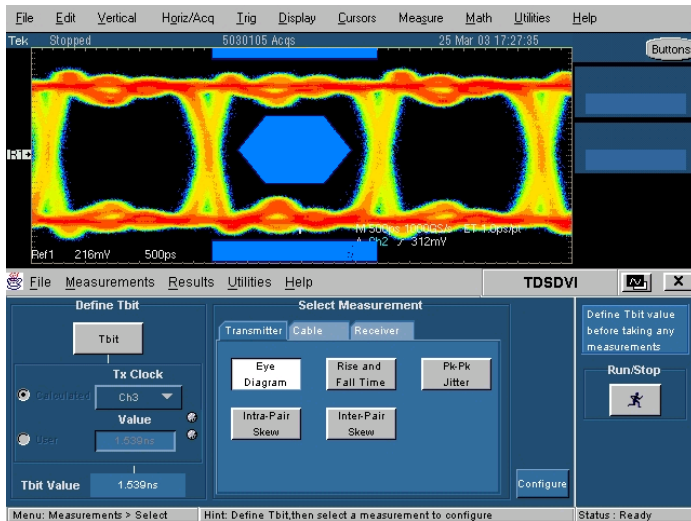


DVI Compliance Test Solution

TDSDVI Data Sheet

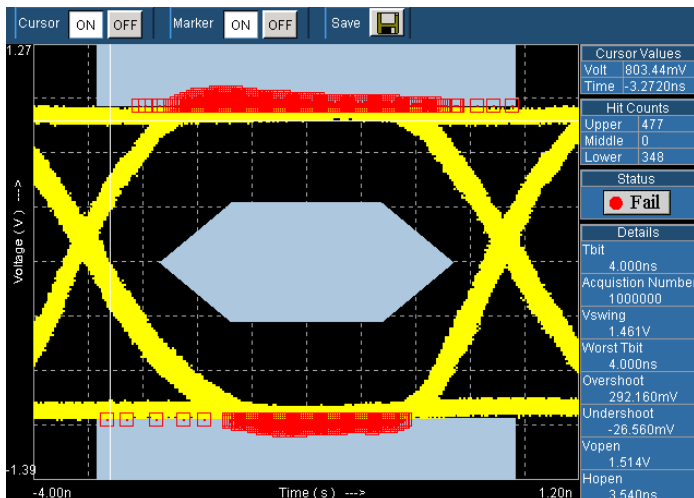


Features & Benefits

- 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 Pseudorandom 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



Eye diagram showing mask hits.

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.

TDSDVI Compliance Test Solution, coupled with DPO7354 and DPO/DSA/MSO70000 Series oscilloscopes, enhances test efficiency with faster validation cycles and offers higher reliability for conformance to standards.

Comprehensive Range of Measurements

TDSDVI addresses the wide spectrum of Transmitter, Receiver, and Cable tests. The portfolio of tests includes eye diagram, jitter, skew, and rise/fall time testing.

Reliable Testing with In-depth Information

TDSDVI 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.

Easy to Use

TDSDVI 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 TDSDVI the preferred solution for DVI compliance testing. An automatic report generator provides the detailed report for the conducted tests.

Characteristics

Characteristic	Description
Transmitter Tests	Eye Diagram, Peak-to-Peak Jitter, Skew (Intra- and Inter-pair), Rise/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 pseudorandom patterns for resolutions from VGA to UXGA.

Tektronix Oscilloscopes Required

DPO7000 and DPO/DSA/MSO70000 Series oscilloscopes with firmware version 3.0.0 and above.

Ordering Information

TDSDVI

DVI Compliance Test Software

Includes: Application CD and electronic documentation.

To Order Along with the DPO7354 and DPO/DSA/MSO70000 Series Oscilloscopes

Opt. DVI – DVI Compliance Test Solution.

To Upgrade Existing Oscilloscope

Model	Order
DPO/DSA/MSO70000 Series	DPO-UP DVI
DPO7354	DPO-UP DVI

Recommended Accessories

Accessory	Description
Differential Probes	P7350, P7330, P6330
DPOJET	Jitter and Eye Analysis package
Single-ended Probes	P7240
Arbitrary Waveform Generator	AWG5000 and AWG7000 Series
Time Domain Reflectometry	DSA8200 and 80E04

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For Further Information. Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology. Please visit www.tektronix.com



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