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NI Announces Rugged Compact Vision System for USB3 Vision Cameras

NI CVS-1459RT delivers quad-core Intel Atom Processor, USB 3.0 camera ports and FPGA-enabled I/O



NI (Nasdaq: NATI), the provider of solutions that enable engineers and scientists to solve the world's greatest engineering challenges, today announced a compact solution for high-speed vision applications. The [NI CVS-1459RT](#) is a small, rugged vision system with a quad-core Intel Atom processor and two dedicated USB 3.0 ports for USB3 Vision cameras.

"The NI Compact Vision System is my go-to solution for vision applications where reliability and uptime are key," said Robert Eastlund, vice president of sales for Graftek Imaging Inc. "Now I can leverage the easy connectivity and high throughput of USB3 while taking advantage of new features for high-performance processing and HMI integration. The NI CVS-1459RT enables high-resolution, high-speed industrial vision solutions."

The NI CVS-1459RT is programmed with either [LabVIEW](#) system design software or [Vision Builder for Automated Inspection \(AI\)](#). Engineers have the option of using [LabVIEW FPGA](#) to further customize the FPGA-enabled I/O and tightly synchronize vision inspection results with other parts of industrial systems, such as encoders and proximity sensors.

The NI CVS-1459RT is based on the [LabVIEW reconfigurable I/O \(RIO\) architecture](#), an integral part of the NI graphical system design platform. A modern approach to designing, prototyping and deploying embedded monitoring and



control systems, graphical system design combines the open LabVIEW programming environment with commercial off-the-shelf hardware to dramatically simplify development so engineers can combine powerful vision tools, I/O, industrial communication, data logging and human machine interfaces (HMI) into a single environment.

Key Benefits

- The *rugged form factor* is ideal for industrial applications up to 55 °C
- *Synchronization with automation devices* for camera and lighting triggering via onboard industrial I/O
- *High-bandwidth camera interface* with dual USB 3.0 ports for compatibility with the latest low-cost USB3 Vision cameras; ability to use ports with peripherals such as external storage for logging data
- *Processing power* with quad-core Intel Atom processor and 64-bit NI Linux Real-Time OS
- *Board-level versions* available for OEM applications

For more information on the NI CVS-1459RT, visit ni.com/vision/systems/cvs.

About National Instruments

Since 1976, NI (ni.com) has made it possible for engineers and scientists to solve the world's greatest engineering challenges with powerful, flexible technology systems that accelerate productivity and drive rapid innovation. Customers from a wide variety of industries – from healthcare to automotive and from consumer electronics to particle physics – use NI's integrated hardware and software platform to improve the world we live in.