary of Service Plans

Repair Service Extended Coverage	Calibration Service Coverage	Multi-Vendor Calibration Services
<ul style="list-style-type: none"> ■ Save money with multi-year coverage ■ Priority service ■ Covers equipment, parts, labor and transportation ■ Applicable software, safety and reliability updates 	<ul style="list-style-type: none"> ■ Accredited calibration ■ Traceable calibration ■ Functional verification ■ Applicable software, safety and reliability updates ■ Calibration records retention 	<ul style="list-style-type: none"> ■ Single point of contact for all of your calibration needs ■ Simplify your operations and reduce administrative costs ■ On-site delivery for convenience and reduced downtime

■ Tektronix Factory Experts

Access to the engineering expertise that designed and built your products to ensure they are in peak performance. Over 20 man years of training per support engineer.

■ Comprehensive and Thorough Treatment

Software updates, safety and reliability modifications, and cosmetic enhancements are included if applicable. Products are returned to you in a like new condition. Worldwide support is available through the Tektronix network.

■ Efficiency and Convenience

Team of professionals focused on getting your instruments back to you as soon as possible to keep your downtime to a minimum and your service management easy.

■ Flexible Repair and Calibration Service

Choice of cost effective, flexible options and service packages to meet your needs.

For further details visit:
www.tektronix.com/service



Multi-Vendor Calibration Service

A partner to trust for all your calibration needs

- Single point of contact for all calibration needs
- On-site service at your facility
- Certified and accredited calibration facilities and personnel
- Over 80,000 instrument models covered
- Plans customized to your requirements
- Fixed price levels - no budget surprises

Performance

Calibration is the cornerstone of measurement confidence. A Multi-Vendor Calibration Services (MVS) plan ensures the highest measurement quality from your Tektronix products, which receive the most thorough calibration in the industry. Hundreds of individual tests probe deeply into the instrument's behavior. Your Tektronix instrument is adjusted to factory-new performance, guaranteed.

In partnership with qualified regional business partners, Tektronix provides uncompromised calibration services and measurement confidence for all of your electrical, mechanical and process control instrumentation.

Compliance

Your instruments must be calibrated to globally-accepted standards so that their results, the results that impact your product's quality, can be trusted. MVS calibrations are performed under ISO accreditation and in compliance with metrology standards:

- ISO/IEC 17025:2005
- ANSI/NCSL Z540.1-1994(R2002)
- ISO 9001

Tektronix MVS plans address more than 80,000 model types. Tektronix manages the technicians, tools, and procedures used in your calibrations, and is the primary point of contact with full responsibility for the calibration compliance of all your equipment.

Convenience

Tektronix MVS calibrations are performed at your facility, scheduled at your convenience. On-site calibration procedures use mobile instruments that meet the same standards as depot-based tools. If you have multiple facilities with MVS contracts, every site will benefit from consistent policies, procedures, and results.

Tektronix MVS plans can address at least 95% of your total instrument inventory. You get a single point of contact for scheduling, tracking, and resolving unforeseen issues. The accountability rests with Tektronix.

Cost Effectiveness

Each MVS plan is customized to meet your technical, logistical, and budget needs. When you opt for an MVS plan, Tektronix representatives will meet with you to review equipment lists and arrange scheduling and access to facilities. The price of these services is competitive with that of third parties who cannot match Tektronix' breadth and depth of product knowledge.

On-site MVS services ensure the highest performance for all your measurement capital equipment, while reducing downtime and eliminating administrative headaches. A Tektronix MVS plan enables you to easily manage the total cost of calibration services, allowing increased productivity and a higher return on your investment.

Your Tektronix Service Advantage

Keeping a lab full of measurement instruments calibrated is a complex, demanding job. You've always been able to rely on Tektronix' proven expertise for calibration of the Tektronix products you own. Now Tektronix can deliver on-site calibration services for all of your measurement equipment, irrespective of product brand or origin, with a Multi-Vendor Calibration Service (MVS) plan designed just for your needs. Tektronix can be your single point of contact for all calibration schedules, events, and issues.

If you own a qualifying inventory of Tektronix and non-Tektronix instruments needing routine calibration, a Tektronix MVS plan can be a big advantage. You can select a convenient plan suited to your administrative and technical needs. You'll receive world-class calibration services managed by a leader in measurement and calibration technology. And you will get years of peak performance and value out of your instruments. That is your Tektronix service advantage.

Qualified Calibration Service Partners

Tektronix has allied with qualified regional business partners, each an established and accredited leader in independent calibration services, to assist with the delivery of its MVS plans.

For details, contact Tektronix at:

Inside the U.S.:

1-800-833-9200

Press Option 2 (Service)

then, Option 4 (Service Contracts)

Outside the U.S.:

Contact your regional Tektronix Sales & Service Center via www.tektronix.com/contact

Contact Fluke®:

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Fluke Europe B.V.

PO Box 1186, 5602 BD
Eindhoven, The Netherlands

For more information call:

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Fax (425) 446-5116

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Fax +31 (0) 40 2675 222

In Canada: (800)-36-FLUKE or

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For other areas contact Tektronix, Inc. at: 1 (503) 627-7111

Updated 30 October 2008

Also available:

Video Test and Measurement Catalog

Key product highlights and specifications for the entire suite of Tektronix video and broadcast test solutions.



To download a copy, please visit: www.tek.com/Masurement/programs/catalog

For Further Information

Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology. Please visit www.tektronix.com



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