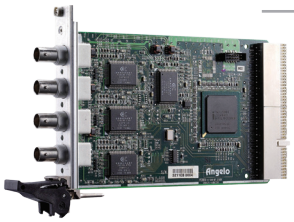
cRTV-24 / cRTV-44

3U/6U CompactPCI 4-CH Real-time Video Capture Boards



cRTV-24



cRTV-44



Features

- **Four color video digitizers operating in parallel**
- **Up to 120 fps in 64-bit, 66 MHz CompactPCI bus**
- **Color PAL/NTSC, monochrome CCIR/EIA camera support**
- **On-board TTL I/O lines**
- **User-friendly ViewCreator utility**
- **Channel status report LEDs**

Applications

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

Software Support

OS Information
- Windows® 8/7/XP
- Linux

Software Compatibility
- Microsoft® DirectX
- C#/.NET/VC++/VB/C++ Builder/Delphi
- Sample program included

Software Recommendations
- ADLINK ViewCreatorPro™

Ordering Information

cRTV-44
6U CompactPCI 4-CH real-time video capture board

cRTV-24
3U CompactPCI 4-CH real-time video capture board

Introduction

General

The cRTV series is a CompactPCI 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 64-bit, 66 MHz CompactPCI (including 32-bit and 33 MHz) 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 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: 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 acquired 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

Channel Status LED

The cRTV series provide channel status is monitored by four dedicated LEDs.

I/O Lines (cRTV-44)

The cRTV-44 is fitted with TTL compatible I/O Lines, supporting 4 inputs, 4 outputs lines with protection against overloads and electrostatic discharges.

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