

Digital Imaging

Full Spectrum of Image Acquisition Products
for Industrial Automation, Medical, and Military



PCI
EXPRESS®

- Medical and Scientific Imaging
- Industrial Automation



ADLINK
TECHNOLOGY INC.

S101 v.2
www.adlinktech.com

Introduction

Imaging systems are now widely used in a variety of applications. For example, in hospitals, imaging systems are essential to doctors for proper diagnosis. MRI, computer tomography, and ophthalmologic examination and surgery devices are all good examples of digital imaging in the medical industry. Such imaging systems are also widely used in industrial automation, military, and research applications. A typical Imaging system includes optics, cameras, a frame grabber card, and the computer system.

What Digital Imaging Products Does ADLINK Offer?

> PCI Express Frame Grabbers

ADLINK provides a series of PCI Express® (PCIe) frame grabbers for imaging systems. The PCIe bus provides high bandwidth and robust point-to-point interconnects, as well as complete software compatibility with the existing base of operating systems, PCI drivers, and software. The PCIe bus also provides a dedicated link for image data transmission. ADLINK provides several types of PCIe frame grabbers, including:



GIE62+

FIW64

CPL64

HDV62

PoE (Power over Ethernet)



GIE62+

- Long Cable Length: Gigabit Ethernet cables up to 100 M
- Low Cabling Cost: RJ-45 Cat-5e cables provide a competitive price advantage for vision applications using power over cable, resulting in reduced wiring

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PoCL (Power over Camera Link®)



CPL64

- Noise Reduction: The minimal low voltage differential swing (LVDS) signal of the Camera Link® specification increases image throughput between the frame grabber, cable, and camera
- Support for Line Scan Cameras: Camera Link® offers absolute camera control, serial communication, and data streaming methods ideal for line scan applications. Most line scan cameras available today already support power over cable for reduced wiring

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IEEE 1394



FIW64/FIW62

- Plug-and-play operation and easy maintenance
- Power over cable for reduced wiring

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HDTV



HDV62

- HDTV standards include SMPTE 296M and SMPTE 274M, which are defined by the Society of Motion Picture and Television Engineers (SMPTE)
- Image Quality: HDTV improves image quality by providing up to five times higher resolution and twice the linear resolution compared to NTSC/PAL video
- Wide Aspect Ratio: 16:9 aspect ratio is comfortable for the human eye

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Analog

PCIe-RTV24/PCI-RTV24

- Real-time Signals: No network latency or protocol overhead
- Reduced CPU Workload: The frame grabbers implement direct memory access (DMA) solutions that rearrange data for efficiency. The transmission of image data from the frame grabber to the memory of the host PC is executed without utilizing any CPU resources of the host system

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> Compact Vision System

ADLINK provides compact vision systems which are a complete embedded system for image acquisition, processing, archive, and display. They are ideal for high computing power, and multi-camera imaging application, such as 3D vision and robotic guidance.

Featuring rich I/O support, including RS-232/485, USB, isolation digital I/Os, and storage, ADLINK's compact vision system is a ready-to-use vision system.

A system monitoring feature, including temperature and voltage, is combined with a watchdog timer to make ADLINK's compact vision system robust, and reliable in mission critical applications.



EOS-1000

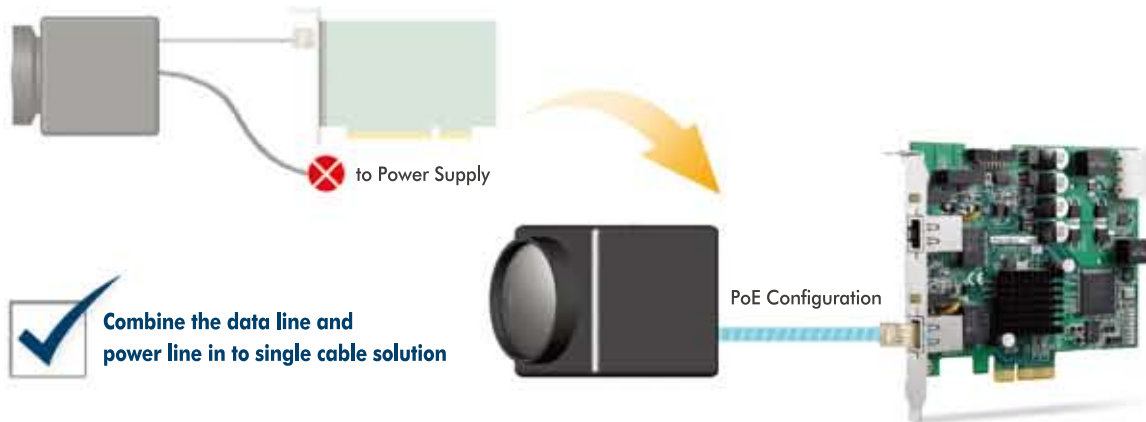
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> What Makes ADLINK Frame Grabbers Different?

- Compatible with most popular cameras and software
- Rich I/O and trigger support
- Carefully selected embedded components ensure long term availability
- Full Product line support, including PoE, Analog, Camera Link®, and HDTV

> Power over Cable Introduction

Most of the industrial cameras require two cables—one for image data transmission and the other for power. Designing, installing and maintaining wiring has always been the major cost component in vision systems, and two cables mean double the installing and maintaining wiring cost, and two times the opportunity for failure.



Delivering power over the data or communication cable is a common means for meeting industry demand and is a very useful feature in the industrial vision market. With a single cable solution, industrial vision systems can provide:

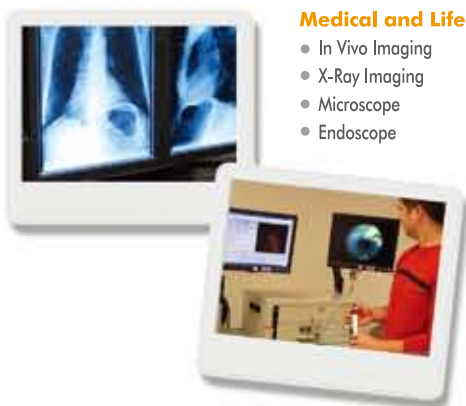
- Simplified installation
- Lower maintenance
- Reduced total cost of ownership

ADLINK provides a full spectrum of frame grabbers supporting power over cable technologies, including Power over Camera Link®, IEEE 1394b (FireWire 800), and Power over Ethernet.

> Applications

Medical and Life Sciences

- In Vivo Imaging
- X-Ray Imaging
- Microscope
- Endoscope



Industrial Automation

- AOI machinery
- Pick and place machinery
- Bonding machinery



EOS-I 000

4-CH PoE Compact Vision System with Intel® Penryn Processor



Introduction

ADLINK's EOS-I000 is a rugged and compact vision system that features an Intel® Penryn processor and four independent PoE (Power over Ethernet) ports. This system is ideal for high computing power and multi-camera imaging applications such as 3D vision robotic guidance.

By selecting long-life embedded components and incorporating system monitoring components to watch CPU temperature, fan speed, and system responsiveness, the EOS-I000 provides a very robust and reliable platform for mission critical applications.

Features

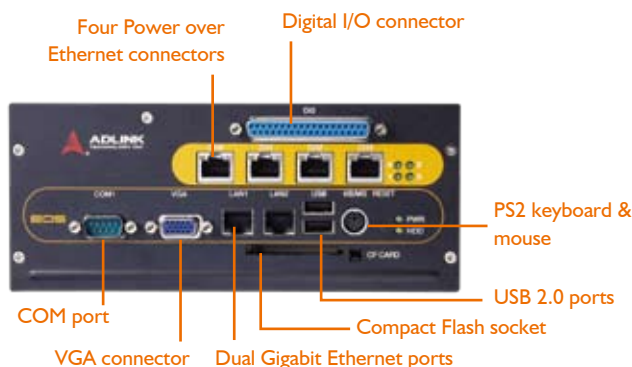
- Compact and rugged system design
- Embedded Intel® Penryn CPU
- Multi-camera solution: up to four Gigabit Ethernet cameras
- PoE, IEEE 802.3af Compliant, Powered Device (PD) auto detection
- Rich I/O support: RS-232/485, USB, and isolated digital I/Os
- Dual storage support: HDD and CompactFlash cards
- Hardware Monitoring: temperature, voltage, and watchdog timer

Applications

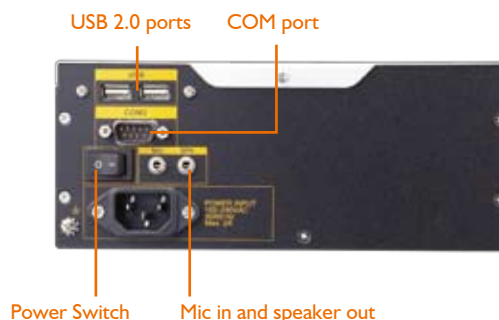
- Industrial Automation
- Robot Guidance
- Medical Imaging System

Software Support

- Windows® XP and XP Embedded



EOS-I000 Front View

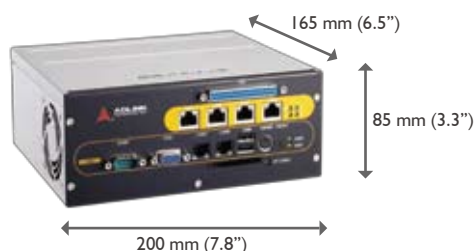


EOS-I000 Back View

Highlights

■ Compact and Rugged Design

The EOS-I000 is a compact-size 200 (W) x 165 (D) x 85 (H) mm (7.8" x 6.5" x 3.3") vision system. Designed for mission critical applications, the EOS-I000 underwent harsh vibration and shock testing during its design to ensure durability. While in operation, the EOS-I000 can tolerate vibrations of up to 5 G.



■ PoE Support

PoE (Power over Ethernet) technology allows power to be supplied through the Ethernet cable. Cable distances of up to 100 m can be used. This PoE solution can simplify system installation and lower the maintenance costs. The EOS-I000 also provides an auto detection function to ensure compatibility with both PoE, and conventional non-PoE devices.



■ Dual Data Storage

Most of the vision applications need two forms of data storage —while one is running the operation system and applications, the other is used to archive video, images, log files or the backup operation system. This system architecture of independent dual storage devices makes the EOS-1000 reliable and flexible.



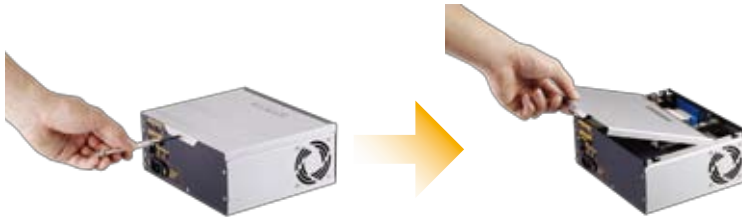
Compact Flash socket

HDD with SATA interface



■ Easy Maintenance

The EOS-1000 provides a user-friendly design for system installation. The upper cover can be easily opened by removing one screw. And its hot-swappable filter design also shortens the MTTR (Mean-Time-to-Repair) and increases the reliability for the system.



Open the top cover by removing only one screw



Hot swappable filter for easy replacement

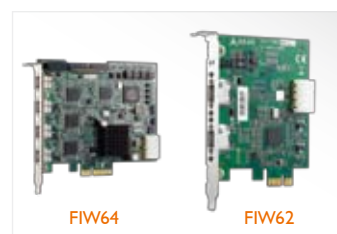
Specifications

■ CPU	Intel® Core™ 2 Duo P8400, 2.26 GHz
■ System Memory	Up to 4 GB DDR3
■ Camera Interface	4-CH Power Over Ethernet IEEE 802.3af Compliant, Max. power output 7 W per channel
■ Chipset	Intel® GM45 / ICH9 Chipset
■ VGA	Analog CRT support up to 1600 x 1200
■ USB	Four USB ports, USB 2.0 compliant
■ Audio (Option)	AC97, Mic In/Speaker Out
■ COM Ports	COM1/COM2: RS-232/RS-422/RS-485 (set via the BIOS)
■ Digital I/O (Option)	16-CH Isolated Digital Input and Output, 5.0 KV isolation protection
■ Keyboard/ Mouse	Combed PS/2 type mini-DIN connectors
■ Power Supply	DC: 10 to 30 V _{DC} , AT mode AC: 90 to 240 V _{AC} , AT mode
■ Operating Temp.	0°C to 55°C
■ Humidity	0% to 90%
■ Dimensions	200 (W) x 165 (D) x 85 (H) mm (7.8" x 6.5" x 3.3")
■ Power Consumption	50 W (with 2 GB DDRAM and 2 GB CompactFlash)
■ Storage	One CompactFlash Type I, One 2.5" SATA HDD (optional)
■ Random Vibration	Operating: 5 to 100 Hz, 0.00142 g ² /Hz; 100 to 500 Hz, -6 dB/Octave, 0.5 Grms, 3 axes, 30 minutes/axis
■ Safety Compliance	CE/FCC, RoHS

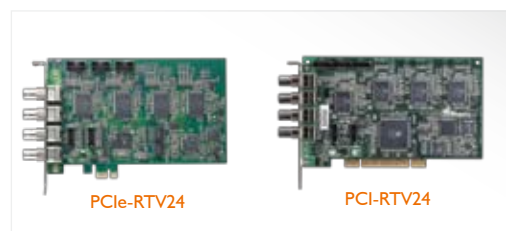
Ordering Information

■ **EOS-1000**
4-CH PoE Compact Vision System with Intel® Penryn Processor

Frame Grabber Selection Guide



Model Name	GIE62+	CPL64	FIW64 / FIW62
Standard	Power over Ethernet	PoCL (Power over Camera Link)	IEEE 1394b
Connector Interface	RJ45 x 2	MDR26	IEEE 1394b
Resolution (Pixels)	Depends on camera specification	Depends on camera specification	Depends on camera specification
Form Factor	PCIe x4	PCIe x4	PCIe x4 / PCIe x1
Max. Video Input	1	2	4 / 2
Max. Frame Rate	Depends on camera specification	Depends on camera specification	Depends on camera specification
TTL I/O	√	√	√ (FIW64)
Area Scan Camera	√	√	√
Line Scan Camera	√	√	-
Color Camera	√	√	√
Camera Tap	-	-	-
Pixel Depth	Depends on camera specification	8-bit, 10-bit	Depends on camera specification (FIW64) 8 to 10-bit (FIW62)
Page No.	6	7	8



Model Name	HDV62	PCIe-RTV24 / PCI-RTV24
Standard	HDTV	Color (PAL/NTSC), Monochrome (CCIR/EIA (RS-170))
Connector Interface	DVI	BNC x 4
Resolution (Pixels)	1920 x 1080p	640 x 480 (NTSC/RS170), 768 x 576 (PAL/CCIR)
Form Factor	PCIe x4	PCIe x1 / PCI
Max. Video Input	1	4 - 16*
Max. Frame Rate	60	120 fps
TTL I/O	√	√
Area Scan Camera	√	√
Line Scan Camera	-	-
Color Camera	√	√
Camera Tap	-	Single-tap (PCIe-RTV24)
Pixel Depth	8/10 bit per color	8-bit
Page No.	9	10

* RTV-E4 four channels extension board (optional)

GIE62+

2-CH Power over Ethernet Frame Grabber



Introduction

ADLINK's GIE62+ is a PCI Express® x4 lane, PoE (Power Over Ethernet) frame grabber which supports two independent Gigabit Ethernet ports for multiple Gigabit Ethernet Vision device connections with data transfer rates up to 1000 Mb/s, as found with most Gigabit Ethernet Vision cameras. The GIE62+ features a single cable solution through the combination of power and data lines, simplifying installation, lowering maintenance, and reducing total cost of ownership.

PoE Technology

The PoE (Power over Ethernet) technology in the GIE62+ provides automatic detection for stable, and reliable connection between PoE or non-PoE cameras and frame grabbers.

Benefits of PoE

- Simplified installation
- Lowered maintenance
- Reduced total cost of ownership

Features

- PCI Express® x4 compliant
- Supports two independent Gigabit Ethernet ports
- Supports PoE (Power over Ethernet), IEEE 802.3af compliant
- Supports jumbo frames (9 KByte)
- Supports Link aggregation
- Powered Device (PD) auto detection and classification
- Provides industrial screw lock connector

Applications

- Machine vision inspection systems
- Scientific research instrumentations
- Medical research instrumentations
- Intelligent transportation systems

Software Support

- Windows® Platform
 - Available for Windows® Vista (32-bit)/XP

Ordering Information

- **GIE62+**
2-CH Power over Ethernet Frame Grabber

Specifications

■ Form Factor	PCI Express® x4
■ Ethernet Port	Two fully-integrated Gigabit Ethernet Media Access Control (MAC) and physical layer (PHY) ports. Power over Ethernet, IEEE 802.3af Compliant, support class 0, 1, 2, 3, and 4, and provides up to 15.4 watts 9 kB jumbo frame support
■ Isolated Voltage	1000 V @ 60 seconds
■ Operating Environment	Temperature: 0 °C to +55 °C Humidity: 5% to 90% RHNC
■ Power Requirements	+12 V max @ 0.2 A, +3.3 V max @ 1.5 A
■ Dimensions	129.5 x 111.15 mm (W x L)

CPL64

2-CH PCI Express® PoCL Frame Grabber



Features

- PCI Express® x4 compliant
- Supports 2-CH Camera Link® Base configuration
- Acquisition pixel clock rates up to 85 MHz
- PoCL (Power over Camera Link®) safe power compliant with auto detection
- 128 MB of 200 MHz DDR SDRAM for acquisition
- 4 TTL Digital Input/Output, and 2 trigger Input
- Supports 64-bit memory addressing
- Two serial communication ports

Applications

- PCB/FPD/Wafer/Solar Cell surface inspections
- Medical research instrumentations

Software Support

- Windows® Platform
 - Available for Windows® Vista (64/32-bit)/XP
- CamCreator™
 - CamCreator assists developers in quickly evaluating initial tests and functions.

Ordering Information

- CPL64
2-CH PCI Express® x4 PoCL frame grabber

Accessories

Cabling

- PoCL Cable
5 M, power over Camera Link cable
- Camera Link Cable
5 M, robot type

Overview

CPL64 is a PoCL (Power over Camera Link®) frame grabber that is based on the PCI Express® x4 interface, and supports two-channel Camera Link “base” configurations, multi-tap area and line scan cameras. The CPL64 frame grabber strikes a perfect balance between performance and cost. It is capable of simultaneously image acquisition from two completely independent Camera Link base configuration cameras, and supports image transfers rates up to 512 MB/s.

PoCL Technology

The PoCL (Power over Camera Link®) standard allows the camera link cable to supply power to the camera through the Camera Link connector without losing backward compatibility with the previous Camera Link® standard, this solution is particularly suitable for a small camera.

Benefits of PoCL

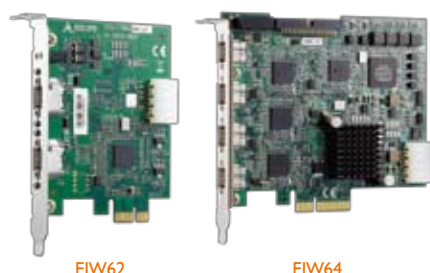
- Easy installation
- Reduce wiring (Single cable for digital I/F, and power)
- Reduce camera size

Specifications

■ Form Factor	PCI Express® x4 compliant
■ Video Input	Camera Link® LVDS differential signals Dual Base Configuration: Using two MDR26 pins connectors Maximum camera link data rate: 85 MHz Supports PoCL and standard Camera Link interface and auto detect
■ Camera Control	LVDS camera control: CC1 to CC4 control signal in two MDR26 pins connectors
■ External Signal Input	External RS422 level A, B, Z phase differential signal for encoder input 2 channels TTL level Line /Area trigger input 2 channels TTL level Line trigger start input 2 channels TTL level exposure output Line trigger bypass output (encoder mode only) 4 channels digital input; 4 channels digital output
■ Power over Camera Link® (PoCL)	Power line output per channel : DC +12 V max @ 1 A Over-current Protection function, auto detect non-PoCL cable or PoCL camera connected.
■ Operating Environment	Temperature: 0°C to +50°C Humidity: 5% to 90% RHNC
■ Storage Environment	Temperature: 0°C to +70°C Humidity: 0 to 95% RHNC
■ Power Requirements	+12 V max @ 0.5 A +3.3 V max @ 1.6 A
■ Dimensions	167.65 x 111.15 mm (W x L)

FIW64 / FIW62

4-CH/2-CH PCI Express® IEEE 1394b Frame Grabbers



Introduction

The FIW64 / FIW62 are IEEE 1394b (FireWire 800) interface cards designed for high speed computer-based machine vision applications. The FIW64 / FIW62 support up to four 1394b (FireWire 800) ports for multiple 1394b device connections with data transfer rates up to 3.2 Gb/s, as found with most IEEE 1394b cameras.

The FIW64 / FIW62 provide four/two direct-connect IEEE 1394b connectors with a screw-lock mechanism. These screw-lock connectors provide a reliable connection between FIW64 / FIW62 and up to four IEEE 1394b cameras.

A 4-pin ATX power connector on the FIW64 / FIW62 support IEEE 1394b cameras that draw power directly from the frame grabbers. Each port has a green LED on the front panel that will illuminate when the FIW64 / FIW62 are connected to a IEEE 1394b camera for convenient identification of channel connection status.

The FIW64 provides four isolated digital inputs and outputs to connect to external devices such as a position sensor. The FIW64 also includes four isolated programmable trigger output pulses to manage trigger events such as activating a strobe light.

Features

- Industrial screw lock connector
- Channel status LEDs
- Power supplied to the IEEE 1394b connectors

FIW64

- PCI Express® x4 compliant
- High-speed image transfer rates up to 3.2 Gbps
- Four isolated digital inputs/outputs
- Four isolated TTL level programmable trigger output pulses

FIW62

- PCI Express® x1 compliant
- High-speed image transfer rates up to 800 Mb/s

Applications

- Machine vision inspection systems
- Automatic optical inspection machineries
- Scientific research instrumentations
- Medical research instrumentations

Software Support

- Windows® Platform
 - Available for Windows® XP/Vista/Server 2008

Ordering Information

- **FIW64**
4-CH PCI Express® x4 IEEE 1394b interface card
- **FIW62**
2-CH PCI Express® x1 IEEE 1394b interface card

Accessories

Cabling

- **1394b Cable**
4.5 M IEEE 1394b 9-pin cable with screw-lock connector

Specifications

	FIW64	FIW62
Form Factor	PCI Express® x4 compliant	PCI Express® x1 compliant
IEEE 1394b Port	Fully support provisions of IEEE P1394b-2002 Fully compliant with provisions of IEEE std 1394-1995 for a high performance serial bus and IEEE std 1394a-2000	
Operating Environment	Temperature: 0°C to +55°C Humidity: 5% to 90%	
Storage Environment	Temperature: -20°C to +85°C Humidity: 0 to 95% RHNC	
Power Requirements	Four isolated digital inputs/outputs Four isolated trigger inputs/outputs	-
Digital and Trigger I/Os	+12 V max @ 0.2 A +3.3 V max @ 2.5 A	+3.3 V max @ 0.22 A Power provided to IEEE 1394 connection +12 V / per port, 1 A (over current protection)
Isolated Voltage	1000 V @ 60 seconds	-
Dimensions	129.5 x 111.15 mm (W x L)	78.6 x 111.15 mm (W x L)

HDV62

HDTV Frame Grabber



Overview

The HDV62 is a full high-definition frame grabber that is based on the PCI Express® x4 interface and acquires uncompressed image and video streams from both HD (High Definition) and SD (Standard Definition) video up to a 170 MHz DVI input, in addition to RGB and YPbPr component analog inputs.

ADLINK's HDV62 delivers the superior quality of high definition video to medical imaging, scientific imaging, and military applications. Equipped with an FPGA (Field Programmable Gate Array) and 512 MB memory buffer, the HDV62 provides the ability to stream image of a specified area to the host PC, and real-time hardware color space conversion to offload repetitive tasks from the host CPU.

Features

- Uncompressed 1920 x 1080p, 60 fps video streams
- Supports both digital, and component analog video inputs
- PCI Express® x4 interface
- Hardware color space conversion
- 512 MB of DDR2 SDRAM frame buffer
- Configurable EDID
- 4 TTL digital inputs/outputs and 1 trigger output

Applications

- Medical imaging
- Scientific imaging
- Military & defense
- Video surveillance

Software Support

- Windows® Platform
 - Windows® Vista/XP/7
 - Microsoft® DirectX
- ViewCreatorPro™
 - ViewCreatorPro assists developers in evaluating initial tests and functions.

Ordering Information

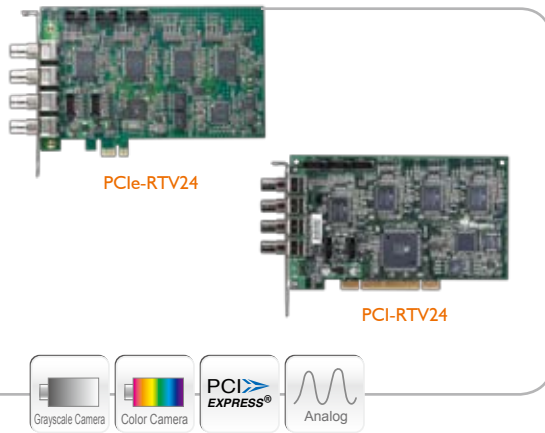
- **HDV6**
I-CH HDTV frame grabber

Specifications

■ Form Factor	PCI Express® x4 compliant
■ Video Input	Digital: DVI I.0, HDMI I.3 (non-HDCP and non-Audio) Analog: RGB, YPbPr
■ Video Input Format	HD: 720p @ 50 fps, 720p @ 60 fps 1080i @ 25 fps, 1080i @ 30 fps 1080p @ 25 fps, 1080p @ 30 fps, 1080p @ 50 fps, 1080p @ 60 fps SD: 720 x 576 @ 25 fps PAL 720 x 486 @ 30 fps NTSC
■ Pixel Output Format	RGB: 32-bit RGB 30-bit RGB 24-bit RGB YUV: 24-bit 4:4:4 YCbCr 20-bit 4:2:2 YCbCr 16-bit 4:2:2 YCbCr Monochrome: 8/10-bit Y
■ Frame Buffer	DDR2, 512 MB
■ Digital Input/Output	4 TTL input, 4 TTL output (input with interrupt)
■ Connector	DVI-I: DVI-D and RGB with sync input DSUB9 Female: YPbPr
■ Operating Environment	Temperature: 0 to 55°C Humidity: 5% to 90% RHNC
■ Storage Environment	Temperature: 0 to 70°C Humidity: 0 to 95% RHNC
■ Power Requirements	+12 V max 0.5 A, +3.3 V max 2 A
■ Dimensions	174.62 mm x 111.15 mm (W x L)

PCIe-RTV24 / PCI-RTV24

4-CH PCI Express® / PCI Real-time Video Capture Cards for Standard Cameras



Introduction

General

The PCIe-RTV24/PCI-RTV24 acquisition board are designed without compromise for machine vision and video surveillance applications. They are the ideal devices for PC-based multiple-channel vision application.

The PCIe-RTV24 PCI Express® x1 lane frame grabber can capture simultaneously four analog video streams in real time. It accepts standard composite colors (PAL, NTSC) or monochrome video formats (CCIR, EIA).

The supported resolution is programmable and includes square-pixel (640 x 480 or 768 x 576) and broadcast resolution. Before captured images are transferred to the PC's memory, images can be scaled down using available selectable ratios.

Arbitrary cropping to regions of interest is possible. The PCIe-RTV24 generates bitmaps in all popular color formats such as RGB, YUV, planar, or packed.

System integrators also benefit from a watchdog for fault-tolerant applications and easy-to-use standard connectors.

Image Acquisition

- ◆ **Frame Rate:** 30 full-frame images acquired per second for each channel.
- ◆ **Color Image:** Color video format is compatible with the following composite video input formats: NTSC-M, NTSC-Japan, PCL-B, PALD, PAL-G, PAL-H, PAL-I, PAM-M, PAL-N and SECAM
- ◆ **Monochrome Image:** The monochrome video acquisition is compatible with CCIR and EIA (RS-170).
- ◆ **Optional Scaling:** The acquire images or portions of images can be optionally scaled:
 - Acquisition of a programmable area of interest
 - Scaling of the image (down to 1:16)
 - Adjustment of hue (for NTSC signals), contrast (0 to 200%), brightness and saturation (0 to 200% for U and V signals)
 - Automatic chrominance gain control

RTV-E4 Extension Board (Optional)

- ◆ Expandable up to 16 channels
- ◆ 10-pin ribbon cable to onboard 10-pin header connector for channel extension. Each header adds 4 video input channels.
- ◆ Three 10-pin header connectors onboard.



I/O Lines

The PCIe-RTV24/PCI-RTV24 is fitted with TTL compatible I/O lines, supporting 4 inputs, 4 outputs and 4 soft trigger lines with protection against overloads and electrostatic discharges.

Every line maybe configured as an input or output or can be used to trigger an acquisition or report an alarm condition.

RTV-I4 Isolated GPIO Board (Optional)

- ◆ **General Purpose I/O Lines :**
 - All I/Os are TTL compatible and support 4 inputs, 4 outputs, and 4 soft trigger lines.
 - Two on-board 10-pin header connectors.
 - The I/O lines are pulled high internally and have the following characteristics:



Voltage	Min.	Max.
Input High Voltage (20 μ A)	2.0 V	5.25 V
Input Low Voltage (-0.2 μ A)	0.0 V	0.80 V
Output High Voltage (-1.0 mA)	5.0 V	--
Output Low Voltage (100 mA)	--	0.50 V

Watchdog

A hardware watchdog is available on the PCIe-RTV24/PCI-RTV24. The watchdog is able to monitor the PC's application operation and will automatically reset the PC after a programmable inactivity time-out. This ensures a reliable operation of remote systems.

Features

- PCI Express® x1 compliant (PCIe-RTV24) , up to 120 fps
- Four color video digitizers operating in parallel
- Color (PAL / NTSC), monochrome (CCIR / EIA) camera supported
- Up to 16 channels extension
- On-board TTL I/O lines
- Built-in watchdog timer
- User-friendly ViewCreator utility
- Software trigger supported

Applications

- PC-based surveillance systems
- Digital Video Recorder (DVR)
- Factory monitoring systems
- Machine vision inspection systems
- Scientific research instrumentations
- Medical research instrumentations

Software Support

- **Windows® Platform**
 - Available for Windows® Vista (64/32-bit)/XP/XPe
 - Available for Microsoft® DirectX®
 - Recommended programming environments: C#/.NET/VC++/VB/C++ Builder/Delphi
 - Sample programs included
- **LabVIEW® VIs**
Angelo-LVIEW
- **Linux Platform**
Fedora core 3, Kernel 2.6.22
- **ViewCreatorPro™**
ViewCreatorPro assists developers in evaluating initial tests and functions.



Ordering Information

- **PCIe-RTV24**
PCI Express® 4-CH real-time video capture card for standard cameras
- **PCI-RTV24**
4-CH real-time video capture card for standard cameras

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