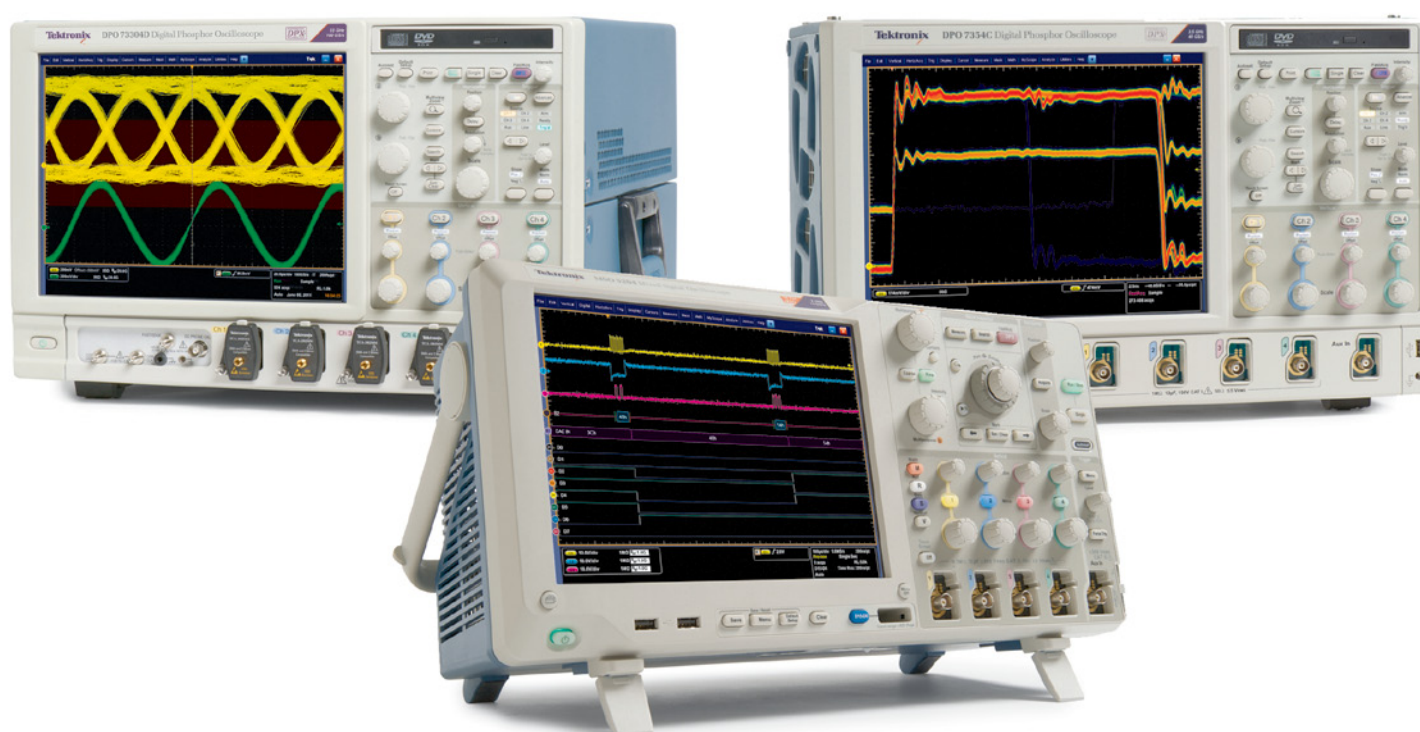




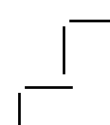
# Performance Oscilloscopes

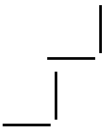
Fast, Flexible In-depth Analysis



When it comes to testing the most advanced designs with the fastest and most complex signals, you need a truly complete performance solution. Tektronix Performance Oscilloscopes and Probes give you the cleanest, most trustworthy signal in the world.

**Tektronix**<sup>®</sup>

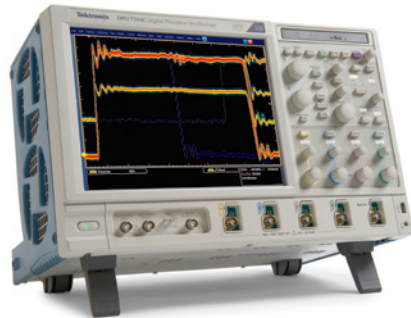




# Fast, Flexible In-depth Analysis



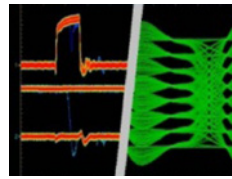
MSO/DPO5000 Series



DPO7000 Series

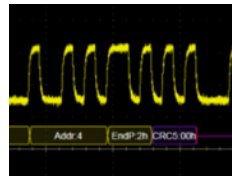


MSO/DSA/DPO70000 Series



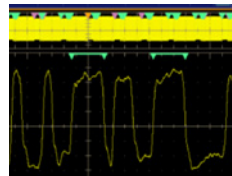
### Discover Problems in Seconds

With DPX® acquisition technology and the industry's highest waveform capture rate, you will achieve a level of insight that makes dealing with complex signals elementary.



### Capture Your Event the First Time

Pinpoint® triggering offers over 1400 available trigger combinations, including setup/hold and serial packet data, to ensure you quickly find the event you are looking for.

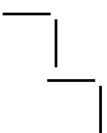


### Search Your Entire Record Instantly

With Advanced Navigation and Search Tools, you can extract the answers you need with efficiency and precision unlike any other oscilloscope on the market.

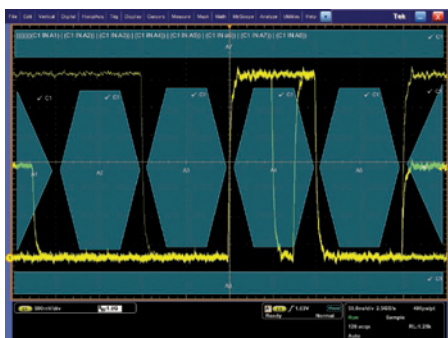
	MSO/DPO5000 Series	DPO7000C Series	MSO/DSA/DPO70000C Series	DSA/DPO70000D Series
Bandwidth	2 GHz, 1 GHz, 500 MHz, 350 MHz	3.5 GHz, 2.5 GHz, 1 GHz, 500 MHz	20 GHz, 16 GHz, 12.5 GHz, 8 GHz, 6 GHz, 4 GHz	33 GHz, 25 GHz
Channels	4 analog 16 digital (MSO)	4 analog	4 analog 16 digital (MSO)	4 analog
Record Length	12.5 M (std.) Up to 250 M (opt.)	12.5 M (std.) Up to 500 M (opt.)	Up to 31 M (std.) Up to 250 M (opt.)	Up to 31 M (std.) Up to 250 M (opt.)
Sample Rate (Analog)	Up to 10 GS/s	Up to 40 GS/s	Up to 100 GS/s	Up to 100 GS/s
Waveform Capture Rate	> 250,000 wfm/s	> 250,000 wfm/s	> 300,000 wfm/s	> 300,000 wfm/s
Triggering	Up to 350 trigger combinations	Pinpoint; Up to 1400 trigger combinations	Pinpoint; Up to 1400 trigger combinations	Pinpoint; Up to 1400 trigger combinations
Waveform Navigation & Search	Wave Inspector	Advanced Search and Mark	Advanced Search and Mark	Advanced Search and Mark

For an in-depth look at all of our products, including demos and 360-degree product explorers, please visit [www.tektronix.com](http://www.tektronix.com)





# Speed your debug cycle and analyze with confidence using these powerful capabilities



## Visual Trigger

Capturing and finding the right characteristic of a complex signal can require hours of collecting and sorting. Visual Trigger makes the identification of desired waveform events quick and easy with intuitive methods for setup.

**NEW!** Visual Trigger has color-coded areas and highly customizable sizing to enable easy and efficient definition and capture of important events in complex signals.



## Serial Bus Trigger/Decode/Search

Serial Bus Decoding greatly simplifies verification and serves as a gateway to debugging a protocol-based error in your design. Using these scope-based tools speeds up debugging while removing the need for a separate protocol analyzer in your lab.

- I<sup>2</sup>C/SPI
- RS-232/422/485/UART
- 8b/10b
- USB 1.1, 2.0
- **NEW!** CAN/LIN/FlexRay
- **NEW!** PCI Express 1.0, 2.0, 3.0
- **NEW!** MIPI D-PHY
- **NEW!** MIL-STD-1553
- **NEW!** 10/100 Ethernet



## Jitter and Eye Diagram Analysis

DPOJET is the industry's most complete jitter & timing analysis toolset. Easily conduct eye diagram measurements with flexible clock recovery methods for precise margin verification.

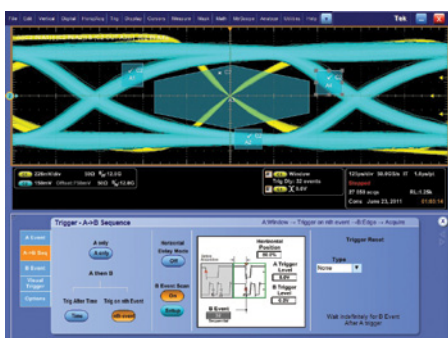
**NEW!** Obtain Bounded, Uncorrelated Jitter (BUJ) results that are now recommended for high-speed communications standards like 10GBASE-KR & Thunderbolt.



## Automated Serial Compliance Test

Serial Bus Compliance Testing can be time-consuming. Executing >100 different tests and writing a comprehensive report summary for compliance can be daunting. With over 25 packages available for standards from Ethernet to PCI Express, hours can be shaved off compliance test setup and execution.

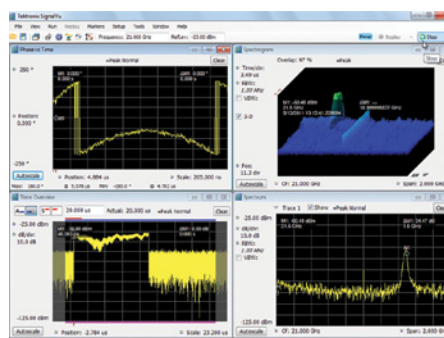
**NEW!** Support for MOST, SAS12, PCIe Gen3 and Thunderbolt buses



## DDR Memory System Verification

Accelerate the analysis, validation, and JEDEC conformance testing of memory systems based on DDR1, DDR2, DDR3, DDR4 and DDR derivative technologies like LPDDR, LPDDR2, LPDDR3, DDR3L, GDDR3 and GDDR5.

**NEW!** Visual Trigger support for read/write burst signal capture

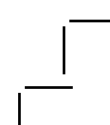


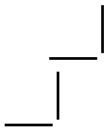
## Wideband Spectrum Analysis

Easily validate wideband designs and characterize wideband spectral events with the functionality of a vector signal analyzer, a spectrum analyzer, and the powerful trigger capabilities of a digital oscilloscope - all in a single package.

Up to 33 GHz maximum span available for broadband modulations such as QPSK, 256-QAM

**NEW!** Offline Version for characterizing waveforms on an external computer





# Now More Powerful Than Ever

Check out the new features and options available for Tektronix Performance Oscilloscopes, available with the latest firmware.\*

- Integrated serial bus trigger/decode/search
  - CAN/LIN/FlexRay (trigger/decode/search)
  - MIL-STD-1553 (trigger/decode/search)
  - SPI 2-wire support (trigger/decode/search)
  - 8b/10b, PCI Express (trigger/decode/search)
  - MIPI D-PHY (decode/search)
  - Ethernet (10BASE-T, 100BASE-TX)
- MOST 50/150, SAS12, PCIe Gen3 and Thunderbolt electrical compliance analysis
- Visual Trigger enhancements
  - Add/Delete/Edit area vertices
  - Change colors of VT areas to match channel waveform color
  - Advanced Search and Mark now includes visual trigger functionality
- “Mark all trigger events” search capability
- Improved Zoom and Cursor button operation
- Measurements on digital channels supported by DPOJET
- Custom Data Analysis enabled by MATLAB and .NET
- Support for the new P7630, 30 GHz Low Noise TriMode™ Probe
- User Interface for built-in error detector on the MSO/DPO70KC/D

\*New features and options added with releases. Current release as of January, 2013 is V6.7.0.

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