

PIXCI® EC1 ExpressCard Notebook Camera Link Frame Grabber



- Full, Medium & Base Configuration Camera Link Frame Grabber
- ExpressCard/54 Compatible
- 250 Megabyte/sec Burst Transfers
- Line Scan or Area Scan
- Camera Frame Rate Sequence Capture
- Triggered Image Sequence Capture
- 64-Bit Memory Addressing
- Camera Integration & Async Reset Control
- Integration From Microseconds to Minutes
- Images Stored in Motherboard Memory or directly to hard drive
- Compatible with 32 / 64-bit Windows & Linux
- RoHS Compliant

The **PIXCI® EC1** frame grabber supports all Full, Medium, and Base configuration Camera Link cameras with bandwidth requirements of 191 megabytes (1528 Mbits) per second or less. Compatible with ExpressCard, the PCI Express interface for notebook computers, the PIXCI® EC1 offers dedicated support for more than 70 of the newest, most advanced, highest bandwidth machine vision cameras.

The PIXCI® EC1 offers:

- 191 megabyte per second, sustained, data transfer rate to notebook. Faster notebooks may provide up to 204 megabyte per second, sustained, data rates. Burst transfers at 250 megabytes per second.
- Camera specific controls – exposure, bit depth, gain, frame rate, etc.
- Camera operation in free-run mode for maximum frame rate capture.
- Camera operation in control (trigger) mode.
- Includes XCAP-Lite imaging program.

The **PIXCI® EC1** is a plug-n-play frame grabber requiring no hardware setup or adjustment. Install the board, load the software, connect the camera, and capture images. Upon startup, the XCAP imaging program reads a camera identification chip on the PIXCI® EC1 frame grabber, allowing XCAP to load the appropriate video format and display the camera's dedicated Capture & Adjust Dialog.

The **XCAP-Std imaging program** offers video-to-disk capture subject to the performance of the notebook's hard drive. Capture 1600 x 1200 Bayer pattern color images, 14 frames per second, 8 bits per pixel, directly to notebook hard drive for 2 hours!

Interfaces to almost any camera link camera. The PIXCI® EC1 frame grabber requires a computer with an **ExpressCard/54** slot. Few cameras exceed the frame grabber's 191 megabyte per second sustained data rate. Support for higher bandwidth camera link cameras is available with the PIXCI® E4 frame grabber in a desktop computer with a x4 PCI Express bus. The PIXCI® E4 interfaces to cameras with a bandwidth requirement up to 700 Megabytes (5600 Mbits) per second.

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, and high-performance notebook computers. EPIX imaging systems, custom-built to your specifications, typically feature Intel motherboards and processors. Contact EPIX, Inc., or an authorized distributor of EPIX® imaging products, for help selecting cameras, frame grabbers, imaging software, optics, and computer systems.