MIPI Display and Touch Test Solutions

Flexible Products that Satisfy Your Testing Needs

The various technological advances aimed at producing feature-rich, power-efficient, and higher quality displays have made it increasingly difficult to design and test display-intensive products. The increased complexity of display devices means that design and test engineers must consider many operating scenarios when creating test setups. Introspect Technology has created the most complete suite of test tools for display driver integrated circuits (DDICs) as well as completely assembled display panels, ranging from protocol exercising and analysis to high-volume production testing and system-level emulation.

INDUSTRY CHALLENGES

- Ultra high-resolution display panel testing and calibration
- Ultra high frame rates and transmission bandwidths
- Strict video timings and advanced compression algorithms
- Complex protocol features such as scrambling and spread-spectrum clocking
- Advanced, multi-level physical layers
- Complex conformance test requirements

INTROSPECT CAPABILITY

- Optimized tools that achieve the most stringent video timing requirements
- Ability to achieve and exceed the theoretical maximum frame rates and bandwidths of MIPI DSI-2 links
- Real-time packet error analysis with support for compression and decompression
- Best-in-class exerciser and analyzer features, developed in lock-step with the standards
- Conformance test suites for transmitters and receivers

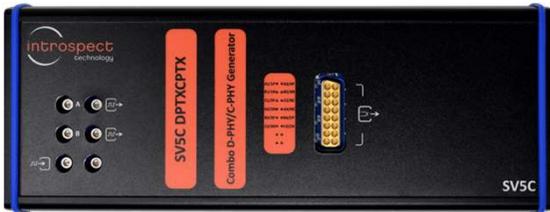## Application Highlight: Receiver Stress Testing and Characterization
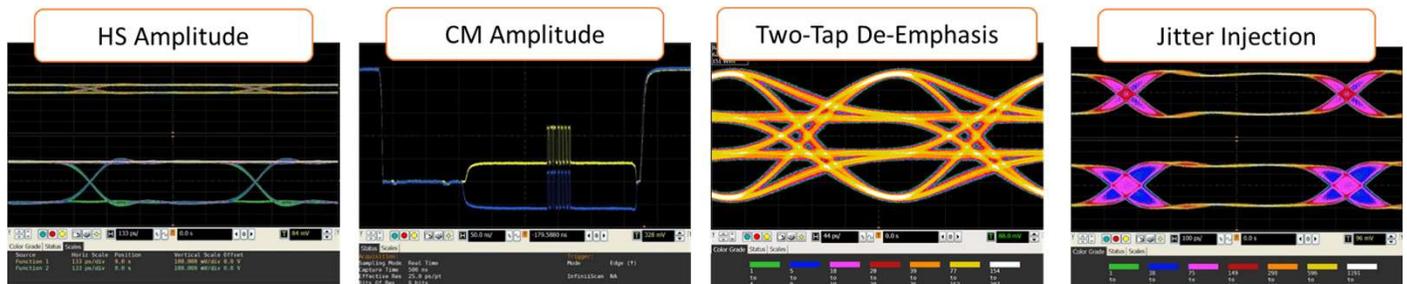
SV3C-DPTX waveforms illustrating voltage, timing, and signal integrity controls required for receiver testing

C SERIES

SV5C-DPTXCPTX

MIPI D-PHY/C-PHY Generator

High performance digital pattern generator and receiver characterization solution

SV5C-DPRXCPRX

MIPI D-PHY/C-PHY Analyzer

Protocol analyzer and transmitter characterization solution with comprehensive measurement capability

E SERIES

SV4E-DPTXCPTX

MIPI Transmit Device Emulator

DDIC and display module tester which drives any resolution, any refresh rate, and any compression algorithm

SV4E-I3C

I3C Test and Debug Module

Versatile tool for characterizing, analyzing, and debugging control interfaces based on MIPI I3C

OSCILLOSCOPE PROBING SOLUTIONS

PV1

Universal Active Probe

Oscilloscope and protocol analyzer probing solution for multi-Gbps applications

CRTB

C-PHY Reference Termination Board

Reference board for calibrating signal generators and measuring transmitters running at C-PHY 2.0 speeds