

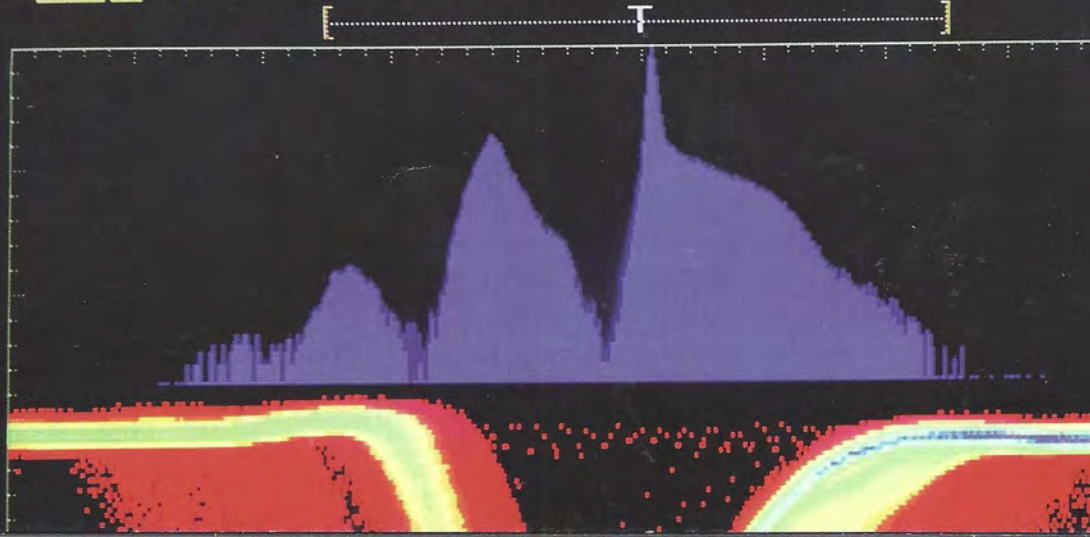
Tektronix

**Tektronix introduces
the next generation
of oscilloscope
for engineers
of the 21st century.**

**(A couple of years
ahead of schedule.)**

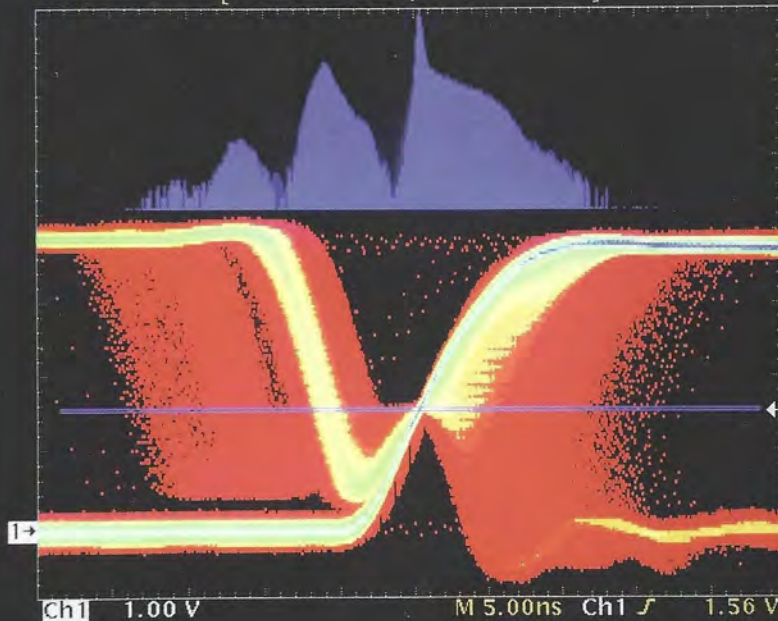
Tektronix Digital Phosphor Oscilloscope

Tek Stop: 10.0GS/s ET 5.404M Acqs



Tektronix Digital Phosphor Oscilloscope

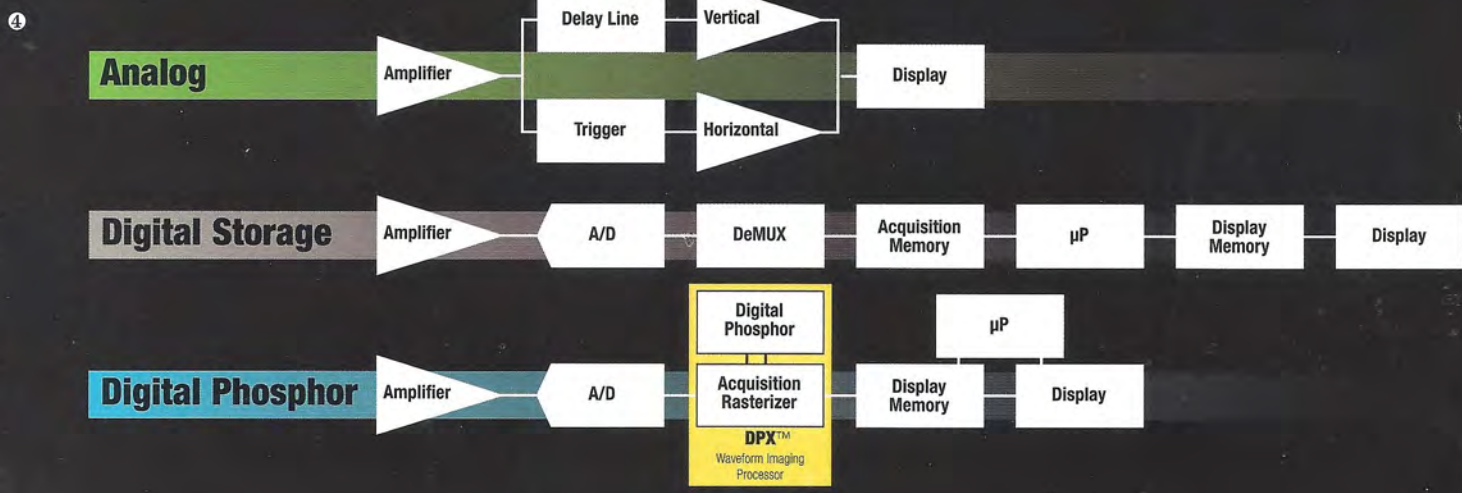
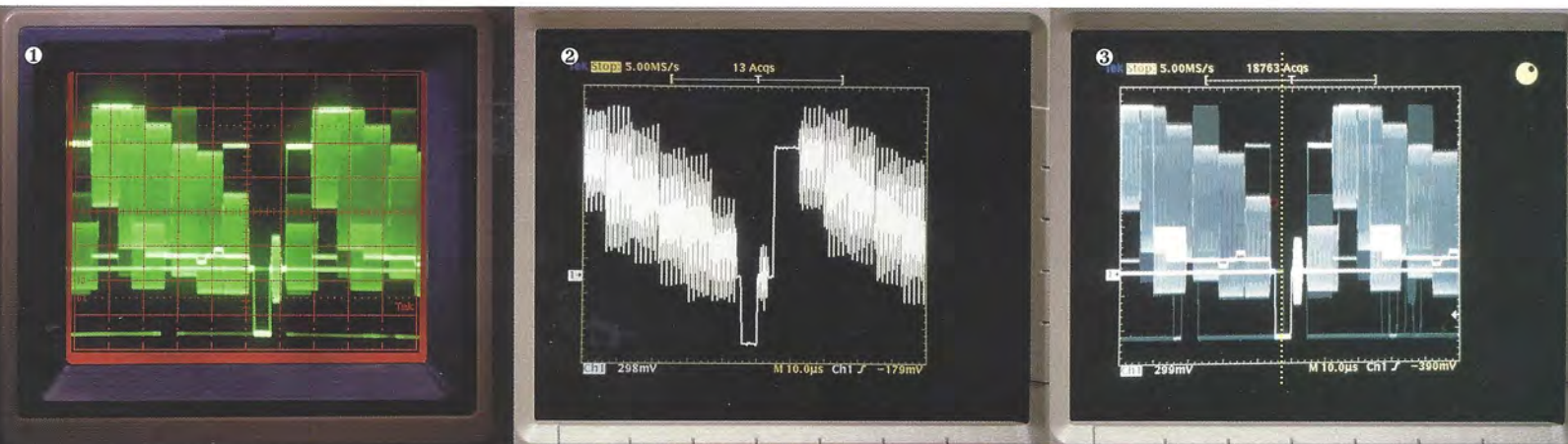
Tek Stop 10.0GS/s ET 5.404M Acqs



Better than analog. Better than digital. And More.

When we introduced the Digital Storage Oscilloscope in 1982, Tektronix gave the world waveform storage and analysis capabilities needed to create and test the technologies and applications of the 1980s and 1990s. Yet, even today many engineers keep an analog oscilloscope on hand for the immediacy and richness of the analog CRT display. Now Tektronix ushers in the third major era in oscilloscopes – the Digital Phosphor Oscilloscope, or DPO. ♦ DPO oscilloscopes are based on a revolutionary new internal architecture and the patented DPX™ Waveform Imaging Processor. The advanced connection, capture and display capabilities give engineers important new capabilities that can streamline test and measurement today, and permit them to work with the faster, more critical and more diverse signal types of the years ahead. ♦ The display of a Tektronix Digital Phosphor Oscilloscope surpasses even the finest analog scopes in immediacy, detail and richness of information. DPO oscilloscopes store waveforms, and offer unprecedented application-specific analysis flexibility. And, Tektronix DPOs are the first oscilloscopes to connect seamlessly via computer networks, for a degree of project collaboration, sharing and productivity never before possible. ♦ In the Tektronix tradition of staying ahead of the competition, we proudly introduce the new era in oscilloscopes for the twenty-first century. A couple of years early.

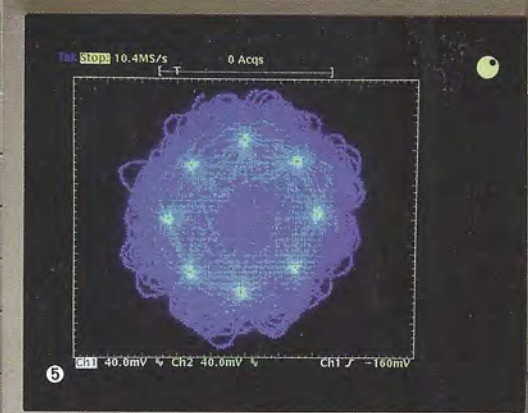
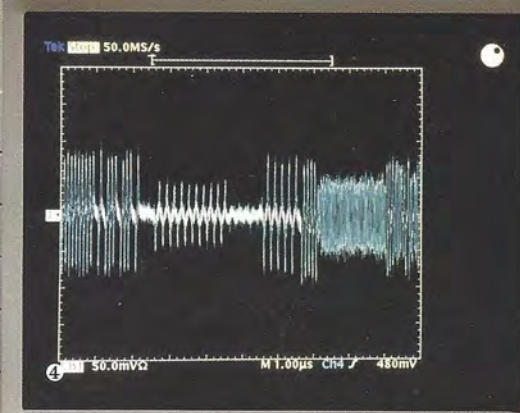
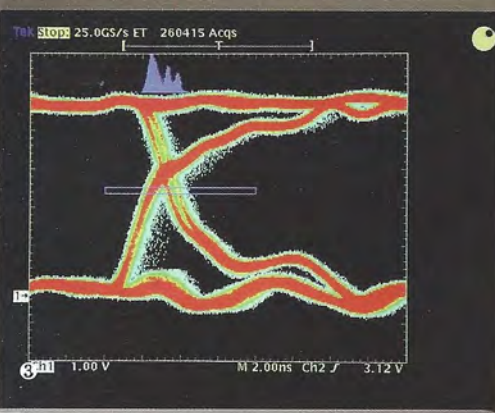
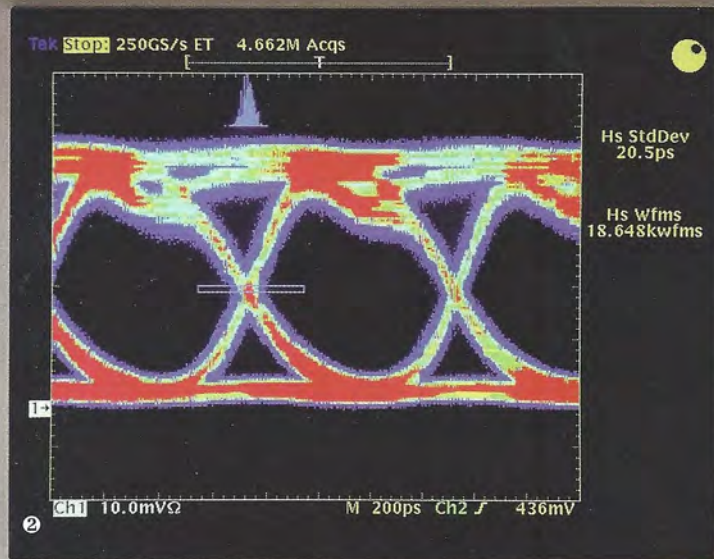
① The “look and feel” and immediacy of analog oscilloscopes have always given engineers a sense of confidence that what they see is what actually exists, especially when viewing complex signals. ② Digital Storage Oscilloscopes (DSOs) added valuable waveform capture, storage and analysis capabilities, but displayed data in a flat, two-dimensional manner. ③ In monochrome or color, the new generation of Digital Phosphor Oscilloscopes (DPOs) provides the information-rich real-time display of an analog scope, but with deep record storage and enriched application-specific waveform analysis capabilities. ④ These advanced capabilities are possible through an all new architecture that employs the patented Tektronix DPX™ technology to overlay captured waveforms in three dimensions at the rate of 100 million points per second, while updating the display.



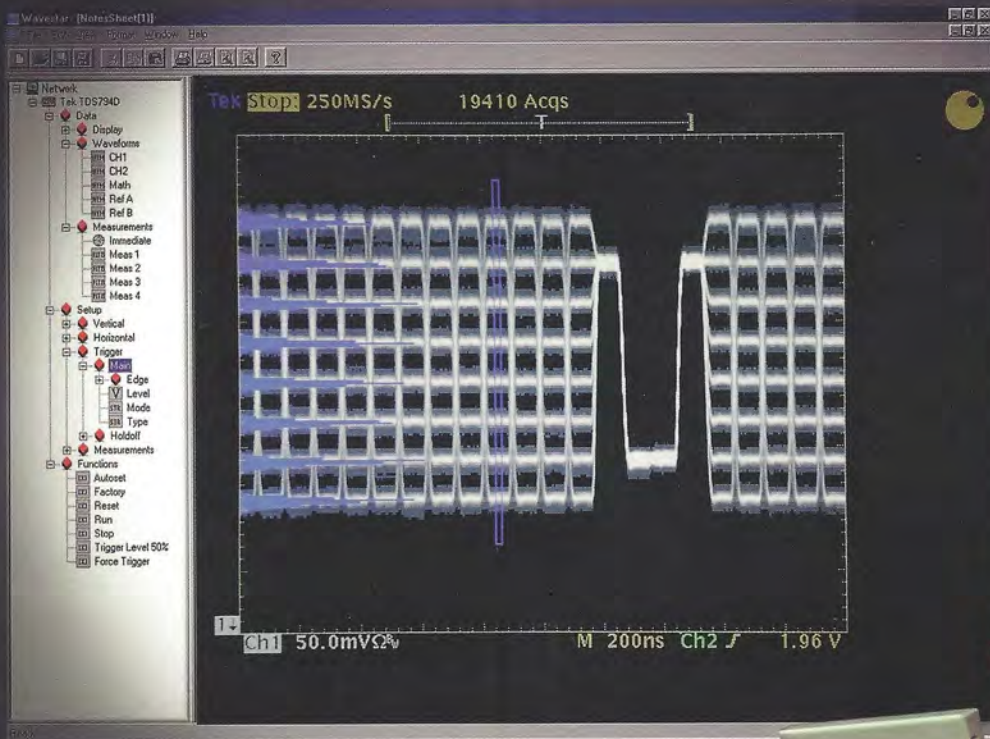
Next generation capabilities for the people who need them most.

Eventually there will be DPO oscilloscopes for everyone. But the first DPOs are specifically for you: engineers working on the leading edge of communications, computer, video and other applications characterized by complex signals or very high speeds. ♦ Only DPO oscilloscopes can display changing waveforms in real time with the depth and richness of an analog scope, store signals in a three-dimensional database, and provide meaningful analysis of the 3-D data. And the new DPOs embrace Java technology to provide the most comprehensive library of application-specific measurements and templates, supporting the latest worldwide standards. ♦ Our patented DPX™ technology, found only in Tektronix DPO oscilloscopes, acquires up to 1,000 times more signal information each second than conventional DSOs. It then presents the stored waveforms with information-rich color or gray scaling that reveals frequency of occurrence and gives you unprecedented insight into the subtle patterns and variations of complex signals. ♦ Tektronix DPO oscilloscopes also deliver the speed and power to support today's leading edge designs characterized by faster clocks, more critical edges, and increasingly complex signals. ♦ If you are working on the leading edge, a Tektronix DPO oscilloscope is simply the most powerful tool you can use.





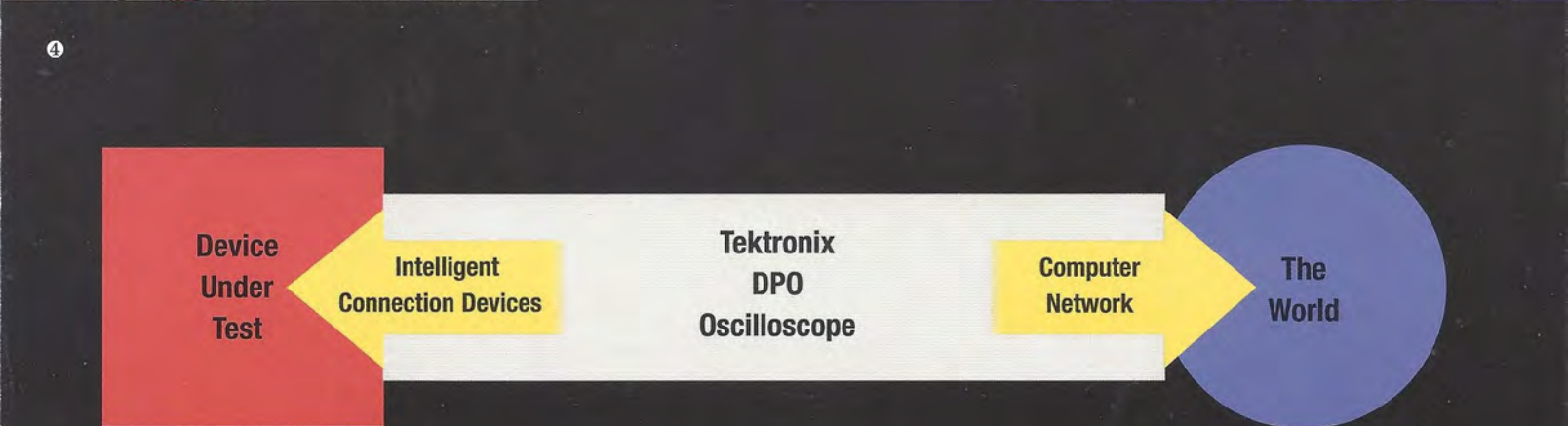
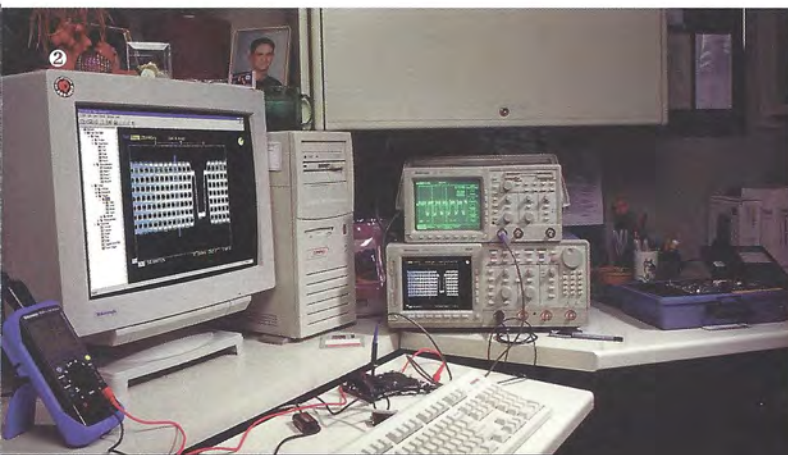
❶ In high-speed digital design applications, a DPO can capture and display random anomalies, finding even the most elusive glitches. ❷ For data communications, DPOs provide the sophisticated triggering and deep acquisition memory to capture the most complex signals with ease, even in the face of changing frequencies. ❸ The DPO can show the extent of edge jitter, then present a histogram quantifying the distribution of the signal. ❹ The many frequency components of this disk drive signal are revealed by the DPO display's sample density, while intensity grading shows important signal detail that reveals dropped bits or media flaws. ❺ Wireless communications presents unique challenges for any other type of oscilloscope. Here, the DPO's information-rich display, bandwidth and capture rate in XY mode show this $\pi/4$ PSK cellular phone signal with crystal clarity and depth.



Seamless connection, from DUT to anywhere in the world.

Tektronix DPOs are more than just next-generation oscilloscopes. They are a fully integrated measurement system – from the device under test to the scope, and from the scope to you and your colleagues wherever in the world they may be. ♦ A new generation of intelligent connection devices, including probes and accessories, has been created for the new DPO oscilloscopes. These devices extend the performance of the oscilloscope all the way to the DUT, resulting in the most precise, most reliable and least invasive measurements you can make. ♦ But the connection to the device under test doesn't end at the scope. DPO oscilloscopes offer connectivity to Ethernet LANs, permitting an unprecedented level of information sharing and collaboration among design teams scattered throughout a building, or across the world. ♦ The bottom line is this: Digital Phosphor Oscilloscopes are better than analog oscilloscopes, better than DSOs, and offer powerful new capabilities to help you streamline development and debugging on the leading edge. Superior acquisition speed. Advanced connection to device under test. Unprecedented display richness and immediacy to let you understand complex waveforms with greater clarity. Application-specific measurements and waveform analysis based on the latest global standards. And seamless connectivity to anyone, anywhere. ♦ The DPO era of oscilloscopes is here. For complete information, contact the Tektronix office nearest you. Or visit us on the World Wide Web at <http://www.tek.com/mbd/dpo>

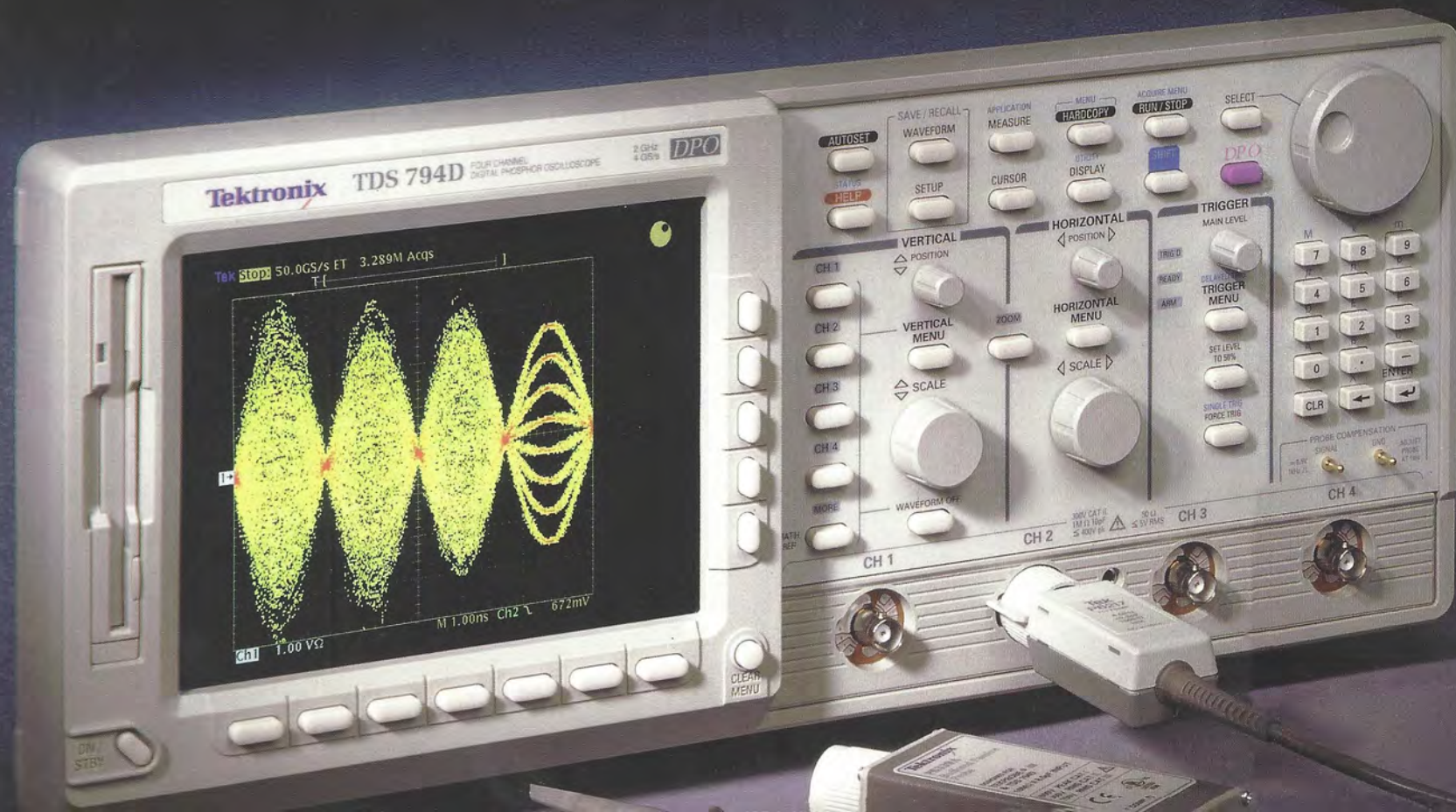
①② A new Windows® 95/NT application called WaveStar™ Software for Oscilloscopes lets users capture, analyze and document data – and even control the DPO remotely – with drag-and-drop simplicity. ③ The new generation of intelligent connection devices for DPO oscilloscopes includes passive probes, active FET probes providing up to 4 GHz usable bandwidth at the DUT, low capacitance probes for signals with frequency components exceeding 500 MHz, optical-to-electrical converters, plus a full range of differential, current and other probes. ④ The new DPO oscilloscopes offer connectivity to computer networks and embrace Java technology to readily accommodate application-specific measurements.



Tektronix Digital Phosphor Oscilloscopes are here today.

The world's first DPOs are the all-new Tektronix TDS 700D Series and TDS 500D Series oscilloscopes. These new models offer increased performance and all the benefits of a DPO oscilloscope, while retaining the familiar TDS front panel and user interface you already know and love. ♦ You can choose bandwidths up to 2 GHz and deep, expandable acquisition memory. Plus the family of intelligent connection devices to make clean connections to the latest components, and accurate and dependable measurements. And all the new DPO oscilloscopes are connectable to anyone anywhere, creating unprecedented opportunities for team collaboration. ♦ The new DPO oscilloscopes from Tektronix. More oscilloscope power than ever before. And, at prices comparable to DSOs, a next generation Digital Phosphor Oscilloscope from Tektronix is the clear choice for the toughest design challenges of today. And the future.

MODEL	BANDWIDTH	NO. OF CHANNELS	SAMPLE RATE GS/s (1 Ch / All Chs)	MAXIMUM RECORD LENGTH (1 Ch / All Chs)	DISPLAY
TDS 794D	2 GHz	4	4/1	8M/2M	Color
TDS 784D	1 GHz	4	4/1	8M/2M	Color
TDS 754D	500 MHz	4	2/1	8M/2M	Color
TDS 724D	500 MHz	2+2	2/1	4M/2M	Color
TDS 580D	1 GHz	4	4/1	8M/2M	Mono
TDS 540D	500 MHz	4	2/1	8M/2M	Mono
TDS 520D	500 MHz	2+2	2/1	4M/2M	Mono



Tektronix oscilloscopes for every measurement need.

For more than fifty years, Tektronix has pioneered virtually every major advancement in oscilloscope technology. Today you can turn to Tektronix for a comprehensive line of the most advanced, most accurate, most reliable and easiest to use oscilloscopes available. Tektronix offers performance, features and price to match every application and engineering environment, from our new flagship family of Digital Phosphor Oscilloscopes (described in this brochure) to our lowest cost Digital Storage Oscilloscopes and handheld models. For more information on any Tektronix oscilloscope or other product, contact the Tektronix office nearest you. Or visit us on the World Wide Web at <http://www.tek.com/mbd>



Digital Phosphor Oscilloscopes
500 MHz to 2 GHz
TDS 700D Series
TDS 500D Series



Digital Storage Oscilloscopes
60 MHz to 1 GHz
TDS 600 Series
TDS 400 Series
TDS 300 Series
TDS 200 Series



Sampling Oscilloscopes
6 GHz to 50 GHz
TDS 820
11801C/CSA 803C

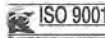


Handheld Oscilloscopes
60 MHz to 200 MHz
THS 700 Series

For further information, contact Tektronix:

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