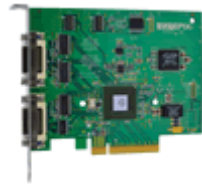


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 EPIX®



PIXCI® E8

PCI Express x8 Frame Grabber For High Bandwidth Camera Link Cameras

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Software
XCAP
XCLIB
PXIPL

The PIXCI® E8 frame grabber supports the fastest Camera Link cameras; cameras with pixel clock frequencies up to 85 MHz. More than 900 Extended, Full, Medium, Base, Dual Base, and PoCL configuration Camera Link cameras have dedicated support. Other Camera Link cameras are supported through Generic (universal) Capture & Adjust dialogs.

A Camera Link camera operating at 85 MHz, in Extended (10-tap 8 bit) mode, generates image data at a sustained rate of 850 megabytes per second. The PIXCI® E8 inputs image data at up to 850 megabytes per second, and transfers the data, through the PCI Express bus, at burst transfer rates up to 1.4 gigabytes per second.

Toggle a switch on the PIXCI® E8 to use with 2 base configuration cameras. PoCL is provided on both MDR connectors (Rev 1.0).

The PIXCI® E8 provides camera operation in free-run mode for maximum frame rate sequence capture, and it offers control (trigger) mode so that a signal from an external device can control image capture. The XCAP program provides camera-specific control (exposure, bit depth, gain, frame rate, etc.) through dedicated, easy-to-use, Capture & Adjust dialogs.

The PIXCI® E8 is designed for the future. It can be used in a PC with a PCI Express x8 or x16 bus slot and as little as 512 megabytes of installed computer memory. At the other extreme, 64-bit memory addressing allows video capture directly to terabytes of computer memory for seconds, minutes, or hours. For longer durations, when used with the XCAP-Std



- High Bandwidth Camera Link Frame Grabber
- Base, Medium, Full Camera Support
- Extended, Expanded, or 10-Tap Support
- Dual Base Camera Support
- Power over Camera Link (PoCL)
- PCI Express x8 Bus
- 1.4 Gbyte/sec Burst Transfer
- Line Scan or Area Scan
- Camera Frame Rate Sequence Capture
- Triggered Image Sequence Capture
- 64-Bit Memory Addressing
- Camera Integration & Async Reset Control
- Images Stored in Motherboard Memory or RAID Array
- Windows & Linux, 32 & 64-bit Compatible



CAMERA
Link™

seconds, minutes, or hours. For longer durations, when used with the XCAP-Std program, capture video directly to SSD or RAID — subject to the capacity of the drives.

Multiple PIXCI® E8 boards can be used in the same computer supporting the same or different cameras. Also, the PIXCI® E8 can be used in the same computer with other EPIX® frame grabbers, allowing simultaneous capture from different camera models, either Camera Link compatible or not. The PIXCI® E8, with XCAP-Lite imaging program, is \$1295.00.

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.

Featured In:








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FEATURES

POPULAR SUPPORTED HIGH BANDWIDTH CAMERAS

Camera	Resolution	Frame Rate	Bit Depth / Pixels	Notes
 Allied Vision Technologies Bonito CL-400 Monochrome or Color	2320×1726	400 fps	10-Bit CMOS 7 μ ² 3.89 Mpixel	Needs one PIXCI® E8 for half frame rate, two for full frame rate.
 Basler A406k Monochrome or Color	2320×1726	209 fps	8-Bit CMOS 7 μ ² 3.89 Mpixel	
 Basler A504k Monochrome or Color	1280×1024	500 fps	8-Bit CMOS 12 μ ² 1.25 Mpixel	Global Shutter. Windowing for faster frame rate.
 Mikrotron EoSens CL 1362/1363 Monochrome or Color	1280×1024	500 fps	8/10-Bit CMOS 14 μ ² 1.25 Mpixel	Global Shutter. ISO 2500 (Mono). Windowing for faster frame rate.
 NAC HotShot 512 CL Monochrome or Color	512×512	2300 fps	8-Bit CMOS 16 μ ² 0.25 Mpixel	ISO 1650 (Mono). Freeze-Frame Global Shutter.
NAC HotShot			8-Bit CMOS	ISO 100 (Mono)

	Princeton Instruments ES2093 Monochrome or Color	1920×1080	30.12 fps	12-Bit CCD 7.4 μ ² 2.074 Mpixel	
	Princeton Instruments ES4020 Monochrome or Color	2048×2048	15.05 fps	12-Bit CCD 7.4 μ ² 4.19 Mpixel	Simultaneous capture with display from up to 4 camera heads at full resolution, bit depth, and frame rate.
	Princeton Instruments ES11000 Monochrome or Color	4008×2672	5.86 fps	12-Bit CCD 9.0 μ ² 10.71 Mpixel	
	Princeton Instruments ES1602 or ES1603 Monochrome	1536×1024	6.2 fps	12-Bit CCD 9.0 μ ² 1.57 Mpixel	
	Princeton Instruments ES3200 Monochrome	2184×1472	2.9 fps	12-Bit CCD 6.8 μ ² 3.3 Mpixel	
	Princeton Instruments EC11000 Monochrome or Color	4008×2672	5.86 fps	12-Bit CCD 9.0 μ ² 10.71 Mpixel Peltier Cooled	
	Virtually ALL Full, Medium, & Base Camera Link Cameras	Supports Camera's Maximum Resolution	Supports Camera's Maximum Frame Rate	Any	

The chart lists high-performance cameras that showcase the PIXCI® E8 board's capability to transfer massive amounts of image data which translates into the ability to capture high resolutions at comparatively fast frame rates. The PIXCI® E8 is primarily designed to support high performance cameras, but it also works with virtually *ALL* camera link cameras.

Please visit the [PIXCI Selection Guide](#) for a comprehensive listing of supported cameras.

SPECIFICATIONS

SIGNAL INPUT & OUTPUT:

EIA RS-644 (LVDS) Drivers & Receivers support pixel clock frequencies up to 85 MHz.

PERFORMANCE (Camera Link):

Supports the camera's maximum:
Horizontal Resolution
Vertical Resolution
Frame Rate
Bit Depth

CONNECTIONS:

Two 26-pin 3M MDR Camera Link connectors for Full, Medium, and Base.
10-pin header for Trigger, Frame Enable, and Strobe.
10-pin header for General Purpose Inputs and Outputs.

BUS REQUIREMENTS:

PCI Express x8 Bus slot.
Operates in PCI Express Bus x16 or x8 slot.

POWER REQUIREMENTS:

12 V @ 120 mA
3.3 V @ 720 mA
Total 3.816 Watts

DIMENSIONS:

13.08 cm long by 10.55 cm high
(5.15" long x 4.153" high)

CERTIFICATIONS:

CE, FCC, & ROHS Compliant

EPIX SOFTWARE Support:

Supported by **XCAP-Lite** (no charge with purchase of PIXCI® frame grabber), **XCAP-Ltd**, **XCAP-Std**, **XCLIB**, and **XCLIBIPL**.
Compatible with Windows 7, Vista, XP, 2K, LINUX, and 32-bit DOS. Also TWAIN and Image-Pro Compatible.

PRICING

PIXCI® E8 - PCI Express x8 Interface for Camera Link cameras.

PIXCI- E8 PCI Express x8 Interface for Camera Link cameras. \$1295.00

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