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IMAGING SUPPORT

Alta-AN

Four analog camera support on the PCI Express bus; take advantage of the affordability of analog with quality and performance of a BitFlow frame grabber.



The Alta Analog Frame Grabber

The Alta-AN is an affordable, versatile analog product family for Semiconductor and Industrial Vision OEMs. This family can acquire from almost any analog cameras on the market, from high speed asynchronous-reset monochrome cameras to super high resolution color HDTV cameras. The Alta frame grabbers are high-quality, flexible, PCI Express bus imaging products, well supported by an easy-to-use SDK, and drivers for most popular software imaging packages.

There are three main models in the Alta family: Alta-AN1, Alta-AN2 and Alta-AN4. The Alta-AN1 has one Virtual Frame Grabber (VFG) and can support one analog camera of any type. The Alta-AN2 has two VFGs and support two cameras, and the Alta-AN4 has four VFGs and support four cameras. Each VFG is a completely independent frame grabber. This means that each VFG can be configured for a different camera, different triggering mode, different destination buffer and can be in a different acquisition state than the other VFGs. But most importantly, all of the VFGs on one board can acquire simultaneously, at the cameras full frame rate and resolution. Each Alta model is a half size x4 PCI Express board (supporting total data rate up to 1.0 GB/S)

Features

- x4 PCI Express "short" card
- Super high quality discrete Analog Front End
- Three A-to-Ds per VFG (maximum clock rate: 100 MHz)
- Per channel programmable Gain/offset
- Supports single tap and dual tap monochrome cameras
- Supports RGB cameras (24 bits/pixel)
- Supports component YPbPr cameras (YUV 4:4:4)
- Supports asynchronous reset cameras
- Supports partial scan cameras (high frame rates)
- Multiplex between two one-tap or two two-tap cameras
- Programmable Region of Interest (ROI) via sub-windowing acquisition
- External hardware or software trigger
- Acquire at any frame rate
- Supports cameras up to 16K x 16K
- Supports interlaced and progressive scan cameras
- HD/VD/Composite sync signals in/out
- Supports WEN input signal
- Strobe output (programmable timing)
- Provides power to camera (12 V @ 0.5 A)
- Flowthru technology, no on-board frame buffers, zero latency data access
- Efficient interrupt driven architecture, no software polling required
- RoHS compliant

Frame Grabbers

Machine Vision Software Support

Applications Development Software

BitFlow™

300 Wildwood Ave. Woburn, MA 01801 USA
tel 1-781-932-2900 | fax 1-781-933-9965
www.bitflow.com

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