Grablink Value

Affordable Image Acquisition from Digital Camera Link Camera

RGB Camera　Greyscale Camera　Color Camera　CAMERA Link　Digital

Features

- **Support of one line or area-scan Camera Link camera in base configuration**
  - **• single-tap (8 to 16 bits)**
  - **• dual-tap (8 to 12 bits)**
  - **• RGB (3 x 8 bits)**
- **Acquisition : up to 24 bits @ maximum 66MHz**
- **One DB9 connector for trigger and strobe lines**
- **16-MByte frame buffer**
- **Libraries, ActiveX controls and DLLs included**

Applications

- **Quality control**
- **Semi conductor inspection**
- **On-the-fly image acquisition**
- **High frame rate image acquisition**

Software Support

DLLs and ActiveX controls for windows NT/95/98/ME/2000

Ordering Information

Grablink Value	Camera Link digital industrial image grabbers card.

Introduction

General

The EureCard Grablink Value is an affordable PCI Camera Link frame grabber for **cost-effective** industrial applications. Following the **base configuration** of the standard, Grablink Value acquires images from one Camera Link compliant camera, single-tap (8 to 16 bits), dual-tap (8 to12 bits) or RGB (3 x 8 bits).

Featured for industrial applications such as inspection of high-speed moving objects, web inspection or high-resolution acquisition, Grablink Value provides a perfect control of line-scan and area-scan cameras, thanks to its system connector. Grablink comes with the MultiCam driver, which drastically simplifies its integration into your machine vision application.

Specifications

Acquisition
- Up to 24 bits @ maximum 66MHz

PCI Interface
- PCI rev 2.2 compliant interface
- Support of DMA and bus mastering

Camera Support
- Typical configurations supported
  - ▸ One 8~16 bit monochrome Single-Top Camera
  - ▸ One 8~12 bit monochrome Dual-Top Camera
  - ▸ One RGB triple 8bit Camera
- Support of high-resolution cameras, typically up to 4096 x 4096 pixels
- Area Scan and Line Scan Camera Supported

Camera Control
The **EureCard Grablink** Value is fiitted with a **DB9 connector**. This system connector allows to control a line-scan or an area-scan camera. The two lines A1 and A2 are optically isolated. TRG is an input that can be used as a trigger, or as a general purpose input. STR is an output that can be used as a strobe control, or as a general purpose output.

	Line-scan camers	Area-sacn camers
A1	Trigger for camera line scanning From motion encoder	Frame trigger for camera
A2	Trigger for camera page operation From object position detector	Light strobe output for illumination
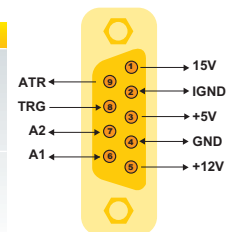
Female System Connector DB9

▸ Grablink includes **a programmable "rate converter"**. The encoder signal is received through the System connector, and digitally filtered. The rate converter allows you to accommodate the frequency of the encoder pulses. The line acquisition rate may be programmed either higher or lower than the encoder pulse rate, thus allowing you to keep the same encoder for several applications and always get a **perfect square-pixel image**.

▸ The **"Scan Mode"** of Grablink allows to use line-scan cameras in **"Page Mode"** or **"Web Mode"**. In "Page Mode", the page trigger event triggers the acquisition of a given number of lines. The system thus behaves as a 2D acquisition system. The page trigger may be internal (software command) or external (Frame Trigger input). There is a programmable delay between the page trigger event and the actual start of the page. In **"Web Mode"**, the system continuously acquires and transfers lines from the camera, without ever dropping a line.

▸ Multi-tap camera byte-reordering and tap reversal supported

Frame Buffer
- 16 Mbyte SDRAM frame buffer