

PIXCI® A310

PCIe x4 Frame Grabber for High Resolution, High Quality, Analog Video

The **PIXCI® A310** video frame grabber acquires images from monochrome or component RGB color, interlaced or progressive scan, from cameras or other video sources, with formats that include RS-170, CCIR, RS343, VGA, SVGA, XGA, WXGA, SXGA, SXGA+, WXGA, WSGA+, and UXGA. Many capture resolutions are available including 1920x1080p, 1920x1080i, 1280x720p, 720x480p, and 720x576p using programmable pixel clock frequencies from 12 to 165 MHz.

The **PIXCI® A310** uses a PCI Express x4 slot for capturing up to 30 bits per pixel of high resolution RGB video. 64-bit memory addressing allows capturing image sequences directly to PC memory for minutes or hours. The optional XCAP-Std program captures image sequences to hard drive, and performs a wide range of image processing, measurement, and tracking functions.

The **XCAP-Lite** imaging program, provided at no charge with the **PIXCI® A310**, provides software control of image capture and all board functions using an intuitive [Capture & Adjust dialog](#).

The **PIXCI® A310** frame grabber, with XCAP-Lite, is \$795.00.

Solutions and Support: EPIX, Inc. has been providing imaging solutions and support for OEM machine vision manufacturers and engineers since 1984. EPIX, Inc. assembles complete imaging systems with cameras, frame grabbers, high-performance PCI Express buses, and with RAID arrays for video-to-disk capture. EPIX imaging systems, custom-built to your specifications, feature Intel motherboards and processors. [Contact EPIX, Inc.](#), or an authorized [EPIX, Inc. distributor](#), for help selecting cameras, frame grabbers, imaging software, optics, and computer systems.



- High Bandwidth Analog Frame Grabber
- PCI Express x4 Bus
- Up to 700 Mbyte/sec Sustained Data Transfer
- Camera Frame Rate Sequence Capture
- Triggered Image Sequence Capture
- 64-Bit Memory Addressing
- Camera Integration & Async Reset Control
- Images stored to Memory, Hard Drive, SSD, or RAID
- Windows & Linux, 32 & 64-bit Compatible
- RoHS Compliant

SPECIFICATIONS

Acquire from interlaced or progressive analog video, monochrome or component RGB with sync on green (default), or separate horizontal and vertical sync inputs.

Video Formats: UXGA, WSGA+, WXGA, SXGA+, SXGA, XGA, SVGA, VGA, RS343, CCIR, RS-170, and others.

Supported Resolutions: 1920x1080p, 1920x1080i, 1280x720p, 720x480p, 720x576p, and others.

Bit Depth: 30, 24, 10, or 8 bits per pixel.

Pixel Clock Range: 12 MHz to 165 MHz.

Maximum PCIe Data Rate: 700 Megabyte per second sustained data transfer.

Memory Addressing: 64-bit DMA.

Bus Requirement: PCI Express x4, x8 or x16.

Input Connectors: BNC (3) for RGB inputs or DB15 for RGB inputs and H&V.

Input/Output: Two general purpose inputs and outputs. One trigger Input. One strobe output. All LVTTTL.

Power Requirements: 727mA at +3.3V, 510mA at +12V, 8.52 total Watts.

Dimensions: 5.150" long x 3.575" high (13.081 cm x 9.081 cm).



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