Angelo RTV Series
4 Channels Real-time Video Frame Grabber

Features

- 4 Channels full-frame real-time acquisition from four video streams
- 32bits/64bits, 33MHz/66MHz **PCI, cPCI, PMC** bus series
- Applicable signal type : color - PAL / NTSC, monochrome - CCIR / EIA
- On-board TTL I/O lines
- Built-in watchdog timer
- Protection circuit for security issue
- User friendly ViewCreator utility
- Image acquisition speed up to **120**fps
- Software trigger supported

Introduction

General

The Angelo RTV series acquisition board is designed without compromise for security and video surveillance applications. It's the ideal device for PC based multiple-channel digital video recording.

This 32bits / 64bits, 33MHz / 66MHz in PCI, cPCI or PMC bus form 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 resolution is programmable including 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 are possible. The RTV series 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: Up to 120 frames per second.
Channel Extension: The RTV-24 maybe extended for up to 16 video input channels.
Color Image: Color video format is compatible with the following composite video input formats: NTSC-M, NTSC-Japan, PCL-B, PAL-D, 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 acquired images or portions of images can be optional scaled:

- Acquisition of a programmable area of interest
- Scaling of 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

I/O Lines

The RTV series are fitted with TTL compatible I/O lines protected against overloads and electrostatic discharges. Every line may be configured as an input or output. They can be used to trigger an acquisition or report alarm signals.

Watchdog

A hardware watchdog is available on the RTV-24. 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.

Applications

- PC Based Surveillance System
- Digital Video Recorder (DVR)
- Factory Monitoring System
- Machine Vision Inspection System
- Scientific Research Instrumentation
- Medical Research Instrumentation

Supported Software

WDM driver

The driver supports VC++/VB programming under Windows 98/2000/XP platforms with DLL.

ViewCreator

ViewCreator assists developers to evaluate initial tests and functions.

Ordering Information

RTV-24
PCI 4 Channels Real-time Video Frame Grabber

cRTV-24
3U cPCI 4 Channels Real-time Video Frame Grabber

cRTV-44
6U cPCI 4 Channels Real-time Video Frame Grabber

PMC-RTV-21
PMC 4 Channels Video Frame Grabber

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