



The pciGrabber-4x4 offers up to four fully independent input channels, each with its own video decoder.

In this way, he is the perfect card for all applications that need to flexibly manage multiple cameras - either for quality control of complex, three-dimensional functions or security applications.

Adapted to the particular task variants with two and four channel strips available. Through the use of additional cards can increase the number of video inputs in a simple manner.

The card for the PCI Express bus, in principle, combines up to four on a frame grabber board. Each of these channels feature works independently and can be managed separately from the application software. This allows maximum flexibility in planning the application. Parameters such as frame size, frame rate or color depth can be adjusted individually for each video decoder. Each channel strip has its own frame buffer, in which the digitized image data can be stored.

The individual channel strips are of their architecture software-compatible with pciGrabber-4 and *express* pciGrabber-4 *plus*. Applications that were designed for these frame grabbers, can therefore be easily upgraded to the powerful pciGrabber-4x4.

- 2 or 4 independent video decoders
- Up to 4 composite video inputs on board
- up to 4 S-Video inputs on board
- expandable up to 4 multiplexed inputs per decoder
- Maximum Resolution 768 x 576 pixels (PAL)
- PAL and NTSC video sources connected
- Color resolution and color format of the data stream can be selected:
  - 16 million colors: RGB32, RGB24, YCrCb 4:2:2, YCrCb 4:1:1
  - 64k colors: RGB16
  - 32k colors: RGB15
  - 256 levels: Y8 Gray Scale
 for mono-vision
- Image size and resolution are separated scalable
- Resolution and scaling can be chosen for each field
- Floating image details
- Direct image transfer to memory in real time, full screen or 2 separate fields

- separate image storage for each decoder
- Flags to detect the signal state
- Gamma correction can be activated
- Programmable image parameters:
  - Brightness ( $\pm 50\%$ ) and contrast (0% ... 235%)
  - Saturation and Hue
- 8 freely configurable I / O lines to control their own additional hardware
- 4 jumpers for example, to encode multiple cards in one system
- I<sup>2</sup>C interface
- EEPROMs up to four (each 256 bytes) for user data or software Schutzkey
- Several grabbers in one system possible
- suitable for PCI Express - PCI Express x1 slot machines with or better
- compatible with PCI Express Base Specification Revision 1.0a
- identical drivers and software compatibility with high pciGrabber-4 *plus / express* (VD-009-X1 / VD-011)

#### **Connections VD-012:**

- 4 x BNC female (composite video inputs)
- 1 x pin header (Multipurpose I / O, I<sup>2</sup>C port)
- 1 x pin header (Video extension inputs)

#### **Connections VD-012-X1:**

- 4 x mini-DIN connector (S-video inputs)
- 1 x pin header (Multipurpose I / O, I<sup>2</sup>C port)
- 1 x pin header (Video extension inputs)

#### **Connections VD-012-X2:**

- 2 x BNC female (composite video inputs)
- 2) x mini-DIN connector (S-video inputs, switchable
- 1 x pin header (Multipurpose I / O, I<sup>2</sup>C port)
- 1 x pin header (Video extension inputs)

#### **Delivery:**

- Framegrabber pciGrabber-4x4.  
Manual, drivers for Windows (NT 4.0, 2000, XP and Vista), demo program.