

Base Camera Link ExpressCard/34 Frame Grabber



PIXCI[®] ECB1-34 ExpressCard frame grabber with SDR (mini) Camera Link connector measures 99mm L x 34mm W. Trigger input and strobe output cables, with SMA connectors, are optional.

- Base Configuration Camera Link Frame Grabber
- ExpressCard/34 and /54 Compatible
- 250 Megabyte/sec Burst Transfers
- Line Scan or Area Scan
- Full Video Rate Sequence Capture
- 64-Bit Memory Addressing
- Camera Integration & Async Reset Control
- Integration From Microseconds to Minutes
- Images Stored in Notebook Memory or directly to Hard Drive
- Compatible with Windows 7, Vista, XP, 2000 & Linux, & 32-bit DOS
- RoHS Compliant

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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. Contact EPIX, Inc., or an authorized distributor of EPIX[®] imaging products, for help selecting cameras, frame grabbers, imaging software, optics, or computer imaging systems.

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TECH BRIEFS

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Feb 2010



Best ExpressCard Frame Grabber

The PIXCI® ECB1-34 Camera Link frame grabber for an ExpressCard/34 or ExpressCard/54 slot in a notebook. 200 megabyte per second sustained data transfer rates, and burst transfers up to 250 megabytes per second. Includes XCAP-Lite software for an out of the box imaging solution.

[More Information](#)



Basler Aviator color camera interfaced to DELL Vostro V13 notebook computer through the PIXCI® ECB1-34 frame grabber from EPIX, Inc. The Aviator avA-1000-120kc camera offers 1024 x 1024 12-bit resolution at up to 120 frames per second. Reduced resolutions offer faster frame rates. The use of bit packing on the PIXCI® ECB1-34 reduces the size of 12-bit image files by 25%. As a result, 33% more images can be captured (at maximum frame rate and while maintaining maximum image quality). The PIXCI® ECB1-34 frame grabber can be used with ALL base Camera link cameras requiring a sustained data transfer rate of 200 megabytes per second or less.

Come see the PIXCI® ECB1-34 and Vostro V13 notebook at the **SPIE Defense, Security, and Sensing Show** in Orlando. Show dates are 6 - 8 April 2010. EPIX will be in Booth #244. Visit <http://spie.org/defense-security-sensing.xml> for show information.



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Short Form Price List For Most* EPIX® Imaging Products - 22 January 2010

PCI Frame Grabbers for Desktop Computer & Standard Analog Cameras			
PIXCI® SV5	NTSC, RS-170, PAL, CCIR: 2 BNC, 1 S-Video, I/O	32-bit / 33MHz PCI	\$ 215.00
PIXCI® SV5A	NTSC, RS-170, PAL, CCIR: 3 BNC, I/O	32-bit / 33MHz PCI	\$ 285.00
PIXCI® SV5B	NTSC, RS-170, PAL, CCIR: 1 BNC In; 1 BNC Out	32-bit / 33MHz PCI	\$ 185.00
PCI Frame Grabbers for Desktop Computer & RS-422 or LVDS Output Digital Cameras			
PIXCI® D2X	Up to 2 channels or 24 bits	32-bit / 33MHz PCI	\$ 1,095.00
PIXCI® D3X	Up to 4 channels or 32 bits	32-bit / 33MHz PCI	\$ 1,295.00
PCI Frame Grabbers for Desktop Computer & Camera Link Cameras			
PIXCI® CL1	Base (MDR)	32-bit / 33MHz PCI	\$ 495.00
PIXCI® CL2	Base, Medium, Full (MDR)	64-bit / 66MHz PCI	\$ 895.00
PCI EXPRESS Frame Grabbers for Desktop Computer & Camera Link Cameras			
PIXCI® EB1	Base (MDR)	x1 PCI Express	\$ 445.00
PIXCI® EB1P	Base [PoCL] (MDR)	x1 PCI Express	\$ 495.00
PIXCI® EL1	Base, Medium, Full (MDR)	x1 PCI Express	\$ 645.00
PIXCI® EL1DB	Dual (2) Base (MDR)	x1 PCI Express	\$ 695.00
PIXCI® E4	Base, Medium, Full, 10-tap (MDR)	x4 PCI Express	\$ 1,295.00
PIXCI® E4DB	Dual (2) Base (MDR)	x4 PCI Express	\$ 1,395.00
ExpressCard Frame Grabbers for Notebook Computer & Camera Link Cameras			
PIXCI® ECB1- 34	Base (SDR)	ExpressCard/34/54	\$ 595.00
PIXCI® ECB1	Base (SDR)	ExpressCard/54	\$ 625.00
PIXCI® ECB2	2 Base (SDR)	ExpressCard/54	\$ 645.00
PIXCI® EC1	Base, Medium, Full (SDR)	ExpressCard/54	\$ 695.00
SILICON VIDEO® Camera Systems for PCI Bus (with 7 foot cable)			
SI-SV9C10-7FT	3488 x 2616 Color; 7.2 fps	32-bit / 33MHz PCI	\$ 1,195.00
SI-SV5C10-7FT	2592 x 1944 Color; 10 fps	32-bit / 33MHz PCI	\$ 1,095.00
SI-SV5M10-7FT	2592 x 1944 Mono; 10 fps	32-bit / 33MHz PCI	\$ 1,095.00
SI-SV9T001C-7FT	2048 x 1536 Color; 12 fps	32-bit / 33MHz PCI	\$ 1,095.00
SI-SV9M001M-7FT	1280 x 2024 Mono; 30 fps	32-bit / 33MHz PCI	\$ 1,095.00
SI-SV642M-7FT	640 x 480 Mono; 204 fps	32-bit / 33MHz PCI	\$ 1,595.00
SILICON VIDEO® Camera Systems for PCI Express Bus			
PIXCI® SI1	Frame Grabber for 1 camera	x1 PCI Express	\$ 495.00
PIXCI® SI2	Frame Grabber for 1 or 2 cameras	x1 PCI Express	\$ 995.00
PIXCI® SI4	Frame Grabber for 1, 2, 3, or 4 cameras	x4 PCI Express	\$ 1,995.00
SV9C10-C	3488 x 2616 Color camera; 7.2 fps		\$ 650.00
SV5C10-C	2592 x 1944 Color camera; 10 fps	(Cables below / right)	\$ 550.00
SV5M10-C	2592 x 1944 Mono camera; 10 fps		\$ 550.00
SV9T001C-C	2048 x 1536 Color camera; 18 fps		\$ 550.00
SV9M001M-C	1280 x 1024 Mono camera; 43 fps		\$ 550.00
SV643C	640 x 480 Color camera; 211 fps		\$ 1050.00
SV643M	640 x 480 Mono camera; 211 fps		\$ 1050.00

Software Products

XCAP Imaging Programs	
XCAP-Lite	\$ 95.00
(No-Charge with PIXCI® frame grabber or SILICON VIDEO® camera system)	
XCAP-Ltd	\$495.00
XCAP-Std	\$1,495.00

Programming Libraries	
XCLIB	\$495.00
XCLIB-Lite (WIN only)	\$195.00
XCLIBIPL(XCLIB+PXIPL)	\$995.00

Drivers for 3rd Party Software	
XC-IMGPRO (WIN only)	\$ 45.00
XC-TWAIN (WIN only)	\$ 45.00

EPIX® software products are compatible with:
32 / 64-bit Windows
32 / 64-bit Linux
32-bit DOS

- * See full PRICE LIST at www.epixinc.com for:
- Data cables for PIXCI SV5
 - SILICON VIDEO® cameras (older models)
 - Computer systems
 - Power supplies, lenses, and other accessories

Camera Link Cables [PoCL]			Camera Link Cables [PoCL]		
CL to CL (MDR to MDR)			MiniCL to CL (SDR to MDR)		
CBL-CL-1M	1 Meter	\$ 89.00	CBL-MCL-1M	1 Meter	\$110.00
CBL-CL-2M	2 Meter	\$ 75.00	CBL-MCL-2M	2 Meter	\$130.00
CBL-CL-3M	3 Meter	\$ 79.00	CBL-MCL-3M	3 Meter	\$145.00
CBL-CL-5M	5 Meter	\$150.00	CBL-MCL-5M	5 Meter	\$160.00
CBL-CL-10M	10 Meter	\$205.00	CBL-MCL-10M	10 Meter	\$190.00
PoCL: Power over Camera Link			Camera Link Cables [PoCL]		
A PoCL cable enables use of a PoCL camera (no external power supply required).			MiniCL to MiniCL (SDR to SDR)		
A PoCL cable also supports a Camera Link camera that requires an external power supply.			CBL-MCLM-1M	1 Meter	\$165.00
			CBL-MCLM-2M	2 Meter	\$175.00
			CBL-MCLM-3M	3 Meter	\$185.00
			CBL-MCLM-5M	5 Meter	\$195.00
			CBL-MCLM-10M	10 Meter	\$230.00

SILICON VIDEO® Camera System cables with RJ-45 Connectors		
Solid Conductor:		
CBL-SI- 7FT	7 Foot	\$ 29.00
CBL-SI-10FT	10 Foot	\$ 35.00
CBL-SI-14FT	14 Foot	\$ 39.00
CBL-SI-25FT	25 Foot	\$ 49.00
CBL-SI-30FT	30 Foot	\$ 55.00
CBL-SI-50FT	50 Foot	\$ 75.00
Stranded: (Better Flexibility)		
CBL-SI-S- 7FT	7 Foot	\$ 45.00
CBL-SI-S-10FT	10 Foot	\$ 49.00
CBL-SI-S-14FT	14 Foot	\$ 55.00
CBL-SI-S-25FT	25 Foot	\$ 69.00

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