Angelo PCI-MP4S

NEW

4 Channels MPEG4 Software Video Compression Development Kit

Greyscale Camera   Color Camera   Analog
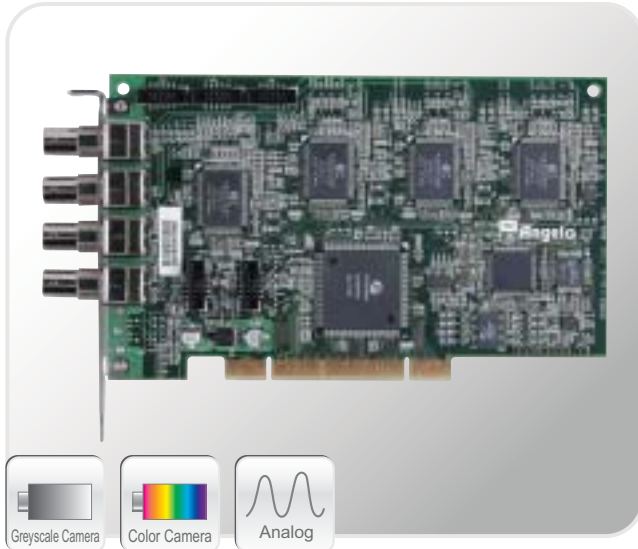
Features

- Advanced MPEG4 software video compression algorithm
- Encode real-time full color CIF images at 32kB/CH
- Motion detection & recording
- Real-time image transmission over TCP/CP
- Bit-rate adjustable
- Supports color (PAL/NTSC) and monochrome (CCIR/EIA)
- User friendly ViewCreator utility
- Up to 120fps on a 32-bit, 33MHz/66MHz PCI bus
- Optional channel expansion and isolation GPIO modules

Applications

- Remote Digital Video Surveillance
- Digital Video Recorder (DVR)
- Factory Monitoring System
- Traffic Monitoring System
- Machine Vision Inspection System

Software Support

WDM driver

The drivers support VC++/VB/C++ Builder/Delphi programming in Windows 98/NT/2000/XP/XPe platforms with DLLs.

ViewCreator

The ViewCreator utility assists developers in performing initial evaluation test on functions.

Ordering Information

PCI-MP4S	4-CH MPEG4 Software Video Compression Card

Introduction

General

The PCI-MP4S is a MPEG4 software video compression development kit that combines excellent real-time image acquisition and advanced MPEG4 software video compression algorithms for security and remote video surveillance applications. This 32-bit, 33MHz PCI bus frame grabber simultaneously captures four video analog streams in real time.

The PCI-MP4S accepts standard composite color (PAL, NTSC) or monochrome video formats (CCIR, EIA) camera inputs. Resolution is programmable (640 x 480 or 768 x 576) and scaled down before images are transferred to PC memory.

The MPEG4 software video compression function library provides high quality video encoding and decoding. Image quality and bit-rate are adjustable for more efficient data transmission via TCP/IP. It also has sensitive partial or whole image motion detection areas for smart video encoding or alarm signaling. Up to 4X image expansion technology for enhanced decoded image quality.

Each PCI-MP4S board has one hardware unique ID number. System integrators can design protections to lock their system product. System integrators will benefit from a watchdog timer for fault-tolerant applications and from easy-to-use standard connectors.

Image Acquisition

The PCI-MP4S provides the same image acquisition performance as the RTV-24. For detailed specifications, please refer the RTV-24 catalogue.

MPEG4 API

Video Encode/Decode

Bit-rate adjustable for video encode/decode quality control. Supports 4CIF (640x480), CIF (320x240), and QCIF (160x120) formats.

Save File

Saves video file to M4V or AVI formats. Users may play AVI file in Microsoft's Media Player after installing the XVID codec. It also supports saving images to BMP/JPEG formats.

Motion Detection

The detection area can be set to up to 4 areas in one frame or whole frame for motion detect actions. The motion detection occurrence is programmable to adjust sensitivity.

TCP/IP Data Transmission

Video data can be transferred via TCP/IP. Data transmission speeds can detect flow rates.

I/O Lines

TTL compatible I/O lines, supporting 4 inputs, 4outputs, and 4 soft trigger lines protect against overloads and electrostatic discharges.

Watchdog

The watchdog timer monitors the PC's application operations and will automatically restart the PC after a programmable inactivity time-out. This ensures reliable operation of remote systems.