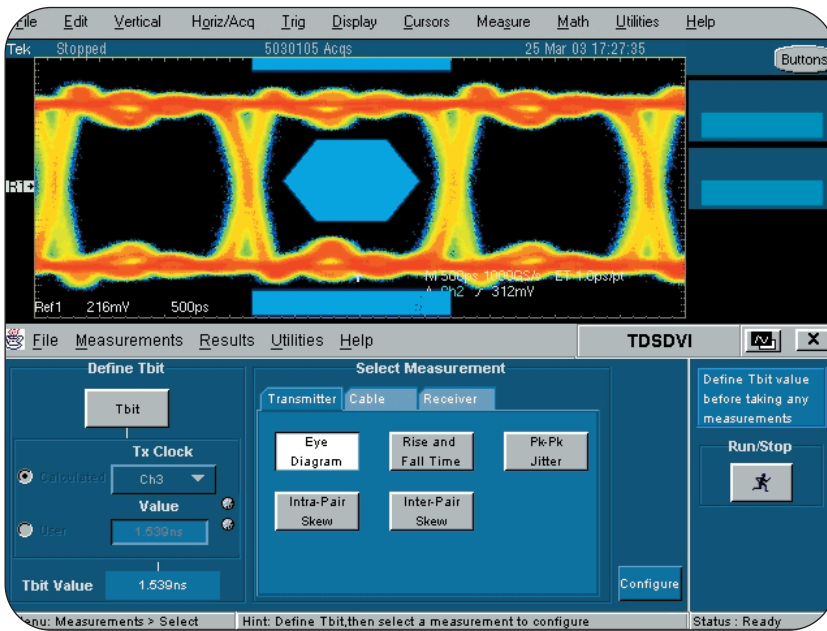


DVI Compliance Test Solution

► TDS DVI



► Accurate, fast, and reliable in-house testing for DVI physical layer.

Engineers involved in design, characterization and validation of DVI devices face constant pressure to speed new products to the marketplace. Developers need to improve efficiency with faster validation cycles. Design and validation engineers need tools to perform quick and reliable compliance testing right on their bench.

TDS DVI Compliance Test Solution, coupled with TDS7404, TDS7254, CSA7404, and TDS6000 series oscilloscopes, enhances test efficiency with faster validation cycles and offers higher reliability for conformance to standards.

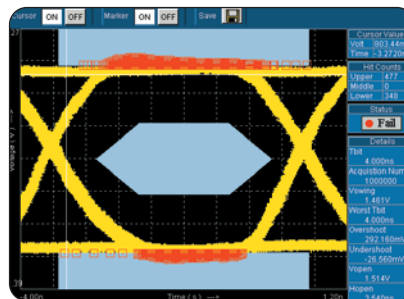
Comprehensive Range of Measurements

TDS DVI addresses the wide spectrum of transmitter, cable and receiver tests. The portfolio of tests includes eye diagram, jitter, skew, and rise and fall time testing.

Reliable Testing with in-depth Information

TDS DVI is the industry's first compliance test tool that conducts testing according to DVI specification and the DVI Test and Measurement Guide. It first calculates the

unit interval (T_{bit}), accumulates a million acquisitions and performs the eye diagram test on the worst-case eye among the ten bits of a pixel. The mask hit-count provides detailed information about the signal characteristics.



► Eye diagram showing mask hits.

Easy-to-Use

TDS DVI automatically sets up the oscilloscope for the selected test, creates the eye mask and also performs other parametric tests. Pass/Fail indication for the conducted tests, substantiated with detailed results, makes TDS DVI the preferred solution for DVI compliance testing. An automatic report generator provides the detailed report for the conducted tests.

► Features & Benefits

Wide Range of Tests
Enable Complete Validation to Standards

Automatic "One-button" Testing Ensures Faster Testing with Higher Reliability

Comprehensive Range of Tests for Transmitter, Cable and Receiver Testing – Eye Diagram Test, Peak-to-Peak Jitter, Inter-pair and Intra-pair Skew, Rise and Fall Time

Automatic Pass/Fail Notification for Quick Conformance to Standards

Supports All Resolutions Up to UXGA

Half Clock and Pseudo Random Patterns for Various Resolutions Allow Testing as per DDWG Procedures

Online Context Sensitive Help Provides Assistance

Sophisticated Report Generator Saves Time

Unique Result Comparison Feature Enables Comparing Results of Tests Conducted on Two Different Devices

► Applications

DVI Physical Layer Compliance Testing

Characterize the Quality of Your DVI Designs

DVI Compliance Test Solution

► TDS DVI

► Characteristics

Transmitter Tests – Eye diagram, Peak-to-Peak Jitter, Skew (Intra and Inter pair), Rise and Fall time.

Cable Tests – Eye diagram (high-amplitude and low-amplitude), Peak-to-Peak Jitter, Skew (Intra and Inter pair).

Receiver Tests – Eye diagram (high-amplitude and low-amplitude).

Patterns for Compliance Testing As per DDWG Procedures – Half Clock and Pseudo random patterns for resolutions from VGA to UXGA.

Tektronix Oscilloscopes Required

TDS7404, CSA7404, TDS7254*1 and TDS6000 series oscilloscopes with version 2.2.0 or above.

Note: TDS6000 series oscilloscopes offers Eye-Trends feature to provide continuous trends of eye formation and various important parameters, such as T_{bit} , H_{open} , V_{open} , etc.

*1 Supports resolutions up to SVGA.

► Ordering Information

TDS DVI

DVI Compliance Test Software

Includes: Application CD and electronic documentation.

To Order Along with TDS7404, CSA7404, TDS7254, and TDS6000 Series Oscilloscopes

Opt. DVI – DVI Compliance Test Solution.

To Upgrade Existing Oscilloscope

TDS6000 – Order TDS6UP: Opt. DVI.

TDS7000*2 – Order TDS7UP: Opt. DVI.

CSA7000*3 – Order CSA7UP: Opt. DVI.

Recommended Accessories

Differential Probes – P7350, P7330, P6330.

TDSJIT3 – Jitter analysis package.

Single Ended Probes – P7240.

Arbitrary Waveform Generator – AWG510, AWG520, AWG610, AWG710.

Data Generator – DG2020A.

Time Domain Reflectometer – TDS8000/ 80E04.

*2 TDS7UP supports TDS7254 and TDS7404 ONLY.

*3 CSA7UP supports CSA7404 ONLY.

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www.tektronix.com



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