

Adimec introduces the first Machine Vision camera family with CoaXPress

Adimec is proud to announce the OPAL family of cameras with the revolutionary CoaXPress interface – the world's first series of machine vision cameras to use this interface.

The OPAL families of CCD cameras are based on the latest Kodak KAI sensors which allow greater spatial resolution at higher speeds. The state-of-the-art sensor technology combined with Adimec's advanced proprietary electronics provides excellent linearity over the full dynamic range through optimized embedded video processing.

At Vision 2009 in Stuttgart, the OPAL-4000 (4 Mpixel) and OPAL-8000 (8 Mpixel) are launched. These cameras allow greater throughput and/or accuracy without compromising in quality of testing. With these recent additions, the OPAL family now exists with resolutions from 1 to 8 Mpixels. By using the same identical electrical and mechanical interface, cameras may easily be upgraded whilst also having the ability via customized firmware to provide a tailored fit for user applications.

CoaXPress (CXP) is a new digital interface standard capable of sending video, control, communication, triggering and power at high speeds over a single standard coax cable. With CoaXPress, a camera can be connected to the host system **using just one standard coax cable**. Unlike most high performance interface solutions like Camera Link which use inflexible multi-core cables up to only 10 meters in length, CoaXPress enables lengths up to and over 100 meters with standard and high flex coax cable. In addition, data rates go far beyond Camera Link (Full). CoaXPress is also designed for 'plug and play' interface solutions in current and future applications.

The CoaXPress technology was originally developed by Adimec and EqcoLogic. For a successful world-wide acceptance and availability, the originators formed the CoaXPress Consortium whose goal is to standardize this new interface. Currently the consortium exists in the following companies:

- Active Silicon – Frame Grabbers
- Adimec - Cameras
- Component Express - Cables
- EqcoLogic - Chipsets
- AVAL DATA - Frame Grabbers
- NED – Line Scan Cameras

OPAL cameras with the CoaXPress interface can be easily integrated in several ways:

1. Combined with a CoaXPress frame grabbers – this allows the full benefits of CoaXPress combined with a robust and cost effective solution.
2. Combined with standard Camera Link frame grabbers and a small CoaXPress to Camera Link Converter – this allows the benefits of CoaXPress with existing Camera Link frame grabbers up to the maximum speed supported by Camera Link.

About Adimec

Adimec (www.adimec.com) has specialized in development and manufacturing of high-performance cameras and partnering with major OEMs around the world since 1992. The company has the distinction of serving industry leading companies in three application areas; machine vision, medical, and defense imaging. Adimec's unique experience facilitates the creation of industry-leading cameras that deliver a performance advantage to high end systems.