



By pciGrabber-4express is the proven technology of the pciGrabber-4plus also for the powerful PCI Express bus available. He opens up so that the current bus technology for the applications of the analog camera technology. Equipped with four composite and one S-video input, this card offers many possibilities. All inputs are combined with an I<sup>2</sup>C bus and a 12V Spannungsversorgungsaußgang auf an HD-DB15 jack. This allows you to easily connect all signals through a single connector. Choice of two composite sources can be connected directly via BNC connectors. To connect S-video signals is an additional mini-DIN connector available. The built-in video multiplexer allows switching between the channels via software command. The working at 1250 MHz PCI-Express bus, this product has a strong backbone. The parallel operation of multiple frame grabbers is easily possible by its large bandwidth. The video data is directly transferred via DMA into the RAM of the PC. The CPU is not adversely impacted. With 12 programmable I / Os and four relay outputs (optional) to connect additional features such as fast-motion, foot pedal or switch. A buffered I / Opin stands on the HD-DB15 jack. The pciGrabber-4express has an EEPROM in which the user can store 256 bytes of data. Supplied with software drivers for DOS and Windows are included. Under Linux, the BTTV driver can be used. Example programs and detailed guide to facilitate the entry into the programming. The pciGrabber-4express is fully software compatible with the pciGrabber-4plus. When migrating from pciGrabber-4plus (VD-009-X1) on the pciGrabber-4express (VD-011) is not a software adjustment is necessary.

- Up to 4 composite video inputs for standard TV cameras, software-selectable
- S-Video input
- 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 black and white image processing
- Image size and resolution are separated scalable
- Resolution and scaling can be chosen for each field
- Freely definable position-cropping
- Direct image transfer to memory in real time, full screen or 2 separate fields
- Flags to detect the signal state
- Gamma correction can be activated

- Programmable image parameters:
  - Brightness ( $\pm 50\%$ ) and contrast (0% ... 235%)
  - Saturation and Hue
- 12 freely configurable I / O lines to control their own additional hardware
- A buffered I / O line (0. ... 28V)
- I<sup>2</sup>C interface
- EEPROM (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
- Optional 4 relay outputs (NO, 24V / 1A) and 4-way DIP switch (for example), encoding multiple cards in one system

#### **Connections:**

- 1 x HD-DB15 jack:
  - 4 Composite inputs,
  - 12V DC output, up to 1.5 A for camera supply
  - 1 S-Video input (optional)
  - 1 Multipurpose - I / O
  - I<sup>2</sup>C port
- Mini-DIN connector (S-Video input, optional)
- 2 BNC connectors (input 2xComposite, optionally.)
- identical drivers and fully software-compatible with pciGrabber-4plus (VD-009-X1)

#### **Delivery:**

- pciGrabber-4express  
Turnkey and tested assembly, hardware manual, drivers for DOS drivers for Windows (95/98/NT 4.0, 2000, XP and Vista), TWAIN driver, demo program.

Model: **VD-011**    Item title: **pciGrabber-4express**