

PRESS RELEASE

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For more information, contact

Japan Industrial Imaging Association info@jiiia.org

www.CoaxPress.com info@coaxpress.com

CoaxPress Standard Gains Endorsement from the AIA and EMVA to Achieve Global Standardization Status

G3-supported interface standard readies for compliance testing;

Products on display at Automate 2011, Chicago

Tokyo, Japan - March 30, 2011 - The Japan Industrial Imaging Association (JIIA), host of the CoaxPress high speed digital interface standard for imaging applications, today announced that following the completion of the three month appeal period, the [Automated Imaging Association \(AIA\)](#) and the [European Machine Vision Association \(EMVA\)](#), have given their support for CoaxPress to now become a world standard under the G3 Agreement.

The completion of the three month appeal period coincided with Automate 2011 in Chicago (March 21-24), where a number of new CoaxPress products were launched and demonstrated – cameras, frame grabbers and related products.

JIIA will shortly be announcing plans for compliance testing, including the first CoaxPress “PlugFest” event anticipated to be held at the Image Sensing Show 2011 in Yokohama, Japan (June 8-10). This compliance program will also manage permissions to use the CoaxPress name and logo.

The support from the AIA and EMVA follows the successful ratification of the standard, reference JIIA NIF-001-2010 - CoaxPress Standard - enacted on Dec. 6, 2010 (available for download at www.jiiia.org). The specification has completed the three-

month international appeal process, during which interested parties could comment on a wide range of technical and legal areas. With no major issues introduced, the AIA and EMVA both provided their support to the standard under the framework of the G3 Agreement.

“The support of the AIA and EMVA is a key milestone in ensuring CoaXPress is truly a global standard that meets the needs of system developers and their customers worldwide. We are pleased that the standardization process has worked as intended and we can now accelerate the development of exciting new products capable of leveraging the potential of this technology,” said Tadashi Miyazaki, chair of JIIA CoaXPress Workgroup.

Background on CoaXPress

CoaXPress was originally developed by [Adimec](#), [Active Silicon](#), and [Components Express](#) using chip technology from [EqcoLogic](#). First products were demonstrated in Stuttgart, Germany at "Vision 2009" (3-5 November 2009). These included cameras from Adimec, frame grabbers from Active Silicon and cables from Components Express. The products and technology were well received and the [CoaXPress Consortium](#) won the "Vision Award 2009" for innovative new technology. These products used an early version of the CoaXPress protocol referred to as "CoaXPress-TD" – for Technology Demonstrator.

CoaXPress is a digital interface specification that allows the transmission of high speed data from a device, for example a camera, to a host such as a frame grabber in a PC, at a high speed of up to 6.25Gbps over a single coax cable. The device need not be a single camera – it could, for example, be an interface device that concatenates data from several cameras – since CoaXPress has the ability to carry many channels of image data and meta-data. For communication from host to device, there is a 20Mbps “uplink” that allows for control and configuration data. For even higher speeds, links may be concatenated to provide multiples of the single coax bandwidth. Finally there is also power provided over the cable at 24V, up to 13W per cable.

In addition to the simplicity and clear benefits of using coax, CoaXPress works over relatively long cable lengths, depending on the precise cable type – up to 40m at 6.25Gbps and much further at lower speeds.

One of the great benefits of CoaXPress is the ability to use rotary joints and slip-rings. These are typically used in defence, robotic, surveillance and broadcast applications where continuous panning can be a requirement. The availability of low cost RF (radio frequency) rotary joints opens up many options for high resolution and multiple image/data channels in continuous panning applications. The significant interest in this from markets outside machine vision led to the formation of an “Adopters Group” whereby organisations for which machine vision is not a significant part of their business may gain access to the CoaXPress specification.

For more information on CoaXPress, please email info@jiaa.org or visit <http://www.coaxpress.com/>. A downloadable version of the JIIA NIF-001-2010 CoaXPress Standard Dec. 6, 2010 First Edition can be obtained from the JIIA website at <http://www.JIIA.org>.

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