



MIPI Camera and Imaging Test Solutions

Flexible Products that Satisfy Your Testing Needs

As image sensor and camera designs continue to evolve and broaden their application reach, significant design and verification challenges have emerged. At Introspect Technology, we have created the most complete portfolio of tools for addressing these challenges. Our instruments have become indispensable to the design, verification, and high-volume manufacturing of devices and systems based on MIPI® Alliance physical layer, camera, and control specifications. Features such as virtual channels, deep color pixel formats, scrambling, or spread-spectrum clocking are all seamlessly supported by our test tools.

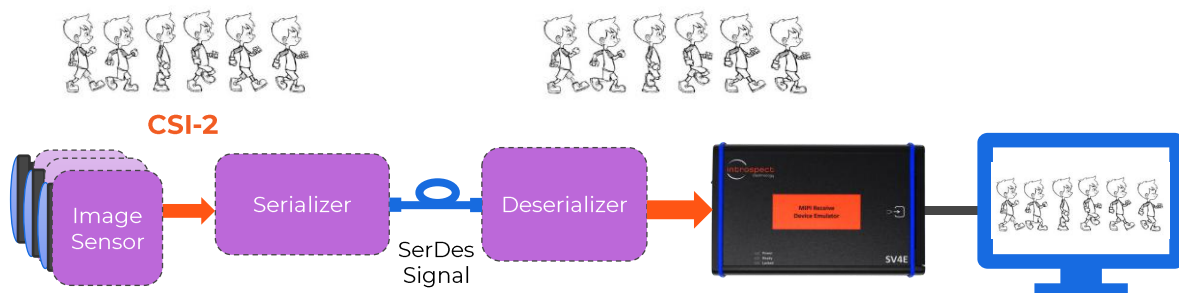
INDUSTRY CHALLENGES

- Ultra-high-resolution sensor array testing and characterization
- Ultra-high frame rates and transmission bandwidths
- Large number of virtual channels
- Complex protocol features such as scrambling and embedded data
- Advanced, multi-level physical layers
- Complex conformance test requirements

INTROSPECT CAPABILITY

- Optimized tools for capturing and streaming high-resolution pixel data
- Ability to achieve and exceed the theoretical maximum frame rates and bandwidths of MIPI CSI-2 links
- Real-time packet error analysis
- Best-in-class exerciser and analyzer features, developed in lockstep with the standards
- Conformance test suites for transmitters and receivers

Application Highlight: 10 Gbps Automotive SerDes Link Testing



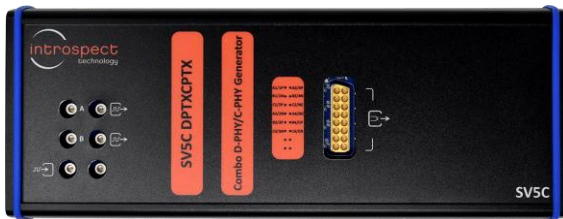
SV4E-DPRXCPRX Testing a Complete Multi-Sensor Automotive Link

C SERIES

SV5C-DPTXCPTX

MIPI D-PHY/C-PHY GENERATOR

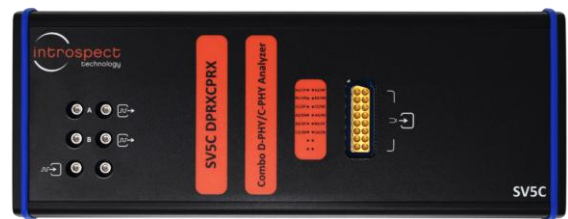
High-performance digital pattern generator and receiver analog characterization solution



SV5C-DPRXCPRX

MIPI D-PHY/C-PHY ANALYZER

Protocol analyzer and transmitter characterization solution with comprehensive measurement capability



OSCILLOSCOPE PROBING SOLUTIONS

RSH1

REMOTE SAMPLING HEAD

10 active probes integrated into a clean, shielded form factor



RSH2

REMOTE SAMPLING HEAD

12 active probes integrated into a clean, shielded form factor



ACCESSORIES

PV2

UNIVERSAL ACTIVE PROBE

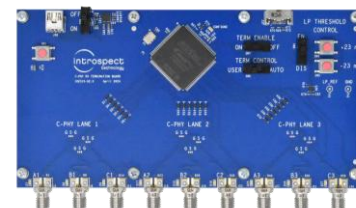
Oscilloscope and protocol analyzer probing solution for multi-Gbps applications



CRTB

MIPI C-PHY REFERENCE TERMINATION BOARD

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



TO LEARN MORE, SEND US AN EMAIL AT [INFO@INTROSPECT.CA](mailto:info@introspect.ca)