



**The Machine Vision
component specialists**

The PIXCI® ECB1-34 base Camera Link frame grabber

The PIXCI® ECB1-34 base Camera Link frame grabber plugs into an ExpressCard/34 or ExpressCard/54 slot in a notebook computer. With 200 megabyte per second sustained data transfer rates, and burst transfers up to 250 megabytes per second, almost all base Camera Link cameras are supported.

The PIXCI® ECB1-34 captures from line scan or area scan cameras operating in either free-run (continuous) or controlled (triggered) mode. Free-run mode provides maximum line or frame rates. Controlled mode uses software for control of each exposure, uses a hardware timing circuit on the PIXCI ECB1-34 to control exposure, or uses an optional TTL trigger input cable to start exposure. A TTL strobe output cable is available for strobe lighting applications.

The PIXCI® ECB1-34 has software selectable bit packing to decrease the data rate to the ExpressCard bus and to conserve storage space when capturing 10 or 12 bit pixels.

The PIXCI® ECB1-34 requires no hardware setup or adjustment. After installing the XCAP program, insert the PIXCI® ECB1-34 in the ExpressCard slot, connect the camera link cable, power up the camera, and start capturing images.

The PIXCI® ECB1-34 frame grabber, with the XCAP program, offers dedicated camera control dialogs supporting hundreds of the newest, most advanced, highest bandwidth machine vision cameras. For cameras without dedicated software control, the Generic configuration menu allows the user to create and save camera configuration parameters. The included XCAP-Lite imaging program provides camera control and image capture with no software development.

The optional XCAP-Ltd imaging program can capture a 3.5-gigabyte sequence into 4 gigabytes of installed memory on a notebook with 32-bit operating system. An 8-gigabyte sequence can be captured into 10 gigabytes of installed memory on a notebook with a 64-bit operating system.

The optional XCAP-Std imaging program adds video-to-disk capture to the size and speed limits of the hard drive system, and can capture to the limit of available notebook memory. Image processing, measurement, and analysis operations are also provided.

Programmer and image processing libraries are available for application specific software development.

EPIX, Inc. has provided imaging solutions and support to the machine vision market since 1984. EPIX, Inc. sells complete imaging systems with cameras, frame grabbers, and high-performance notebook computers.

Featured In:



Notebook Compatibility:

The PIXCI® ECB1-34 frame grabber requires a notebook with either an ExpressCard/34 slot or an ExpressCard/54 slot. When purchasing a notebook, ask the computer supplier for their return policy. Plan the purchase to coincide with the purchase of the PIXCI® ECB1-34 and camera. Allow a few days to complete testing and for returning the notebook if it proves incompatible.

The PIXCI® ECB1-34 frame grabber always ships with a version of the XCAP program -- either XCAP-Lite (no charge) XCAP-Ltd, or XCAP-Std. XCAP provides camera control, image display, image capture, pixel examination and image save – everything required to immediately test and verify compatibility without the need for software development.

Install the XCAP program, the PIXCI® ECB1-34 frame grabber, and the targeted camera to verify that all work properly together. Operate the camera at maximum frame rate, resolution, and bit depth. Contact EPIX® technical support, or your distributor of EPIX® imaging products, with any questions.

If the notebook proves incompatible, then please report the incompatibility to either EPIX, Inc., or to your distributor of EPIX® imaging products. We can extend the evaluation period to allow compatibility verification with another notebook.

HP/Compaq, Toshiba, Lenovo, Eurocom and Intel Whitebox Notebooks have been tested and are recommended. Dell notebooks equipped with an Intel 915 chipset are recommended. Dell notebooks equipped with an Intel 945 chipset are not recommended. Update: Customers are reporting Dell notebooks working after updating the BIOS.

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