

Machine Vision Products

Overview

PC-based machine vision systems are becoming more and more popular due to many factors, including fast Pentium processors, high-speed PCI bus and more robust operating systems. Today's machine vision applications offer higher productivity, flexibility, reliability and capable to perform more complicated inspection tasks.

In order to provide a solution for machine vision, ADLINK has designed a hardware solution call the 'Angelo'. The Angelo provides the best performance to cost ratio for standard video input (PAL/NTSC/CCIR/EIA) applications and by combining hardware and software, from EureSys, and camera solutions from BASLER and Hitachi, a more competitive vision package solutions is available from ADLINK.

There are four different series of frame grabber cards available at ADLINK. The Angelo series provides 4 channels of real-time capture and includes PMC, CompactPCI, and PCI bus models. The PicoLo provides four different model types for multiplexing image acquisition. The Domino series supports analog industrial cameras with progressive area scanning and the GrabLink series support digital Camera Link standard line-scan / area-scan / color / monochrome cameras image acquisition.



Frame Grabber Selection Guide

Brand	ADLINK							EureSys						
Family	Angelo			PicoLo				Domino			GrabLink			
Model Name	cRTV-24	cRTV-44	RTV-24	PicoLo	PicoLo Pro2	PicoLo Pro3	PicoLo Tetra	Domino Iota	Domino Alpha2	Domino Gamma	GrabLink Value	GrabLink Expert		
Type	Analog							Digital						
Standard	PAL / NTSC / CCIR / EIA							CCIR/EIA/ Non-standard	CCIR / EIA / RGB / Non-standard		Camera link			
Resolution	Up to 768 x 576							Up to 1300 x 1030			Up to 4096 x 4096			
Interface	64-bit, 66MHz, 3U cPCI	64-bit, 66MHz, 6U cPCI	32-bit, 33MHz/66MHz PCI Bus	32-bit, 33MHz PCI Bus			64-bit, 66MHz PCI Bus	32-bit, 33MHz PCI Bus			32-bit, 33MHz PCI Bus	64-bit, 66MHz PCI Bus		
Max Video Input	4	4	4-8-12-16	3	4	4-8-12-16	4-8-12-16	1	2-4	3	1	2		
Max Frame Rate	120fps	120fps	120fps	30fps	30fps	30fps	240fps(*)	12 - 100fps (depend on camera type)			Up to 75fps (mega-pixel)			
BNC Connector	4	4	4	1	4	4	4	No						
Area Scan	Yes													
Line Scan	No							Yes						
Monochrome	Yes													
Color	Yes							No		Yes				
Interlaced Scan	Yes							No						
Progressive Scan	No							Yes						
Camera Tap	Single							Single, Dual		Single, Dual, RGB		Single, Dual, RGB		
Pixel Resolution	8-bit										10-bit		Up to 24-bit	
Sampling Rate	Up to 66MHz			32MHz			Up to 66MHz	32MHz		40MHz		Up to 66-bit		
On Board memory	No							8MHz			16MHz		8MB 16MB	
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*240fps should be base on 64-bit, 66MHz PCI bus and over 8 channels video input; when operating in 32-bit, 33MHz PCI bus than only up to 120fps.

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PXI/ CompactPCI Platforms

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PXI-Based Instruments

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PXI/ CompactPCI Modules

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PCI DAQ Cards

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PCI DIO Cards

7
PCI/ 104-Plus Products

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ISA DAS/ DIO Cards

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Wiring Termination Boards

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Motion Control Cards

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Machine Vision Products

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Remote I/O Modules