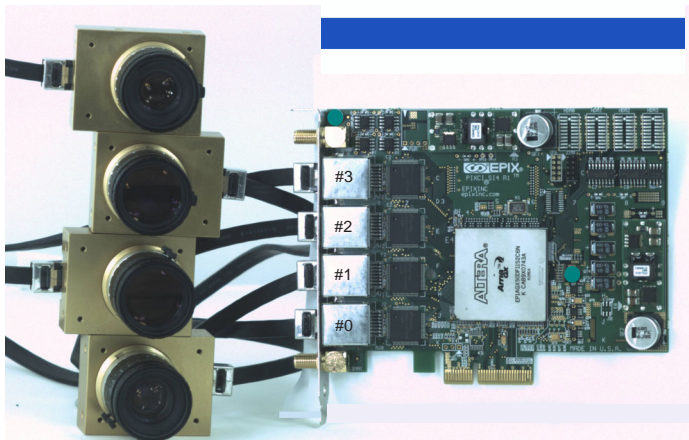


פז"מ-טק (1991) בע"מ

מייקל סטורץ' | 02.583.2511

PaZaM-tech@pobox.com

www.PaZaM-tech.co.il



- Up to 4 SILICON VIDEO® Cameras per PIXCI SI4
- 8, 10, or 12 bits per pixel
- Camera Frame Rate Sequence Capture
- Triggered Image Sequence Capture
- Image Sequence Save
- Exposure & Async Reset Control
- Integration From Microseconds to Minutes
- 64-Bit Memory Addressing for extended data capture
- Images Captured to Computer Memory or RAID Array
- PCI Express x4 Bus Compatible
- 1 gigabyte/sec Burst Data Transfers
- 700 megabyte/sec Sustained Data Transfer
- Compatible with Windows XP, 2000, Vista & Linux



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Multiple Camera System For x4 PCI Express Bus

One PCI Express x4 Frame Grabber Supporting Up To 4 SILICON VIDEO® Cameras

Inspection systems with 4 or 8 cameras on one computer are now very cost effective due to the 4 camera PIXCI® SI4 grabber, EPIX' XCLIB and PXIPL software libraries, and Intel® dual quad core motherboards. Systems can be configured with a single or dual quad core processor to perform the image processing required for the inspection task. EPIX, Inc. provides tested computer imaging systems for high speed imaging applications.

The PIXCI® SI4 captures from up to 4 SILICON VIDEO® cameras at the maximum data rate of the cameras. 64 bit memory addressing permits video rate, multi-camera, image capture into terabytes of motherboard memory. Multiple SI4 frame grabbers are controlled with EPIX® XCLIB software for multiple camera inspection applications. Cameras connected to the PIXCI® SI4 can be identical or mixed, depending on the image inspection task. EPIX® 1.3, 3, 5, and 9 mega-pixel cameras are supported by the PIXCI® SI4.

Multi-camera inspection applications can be configured where all cameras are triggered from a common signal, where each camera has an independent trigger, with the cameras free running, with the cameras software triggered, or with a mix of these controlled and free run modes. Full camera control for bit depth, exposure, pixel clock frequency, color processing, trigger, and gain is provided for each SILICON VIDEO® camera.

The imaging computer system specified below is capable of capturing and processing images from 8 SILICON VIDEO® cameras with dual PIXCI® SI4s. Processor speeds and motherboards are quickly changing. Please contact EPIX, Inc. via email, phone, or FAX for a system that meets your processing requirements.

Intel Core 2 Duo 3.1 GHz CPU
Intel Extreme Desktop Board
4 GB RAM
Nvidia Display Card
320 GB Hard Drive
DVD±RW Drive
Windows Vista Business 32-bit
24" LCD Monitor
System Total \$2,250.00

Contact EPIX, Inc., or an authorized distributor of EPIX Imaging products, for help selecting cameras, lenses, frame grabbers, imaging software, and computer systems.

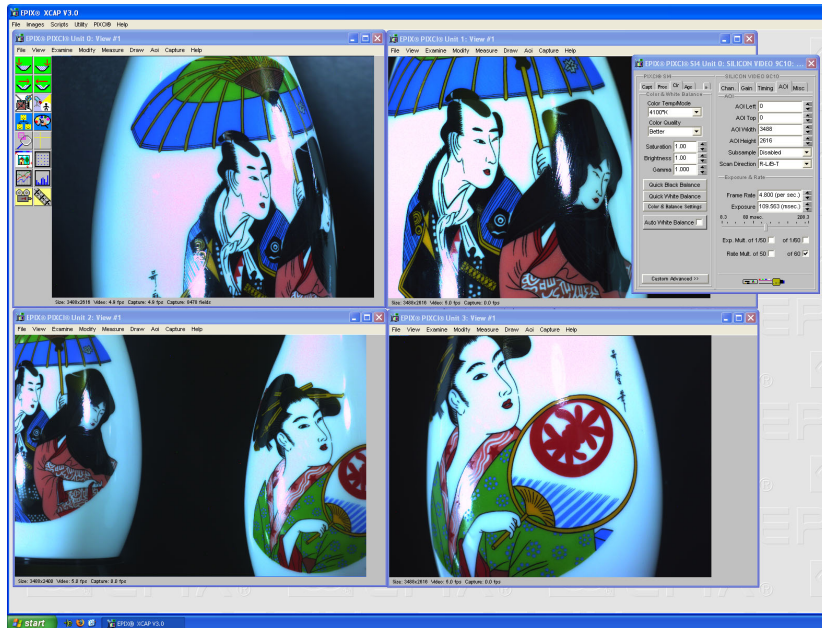
SILICON VIDEO® 4 camera systems

XCAP Program: Control, Display, Analyse & Save

Convenient Control of 4 Cameras

Capture from up to four cameras with the ease and simplicity of capturing from just one. The XCAP imaging program automatically provides one view window for each camera. Each

different views of 2 decorative Japanese bottles. The Capture & Adjust Dialog for Camera #0 is located in the upper right corner, but it can be positioned anywhere within the display.



view window provides full camera control through an independent Capture & Adjust Dialog. Alternatively, Use Common Format & Controls w Cameras Synchronized is an option in the XCAP Multiple Devices menu. By selecting this option, the Capture & Adjust Dialog for camera #0 serves as the control panel for all installed cameras. One set of commands controls all cameras.

This example was obtained with the Screen Capture option in the XCAP Utility menu. The images are 4

The Image from Camera #0 is in the upper left corner. The XCAP Shortcuts (Icons) are displayed to the left of the image. Shortcuts are available for all view windows. Each view window offers the full compliment of camera controls as well as (in XCAP-Std) processing, measurement, and analysis operations.

2 PIXCI SI4s in a single PC support up to 8 cameras. Each camera is supported with a dedicated View Window with the availability of independent controls and processing operations.

SILICON VIDEO Camera Model	Color or Mono	Maximum Resolution (pixels)	Maximum Frame Rate at Maximum Resolution (frames / sec)	Bit Depth (bits / pixel)	Pixel Size (Square Microns)	Responsivity (Volts/Lux Sec at 500 nm)
SV9C10	Color	3488 x 2616	7.2 fps	8 / 12 bits	1.75	0.44
SV5C10	Color	2592 x 1944	10 fps	8 / 12 bits	2.2	1.4
SV5M10	Mono	2592 x 1944	10 fps	8 / 12 bits	2.2	1.4
SV9T001C	Color	2048 x 1536	18 fps	8 / 10 bits	3.2	>1.0
SV9M001M	Mono	1280 x 1024	43 fps	8 / 10 bits	5.2	2.1

1: There is no software cost savings when using an XCLIB-developed program on 1 computer instead of 8. Purchase of one XCLIB single-developer license allows unrestricted copy and use of the developed program without royalty fees.

The XCAP-Std program is offered with a single-user license. Multiple copies of the XCAP-Std single-user license are available with a quantity discount.

FRAME RATE EXAMPLES

Free Run Mode w. Rolling Shutter

SV9C10

9 Megapixel Color Camera

Frame Resolution	Pixel Clock Frequency 25 MHz	Pixel Clock Frequency 48 MHz	Pixel Clock Frequency 70 MHz
3488 x 2616	2.6 fps	4.9 fps	7.2 fps
2592 x 1944	4.5 fps	8.7 fps	12.7 fps
2048 x 1536	7.1 fps	13.6 fps	19.9 fps
1920 x 1080	10.4 fps	20.0 fps	29.1 fps
1280 x 1024	14.1 fps	27.0 fps	39.4 fps
1280 x 720	19.0 fps	36.5 fps	53.3 fps
800 x 600	26.2 fps	50.4 fps	73.5 fps
320 x 240	56.3 fps	108.0 fps	157.6 fps

SV5C10 & SV5M10

5 Megapixel Color/Mono Cameras

Frame Resolution	Pixel Clock Frequency 25 MHz	Pixel Clock Frequency 48 MHz	Pixel Clock Frequency 70 MHz
2592 x 1944	3 fps	6 fps	10 fps
2048 x 1536	4 fps	9 fps	14 fps
1920 x 1080	7 fps	13 fps	22 fps
1280 x 1024	10 fps	20 fps	30 fps
1280 x 720	15 fps	29 fps	42 fps
800 x 600	23 fps	44 fps	64 fps

SV9T001C

3 Megapixel Color Camera

Frame Resolution	Pixel Clock Frequency 25 MHz	Pixel Clock Frequency 48 MHz	Pixel Clock Frequency 70 MHz
2048 x 1536	6 fps	12 fps	18 fps
1920 x 1080	9 fps	19 fps	27 fps
1280 x 1024	14 fps	27 fps	40 fps
1280 x 720	20 fps	39 fps	57 fps
800 x 600	34 fps	66 fps	97 fps

SV9M001M

1.3 Megapixel Monochrome Camera

Frame Resolution	Pixel Clock Frequency 25 MHz	Pixel Clock Frequency 48 MHz	Pixel Clock Frequency 70 MHz
1280 x 1024	15 fps	30 fps	43 fps
774 x 580	40 fps	77 fps	112 fps
640 x 480	55 fps	107 fps	155 fps
342 x 256	156 fps	290 fps	420 fps
1280 x 4	528 fps	1049 fps	1479 fps

PIXCI® SI4 Frame Grabber:

Dimensions: 13 cm (L) x 10.5 cm (H)
5.2 In. (L) x 4.2 In. (H)

Bus Requirements:

x4 or larger PCI Express Bus slot



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