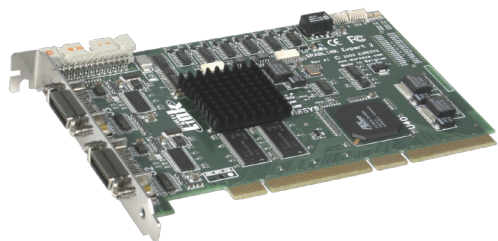


Grablink Expert 2

2-CH PCI Camera Link® Frame Grabber



Features

- 64-bit, 66 MHz PCI bus
- Supports line- or area-scan cameras
- Camera Link® Base/Medium configurations: 24-bit/48-bit @ up to 60 MHz
- Asynchronous reset, exposure control and I/O lines (trigger & strobe)
- 16 MB frame buffer
- Camera Link® serial line configurable as an additional PC COM port

Software Support

- EasyMultiCam is the unique driver which serves the Pico, Domino, and Grablink series frame grabbers.
- The EasyMultiCam driver runs under Microsoft Windows 2000®, XP®, Server 2003®, Vista®, and Linux Kernels 2.6.18 and 2.6.24

Ordering Information

- **Grablink Expert 2**
2-CH PCI Camera Link® frame grabber

Accessories

Cabling

- **Camera Link Cable**
5 M, robot type

Introduction

General

The Grablink Expert 2 is a high-performance 64-bit, 66 MHz PCI bus board capable of acquiring images in 2-Base or one Medium configuration. The Grablink Expert 2 is a high-speed PCI frame grabbers for line- or area-scan digital Camera Links®.

State-of-the-art cameras are easily connected with off-the-shelf Camera Link® compliant cables. The Grablink Expert 2 is ideal for industrial applications such as inspection of high-speed moving objects, web inspection or high-resolution acquisition.

Configuration Supports

The Grablink Expert 2 is a Camera Link® compatible frame grabber fitted with two Camera Link connectors. It's capable of acquiring images simultaneously or independently from two line-scan or area-scan digital cameras in a dual Base configuration. The Grablink Expert 2 also supports one camera in a Medium configuration. It supports various types of cameras:

Number of camera	Mono. single-tap	Mono. 2-tap	RGB 3-tap	Mono. 4-tap	Mono. 8-tap
Base	Two 8-16 bits	Two 8-12 bits	Two 8 bits		
Extend Base *				Two 8-12 bits	
Medium			One 10-12 bits	One 8-12 bits	
Extend Medium *					One 8-12 bits

* Multiplex tap. Preliminary feature

Line-scan Systems

- ◆ Camera Modes: The EuroCard Grablink series interfaces to state-of-the-art Camera Link® line-scan cameras with line-rate and exposure control. Free running cameras are supported as well.
- ◆ Continuous Web Scanning: The "web mode" allows inspection of a continuously moving surface without losing any lines.
- ◆ Successive Object Scanning: In "page mode", Grablink acquires a set of consecutive lines constituting a 2D image. The acquisition starts when the object enters the cameras field of view, as signaled by an external trigger.
- ◆ Motion Encoder: When the observed web or object moves at a variable speed, the frame grabber imposes a camera scanning rate derived from a motion encoder. This guarantees a fixed pixel aspect ratio. Perfect square pixels are achievable. A built-in rate converter can define any ratio between the camera scanning rate and the encoder pulse rate with a 1/1000 resolution. Thus, an off-the-shelf encoder can be used to serve several applications. The exposure control feature guarantees a constant sensitivity despite the speed variation.

Serial Control of Cameras

The Grablink Expert 2 supports two Camera Link pseudo RS-232 serial lines. The application software can use the Camera Links® API functions to control the camera. Alternatively, the serial lines can be configured as additional PC COM ports ensuring interoperability with existing camera control software.

I/O Board

The Grablink Expert 2 is delivered with an auxiliary I/O board implementing the trigger and strobe facilities. The bracket is fitted with two connectors. On the female DB9 connector, system components (such as a motion encoder) benefit from isolated I/O lines and power supply. TTL trigger and strobe lines are available on the female DB25 together with 16 fully programmable general-purpose I/O lines.