

# Machine Vision Solutions

## Overview

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

In order to provide a solution for machine vision, ADLINK has combined advanced hardware and software from Euresys. The Euresys frame grabber cards operate on the high speed PCI bus with outstanding software including Multicam driver and eVision package, and are ideal for machine vision applications that require high bus bandwidth and fast image processing.

There are two series of frame grabber cards. PicoLo provides 3 analog video inputs (PAL/NTSC/CCIR/RS170) and real time video capture with PCI bus mastering. On the other hand, Domino not only possesses the features of PicoLo but also provides 4 analog video inputs. Moreover, Domino series supports industrial cameras with progressive scanning, asynchronous reset and asynchronous shutter functions, and provides real time image transfer to PC memory using PCI bus mastering.



## Frame Grabber Selection Guide

Group	PicoLo Family			GrabLink Family
Model	PICOLO	PICOLO Pro2	PICOLO Pro3	GrabLink Value
Type	Analog			Digital
Standard	PAL/NTSC/CCIR/EIA			Camera Link
Resolution	768 x 576			Up to 4096 x 4096
Max Video Input	3	4	4-8-12-16	1
BNC Connector	1	4	4-8-12-16	-
Area Scan	Y	Y	Y	Y
Line Scan	-	-	-	Y
Monochrome	Y	Y	Y	Y
Color	Y	Y	Y	Y
Interlaced Scan	Y	Y	Y	Y
Progressive Scan	-	-	-	Y
Camera Tap	Single			Single, Dual, RGB
Pixel Resolution	-	-	-	Up to 24bit
Sampling Rate	13.5MHz			66MHz
On Board memory	-	-	-	16MB
Page No.	11-2/3	11-2/3	11-2/3	11-4

## CCD Camera Selection Guide

Brand	HITACHI	
Model No.	KP-F3	KP-F3W
Type	Analog	
Standard	EIA progressive scanning system	
CCD Device	1/3" Interline CCD of progressive scanning system	
Resolution	647(H) x 485 (V) pixels	
Max. Frame Rate	30fps	60fps
Dimensions	29 (W) x 29 (H) x 62(D) mm	
Weight	100g approx.	
Page No.	11-6	