

Getting Started with TSDVD

You can use this side of the Quick Reference to get started taking measurements with the Optical Storage Analysis and Measurements Application (TSDVD). The other side contains a complete menu tree of the TSDVD software.

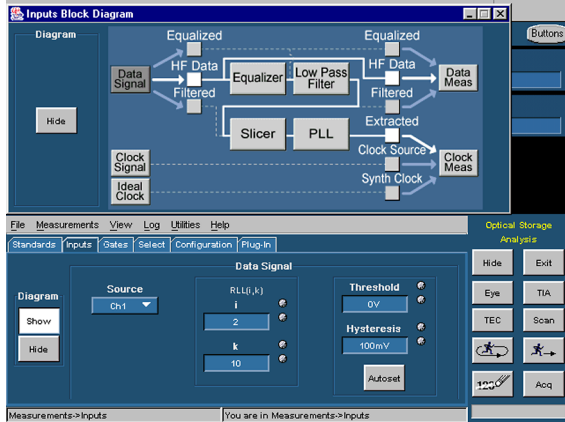
NOTE. For complete operating instructions and General Safety information, refer to the Online Help for the application.

The TSDVD application is designed to meet the test requirements of the CD/DVD/MO industry for current and next-generation designs. Supported tests include industry specific amplitude, timing and jitter measurements, along with the flexibility to substitute any of the signal processing blocks for testing next-generation designs.

Performing Amplitude and Timing Measurements

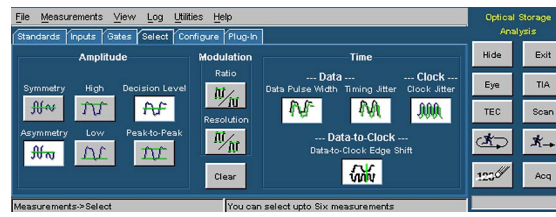
To take measurements, follow these steps:

1. From the oscilloscope menu bar, select File> Run Application> Optical Storage Analysis.
2. From the application menu bar, select Measurements> Standards and then the appropriate standard.
3. Select Measurements> Inputs> Show. Select the data signal, data path, and the clock signal to configure the parameters.

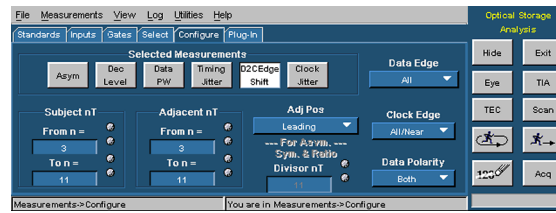


4. In the Measurements> Inputs> Data Signal area, select Autoselect to set the threshold and hysteresis.

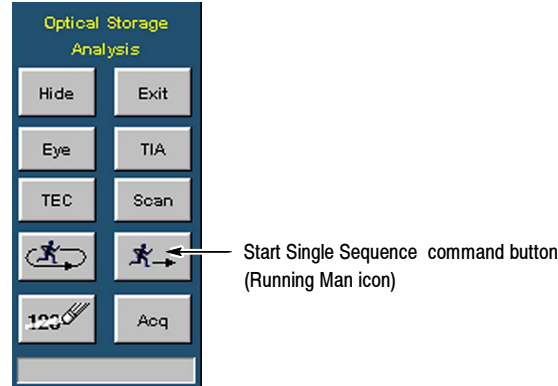
5. To take a measurement on a gated signal, select Measurements> Gates> Cursors. If the signal is not gated, select Measurements> Gates> None.
6. Select Measurements> Select and then a measurement. You can select up to six measurements.



7. Select Measurements> Configure.



8. Select each measurement and set up the options.
9. Select the Start Single Sequence command button (a Running Man icon) to start taking measurements.



Results are displayed as a summary and as individual measurements (List by nT).

| Meas Name | Mean | Min | Max | Std Dev | Units | Population |
|---------------|---------|---------|---------|---------|-------|------------|
| Asym | | | | | | 0 |
| Dec Level | 0.31326 | 0.30678 | 0.32214 | 0.00333 | V | 114 |
| Data PW | 1.74E-7 | 1.08E-7 | 3.68E-7 | 6.08E-8 | s | 498 |
| Timing Jitter | 8.5E-16 | -51.920 | 69.9216 | 27.7700 | % | 498 |
| D2CEdge S | 4.49E-9 | -1.6E-8 | 1.56E-8 | 1.00E-8 | s | 896 |

10. Select View> Results > Summary> Details and then select a format in which to display the results: Histogram, Plot or Listing.



For up-to-date information on Tektronix oscilloscope solutions for Optical Storage Analysis, access the www.tektronix.com/Measurement/scopes/ web page.

TSDVD Ordering Information

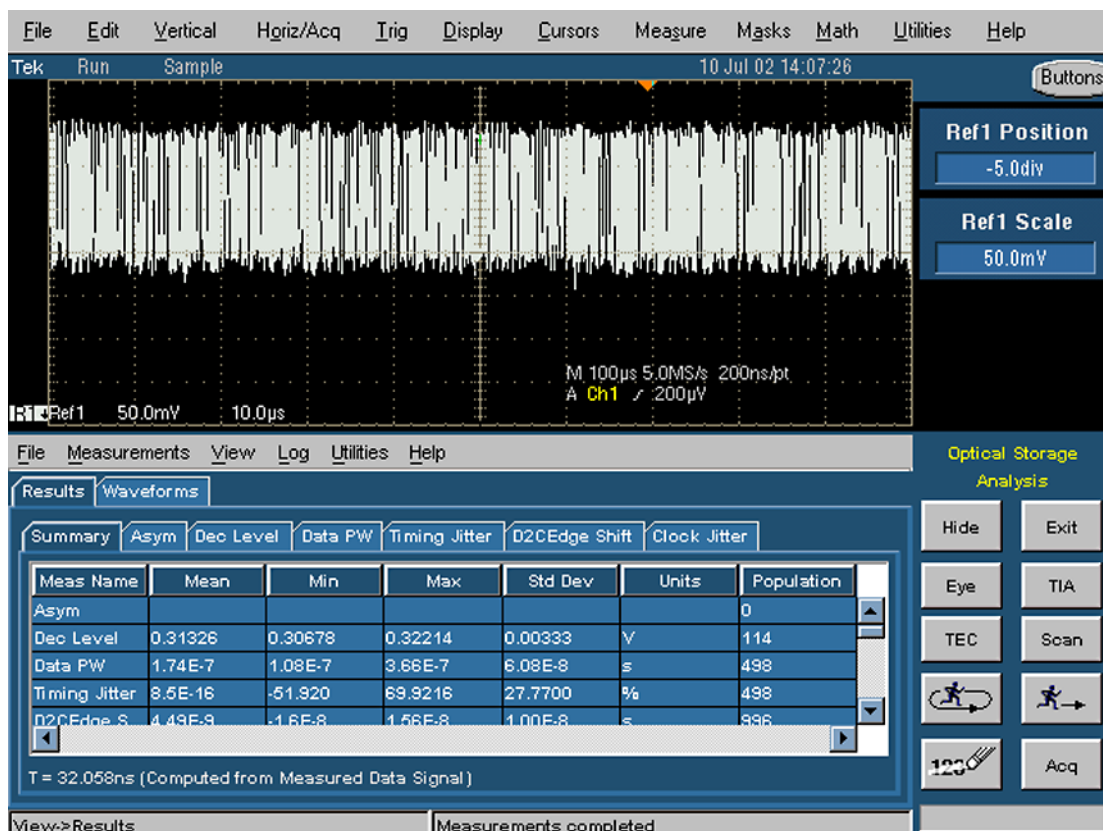
This application supports the TDS5000B, TDS5000, TDS/CSA7000, and TDS/CSA7000B series oscilloscopes; refer to the *Optional Applications Software on Windows-Based Oscilloscopes Installation Manual* for a list of specific models. The optional applications CD also includes a PDF file of the installation manual.

If Option DVD was ordered with your new TDS or CSA oscilloscope:

- Optical Storage Analysis and Measurements Application is installed and enabled

To order an upgrade for an existing oscilloscope:

- Order the TDS5BUP Option DVD
- Order the TDS5UP Option DVD
- Order the TDS7BUP Option DVD
- Order the TDS7UP Option DVD
- Order the CSA7BUP Option DVD
- Order the CSA7UP Option DVD



TSDVD Optical Storage Analysis and Measurements Application Reference

TDSDVD Menu Tree

