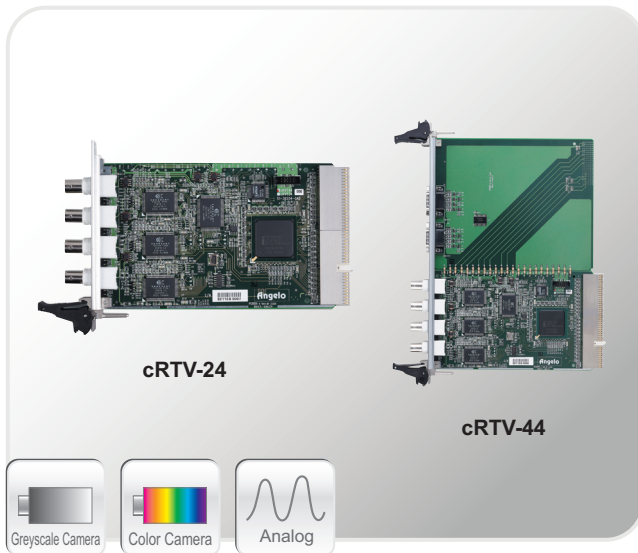


# cRTV-24/cRTV-44

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



### Features

- Four color video digitizers operating in parallel
- Up to 120fps in 64-bit, 66MHz 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 System
- Digital Video Recorder (DVR)
- Factory Monitoring System
- Machine Vision Inspection System
- Scientific Research Instrumentation
- Medical Research Instrumentation

### 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 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, 66MHz CompactPCI (including 32-bit and 33MHz) 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:** 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, 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 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.

### Software Support

#### WDM driver

The drivers support VC++/VB/C++ Builder/ Delphi programming under Windows XP/XPe platforms with DLL.

#### LabVIEW drivers

Angelo-LVIEW

#### Linux driver

Red Hat 7.3, kernel 2.4.18 above

#### ViewCreator

ViewCreator assists developers to evaluate initial tests and functions.

