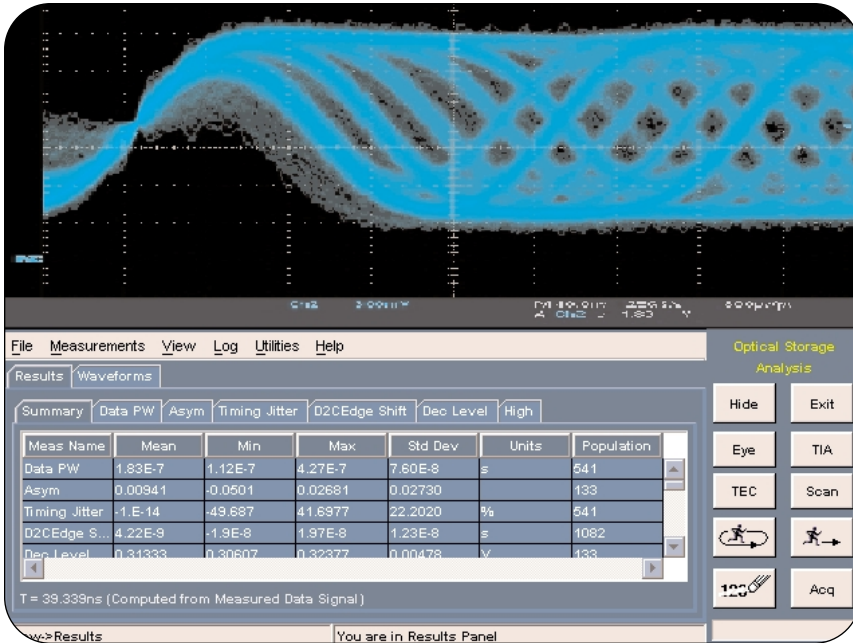


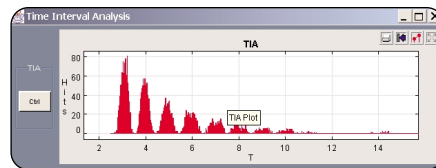
Optical Storage Analysis and Measurement Software

► TDSDVD



Optical Storage Analysis and Measurement Software Package

The TDSDVD optical storage analysis and measurement software package, coupled with Tektronix TDS5000, TDS7000 and CSA7000 Series digital phosphor oscilloscopes, is the first test tool to deliver the flexibility, analysis, time interval display, automatic industry-specific measurements, and familiar, analog-like display for design and test engineers developing state-of-the-art optical storage systems. This superior test solution combines the capabilities of an analog oscilloscope, digital oscilloscope and jitter analyzer into one simple-to-use tool that provides complete system characterization and allows designers to maximize the performance of existing systems and next-generation designs.



► *Time Interval Analysis (TIA) display provides data-pulse-width measurements as histogram displays plotted over T values.*

TekFlex™ Delivers an Ideal Design Solution for Next-generation Optical Storage Systems

TDSDVD's TekFlex feature enables designers to develop next-generation designs or optimize the performance of existing optical storage systems beyond current ECMA standards by allowing them to modify or substitute various signal processing blocks, such as the Equalizer, Low pass filter, Slicer and PLL. When installed on a PC, the TDSDVD application software utilizes the exceptional computational power of the workstation to make complex calculations sometimes required when fine-tuning intricate designs.

► Features & Benefits

Automatic Industry-specific Optical Storage, Amplitude and Timing Measurements Help Characterize Designs Efficiently

TekFlex™ Feature Offers Unprecedented Flexibility to Modify Signal Processing Blocks – Equalizer, Low Pass Filter, Slicer and PLL – to Develop Next-generation Optical Designs

Digital Phosphor Technology Delivers the Complex RF Eye Display as Previously Seen Only on Analog Oscilloscopes

Automatic Determination of Clock Period for Advanced Constant Angular Velocity (CAV) Drives for Easier and More Accurate Analysis

Tracking Error Counter Enables Users to Determine Tracking Error Count

Input Block Diagram Allows Bypassing of Various Signal-processing Blocks

Time Interval Analysis (TIA) Display Provides Histogram Display of Pulse Width Measurements Over T Values

Five Display Modes – Summary, List by nT, Plot, Histogram and List – Enable Users to View the Output in Various Formats for In-depth Analysis

Statistical Information Including Mean, Max, Min, Average and Standard Deviation Offers Greater Insight into Signal Behavior

► Applications

Design and Debug of DVD, CD and MO

Development of Next-generation Optical Systems

Development of Systems Beyond Current ECMA Standards

Optical Storage Analysis and Measurement Software

► TDSDVD

► Characteristics

Amplitude Measurements

Amplitude – High, Low, Peak-to-Peak, Decision Level, Asymmetry, Symmetry.

Modulation – Resolution, Ratio.

Timing Measurements

Data – Timing Jitter, Data Pulse Width.

Clock – Clock Jitter.

Data-to-Clock Edge Shift – Leading, Trailing, Leading and Trailing, Leading or Trailing.

Tracking Error Counter

Tracking Error Count.

Gating

By Cursors.

User Options

Select Voltage Threshold – To determine “pit” and “space.”

Select Clock Source – Synthesized, measured or extracted.

Physical Characteristics

Software supplied on compact disk media. Software application running on the TDS5000, TDS7000 and CSA7000 Series oscilloscopes, or on a stand-alone PC connected to an oscilloscope running TDSDVD software application.

► Ordering Information

Includes: Application CD, online documentation and quick reference guide.

To Order Pre-installed On a New TDS5000, TDS7000 or CSA7000 Series Oscilloscope Order: Opt. DVD.

To Upgrade Your Existing TDS5000, TDS7000 or CSA7000 Series Oscilloscope
TDS5104/5054/5052 – Order: TDS5UP Opt. DVD.
TDS7404/7254/7154/7104/7054 – Order TDS7UP Opt. DVD.
CSA7404/7154 – Order CSA7UP Opt. DVD.

System Requirements

- When running the TDSDVD software application on a TDS5000, TDS7000 or CSA7000 Series oscilloscope: Oscilloscope must have Java Run Time Environment 1.4
- When using a stand-alone PC connected to a TDS5000, TDS7000 or CSA7000 Series oscilloscope running the TDSDVD software application, PC requirements include:
 - Java Run Time Environment 1.4
 - Pentium II or higher processor
 - 256 MB windows memory
 - NI-AT GPIB card/LAN card
 - Windows 2000 or Windows Me operating system
- TekFlex: TekFlex works with MATLAB .m files or general Windows DLLs. In case you are using MATLAB .m files, MATLAB version 6.1 or newer should be installed on the platform (oscilloscope or PC) running the TDSDVD application.

Windows Memory Requirements*1

The following specifies Windows memory requirements when running the TDSDVD software application on a TDS5000, TDS7000 or CSA7000 Series oscilloscope, or when using a stand-alone PC connected to a TDS5000, TDS7000 or CSA7000 Series oscilloscope running the TDSDVD software application.

When operating an oscilloscope with record length up to 2 M samples, Windows RAM requirements on oscilloscope or PC include:

- Required: 256 MB
- Recommended: 256 MB

When operating an oscilloscope with record length 4 M samples and above, Windows RAM requirements on oscilloscope or PC include:

- Required: 256 MB*2
- Recommended: 512 MB

*1 Specified performance considerations apply when running six measurements with all processing blocks.

*2 Analyzing 4 M or more samples may be a long operation.

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www.tektronix.com



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