PRESS RELEASE

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Industrial Vision Like You've Never Seen It Before:
NI Releases New Compact Vision System

The NI CVS-1457RT is packed with features such as dual Power over Ethernet
GigE Vision ports, deterministic Ethernet camera triggering and FPGA-enabled I/O

Press release, VIP Days, Oct. 23, 2013 – National Instruments (Nasdaq: NATI) today announced the **NI CVS-1457RT device**, a rugged, compact vision system powered by a 1.66 GHz Intel Atom processor and featuring two independent GigE Vision ports with Power over Ethernet (PoE) technology. These ports support deterministic camera triggering over the Ethernet bus, so users can power the camera, send triggers and acquire images all from a single Ethernet cable.

The NI CVS-1457RT also features FPGA-enabled I/O, which can be combined with the easy-to-use Vision RIO API to tightly synchronize vision inspection results with other parts of the system, such as encoders, ejectors and proximity sensors. The NI CVS-1457RT is programmed with either **NI LabVIEW system design software** or NI Vision Builder for Automated Inspection (AI).

The NI CVS-1457RT is a part of 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 interface into a single environment.

"The CVS-1457RT is a giant step forward for NI compact vision systems," said Jamie Smith, director of product marketing for embedded systems at National Instruments. "I don't think there's a better vision system out there for engineers and scientists involved in machine building, automated inspection, manufacturing or quality assurance."

Key benefits:

- **Form Factor:** Small, rugged and fanless, the NI CVS-1457RT is ideal for industrial applications.
- **PoE Technology:** The NI CVS-1457RT reduces cabling complexity and is compatible with the latest low-cost PoE cameras on the market and non-PoE GigE cameras.
- **I/O and Synchronization:** Onboard I/O includes eight isolated digital inputs, eight isolated digital outputs, two transistor-transistor logic I/O, a quadrature encoder, a VGA port, two USB ports, a serial port and a LAN port.
- **Programmable With LabVIEW:** Engineers can enjoy the productivity benefits of the LabVIEW RIO architecture and easily integrate the NI CVS-1457RT into existing toolchains.

To learn more about NI compact vision systems, visit **www.ni.com/vision/cvs**.

About National Instruments

Since 1976, National Instruments (**www.ni.com**) has equipped engineers and scientists with tools that accelerate productivity, innovation and discovery. NI's graphical system design approach provides an integrated software and hardware platform, speeding the development of any system needing measurement and control. NI ensures customer success with an ecosystem of services, support and more than 700 Alliance Partners worldwide. The company's long-term vision and focus on improving society through its technology also enables the success of its employees, suppliers and shareholders.

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