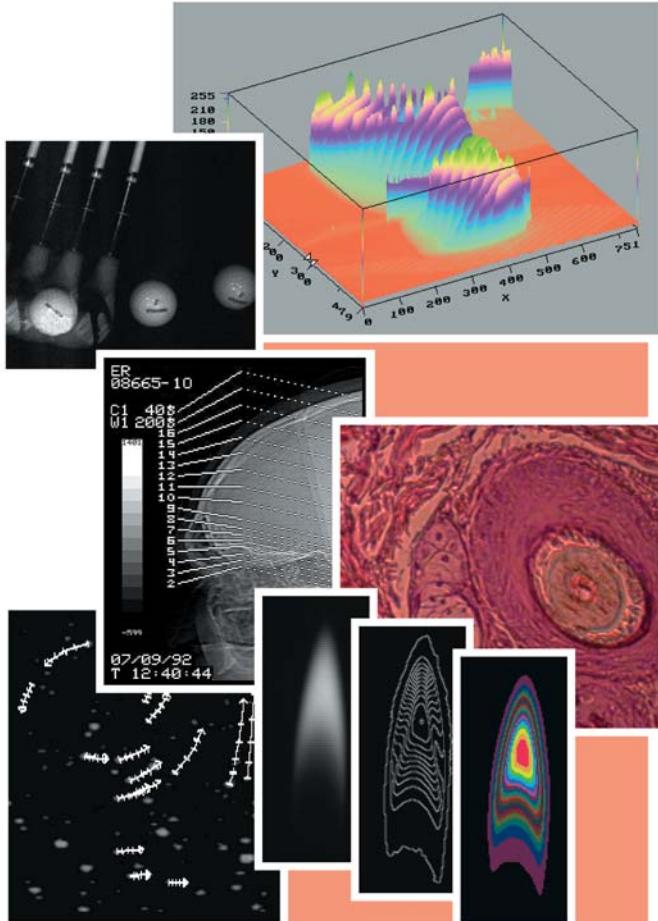


Ready-to-Run Image Analysis Software for PIXCI® Imaging Boards



APPLICATIONS

- Image Enhancement & Archival
- Image Analysis & Measurement
- Event & Motion Study
- Cine-loop Capture
- CT, MR, Ultrasound Image Capture
- Stereo & Multi-Camera Imaging
- Visual Inspection & Comparison
- Machine Vision & Quality Control
- Image Sensor Evaluation & Testing
- Particle Analysis, Counting & Tracking

PIXCI® IMAGING POWER

Designed to augment the features of PIXCI® imaging boards, XCAP puts image processing power at fingertip control. Under Windows 95, 98, ME, NT, 2000, XP, Vista, or 7, or under Linux, with a few clicks of the mouse, easy-to-use menus and dialogs allow simple or complex imaging tasks to be effortlessly completed.

IMAGING SOLUTIONS

XCAP is engineered to provide solutions across diverse imaging technologies. Quality control, medical imaging, microscopy, machine vision, research & development, and varied applications requiring motion capture, image enhancement, calibrated measurement, particle analysis, multi-camera imaging, or image archival, are all easily accomplished.

Together, a PIXCI® frame grabber and XCAP seamlessly integrate most popular video cameras with a broad array of features: individual, sequence, or triggered capture and display; video enhancement and pseudo-color; examination of image details; an extensive library of image processing functions; graphical annotation; image export, import, and printing; and programmable video resolution.¹

ADVANCED TECHNOLOGY

XCAP combines an easy-to-use Java-based graphical user interface with highly efficient "C" and assembler image processing routines. Multi-threading allows virtually unlimited views, graphs, and analyses of one or multiple images.

Simultaneous presentation and manipulation of multiple images, whether from PIXCI® frame buffers, TWAIN devices, or from disk, of varying resolutions and pixel formats, are all built-in features of XCAP.

XCAP includes a scripting language, user-defined tool bars, and non-procedural "spread sheet" programming for automating image analysis and inspection tasks. Other applications, in virtually any programming language, can remotely control XCAP through scripts.

ENGINEERED FLEXIBILITY

XCAP is a scientific and engineering package providing hundreds of qualitative and quantitative imaging operations. Engineered with a unique flexible architecture, XCAP empowers researchers and developers to meet today's requirements, as well as the evolving demands of future applications.

EPIX, Inc. has been providing imaging solutions to the research and industrial communities since 1984. Join the camera manufacturers, radiologists, astronomers, biologists, machine vision, quality control, and other engineers, who rely upon EPIX® imaging solutions.

XCAP™ SOFTWARE

Ready-to-Run Image Analysis Software for PIXCI® Imaging Boards

FEATURES

XCAP VERSIONS

The XCAP-Lite version provides access to PIXCI® imaging board(s) and can also load, view, and save images and image sequences to/from files, while PIXCI® imaging board(s) are present and open for use. XCAP-Lite also exports customized video formats and camera serial commands to assist programming PIXCI® imaging boards via the XCLIB "C" library. For imaging boards capturing directly into host computer memory, XCAP-Lite is limited to 64 MBytes of frame buffer memory; no limitation on frame buffer memory when used with the PIXCI® CL3SD or PIXCI® SI2. XCAP-Lite is provided with each PIXCI® imaging board.

The XCAP-Ltd version provides access to PIXCI® imaging board(s) and includes all features of the -Lite version, adding graphics, load/save images and image sequences in additional formats, and more image viewer and convenience features. XCAP-Ltd can load, view, and save single images and image sequences even when the PIXCI® imaging board(s) are not present. XCAP-Ltd supports full access to as much as 4 GBytes of frame buffer memory under 32 bit systems, and is limited to 8 GByte of frame buffer memory under 64 bit systems.²

The XCAP-Std version provides access to PIXCI® imaging board(s) and includes all features of the -Ltd version, also enabling use of all image processing, measurement, graphics, load/save, image viewer, and analysis features. XCAP-Std can load, view, analyze, and save pre-existing images and image sequences even when the PIXCI® imaging board(s) are not present. XCAP-Std supports full access to as much as 4 GBytes of frame buffer memory under 32 bit systems, and to as much as 16 EByte of frame buffer memory under 64 bit systems.³

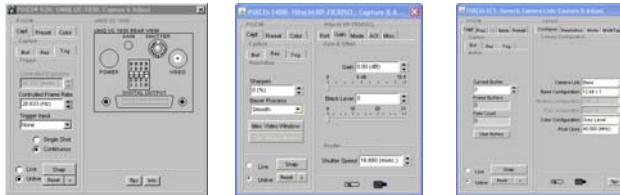
The XCAP-Viewer version allows loading and viewing single images and image sequences from files, such as those saved by XCAP-Lite, XCAP-Ltd, or XCAP-Std. XCAP-Viewer also allows browsing the hundreds of processing, measurement, analysis, load/save, and graphics features that can be applied to images and allows browsing XCAP's integrated camera controls.

INTEGRATED CAMERA CONTROLS

Built-in, camera-specific, on-screen graphical controls for selected cameras that are configured via RS-232, I²C, or Camera Link, integrate the camera's controls within XCAP! No need to also run the camera manufacturer's software - both PIXCI® imaging board and camera can be configured together!

For selected cameras configured by physical switch settings, XCAP provides an on-screen virtual camera and switches - setting the on-screen switches to match the physical switches easily configures the PIXCI® imaging board to match the camera!

For cameras controlled by hardwired signals via the PIXCI® frame grabber, XCAP provides a convenient graphical user interface.



Provides integrated camera controls for Adimec, Allied Vision, Almel, Basler, Baumer, CIS, CMOS Sensor, Cohu, Dalsa, Dalstar, E2V, FLIR, Hamamatsu, Hitachi, Ikegami, Imperx, Indigo, Intevac, ISVI, Jai, Mikrotron, NED, PCO AG, Perkin Elmer, Point Grey, Princeton Instruments, Pulnix (Jai), Raptor Photonics, Reticon, Salvador Imaging, Sensors Unlimited, Sentech, Silicon Imaging, SILICON VIDEO®, Sony, Takenaka, Thomson/Thales, Toshiba Teli, Uniq Vision, Viewworks, and many other cameras. See the complete list of integrated camera controls at www.epixinc.com/guide/index.htm.

GENERIC CAMERA LINK CONFIGURATION

Use any Camera Link camera, combined with a Camera Link style PIXCI® imaging board⁴, even when XCAP doesn't provide camera specific controls. An easy to use graphical interface configures XCAP and PIXCI® imaging board for the camera's resolution, bit depth, color space, etc. Use the camera manufacturer's software for control of the camera via serial commands, or directly enter serial commands into XCAP's 'terminal' dialog.

MULTIPLE FORMAT VIDEO CAPTURE⁵

Capture from any video source supported by a PIXCI® imaging board: area scan, line scan, high resolution, high frame rate cameras; with digital or analog output; in monochrome or color; with 8, 10, 12, or more bits per monochrome pixel or color pixel component value.

Control the capture window, undersampling, and reconfigurable frame buffers. Capture from multiple cameras with multiple imaging boards.

Provides video rate image sequence capture, triggered event acquisition, continuous (circular) sequence acquisition until terminated by trigger event, video recording to memory, video recording to disk,⁶ live recursive or FIFO averaging, and live merge of RGB filtered monochrome images into color. Allows trigger on TTL signal, time of day, mouse, or video time code.

SOFTWARE TEST DRIVE: Have a PIXCI® imaging board with older software? Download XCAP from www.epixinc.com to see the newest XCAP solution.

View the camera compatibility list?

Download XCAP-Viewer and click **PIXCI®, PIXCI® Camera Info**. Click under **Adjust Dialog** to see the built-in controls for your camera!

Don't yet have a PIXCI® imaging board? Download XCAP-Viewer and peruse its windows and features. (Many features, other than perusal and image display requires either a PIXCI® imaging board, or use of the XCAP-Ltd or -Std versions).

Peruse the full manual? Download XCAP-Viewer and click **Help, XCAP Reference Manual**.

SPECIFICATIONS

IMAGING DEVICES:

Supports any PIXCI® A, A310, D, D24, D32, D2X, D3X, CL1, CL2, CL3SD, E1, E1DB, E4, E4DB, E8, E8DB, EB1, EB1-PoCL, EC1, ECB1, ECB1-34, ECB2, EL1, EL1DB, ELS2, SI, SI1, SI2, SI4, SV2, SV3, SV4, SV5, or SV7 series imaging board.⁷

Up to eight (32 bit O.S.) or sixteen (64 bit O.S.) identical PIXCI® series imaging boards can be operated simultaneously.⁸ XCAP-Std version also allows operating up to four non-identical PIXCI® imaging boards.

Supports up to eight (32 bit O.S.) or sixteen (64 bit O.S.) SILICON VIDEO® 1281M, 1281C, 1310, 1310C, 2112, 2112C, 5C10, 5M10, 642M, 642C, 643M, 643C, 9C10, 9M001, 9M001C, 9T001C, 10C6, 10M6, 10C-CL, 10M-CL, WGA-C, or WGA-M cameras.

The XCAP-Std version allows capturing from TWAIN compatible devices (Windows only). The XCAP-Ltd and -Std versions also provide image load, save, process, analysis, and graphics features without a PIXCI® imaging board present.

OPERATING SYSTEM:

For Windows 95, 98, and ME, as a 32 bit, multi-threaded, application.

For Windows NT (V4.0), 2000, XP, Vista, and 7 as a 32 bit, multi-threaded, application.

For Windows XP(x64), Vista(x64), and 7(x64) as a 64 bit, multi-threaded, application.

For Linux (kernel V2.4.8 or later) on Intel 80x86.

For Linux (kernel V2.6 or later) on Intel x86-64.

REQUIREMENTS:

Processor/Memory - Intel Pentium or newer processor and 32-64 MBytes of memory exclusive of user-requested in-memory image buffers, operating system, and other software.

Graphics Display - Windows: Minimum: Windows compatible SVGA w. 16 bits per pixel. Suggested: AGP or PCI Express SVGA w. 24 or 32 bits per pixel.

Linux: Graphics display system (S/VGA) supporting TrueColor or DirectColor mode. Video display rate depends upon video format, SVGA card, S/VGA mode, and motherboard speed and bandwidth.⁹

Mouse - A Windows or Linux compatible mouse is required.

Printer - Image and graphics printing on any Windows or Linux compatible printer. Special support for high-quality printing on Hewlett-Packard PCL4 and PCL5 compatible printers, IBM 4019 Laser-Printer, CalComp PlotMaster, and Alden 9315 printers.

Disk Space - Approximately 140 megabytes, exclusive of stored images and reports.

Other - The XCAP-Ltd and -Std versions use a USB¹⁰ authorization key, or a key on the parallel port which may be shared with a printer.

SOFTWARE INCLUDES:

Browsable reference manual. Printed reference manual included with XCAP-Std and -Ltd; optionally available for XCAP-Lite.

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1. Features dependent upon hardware options, or upon a specific version of the PIXCI® imaging card, function only in conjunction with required hardware.

2.3. The maximum available computer based frame buffer memory is also limited by the computer hardware, configuration, and operating systems.

4. The PIXCI® CL3SD and CL1 are customized for one, or a group of similar, cameras and can't be used as a generic Camera Link imaging card.

5. Support for various video formats, resolution, triggering and other features are dependent upon specific version(s) of the PIXCI® imaging card, and are effective only in conjunction with required hardware.

6. Frame rate is dependent upon host PC hardware and disk drive(s).

7. Software may require upgrade to operate future versions of the PIXCI® imaging board. PIXCI® SV2 and SV3 are not supported under 64 bit Windows or Linux.

8. Each functional half of a PIXCI® E1DB, E4DB, E8DB, ECB2, EL1DB, ELS2, SI2, or SV7, or each functional quarter of a PIXCI® SI4, counts as one board.

9. Contact EPIX, Inc. for suggested SVGA cards which support full video rate display in conjunction with a specific PIXCI® imaging board.

10. Requires O.S. with support for USB devices.

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CT brain scan image courtesy of Dataview, Inc. Specifications subject to change without notice. EPIX® imaging products are made in the USA. Copyright © 2012 EPIX, Inc. All rights reserved. 21-Sep-2012.

XCAP™ SOFTWARE

Ready-to-Run Image Analysis Software for PIXCI® Imaging Boards

FEATURES

XCAP Feature	-Plus	-Std	-Ltd	-Lite (A)	-Viewer	XCAP Feature	-Plus	-Std	-Ltd	-Lite (A)	-Viewer
File -											
- Load New Image	Yes	Yes	Yes	Yes (C)	Yes (C)	- Intensity Calibration	Yes	Yes	No	No	No
- Load New Image Sequence	Yes	Yes	Yes	Yes (C)	Yes (C)	- Spatial Calibration	Yes	Yes	No	No	No
- Image File Info	Yes	Yes	Yes	Yes	Yes	- Histogram	Yes	Yes	No	No	No
- TWAIN Select Source (Win)	Yes	Yes	No	No	No	- Histogram Pair	Yes	Yes	No	No	No
- TWAIN New Acquire (Win)	Yes	Yes	No	No	No	- Mass & Moments	Yes	Yes	No	No	No
Images -											
- New Image (Workspace)	Yes	Yes	Yes	Yes	Yes	- Line Profile	Yes	Yes	Yes (K,L)	Yes (I,K,L)	Yes (I,K,L)
Scripts -											
- Record	Yes	Yes	No	No	No	- Radial Mass Plot	Yes	Yes	No	No	No
- Play	Yes	Yes	Yes	Yes	No	- Ruler	Yes	Yes	Yes (K)	Yes (K)	Yes (K)
- Remote Control	Yes	Yes	No	No	No	- Protractor	Yes	Yes	No	No	No
- Load Tool Bar	Yes	Yes	No	No	No	- Cartesian Reticle	Yes	Yes	Yes (K)	Yes (K)	Yes (K)
Utility -											
- Black Board	Yes	Yes	No	No	No	- Polar Reticle	Yes	Yes	No	No	No
- Message Log	Yes	Yes	Yes	Yes	Yes	- Dist. & Angle Crosshairs	Yes	Yes	No	No	No
- Audio Clip (Win)	Yes	Yes	Yes	Yes	No	- Shape Analysis	Yes	Yes	No	No	No
- RS-232 Terminal	Yes	Yes	Yes	Yes	Yes	- Blob Analysis	Yes	Yes	No	No	No
- Screen Capture	Yes	Yes	Yes	No	No	- Particle Tracking	Yes	Yes	No	No	No
- I/O Port Peek & Poke (W95)	Yes	Yes	Yes	Yes	Yes	- SubPixel Edger	Yes	Yes	No	No	No
Devices -											
- Birger EF232	Yes	Yes	Yes	Yes	Yes	- Ellipse Fitter	Yes	Yes	No	No	No
- Directed Perception Pan-Tilt Unit	Yes	Yes	Yes	Yes	Yes	- Correlation Finder	Yes	Yes	No	No	No
- Fujinon CCTV Lens	Yes	Yes	Yes	Yes	Yes						
- Illumination Technologies 3900	Yes	Yes	Yes	Yes	Yes						
- Sagebrush Pan-Tilt Gimbal	Yes	Yes	Yes	Yes	Yes						
- Volpi intralux dc-1100	Yes	Yes	Yes	Yes	Yes						
PIXCI® -											
- Open/Close -											
- Single Board	Yes	Yes	Yes	Yes	No						
- Multiple Identical Boards	Yes	Yes	Yes	Yes	No						
- Multiple Different Boards	Yes	Yes	No	No	No						
Frame Buffer Memory Limit -											
w. PIXCI® CL3SD	None (E)	None (E)	None (E)	None	N/A						
w. PCI 32 bit	None (E)	None (E)	4 GByte (E)	64 MByte(E)	N/A						
w. PCI 64 bit	None (E)	None (E)	4 GByte (E)	64 MByte(E)	N/A						
w. PCI Express & 32 bit O.S.	None (E)	None (E)	4 GByte (E)	64 MByte(E)	N/A						
w. PCI Express & 64 bit O.S.	None (E)	None (E)	8 GByte (E)	64 MByte(E)	N/A						
w. ExpressCard/54 & 32 bit O.S.	None (E)	None (E)	4 GByte (E)	64 MByte(E)	N/A						
w. ExpressCard/54 & 64 bit O.S.	None (E)	None (E)	8 GByte (E)	64 MByte(E)	N/A						
- Driver Assistant/Wizard	Yes	Yes	Yes	Yes	No						
- Video Setup	Yes	Yes	Yes	Yes	No						
- Export Video Setup	Yes	Yes	Yes	Yes	No						
- Import Video Setup	Yes	Yes	Yes	Yes	No						
- TWAIN Sourcery (Win)	Yes	Yes	Yes	Yes	No						
- Image-Pro Sourcery (Win)	Yes	Yes	Yes	Yes	No						
- Status	Yes	Yes	Yes	Yes	No						
- Serial Terminal	Yes	Yes	Yes	Yes	No						
- Connections Info	Yes	Yes	Yes	Yes	Yes						
- Camera Info	Yes	Yes	Yes	Yes	Yes						
- Camera Specific Controls	Yes (F)	Yes (F)	Yes (F)	Yes (F)	No						
Help -											
- XCAP Release Notes	Yes	Yes	Yes	Yes	Yes						
- XCAP Reference Manual	Yes	Yes	Yes	Yes	Yes						
- PC Configuration Tips	Yes	Yes	Yes	Yes	Yes						
File -											
- Save Image	Yes	Yes	Yes	Yes (C)	No						
- Load Image	Yes	Yes	Yes	Yes (C)	Yes (C)						
- Save Image Sequence	Yes	Yes	Yes	No	No						
- Load Image Sequence	Yes	Yes	Yes	Yes (C)	Yes (C)						
- E-Mail Image	Yes	Yes	Yes	No	No						
- Print Image	Yes	Yes	Yes	Yes	Yes (R)						
- Duplicate Image	Yes	Yes	Yes	No	No						
- Duplicate Image Sequence	Yes	Yes	Yes	No	No						
- BlackBoard Image	Yes	Yes	No	No	No						
View -											
- Full Screen	Yes	Yes	Yes	No	No						
- Palette	Yes	Yes	Yes	Yes (G)	Yes (G)						
- Sequence Play	Yes	Yes	Yes	Yes	Yes						
- Sequence Thumbnails	Yes	Yes	Yes	No	No						
- Cursor	Yes	Yes	Yes	Yes	Yes						
- Zoom, Pan, Scroll	Yes	Yes	Yes	Yes	Yes						
- Launch 2nd Viewer	Yes	Yes	Yes	No	No						
Examine											
- Pixel Peek	Yes	Yes	Yes	Yes (H)	Yes (H)						
- Pixel Peeks & Poke	Yes	Yes	Yes	Yes	Yes						
- Pixel Plot Row	Yes	Yes	Yes	Yes (I)	Yes (I)						
- Pixel Plot Column	Yes	Yes	Yes	Yes (I)	Yes (I)						
- Pixel Plot Buffer	Yes	Yes	Yes	Yes (I)	Yes (I)						
- Pixel Plot All Rows	Yes	Yes	Yes	No	No						
- Pixel Plot 3D	Yes	Yes	Yes	Yes (S)	Yes (S)						
- SMPTE VTC	Yes	Yes	Yes	Yes	No						
Modify -											
- Patterns	Yes	Yes	Yes	Yes	Yes						
- Set	Yes	Yes	Yes	Yes (J)	Yes (J)						
- Arithmetic	Yes	Yes	No	No	No						
- Binning	Yes	Yes	No	No	No						
- Contrast Modification	Yes	Yes	No	No	No						
- Convolution	Yes	Yes	No	No	No						
- Correlation Map	Yes	Yes	No	No	No						
- Edge Detection	Yes	Yes	No	No	No						
- FFT	Yes	Yes	No	No	No						
- HSB Tweak	Yes	Yes	No	No	No						
- Interlace & Flicker	Yes	Yes	No	No	No						
- Morphology	Yes	Yes	No	No	No						
- Noise Generator	Yes	Yes	No	No	No						
- Normalization	Yes	Yes	No	No	No						
- Rotation & Shift	Yes	Yes	No	No	No						
- Spatial Filtering	Yes	Yes	No	No	No						
- Spatial Normalization	Yes	Yes	No	No	No						
- Threshold	Yes	Yes	No	No	No						
- Threshold Adaptive	Yes	Yes	No	No	No						
- Warping	Yes	Yes	No	No	No						
- Copy & Resize	Yes	Yes	No	No	No						
- Pair Arithmetic	Yes	Yes	No	No	No						
- Pair Normalization	Yes	Yes	No	No	No						
- Triplet Normalization	Yes	Yes	No	No	No						
- Average Sequence	Yes	Yes	No	No	No						
- Difference Sequence	Yes	Yes	No	No	No						
- Tile Sequence	Yes	Yes	No	No	No						
Sequence Capture (Single Sequence and Continuous Sequence) -											
- to Frame Buffers	Yes (E)	Yes (E)	Yes (E)	Yes (E)	Yes (P)(E)						
- to Frame Buffers at Event	Yes	Yes	Yes	Yes	No (O)						

XCAP™ SOFTWARE Ready-to-Run Image Analysis Software for PIXCI® Imaging Boards

FEATURES

Notes: (A) For -Lite, the imaging board is assumed installed and open for use, otherwise -Lite provides the same features as -Viewer. (C) For -Lite and -Viewer, images may not be loaded directly from an Internet URL, or saved directly to an FTP URL. (E) A combination of the characteristics of PIXCI® imaging cards, operating systems, and of software. The PIXCI® CL3SD and SI2 have on-board frame buffer memory, other PIXCI® imaging cards use computer based frame buffer memory. The PIXCI® CL1, CL2, D, D24, D32, D2X, D3X, SI, SV2, SV3, SV4, and SV5 are designed to access up to 4 GB of computer memory. The PIXCI® A310, E1, E1DB, E4, E4DB, E8, EBDB, EB1, EB1-PoCL, EC1, ECB1, ECB1-34, ECB2, EL1, EL1DB, ELS2, SI1, SI2, and SI4, and for most digital cameras supported by PIXCI® CL1, CL2, CL3SD, D, D24, D32, D2X, D3X, E1, E1DB, E4, E4DB, E8, E8DB, EB1, EB1-PoCL, EC1, ECB1, ECB1-34, ECB2, EL1, and EL1DB: the PIXCI® Camera Info feature shows the specific, customized, support provided for each camera. (G) For -Lite and -Viewer, the View, Palette feature does not include save, load, import, or export, nor the "Extract Bright/Dark Reference" features. (H) For -Lite and -Viewer, the Examine, Pixel Peek feature does not include save. (I) For -Lite and -Viewer, plotting features do not include statistics, save, or export options. For -Viewer, plotting features do not include printing. (J) For -Ltd, -Lite, and -Viewer, the Modify, Set feature does not include non-rectangular regions. (K) For -Ltd, -Lite, and -Viewer, the Measure features do not include calibration. (L) For -Ltd, -Lite, and -Viewer, the Line Profile is limited to straight lines. (M) Subject to the amount of frame buffer memory versus image resolution yielding more than one frame buffer. (N) For Bayer output digital color cameras with software providing white balance and color corrections. The -Lite provides automatic, continuous, white balance only for SILICON VIDEO® cameras. The -Lite does not provide custom color calibration from a Macbeth chart or other color reference. (O) Software implemented AGC/AEC is provided for selected cameras; of those, -Lite provides AGC/AEC only for SILICON VIDEO® cameras. (P) For -Lite, the Sequence Capture does not include the time stamp feature, nor the strobe features added by software (as selected in the Sequence Capture dialog); any strobe features provided by the PIXCI® imaging board or camera (either inherent or selected in the Capture & Adjust dialog) are available. (Q) For -Lite, the "triggered" sequence capture is provided when the camera is being triggered (often referred to as "Async Reset Mode"); sequence capture from a free-running camera where the trigger or event is handled separately is not provided. (R) For -Lite, the image printing feature supports only the operating system's built-in image printing feature(s), not printing via EPIX® imaging drivers. (S) For -Lite and -Viewer, plotting features do not include save or export options. For -Viewer, plotting features do not include printing. (T) For -Lite, the sequence capture to virtual memory is limited to using 1 GByte of virtual memory For -Ltd, the sequence capture to virtual memory is limited to using 4 GByte of virtual memory. The operating system's configuration may impose additional limitations. (U) Interactive control of the lens is provided, but not automatic aperture or automatic focus features. (V) Software implemented pixel normalization is provided for SILICON VIDEO® and other selected cameras; of those, -Lite does not provide pixel normalization in generic Camera Link mode. (W95) Feature available only under Windows 95, 98, and ME. (Win) Feature available only under Windows.

XCAP™ SOFTWARE

Ready-to-Run Image Analysis Software for PIXCI® Imaging Boards

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Main Window - PIXCI®. PIXCI® - Open/Close. PIXCI® - Multiple Boards. PIXCI® - Driver Assistant. Driver Assistant - Windows 95, 98, ME. Driver Assistant - Windows NT, 2000, XP, XP(x64), Vista, Vista(x64), 7, 7(x64). Driver Assistant - Windows Common. Driver Assistant - Linux. Driver Assistant - Advanced Options. PIXCI® - Advanced. PIXCI® - Video Setup. Video Setup - Format. Video Setup - Resolution. Video Setup - Sync. PIXCI® - Export & Import Video Setup. PIXCI® - Status. PIXCI® - Connections. PIXCI® - Serial Terminal. PIXCI® - TWAIN Sourcery and Image-Pro Sourcery. Sourcery - Activation. Sourcery - Acquisition. Sourcery - Suggestions.

Image Viewer Window - File. Image File - Save. TIFF Format. JPEG/JFIF Format. BMP Format. FITS Format. PCX Format. Targa (TGA) Format. XV Binary Format. XV ASCII Format. Image File - Save Sequence. AVI Format. Image File - E-Mail. Image File - Load. TIFF Format. JPEG/JFIF Format. BMP Format. AVI Format. FITS Format. XV Binary Format. XV ASCII Format. Image File - Load Sequence. Image File - Print. Print via EPIX® Imaging Drivers. Image File - Attributes. Image File - Duplicate. Copy Image Buffer. Copy as Show. Image File - BlackBoard.

Image Viewer Window - View. Image View - Palette. Palette - Display. Palette - Modify - Numerical & Mouse. Palette - Modify - Black & Gain. Palette - Modify - Band Coloring. Palette - Modify - Bit Slice. Palette - Modify - Bit Transposition. Palette - Modify - White Balance. Palette - File. Image View - Sequence Play. Image View - Sequence Thumbnails. Image View - Cursor. Image View - Display. Display - Resize. Display - API. Display - Palette. Display - Window. Display - Status Bar. Image View - Zoom, Pan, Scroll. Image View - Shortcuts.

Image Viewer Window - Examine. Image Examination - Pixel Peek. Image Examination - Pixel Peek & Poke. Image Examination - Pixel Plot. Image Examination - Pixel Plot 3D. Image Examination - SMPTE VITC.

Image Viewer Window - Modify. Image Processing - Patterns. 2-D Periodic Patterns. More 2-D Periodic Patterns. Alignment Patterns. User-Defined. Random. Image Processing - Sequence Patterns. Image Processing - Set Pixels. Image Processing - Sequence Set Pixels. Image Processing - Pixel Arithmetic. Image Processing - Sequence Pixel Arithmetic. Image Processing - Src-Dst Pixel Arithmetic.

Image Processing - Binning. Image Processing - Sequence Binning. Image Processing - Src-Dst Binning. Image Processing - Contrast Modification. Contrast Stretching. Contrast Inversion. Histogram Equalization. Image Processing - Sequence Contrast Modification. Image Processing - Src-Dst Contrast Modification. Image Processing - Convolution. Image Processing - Sequence Convolution. Image Processing - Src-Dst Convolution. Image Processing - Correlation Map. Image Processing - Sequence Correlation Map. Image Processing - Src-Dst Correlation Map. Image Processing - Edge Detection. Magnitude Filters. Edge Gradient Filters. Image Processing - Sequence Edge Detection. Image Processing - Src-Dst Edge Detection. Image Processing - Interface & Flicker. Image Processing - Sequence Interlace & Flicker. Image Processing - Src-Dst Interlace & Flicker. Image Processing - Morphology. Erosion, Dilation, Open, Close, etc. Skeletons and Thinning. Numeric Results. Image Processing - Sequence Morphology. Image Processing - Src-Dst Morphology. Image Processing - Noise Generator. Image Processing - Sequence Noise Generator. Image Processing - Src-Dst Noise Generator. Image Processing - Normalization. Image Processing - Sequence Normalization. Image Processing - Src-Dst Normalization. Image Processing - Rotation & Shift. Image Processing - Sequence Rotation & Shift. Image Processing - Src-Dst Rotation & Shift. Image Processing - Spatial Filtering. Image Processing - Sequence Spatial Filtering. Image Processing - Src-Dst Spatial Filtering. Image Processing - Spatial Normalization. Image Processing - Sequence Spatial Normalization. Image Processing - Src-Dst Spatial Normalization. Image Processing - Threshold. Image Processing - Sequence Threshold. Image Processing - Src-Dst Threshold. Image Processing - Threshold Adaptive. Image Processing - Src-Dst Threshold Adaptive. Image Processing - Warping. Image Processing - Sequence Warp. Image Processing - Src-Dst Warp. Image Processing - Copy. Image Processing - Pair Arithmetic. Image Processing - Sequence Pair Arithmetic. Image Processing - Src-Dst Pair Arithmetic. Image Processing - Pair Normalization. Image Processing - Sequence Pair Normalization. Image Processing - Src-Dst Pair Normalization. Image Processing - Triplet Normalization. Image Processing - Sequence Triplet Normalization. Image Processing - Src-Dst Triplet Normalization. Image Processing - Average Sequence. Image Processing - Difference Sequence. Image Processing - Tile Sequence.

Image Viewer Window - Measure. Image Measurement - Intensity Calibration. Calibration - Reference Values. Calibration - Explicit Expression. Calibration - Disable. Calibration - Save & Load. Image Measurement - Spatial Calibration. Image Measurement - Histogram. Image Measurement - Histogram Pair. Image Measurement - Mass & Moments. Image Measurement - Line Profile. Image Measurement - Radial Mass Plot. Image Measurement - Shape Analysis. Region Selection. Results. Image Measurement - Blob Analysis. Setup - Segmentation. Setup - Analysis. Customize - Derived. Customize - Constraints. Customize - Ordering. Customize - Report. Show - Results. Summary - Show - Results. One Show - Results, List. File - Save Summary Stats. File - Save Blob Stats. File - Copy Blob Stats to Black Board. File - Copy Blob Stats to Clipboard. Image Measurement - Particle Tracking. Track Individual Particles by Motion Extrapolation and Verification throughout Sequence Method. Fuzzy Evaluation of all Vectors in each Image Pair for Group Consistency Method. Track Individual Particles by Nearest Neighbor in each Image Pair Method. Setup - Analysis. Show - Results. One Show - Results, List. Customize - Report. File - Save Track Coordinates. File - Copy Track Coordinates to Black Board. File - Copy Track Coordinates to Clipboard. Example. Image Measurement - Sub-Pixel Edger. Tool Shape. Options. Results. Image Measurement - Distance & Angle Crosshairs. Distance & Angle Crosshairs - Operate. Distance & Angle Crosshairs - Calibrate. Distance & Angle Crosshairs - Options. Image Measurement - Correlation Finder. Correlation Options. Results. Image Measurement - Ellipse Filter. Setup. Results. Image Measurement - Overlays. Graphic Ruler. Graphic Protractor. Graphic Cartesian Reticle. Graphic Polar Reticle.

Image Viewer Window - Draw. Draw - Graphic Objects. Graphic Annulus. Graphic Annulus Arc. Graphic Arrow. Graphic Bezier Curve. Graphic Bezier Region. Graphic Circle. Graphic Circle Arc. Graphic Ellipse. Graphic Ellipse Arc. Graphic Elliptical Annulus. Graphic Elliptical Annulus Arc. Graphic Rectangular Frame. Graphic Line. Graphic Parallel Lines. Graphic Path Curve. Graphic Path Enclosed. Graphic Point. Graphic Points. Graphic Polygon. Graphic Polyline. Graphic Rectangle. Graphic Rectangle Array. Graphic Text. Graphic Window. Draw - Image Overlay. Draw - Paint Brush. Paint Brush - Pattern. Paint Brush - Foreground & Background. Paint Brush - Shape. Draw - Paint Fill. Graphic Manager. File - New Graphic. File - Save Graphic. File - Load Graphic. File - Export Graphic. File - Import Graphic. File - Duplicate Graphic. File - Delete Graphic. File - Exit. Graphic - List.

Image Viewer Window - Aoi. Aoi - Set Area of Interest. Aoi - Set Region of Interest. AOI/ROI Manager.

PIXCI® Image Viewer Window. File - Save/Load Frame Buffer Memory. File - Image Attributes. Capture - Live Options. Capture - Shortcuts. Capture - Adjustments. Adjust - Common Features. Adjust - Common Preset Features. Adjust - Common Camera Control Features. Adjust - Common Automatic Gain/Exposure Control (AGC) Features.

Adjust - Common Color and White Balance Features. Adjust - Common Gain & Offset Normalization Features. Adjust - More Common Features. Adjust - PIXCI® CL1, CL2, CL3SD, D, D24, D32, D3X, E1, E1DB, E4, E4DB, E8, E8DB, EB1, EB1-PoCL, EC1, ECB1, ECB1-34, ECB2, EL1, EL1DB, EL2S2, SI, S1, S2, and S4 - Common Digital Area Scan Camera Features. Adjust - PIXCI® CL1, CL2, CL3SD, D, D24, D32, D3X, E1, E1DB, E4, E4DB, E8, E8DB, EB1, EB1-PoCL, EC1, ECB1, ECB1-34, ECB2, EL1, EL1DB, EL2S2, SI, S1, S2, and S4 - Digital Camera Specifications. Adjust - PIXCI® CL1, CL2, CL3SD, D, D24, D32, D3X, E1, E1DB, E4, E4DB, E8, E8DB, EB1, EB1-PoCL, EC1, ECB1, ECB1-34, ECB2, EL1, EL1DB, EL2S2, SI, S1, S2, and S4 - Notes. Adjust - PIXCI® CL3SD/E for Basler A504K, A504kc. Adjust - PIXCI® D2X for SILICON VIDEO® 1281M, 1281C. Adjust - PIXCI® D2X for SILICON VIDEO® 1310, 1310C. Adjust - PIXCI® D2X for SILICON VIDEO® 2112, 2112C. Adjust - PIXCI® SI, S1, S2, and S4 for SILICON VIDEO® 5M10, 5C10. Adjust - PIXCI® SI for SILICON VIDEO® 642M, 642C. Adjust - PIXCI® SI, S1, S2, S4 for SILICON VIDEO® 643M, 643C. Adjust - PIXCI® SI, S1, S2, and S4 for SILICON VIDEO® 9C10. Adjust - PIXCI® SI, S1, S2, and S4 for SILICON VIDEO® 9M001, 9M001C. Adjust - PIXCI® SI, S1, S2, and S4 for SILICON VIDEO® 9T001C. Adjust - PIXCI® EB1-PoCL, SI, S1, S2, and S4 for SILICON VIDEO® 10C6, 10M6, 10C-CL, 10M-CL. Adjust - PIXCI® SI, S1, S2, and S4 for SILICON VIDEO® WGA-C, WGA-M. Adjust - PIXCI® SV2, SV3, SV4, SV5, SV5A, SV5B, SV5L. Adjust - PIXCI® SV2, SV3, SV4, SV5, SV5A, SV5B, SV5L - Analog Camera Specifications. Adjust - PIXCI® SV2, SV3, SV4, SV5, SV5A, SV5B, SV5L - Integration Features. Adjust - PIXCI® SV7. Adjust - PIXCI® SV7 - Analog Camera Specifications. Adjust - PIXCI® A310. Capture - Video to Frame Buffers. Video to Frame Buffers - Capture. Video to Frame Buffers - Capture Start/Stop Event. Video to Frame Buffers - Capture Strobe. Video to Frame Buffers - Display. Video to Frame Buffers - Time Stamp. Capture - Video to Virtual Memory. Video to Virtual Memory - Capture. Video to Virtual Memory - Capture Start/Stop Event. Video to Virtual Memory - Display. Video to Virtual Memory - Time Stamp. Capture - Video to Disk File. Video to Disk File - Capture. Video to Disk File - Capture Start/Stop Event. Video to Disk File - Capture. Video to Disk File - Display. Video to Disk File - Time Stamp. Capture - Video to Image Files. Video to Image Files - Capture File & Format. Video to Image Files - Capture. Video to Image Files - Capture Start/Stop Event. Video to Image Files - Display. Video to Image Files - Time Stamp. Video to Image Files - FTP Copy. Video to Image Files - HTTP Server. Capture - Video to StreamStar. Video to StreamStar - StreamStar. Video to StreamStar - Record. Video to StreamStar - Display. Capture - GIO Event Capture. GIO Event Capture Steps. Triggered Sequence Capture Steps. Capture - Waterfall. Capture - Frame Average. Capture - RGB Merge. Capture - Quad Pixel Merge. Quad Pixel Merge - Hitachi KP-F100-S7. Capture - Lens Control - Birger EF232. Manual Controls. Automatic Controls.

Common Topics. Mathematical Expression. String Expression. 2-D Graphs. File - Save. File - Print. Controls - Format. Controls - Color. Controls - Axis. Controls - Min/Max. Controls - Label. Controls - Probe. Controls - Reference. Stats - Descriptive. Stats - Outlier. 3-D Graphs. File - Save. File - Print. Controls - Format. Controls - Color. Controls - Labels. Pixel Values and Colors. Pick Graphics Color. Pick Pixel Value. Text Field Options. Field - Black Board Connections. Field - Big Field. Field - Cut, Copy, Paste, Delete. Numeric Field Options. Field - Base. Format. Precision & Units. Field - Increment & Decrement. Field - Scrollpad. Field - Black Board Connections. Field - Big Field. Field - Expression. Field - Cut, Copy, Paste, Delete. Field - Slider.

Utilities. Utilities - Program Setup. Program Setup - Start/End. Program Setup - Internationalization. Program Setup - E-Mail. Program Setup - GUI. Utilities - Message Log. Utilities - IO Ports. Utilities - Audio Clip. Utilities - RS-232 Terminal. RS-232 Terminal - Send/Receive. RS-232 Terminal - Setup. RS-232 Terminal - Options. RS-232 Terminal - Status. Utilities - Screen Capture. Utilities - Window Style. Window Style - Fonts. Window Style - Color. Window Style - Tiling. Window Style - Date & Time. Utilities - Devices. Devices - intralux dc-1100. Devices - Illumination Tech. 3900.

Tips. Image Display Speed & Quality. Windows and Linux System Tweaks. XCAP Tweaks.

Application Notes. Customization: Programming, Customizations, and GUIs. The Task. The Discussion. The Solution. The Example. Data Collection: Capture, Label, and Save upon RS-232 Command. The Task. The Discussion. The Solution. The Results. Data Collection: Obtain and Export Statistics about Each Image in a Sequence. The Task. The Discussion. The Solution. Data Collection: Execute Script on Triggered Video Field. The Task. The Discussion. The Solution. Data Processing: Scripts and Loops. The Task. The Discussion. The Solution. Data Processing: Time Stamp as File Name. The Task. The Discussion. The Solution. Demonstration: Animated Banners as Image Overlays. The Task. The Discussion. The Solution. Demonstration: Measurement of Liquid Level. The Task. The Discussion. The Solution. Display: Processed and Filtered Live Video. The Task. The Discussion. The Solution. Measurement: Capture, Measure, and Overlay Gauge Reading. The Task. The Discussion. The Solution. Measurement: Graphical Log. The Task. The Discussion. The Solution. Measurement: Periodic RS-232 Report. The Task. The Discussion. The Solution.

Glossary.

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XCAP™ SOFTWARE

Ready-to-Run Image Analysis Software for PIXCI® Imaging Boards

A DETAILED OVERVIEW — DIGITAL CAMERA SUPPORT

Camera	Type	Controls	Software White/Color Balance	Software AGC/AEC	Software per-Pixel Normalization	Camera	Type	Controls	Software White/Color Balance	Software AGC/AEC	Software per-Pixel Normalization						
Adimec -																	
1000c	Area Bayer	C.L. Serial	Yes	No	No	L202(L230)-4K Dual Output	Line Mono	RS-232	N/A	No	No						
1000m	Area Mono	C.L. Serial	N/A	No	No	L202(L230)-4K Single Output	Line Mono	RS-232	N/A	No	No						
RA-1000m	Area Mono	C.L. Serial	N/A	No	No	L203(L240)-4K Dual Output	Line Mono	RS-232	N/A	No	No						
A2000e/d	Area Bayer	C.L. Serial	Yes	No	No	L203(L240)-4K Single Output	Line Mono	RS-232	N/A	No	No						
A2000e/s	Area Mono	C.L. Serial	Yes	No	No	L301-1cc	RGB	C.L. Serial	Yes	No	No						
A2000m/d	Area Mono	C.L. Serial	N/A	No	No	L301-1cc-12k	Line RGB	C.L. Serial	Yes	No	No						
A2000m/s	Area Mono	C.L. Serial	N/A	No	No	L301w_B1C RGB	Line RGB	RS-232	Yes	No	No						
MX12P2x3	Area Mono	RS-232	N/A	No	No	L304kc	Line RGB	C.L. Serial	No	No	No						
MX12P8x3	Area Mono	RS-232	N/A	No	No	L401k	Line Mono	C.L. Serial	N/A	No	No						
OPAL-1000m/CL	Area Mono	C.L. Serial	N/A	No	No	L402k	Line Mono	C.L. Serial	N/A	No	No						
OPAL-1000e/CL	Area Bayer	C.L. Serial	Yes	No	No	L801k	Line Mono	C.L. Serial	N/A	No	No						
OPAL-1600m/CL	Area Mono	C.L. Serial	N/A	No	No	L802k	Line Mono	C.L. Serial	N/A	No	No						
OPAL-1600e/CL	Area Bayer	C.L. Serial	Yes	No	No	L803k	Line Mono	C.L. Serial	N/A	No	No						
OPAL-2000m/CL	Area Mono	C.L. Serial	N/A	No	No	Sprint.spL2048_39km	Line Mono	C.L. Serial	N/A	No	No						
OPAL-2000e/CL	Area Bayer	C.L. Serial	Yes	No	No	Sprint.spL2048_40km	Line Mono	C.L. Serial	N/A	No	No						
OPAL-3000m/CL	Area Mono	C.L. Serial	N/A	No	No	Sprint.spL4096_20km	Line Mono	C.L. Serial	N/A	No	No						
OPAL-3000e/CL	Area Bayer	C.L. Serial	Yes	No	No	Sprint.spL4096_39km	Line Mono	C.L. Serial	N/A	No	No						
OPAL-3000c/CL	Area Mono	C.L. Serial	N/A	No	No	Sprint.spL4096_70kc	Line RGB	C.L. Serial	No	No	No						
OPAL-3000s/CL	Area Bayer	C.L. Serial	Yes	No	No	Sprint.spL4096_70km	Line Mono	C.L. Serial	N/A	No	No						
Bonito CMC-4000	Area Mono	C.L. Serial	N/A	No	No	Sprint.spL4096_140km	Line Mono	C.L. Serial	N/A	No	No						
Bonito CMC-4000C	Area Bayer	C.L. Serial	Yes	No	No	Basler (continued) -											
Amber -						L202(L230)-4K Dual Output	Line Mono	RS-232	N/A	No	No						
AE4128	Area Mono	RS-232	N/A	No	No	L202(L230)-4K Single Output	Line Mono	RS-232	N/A	No	No						
AE4256	Area Mono	RS-232	N/A	No	No	L203(L240)-4K Dual Output	Line Mono	RS-232	N/A	No	No						
Aptina -						L203(L240)-4K Single Output	Line Mono	RS-232	N/A	No	No						
MT9J001	Area Mono	FC Serial	N/A	No	Yes	L801k	Line Mono	C.L. Serial	N/A	No	No						
MT9J001C	Area Bayer	FC Serial	Yes	No	Yes	L802k	Line Mono	C.L. Serial	N/A	No	No						
MT9N001C	Area Bayer	FC Serial	Yes	No	Yes	L803k	Line Mono	C.L. Serial	N/A	No	No						
MT9V032	Area Mono	FC Serial	N/A	No	Yes	Sprint.spL2048_39km	Line Mono	C.L. Serial	N/A	No	No						
MT9V032C	Area Bayer	FC Serial	Yes	No	No	Sprint.spL2048_40km	Line Mono	C.L. Serial	N/A	No	No						
Atmel -						Sprint.spL4096_20km	Line Mono	C.L. Serial	N/A	No	No						
ATMOS IM30	Area Mono	C.L. Serial	N/A	No	No	Sprint.spL4096_39km	Line Mono	C.L. Serial	N/A	No	No						
ATMOS IM40	Area Mono	C.L. Serial	N/A	No	No	Sprint.spL4096_70kc	Line Mono	C.L. Serial	N/A	No	No						
ATMOS 2x40	Area Mono	C.L. Serial	N/A	No	No	Sprint.spL4096_70km	Line Mono	C.L. Serial	N/A	No	No						
ATMOS 2x40	Area Mono	C.L. Serial	N/A	No	No	Sprint.spL4096_140km	Line Mono	C.L. Serial	N/A	No	No						
AViVA C2 CL_4010	Line Mono	C.L. Serial	N/A	No	No	Baumer -											
AViVA M4 CL_2048	Line Mono	C.L. Serial	N/A	No	No	HXC13	Area Mono	C.L. Serial	N/A	No	Yes						
AViVA M4 CL_6144	Line Mono	C.L. Serial	N/A	No	No	HXC20	Area Mono	C.L. Serial	Yes	No	No						
AViVA M4 CL_8192	Line Mono	C.L. Serial	N/A	No	No	HXC40	Area Mono	C.L. Serial	N/A	No	No						
AViVA SC CL_4010	Line RGB	C.L. Serial	No	No	No	HXC40e	Area Bayer	C.L. Serial	Yes	No	No						
Camelia 4M	Area Mono	RS-232	N/A	No	No	SXCV1	Area Mono	C.L. Serial	N/A	No	No						
Camelia 4M Bayer	Area Bayer	RS-232	Yes	No	No	SXCV20	Area Mono	C.L. Serial	N/A	No	No						
Camelia C1 CL_8M	Area Bayer	C.L. Serial	Yes	No	No	SXCV21	Area Mono	C.L. Serial	N/A	No	No						
Camelia C1 LV 8M	Area Bayer	RS-232	Yes	No	No	SXCV40	Area Mono	C.L. Serial	N/A	No	No						
Camelia M1 CL_8M	Area Mono	C.L. Serial	N/A	No	No	SXCV80	Area Mono	C.L. Serial	N/A	No	No						
Camelia M1 LV 8M	Area Mono	RS-232	N/A	No	No	BioPhotonics -											
78048A	Area Mono	None	N/A	No	No	Qmax 650	Area Mono	RS-232	N/A	No	No						
TH77CA13	Line Mono	RS-232	N/A	No	No	Chronicle -											
TH77CA14	Line Mono	RS-232	N/A	No	No	CH5001	Area Mono/YUV	None	N/A	No	No						
TH77CA15	Line Mono	RS-232	N/A	No	No	CH5002	Area Mono/YUV	None	N/A	No	No						
Basier -						CIS -											
A101(A113) & A101-P	Area Mono	RS-232	N/A	No	No	VCC-F32S29CL_Bayer Mode	Area Bayer	C.L. Serial	Yes	No	No						
A101-C(A113-C) & A101-CP	Area Bayer	RS-232	Yes	No	No	VCC-F32S29CL_RGB Mode	Area RGB	C.L. Serial	Yes	No	No						
A101-C(P)(A113-C) w. Toucan	Area RGB	RS-232	No	No	No	VCC-G22V31PC1	Area Mono	C.L. Serial	N/A	No	No						
A102k	Area Mono	RS-232	N/A	No	No	VCC-G32S11CL	Area Mono	C.L. Serial	N/A	No	No						
A201(A210) Dual Output	Area Mono	RS-232	N/A	No	No	CMOS Sensor -											
A201b	Area Mono	RS-232	N/A	No	No	i-cis S-206-0250	Line Mono	C.L. Serial	N/A	No	Yes						
A202bc	Area Bayer	RS-232	N/A	No	No	i-cis S-206-0520	Line Mono	C.L. Serial	N/A	No	Yes						
A202b-1	Area RGB	RS-232	No	No	No	CTEC Photonics -											
A202 One Tap w. Toucan	Area Mono	C.L. Serial	N/A	No	No	L700	Area Mono	None	N/A	No	No						
A202K	Area Mono	C.L. Serial	N/A	No	No	6012RGB	Area Bayer	None	N/A	No	No						
A301bC	Area Bayer	C.L. Serial	Yes	No	No	7500	Area Mono	RS-232	N/A	No	No						
A301bc	Area Mono	C.L. Serial	N/A	No	No	7500-CL	Area Mono	C.L. Serial	Yes	No	No						
A301k	Area Mono	C.L. Serial	N/A	No	No	7700/7722-CL	Area Bayer	C.L. Serial	Yes	No	No						
A301kc	Area Bayer	C.L. Serial	Yes	No	No	7800/7820-CL	Area Mono	C.L. Serial	Yes	No	No						
A302b	Area Mono	C.L. Serial	N/A	No	No	7800/7840-CL	Area Bayer	C.L. Serial	Yes	No	No						
A302bc	Area Bayer	C.L. Serial	Yes	No	No	7800/7830-CL	Area Mono	C.L. Serial	N/A	No	No						
A302k	Area Mono	C.L. Serial	N/A	No	No	7800/7870-CL	Area Mono	C.L. Serial	Yes	No	No						
A302kc	Area Mono	C.L. Serial	N/A	No	No	7800/7890-CL	Area Mono	C.L. Serial	Yes	No	No						
A302kc	Area Bayer	C.L. Serial	Yes	No	No	7900/7920-CL	Area Mono	C.L. Serial	Yes	No	No						
A402k	Area Mono	C.L. Serial	N/A	No	No	7900/7910-CL	Area Mono	C.L. Serial	N/A	No	No						
A403k	Area Mono	C.L. Serial	N/A	No	No	Cooke -											
A404k	Area Mono	C.L. Serial	N/A	No	No	PICO Edge	Area Mono	C.L. Serial	N/A	No	No						
A404kc	Area Bayer	C.L. Serial	Yes	No	No	Cypress -	Area Mono	C.L. Serial	N/A	No	No						
A406kc	Area Mono	C.L. Serial	N/A	No	No	HAS2	Area Mono	FC Serial	N/A	No	Yes						
A406kc	Area Bayer	C.L. Serial	Yes	No	No	LUPA-300	Area Mono	FC Serial	N/A	No	Yes						
A501k	Area Mono	C.L. Serial	N/A	No	No	LUPA-300RGB	Area Bayer	FC Serial	Yes	No	Yes						
A501kc	Area Bayer	C.L. Serial	Yes	No	No	Dage-MTI -											
A504k	Area Mono	C.L. Serial	N/A	No	No	IFG-300	Area Mono	RS-232	N/A	No	No						
A504kc	Area Mono	C.L. Serial	Yes	No	No	Dalsa -											
Ace sC2000-40km	Area Mono	C.L. Serial	N/A	No	No	I2M8-S8	Area Mono	C.L. Serial	N/A	No	No						
Ace sC2000-40km	Area Mono	C.L. Serial	N/A	No	No	I1M75-S8	Area Mono	C.L. Serial	N/A	No	No						
Ace sC2040-70km	Area Mono	C.L. Serial	N/A	No	No	I1M150-SA	Area Mono	C.L. Serial	N/A	No	No						
Ace sC2040-180km	Area Mono	C.L. Serial	N/A	No	No	CL-C3-0256A	Line Mono	PIXCI® signals	N/A	No	No						
Ace sC2040-140kc	Area Bayer	C.L. Serial	Yes	No	No	CL-C3-0256N	Line Mono	PIXCI® signals	N/A	No	No						
Ace sC2040-340kc	Area Bayer	C.L. Serial	Yes	No	No	CL-C3-0256P	Line Mono	PIXCI® signals	N/A	No	No						
Ace sC2040-70kc	Area Mono	C.L. Serial	N/A	No	No	CL-C4-0256A	Line Mono	PIXCI® signals	N/A	No	No						
Ace sC2040-180kc	Area Mono	C.L. Serial	N/A	No	No	CL-C4-0256N	Line Mono	PIXCI® signals	N/A	No	No						
Ace sC2040-140kc	Area Mono	C.L. Serial	N/A	No	No	CL-C4-0256P	Line Mono	PIXCI® signals	N/A	No	No						
Ace sC2040-200kc	Area Mono	C.L. Serial	N/A	No	No	CL-C4-0512A	Line Mono	PIXCI® signals	N/A	No	No						
Ace sC2040-70kc	Area Mono	C.L. Serial	N/A	No	No	CL-C4-0512N	Line Mono	PIXCI® signals	N/A	No	No						
Ace sC2040-180kc	Area Mono	C.L. Serial	N/A	No	No	CL-C4-0512P	Line Mono	PIXCI® signals	N/A	No	No						
Ace sC2040-200kc	Area Mono	C.L. Serial	N/A	No	No	CL-C4-1024A	Line Mono	PIXCI® signals	N/A	No	No						
Ace sC2040-140kc	Area Mono	C.L. Serial	N/A	No	No	CL-C4-1728A	Line Mono	PIXCI® signals	N/A	No	No						
Ace sC2040-1600kc	Area Mono	C.L. Serial	N/A	No	No	CL-C4-1728N	Line Mono	PIXCI® signals	N/A	No	No						
Ace sC2040-1900kc	Area Mono	C.L. Serial	Yes	No	No	CL-C4-2048A	Line Mono	PIXCI® signals	N/A	No	No						
Ace sC2040-1900kc	Area Mono	C.L. Serial	Yes	No	No	CL-C4-2048N	Line Mono	PIXCI® signals	N/A	No	No						
Ace sC2040-2300km	Area Mono	C.L. Serial	N/A	No	No	CL-C5-2048A	Line Mono	PIXCI® signals	N/A	No	No						
Ace sC2040-2300km	Area Mono	C.L. Serial	Yes	No	No	CL-C6-2048A	Line Mono	PIXCI® signals	N/A	No	No						
L50	Line Mono	PINXCI® signals	N/A	No	No	CL-C6-2048T	Line Mono	PIXCI® signals	N/A	No	No						
L75	Line Mono	RS-232	N/A	No	No	CL-C7-3456A	Line Mono	PIXCI® signals	N/A	No	No						
L101(L120) 1K Dual Output	Line Mono	RS-232	N/A	No	No	CL-C7-3456N	Line Mono	PIXCI® signals	N/A	No	No						
L101(L120) 1K Single Output	Line Mono	RS-232	N/A	No	No	CL-C7-4096A	Line Mono	PIXCI® signals	N/A	No	No						
L101(L120) 2K Dual Output	Line Mono	RS-232	N/A	No	No	CL-C7-4096N	Line Mono	PIXCI® signals	N/A	No	No						
L101(L120) 2K Single Output	Line Mono	RS-232	N/A	No	No	CL-C8-6000A	Line Mono	PIXCI® signals	N/A	No	No						
L101K-1K	Line Mono	RS-232	N/A	No	No	CL-C8-6000N	Line Mono	PIXCI® signals	N/A	No	No						
L101K-2K	Line Mono	C.L. Serial	N/A	No	No	CL-C8-6000P	Line Mono	PIXCI® signals	N/A	No	No						
L102(L130) 1K Dual Output	Line Mono	RS-232	N/A	No	No	CL-C8-0512A	Line Mono	PIXCI® signals	N/A	No	No						
L102(L130) 1K Single Output	Line Mono	RS-232	N/A	No	No</												

XCAP™ SOFTWARE

Ready-to-Run Image Analysis Software for PIXCI® Imaging Boards

A DETAILED OVERVIEW — DIGITAL CAMERA SUPPORT (continued)

Camera	Type	Controls	Software White/Color Balance	Software AGC/AEC	Software per-Pixel Normalization	Camera	Type	Controls	Software White/Color Balance	Software AGC/AEC	Software per-Pixel Normalization						
Dalsa (continued) -																	
CL-F2-1024A	Line Mono	PIXCI® signals	N/A	No	No	AViiVA M2 CL 0514	Line Mono	C.I. Serial	N/A	No	No						
CL-F2-2048A	Line Mono	PIXCI® signals	N/A	No	No	AViiVA M2 CL 1010	Line Mono	C.I. Serial	N/A	No	No						
CL-P1-0512	Line Mono	PIXCI® signals	N/A	No	No	AViiVA M2 CL 1014	Line Mono	C.I. Serial	N/A	No	No						
CL-P1-1024	Line Mono	PIXCI® signals	N/A	No	No	AViiVA M2 CL 2010	Line Mono	C.I. Serial	N/A	No	No						
CL-P1-2048	Line Mono	PIXCI® signals	N/A	No	No	AViiVA M2 CL 2014	Line Mono	C.I. Serial	N/A	No	No						
CL-P1-4096	Line Mono	PIXCI® signals	N/A	No	No	AViiVA M2 CL 4010	Line Mono	C.I. Serial	N/A	No	No						
CL-P4-1144(CL-P4-6144W)	Line Mono	PIXCI® signals	N/A	No	No	AViiVA SM2 CL 0514	Line Mono	C.I. Serial	N/A	No	No						
CL-P4-8192(CL-P4-8192W)	Line Mono	PIXCI® signals	N/A	No	No	AViiVA SM2 CL 1010	Line Mono	C.I. Serial	N/A	No	No						
CL-T5-1024	Line RGB	PIXCI® signals	No	No	No	AViiVA SM2 CL 1014	Line Mono	C.I. Serial	N/A	No	No						
CL-T5-2048	Line RGB	PIXCI® signals	No	No	No	AViiVA SM2 CL 2010	Line Mono	C.I. Serial	N/A	No	No						
CL-T7-1024	Line RGB	PIXCI® signals	No	No	No	AViiVA SM2 CL 2014	Line Mono	C.I. Serial	N/A	No	No						
CL-T7-2048	Line RGB	PIXCI® signals	No	No	No	AViiVA SM2 CL 4010	Line Mono	C.I. Serial	N/A	No	No						
CT-E1-0512A	Line Mono	PIXCI® signals	N/A	No	No	e2v -											
CT-E2-0512A	Line Mono	PIXCI® signals	N/A	No	No	LD2002 1 chan.	Line Mono	RS-232	N/A	No	No	No					
CT-E4-0512(CL-E4-2048W)	Line Mono	PIXCI® signals	N/A	No	No	LD2002 2 chan.	Line Mono	RS-232	N/A	No	No	No					
CT-F1-04096(CL-E4-4096W)	Line Mono	PIXCI® signals	N/A	No	No	LD2005 1 chan.	Line Mono	RS-232	N/A	No	No	No					
CT-F3-04096	Line Mono	PIXCI® signals	N/A	No	No	LD2005 2 chan.	Line Mono	RS-232	N/A	No	No	No					
CT-P1-1024(CL-P1-1024W)	Line Mono	PIXCI® signals	N/A	No	No	LD2010 1 chan.	Line Mono	RS-232	N/A	No	No	No					
CT-P1-2048(CL-P1-2048W)	Line Mono	PIXCI® signals	N/A	No	No	LD2010 2 chan.	Line Mono	RS-232	N/A	No	No	No					
CT-P1-4096(CL-P1-4096W)	Line Mono	PIXCI® signals	N/A	No	No	LD2020 2 chan.	Line Mono	RS-232	N/A	No	No	No					
CT-P4-1144(CL-P4-6144W)	Line Mono	PIXCI® signals	N/A	No	No	LD2040 1 chan.	Line Mono	RS-232	N/A	No	No	No					
CT-P4-8192(CL-P4-8192W)	Line Mono	PIXCI® signals	N/A	No	No	LD2040 2 chan.	Line Mono	RS-232	N/A	No	No	No					
EC-11-01kA	Line Mono	PIXCI® signals	N/A	No	No	LD2060 1 chan.	Line Mono	RS-232	N/A	No	No	No					
EC-11-02kA	Line Mono	PIXCI® signals	N/A	No	No	LD2080 1 chan.	Line Mono	RS-232	N/A	No	No	No					
Falcon PT-A1-01M100	Area Mono	C.I. Serial	N/A	No	No	LD2080 2 chan.	Line Mono	RS-232	N/A	No	No	No					
Falcon PT-21-04N430	Area Mono	C.I. Serial	N/A	No	No	MD4043	Area Mono	None	N/A	No	No	No					
Falcon PT-22-04N430	Area Bayer	C.I. Serial	Yes	No	No	YD5910	Line RGB	C.I. Serial	N/A	No	No	No					
Falcon PT-41-04N160	Area Mono	C.I. Serial	N/A	No	No	YD5920	Line RGB	C.I. Serial	N/A	No	No	No					
Falcon PT-42-04N160	Area Bayer	C.I. Serial	Yes	No	No	YD5940	Line RGB	C.I. Serial	N/A	No	No	No					
Pantera DS-21-01M130	Area Mono	C.I. Serial	N/A	No	No	YD5960	Line RGB	C.I. Serial	N/A	No	No	No					
Pantera DS-21-01M60	Area Mono	C.I. Serial	N/A	No	No	Eastman Kodak -											
Pantera DS-21-04M15	Area Mono	C.I. Serial	N/A	No	No	KAC-0310	Area Mono	I.C Serial	N/A	No	Yes						
Pantera PT-21-06M08	Area Mono	C.I. Serial	N/A	No	No	KAC-0310C	Area Bayer	I.C Serial	Yes	No	Yes						
Piranha HS-4X-02K30	Line Mono	C.I. Serial	N/A	No	No	KAC-1310	Area Mono	I.C Serial	N/A	No	Yes						
Piranha PC-30-04K30	Line RGB	C.I. Serial	No	No	No	KAC-1310C	Area Bayer	I.C Serial	Yes	No	Yes						
Piranha PC-30-04K30	Line RGB	C.I. Serial	No	No	No	FastVideo -											
Piranha PC-30-04K30	Line RGB	C.I. Serial	No	No	No	LUPA300	Area Mono	None	N/A	No	No	No					
Piranha PC-30-04K30	Line RGB	C.I. Serial	No	No	No	Focus -											
Piranha P2-4X-02K40	Line Mono	C.I. Serial	N/A	No	No	FI-HR-2	Area Mono	RS-232	N/A	No	No	No					
Piranha P2-4X-04K40	Line Mono	C.I. Serial	N/A	No	No	FI-HR-2C	Area Bayer	RS-232	Yes	No	No	No					
Piranha P2-4X-06K40	Line Mono	C.I. Serial	N/A	No	No	FI-HR-M	Area Mono	RS-232	N/A	No	No	No					
Piranha P2-4X-08K40	Line Mono	C.I. Serial	N/A	No	No	FI-HR-RGB	Area Bayer	RS-232	Yes	No	No	No					
Piranha P2-21-1024	Line Mono	C.I. Serial	N/A	No	No	Foveon -											
Piranha P2-21-2048	Line Mono	C.I. Serial	N/A	No	No	Foveon FI 3 DevCam	Area RGB	C.I. Serial	Yes	No	Yes						
Piranha P2-21-4096	Line Mono	C.I. Serial	N/A	No	No	Gigaphoton -											
Piranha P2-21-6144	Line Mono	C.I. Serial	N/A	No	No	Gigaphoton-256	Line Mono	PIXCI signals	N/A	No	No	No					
Piranha P2-21-8192	Line Mono	C.I. Serial	N/A	No	No	Gigaphoton-512	Line Mono	PIXCI signals	N/A	No	No	No					
SP-11-01kA	Line Mono	PIXCI® signals	N/A	No	No	Gigaphoton-1024	Line Mono	PIXCI signals	N/A	No	No	No					
SP-11-02kA	Line Mono	PIXCI® signals	N/A	No	No	Goodrich Sensors Unlimited -											
SP-11-02K40	Line Mono	PIXCI® signals	N/A	No	No	SU128	Area Mono	Switches	N/A	No	No	No					
SP-11-05H30	Line Mono	PIXCI® signals	N/A	No	No	SU320	Area Mono	Switches	N/A	No	No	No					
SP-11-05H40	Line Mono	PIXCI® signals	N/A	No	No	SU320M	Area Mono	RS-232	N/A	No	No	No					
SP-13-02K30	Line Mono	PIXCI® signals	N/A	No	No	SU640	Area Mono	Switches	N/A	No	No	No					
SP-14-01K30	Line Mono	PIXCI® signals	N/A	No	No	SU640SDV	Area Mono	C.I. Serial	N/A	No	No	No					
SP-14-01K40	Line Mono	PIXCI® signals	N/A	No	No	SU640SDV-II	Area Mono	C.I. Serial	N/A	No	No	No					
Hamamatsu -												Hittachi -					
SP-14-02K30	Line Mono	PIXCI® signals	N/A	No	No	DDX-101	Area RGB	C.I. Serial	Yes	No	No	No					
SP-14-05H30	Line Mono	PIXCI® signals	N/A	No	No	DDX-101M	Area RGB	RS-232	Yes	No	No	No					
SP-14-05H40	Line Mono	PIXCI® signals	N/A	No	No	HDVU-01-10M (HDVU03)	Area RGB	C.I. Serial	Yes	No	No	No					
SPyder S2-1x-01K40	Line Mono	C.I. Serial	N/A	No	No	HDVU-01-10M-CL	Area RGB	C.I. Serial	Yes	No	No	No					
SPyder S2-1x-02K40	Line Mono	C.I. Serial	N/A	No	No	HDVU-01-10M-CL	Line Mono	None	N/A	No	No	No					
SPyder S2-2x-04K40	Line Mono	C.I. Serial	N/A	No	No	HamVision -											
TR31-01K25	Line RGB	RS-232	No	No	No	HDVU-01-10M-SM	Area RGB	C.I. Serial	Yes	No	No	No					
TR31-01K25 10 Bit	Line RGB	RS-232	No	No	No	HDVU-01-10M-SM	Area RGB	RS-232	Yes	No	No	No					
TR31-02K25	Line RGB	RS-232	No	No	No	HDVU-01-10M-CL	Area RGB	C.I. Serial	Yes	No	No	No					
TR31-02K25 10 Bit	Line RGB	RS-232	No	No	No	HDVU-01-10M-CL	Line Mono	None	N/A	No	No	No					
TR31-02K25 10 Bit	Line RGB	RS-232	No	No	No	Hittachi -											
TR33-02K25	Line RGB	RS-232	No	No	No	DDX-101	Area RGB	RS-232	No	No	No	No					
TR34-01K25	Line RGB	RS-232	No	No	No	DDX-101M	Area Mono	C.I. Serial	N/A	No	No	No					
TR34-01K25	Line RGB	RS-232	No	No	No	FR305CL	Area Mono	RS-232	N/A	No	No	No					
TR34-02K25	Line RGB	RS-232	No	No	No	FR305CL	Area Mono	RS-232	N/A	No	No	No					
TR35-01K25	Line RGB	RS-232	No	No	No	FR305CL	Area Mono	RS-232	N/A	No	No	No					
TR35-02K25	Line RGB	RS-232	No	No	No	FR305CL	Area Mono	RS-232	N/A	No	No	No					
Dalsa(SMD) -												Hitachi -					
IM30P	Area Mono	RS-232	N/A	No	No	FR305CL	Area Mono	RS-232	N/A	No	No	No					
IM30PC	Area Bayer	RS-232	Yes	No	No	FR305CL	Area Mono	RS-232	N/A	No	No	No					
IM30TC	Area Bayer	RS-232	Yes	No	No	FR305CL	Area Mono	RS-232	N/A	No	No	No					
IM160	Area Mono	RS-232	N/A	No	No	FR305CL	Area Mono	RS-232	N/A	No	No	No					
4N4	Area Mono	RS-232	N/A	No	No	FR305CL	Area Mono	RS-232	N/A	No	No	No					
4N15	Area Mono	RS-232	N/A	No	No	FR305CL	Area Mono	RS-232	N/A	No	No	No					
6N1EP	Area Mono	RS-232	N/A	No	No	FR305CL	Area Mono	RS-232	N/A	No	No	No					
6N1PC	Area Mono	RS-232	N/A	No	No	FR305CL	Area Mono	RS-232	N/A	No	No	No					
64K1M	Area Mono	RS-232	N/A	No	No	FR305CL	Area Mono	RS-232	N/A	No	No	No					
B725	Area Mono	RS-232	N/A	No	No	FR305CL	Area Mono	RS-232	N/A	No	No	No					
DS-1x-01M15(1M15)	Area Mono	RS-232	N/A	No	No	FR305CL	Area Mono	RS-232	N/A	No	No	No					
DS-1x-01M30(1M30)	Area Mono	RS-232	N/A	No	No	FR305CL	Area Mono	RS-232	N/A	No	No	No					
DS-1x-04M4(4M4)	Area Mono	RS-232	N/A	No	No	FR305CL	Area Mono	RS-232	N/A	No	No	No					
DS-1x-06M3(6M3P)	Area Mono	RS-232	N/A	No	No	FR305CL	Area Mono	RS-232	N/A	No	No	No					
DVC -												HamVision -					
DVC-08	Area Mono	None	N/A	No	No	MMV-1020	Area Mono	C.I. Serial	N/A	No	No	No					
DVC-10	Area Mono	None	N/A	No	No	MMV-1020C	Area Mono	C.I. Serial	Yes	No	No	No					
DVC-1300C-RS-232	Area Bayer	RS-232	Yes	Yes	No	MMV-11000	Area Mono	C.I. Serial	N/A	No	No	No					
DVC-1300C w/o RS-232	Area Bayer	Switches	Yes	No	No	MMV-11000C	Area Mono	C.I. Serial	Yes	No	No	No					
DVC-1300-RS-232	Area Mono	RS-232	N/A	Yes	No	MMV-11000C	Area Mono	C.I. Serial	N/A	No	No	No					
DVC-1300C w/o RS-232	Area Mono	Switches	N/A	Yes	No	XMV-11000	Area Mono	C.I. Serial	N/A	No	No	No					
DVC-1310	Area Mono	RS-232	N/A	Yes	No	HamVision -											
DVC-1310AC	Area Mono	RS-232	Yes	Yes	No	IMPERX -	Bobcat ICL-B0610C	C.I. Serial	Yes	No	No	No					
DVC-1310AC-CL	Area Bayer	C.I. Serial	Yes	Yes	No	Bobcat ICL-B0610M	Area Mono	C.I. Serial	N/A	No	No	No					
DVC-1310AM	Area Mono	RS-232	N/A	Yes	No	Bobcat ICL-B0620C	Area Mono	C.I. Serial	Yes	No	No	No					
DVC-1310																	

XCAP™ SOFTWARE

Ready-to-Run Image Analysis Software for PIXCI® Imaging Boards

A DETAILED OVERVIEW — DIGITAL CAMERA SUPPORT (continued)

Camera	Type	Controls	Software White/Color Balance	Software AGC/AEC	Software Gain/Offset Normalization	Camera	Type	Controls	Software White/Color Balance	Software AGC/AEC	Software per-Pixel Normalization	
IMPERX -												
Boheat ICL-B0620M	Area Mono	C.L. Serial	N/A	No	No	Mikrotron -	MC1310	Area Mono	C.L. Generic	N/A	No	No
Boheat ICL-B1020M	Area Mono	C.L. Serial	N/A	No	No	MC1311	Area Bayer	C.L. Generic	Yes	No	Yes	
Boheat ICL-B1020C	Area Bayer	C.L. Serial	Yes	No	No	MC1360	Area Mono	C.L. Serial	N/A	No	Yes	
Boheat ICL-B1310M	Area Mono	C.L. Serial	N/A	No	No	MC1361	Area Bayer	C.L. Serial	Yes	No	Yes	
Boheat ICL-B1310C	Area Bayer	C.L. Serial	Yes	No	No	MC1362	Area Mono	C.L. Serial	N/A	No	Yes	
Boheat ICL-B1320M	Area Mono	C.L. Serial	N/A	No	No	MC1363	Area Bayer	C.L. Serial	Yes	No	Yes	
Boheat ICL-B1320C	Area Bayer	C.L. Serial	Yes	No	No							
Boheat ICL-B1410C	Area Bayer	C.L. Serial	Yes	No	No							
Boheat ICL-B1410M	Area Mono	C.L. Serial	N/A	No	No							
Boheat ICL-B1411M	Area Mono	C.L. Serial	N/A	No	No							
Boheat ICL-B1411C	Area Bayer	C.L. Serial	Yes	No	No							
Boheat ICL-B1610C	Area Bayer	C.L. Serial	Yes	No	No							
Boheat ICL-B1610M	Area Mono	C.L. Serial	N/A	No	No							
Boheat ICL-B1620C	Area Bayer	C.L. Serial	Yes	No	No							
Boheat ICL-B1620M	Area Mono	C.L. Serial	N/A	No	No							
Boheat ICL-B1621M	Area Mono	C.L. Serial	N/A	No	No							
Boheat ICL-B1621C	Area Bayer	C.L. Serial	Yes	No	No							
Boheat ICL-B1920C	Area Mono	C.L. Serial	Yes	No	No							
Boheat ICL-B1920M	Area Mono	C.L. Serial	N/A	No	No							
Boheat ICL-B1921M	Area Mono	C.L. Serial	N/A	No	No							
Boheat ICL-B1921C	Area Bayer	C.L. Serial	Yes	No	No							
Boheat ICL-B2020C	Area Bayer	C.L. Serial	Yes	No	No							
Boheat ICL-B2020M	Area Mono	C.L. Serial	N/A	No	No							
Boheat ICL-B2320M	Area Mono	C.L. Serial	N/A	No	No							
Boheat ICL-B2320C	Area Bayer	C.L. Serial	Yes	No	No							
Boheat ICL-B2520M	Area Mono	C.L. Serial	N/A	No	No							
Boheat ICL-B2520C	Area Mono	C.L. Serial	Yes	No	No							
Boheat ICL-B3220M	Area Mono	C.L. Serial	N/A	No	No							
Boheat ICL-B3220C	Area Bayer	C.L. Serial	Yes	No	No							
Boheat ICL-B4020C	Area Bayer	C.L. Serial	Yes	No	No							
Boheat ICL-B4020M	Area Mono	C.L. Serial	N/A	No	No							
Boheat ICL-B4820M	Area Mono	C.L. Serial	N/A	No	No							
Boheat ICL-B4820C	Area Bayer	C.L. Serial	Yes	No	No							
Boheat ICL-B4821M	Area Mono	C.L. Serial	N/A	No	No							
Boheat ICL-B4821C	Area Bayer	C.L. Serial	Yes	No	No							
Boheat ICL-B6620M	Area Mono	C.L. Serial	N/A	No	No							
Boheat ICL-B6620C	Area Bayer	C.L. Serial	Yes	No	No							
Lynx IPK-1M48	Area Mono	C.L. Serial	N/A	No	No							
Lynx IPK-1M48C	Area Mono	C.L. Serial	Yes	No	No							
Lynx IPK-1M48-L	Area Mono	C.L. Serial	N/A	No	No							
Lynx IPK-1M48-CL	Area Bayer	C.L. Serial	Yes	No	No							
Lynx IPK-2M30H	Area Mono	C.L. Serial	N/A	No	No							
Lynx IPK-2M30L	Area Mono	C.L. Serial	N/A	No	No							
Lynx IPK-2M30LC	Area Bayer	C.L. Serial	Yes	No	No							
Lynx IPK-4M15-L	Area Mono	C.L. Serial	N/A	No	No							
Lynx IPK-4M15-CL	Area Bayer	C.L. Serial	Yes	No	No							
Lynx IPK-1M5L	Area Mono	C.L. Serial	N/A	No	No							
Lynx IPK-1M5C	Area Mono	C.L. Serial	Yes	No	No							
Lynx IPK-1M63-L	Area Mono	C.L. Serial	N/A	No	No							
Lynx IPK-1M63C	Area Bayer	C.L. Serial	Yes	No	No							
Lynx IPK-XGA120L	Area Mono	C.L. Serial	N/A	No	No							
Lynx IPK-XGA120CL	Area Bayer	C.L. Serial	Yes	No	No							
Lynx IPK-XGA210	Area Mono	C.L. Serial	N/A	No	No							
Lynx IPK-XGA210L	Area Mono	C.L. Serial	Yes	No	No							
Lynx IPK-XGA210LC	Area Mono	C.L. Serial	N/A	No	No							
MDC-1004 (MDC-MICL01)	Area Mono	C.L. Serial	N/A	No	No							
MDC-1004C (MDC-CICL01)	Area Bayer	C.L. Serial	Yes	No	No							
Indigo -												
Alpha NIR	Area Mono	RS-232	N/A	No	No							
Phoenix-RTE	Area Mono	None	N/A	No	No							
Inframetrics -												
760	Area Mono	None	N/A	No	No							
Intevac -												
MicroVista	Area Mono	C.L. Serial	N/A	No	No							
INTRON -												
12	Area Mono	RS-232	N/A	No	No							
12C	Area Bayer	RS-232	Yes	No	No							
ISV! -												
IC-C05HCM	Area Bayer	C.L. Serial	Yes	No	Yes							
IC-C10HCM	Area Bayer	C.L. Serial	Yes	No	Yes							
IC-M15HFM	Area Mono	C.L. Serial	N/A	No	Yes							
IC-C15HFM	Area Bayer	C.L. Serial	Yes	No	Yes							
IC-M25HFM	Area Mono	C.L. Serial	N/A	No	Yes							
IC-C25HFM	Area Bayer	C.L. Serial	Yes	No	Yes							
Jai -												
CV-107CL	Line RGB	C.L. Serial	No	No	No							
CV-M2CL	Area Mono	C.L. Serial	N/A	No	No							
CV-M4	Area Mono	None	N/A	No	No							
CV-M4+CL	Area Mono	C.L. Serial	N/A	No	No							
CV-M4CL	Area Mono	C.L. Serial	N/A	No	No							
CV-M8CL	Area Mono	C.L. Serial	N/A	No	No							
CV-M8CL	Area Bayer	C.L. Serial	Yes	No	No							
CM-140MCL/PMCL	Area Mono	C.L. Serial	N/A	No	No							
CM-140MCL/PMCL	Area Bayer	C.L. Serial	Yes	No	No							
CM-200MCL/PMCL	Area Mono	C.L. Serial	N/A	No	No							
CM-200MCL/PMCL	Area Bayer	C.L. Serial	Yes	No	No							
JAI(Pulinx) -												
TM-1000	Area Mono	Switches	N/A	No	No							
TM-1010	Area Mono	None	N/A	No	No							
TM-1020-1S	Area Mono	RS-232	N/A	No	No							
TM-1020-1SC	Area Mono	C.L. Serial	N/A	No	No							
TM-1040	Area Mono	RS-232	N/A	No	No							
TM-1040-1SC	Area Mono	C.L. Serial	N/A	No	No							
TM-1325-CL	Area Mono	C.L. Serial	N/A	No	No							
TM-1400-CL	Area Mono	C.L. Serial	N/A	No	No							
TM-2010-8CL	Area Mono	C.L. Serial	N/A	No	No							
TM-4100CL	Area Mono	C.L. Serial	N/A	No	No							
TM-4200CL	Area Mono	C.L. Generic	No	No	No							
TM-4700CL	Area Mono	C.L. Serial	N/A	No	No							
TM-6710	Area Mono	RS-232	N/A	No	No							
TM-6710-CL	Area Mono	C.L. Serial	N/A	No	No							
TM-6740CL	Area Mono	C.L. Serial	N/A	No	No							
TM-6760-CL	Area Mono	C.L. Serial	N/A	No	No							
TM-6770	Area Mono	RS-232	N/A	No	No							
JAI(Pulux) -												
TMC-1020-1CL	Area Bayer	C.L. Serial	Yes	No	No							
TMC-1220-15	Area Bayer	RS-232	Yes	No	No							
TMC-1320-15CL	Area Bayer	C.L. Serial	Yes	No	No							
TMC-1400-1CL	Area Bayer	C.L. Serial	Yes	No	No							
TMC-1400-CL	Area Bayer	C.L. Serial	Yes	No	No							
TMC-4100CL	Area Bayer	C.L. Serial	Yes	No	No							
TMC-6700CL	Area RGB	C.L. Serial	No	No	No							
TMC-6760-CL	Area Bayer	C.L. Serial	Yes	No	No							
TMC-9700	Area RGB	RS-232	No	No	No							
LORD Imaging -												
DVL5000T	Line Mono	C.L. Generic	N/A	No	No							
Microsemi -												
DT1100	Area RGB	RS-232	No	No	No							
MS3100-RGB	Area RGB	RS-232	No	No	No							
MS3100-RGB(CL)	Area RGB	C.L. Serial	No	No	No							
RH1100	Area RGB	RS-232	No	No	No							
Rohde & Schwarz -												
Redlake (DuncanTech) -												
DT1100	Area RGB	RS-232	No	No	No							
MS3100-RGB	Area RGB	RS-232	No	No	No							
MS3100-RGB(CL)	Area RGB	C.L. Serial	No	No	No							
RH1100	Area RGB	RS-232	No	No	No							
Redlake MAD3 -												
1.48 bit	Area Mono	Switches	N/A	No	No							
1.48 bit	Area Mono	RS-232	N/A	No	No							
1.68 bit	Area Mono	RS-232	N/A	No	No							
1.68 bit	Area Mono	RS-232	N/A	No	No							
1.68 bit 2 chan.	Area Mono	RS-232	N/A	No	No							
ES-1.0/10 bit 1 chan.	Area Mono	RS-232	N/A	No	No							
ES-1.0/10 bit 1 chan. RGB/Toucan8	Area RGB	RS-232	No	No	No							
ES-1.0/10 bit 2 chan.	Area Mono	RS-232	N/A	No	No							
ES-1.0/10 bit 2 chan. RGB/Toucan8	Area RGB	RS-232	No	No	No							
ES-1.0/10 bit 1 chan.	Area Mono	RS-232	N/A	No	No							
ES-1.0/10 bit 1 chan. RGB/Toucan8	Area RGB	RS-232	No	No	No	</						

XCAP™ SOFTWARE

Ready-to-Run Image Analysis Software for PIXCI® Imaging Boards

A DETAILED OVERVIEW — DIGITAL CAMERA SUPPORT (continued)

Camera	Type	Controls	Software White/Color Balance	Software AGC/AEC	Software per-Pixel Normalization	Camera	Type	Controls	Software White/Color Balance	Software AGC/AEC	Software per-Pixel Normalization
Redlake M ASD -						Tichawa -					
ES-1.0/C 8 bit 1 chan. Bayer	Area Bayer	RS-232	Yes	No	No	CIS-0520-200	Line Mono	C.L. Generic	N/A	No	No
ES-1.0/MV	Area Mono	RS-232	N/A	No	No	MinicIS-600	Line Mono	C.L. Generic	N/A	No	No
ES-1.0/SC 8 bit 1 chan.	Area Mono	RS-232	N/A	No	No	MinicIS-400	Line Mono	C.L. Generic	N/A	No	No
ES-1.0/SC RGB/Toucan8	Area RGB	RS-232	No	No	No	MinicIS-100	Line Mono	C.L. Generic	N/A	No	No
ES-4.0/8 bit 1 chan.	Area Mono	RS-232	N/A	No	No	MinicIS-200	Line Mono	C.L. Generic	N/A	No	No
ES-4.0/8 bit 2 chan.	Area Mono	RS-232	N/A	No	No	MinicIS-200x4	Line Mono	C.L. Generic	N/A	No	No
ES-4.0/12 bit	Area Mono	RS-232	N/A	No	No						
ES-4.0/12 bit 1 chan.	Area Mono	RS-232	N/A	No	No	IK-SX1	Area Mono	Switches	N/A	No	No
ES-4.0/12 bit 2 chan.	Area Mono	RS-232	N/A	No	No	IK-SX1L	Area Mono	Switches	N/A	No	No
ES-4.0/E 8 bit 2 chan.	Area Mono	RS-232	N/A	No	No	IK-TU51CU	Area RGB	RS-232	No	No	No
ES-4.0/E 12 bit 2 chan.	Area Mono	RS-232	N/A	No	No	IK-TU61	Area RGB	RS-232	No	No	No
ES-4IQ -											
ES-3108 bit 2 chan.	Area Mono	RS-232	N/A	No	No	UNIQ -					
ES-310 Turbo 2 chan.	Area Mono	RS-232	N/A	No	No	AS620	Area Mono	C.L. Serial	N/A	No	Yes
ES-1020	Area Mono	C.L. Serial	N/A	No	No	AS5900	Area Mono	C.L. Serial	N/A	No	Yes
ES-1020C	Area Mono	C.L. Serial	Yes	No	No	AS5900C	Area Bayer	C.L. Serial	Yes	No	Yes
Sandane Imaging -						UC-600	Area Bayer	Switches	Yes	No	No
SL-VGA60-EM-Color	Area Bayer	C.L. Serial	Yes	Yes	Yes	UC-600-CL	Area Bayer	C.L. Serial	Yes	No	Yes
SL-VGA60-EM	Area Mono	C.L. Serial	N/A	Yes	Yes	UC-610	Area Bayer	Switches	Yes	No	No
SI-1M30-EM	Area Mono	C.L. Serial	N/A	Yes	Yes	UC-648-CL	Area Bayer	C.L. Serial	Yes	No	Yes
SI-16M4-EM	Area Mono	C.L. Serial	N/A	Yes	Yes	UC-685-CL	Area Bayer	Switches	Yes	No	No
SI-16M4-EM-Color	Area Bayer	C.L. Serial	Yes	Yes	Yes	UC-800	Area Bayer	Switches	Yes	No	Yes
Silicon Imaging -						UC-800-CL	Area Bayer	C.L. Serial	Yes	No	Yes
SI-640HFM	Area Mono	C.L. Serial	N/A	Yes	Yes	UC-900	Area Bayer	Switches	Yes	No	No
SI-640HFRGB	Area Bayer	C.L. Serial	Yes	Yes	Yes	UC-900-CL	Area Bayer	C.L. Serial	Yes	No	Yes
SI-1280FM	Area Mono	C.L. Serial	N/A	Yes	Yes	UC-900-CL 12 bit	Area Bayer	C.L. Serial	Yes	No	Yes
SI-1280FRGB	Area Bayer	C.L. Serial	Yes	Yes	Yes	UC-930	Area Bayer	Switches	Yes	No	No
SI-1300M	Area Mono	C.L. Serial	N/A	Yes	Yes	UC-930-CL	Area Bayer	C.L. Serial	Yes	No	Yes
SI-1300RGB	Area Bayer	C.L. Serial	N/A	Yes	Yes	UNIQ -					
SI-1920HD-M	Area Mono	C.L. Serial	N/A	No	Yes	UC-1000	Area Bayer	Switches	Yes	No	No
SI-1920HD-RGB	Area Mono	C.L. Serial	Yes	No	Yes	UC-1800	Area Mono	Switches	Yes	No	No
SI-3170M	Area Mono	C.L. Serial	N/A	Yes	Yes	UC-1800 12 bit	Area Mono	C.L. Serial	Yes	No	No
SI-3171RGB	Area Mono	C.L. Serial	N/A	Yes	Yes	UC-1800-CL	Area Bayer	C.L. Serial	Yes	No	Yes
SI-3300RGB	Area Bayer	C.L. Serial	Yes	Yes	Yes	UC-1800DS	Area Bayer	RS-232	Yes	No	No
SI-4000	Area Bayer	C.L. Serial	Yes	Yes	Yes	UC-1800-DS-CL	Area Bayer	C.L. Serial	Yes	No	Yes
SI-6600M	Area Mono	C.L. Serial	N/A	Yes	Yes	UC-1830	Area Mono	Switches	Yes	No	No
SI-6600RGB	Area Bayer	C.L. Serial	Yes	Yes	Yes	UC-1830-CL	Area Mono	C.L. Serial	Yes	No	Yes
SI-14000	Area Mono	C.L. Serial	N/A	Yes	Yes	UC-2000-CL	Area Mono	RS-232	N/A	No	No
SI-14000RGB	Area Bayer	C.L. Serial	Yes	Yes	Yes	UP-1000	Area Mono	C.L. Serial	N/A	No	Yes
SICON VIDEO® -						UP-1000	Area Mono	Switches	N/A	No	No
0310	Area Mono	I'C Serial	N/A	No	Yes	UP-400-CL	Area Mono	C.L. Serial	N/A	No	Yes
0310C	Area Mono	I'C Serial	Yes	No	Yes	UP-410	Area Mono	Switches	N/A	No	No
10C-CL	Area Bayer	C.L. Serial	Yes	Yes	Yes	UP-410-CL	Area Mono	C.L. Serial	N/A	No	Yes
10M-CL	Area Mono	C.L. Serial	N/A	Yes	Yes	UP-480-CL	Area Mono	C.L. Serial	N/A	No	No
10C6	Area Bayer	I'C Serial	Yes	Yes	Yes	UP-485	Area Mono	Switches	N/A	No	No
10M6	Area Mono	I'C Serial	N/A	Yes	Yes	UP-485-CL	Area Mono	C.L. Serial	N/A	No	Yes
1281C	Area Bayer	I'C Serial	Yes	Yes	Yes	UP-800	Area Mono	Switches	N/A	No	No
1281M	Area Mono	I'C Serial	N/A	Yes	Yes	UP-800-CL	Area Mono	C.L. Serial	N/A	No	Yes
1310	Area Mono	I'C Serial	N/A	Yes	Yes	UP-900	Area Mono	Switches	N/A	No	No
1310C	Area Mono	I'C Serial	Yes	Yes	Yes	UP-900-CL	Area Mono	C.L. Serial	N/A	No	Yes
2112	Area Mono	I'C Serial	N/A	Yes	Yes	UP-900-CL 12 bit	Area Mono	C.L. Serial	N/A	No	Yes
2112C	Area Mono	I'C Serial	Yes	Yes	Yes	UP-900DS-CL	Area Mono	C.L. Serial	N/A	No	Yes
2212	Area Mono	I'C Serial	N/A	Yes	Yes	UP-930	Area Mono	Switches	N/A	No	No
2212C	Area Mono	I'C Serial	Yes	Yes	Yes	UP-930-CL	Area Mono	C.L. Serial	N/A	No	Yes
5C10	Area Bayer	I'C Serial	Yes	Yes	Yes	UP-1000	Area Mono	Switches	N/A	No	No
5M10	Area Mono	I'C Serial	N/A	Yes	Yes	UP-1030	Area Mono	Switches	N/A	No	No
642C	Area Bayer	I'C Serial	Yes	Yes	Yes	UP-1800	Area Mono	RS-232	N/A	No	No
642M	Area Mono	I'C Serial	N/A	Yes	Yes	UP-1800 12 bit	Area Mono	Switches	N/A	No	No
643C	Area Bayer	I'C Serial	Yes	Yes	Yes	UP-1800-CL	Area Mono	C.L. Serial	N/A	No	Yes
643M	Area Mono	I'C Serial	N/A	Yes	Yes	UP-1800-CL 12 bit	Area Mono	C.L. Serial	N/A	No	Yes
9C10	Area Bayer	I'C Serial	Yes	Yes	Yes	UP-1800DS	Area Mono	RS-232	N/A	No	No
9M4001	Area Mono	I'C Serial	N/A	Yes	Yes	UP-1800DS-CL	Area Mono	C.L. Serial	N/A	No	Yes
9M4001C	Area Bayer	I'C Serial	Yes	Yes	Yes	UP-1830	Area Mono	Switches	N/A	No	No
9T9001C	Area Mono	I'C Serial	Yes	Yes	Yes	UP-1830A	Area Mono	C.L. Serial	N/A	No	No
WGA-C	Area Bayer	I'C Serial	Yes	No	Yes	UP-1830-CL	Area Mono	C.L. Serial	N/A	No	Yes
WGA-M	Area Mono	I'C Serial	N/A	No	Yes	UP-1830-CL 12 bit	Area Mono	C.L. Serial	N/A	No	Yes
SONY -						Varian -					
XCL-U1000C	Area RGB	C.L. Serial	No	No	No	PaxScan 1313	Area Mono	None	N/A	No	No
XCL-U1000	Area Mono	C.L. Serial	N/A	No	No	PaxScan 2520	Area Mono	RS-232	N/A	No	No
XCL-V500	Area Mono	C.L. Serial	N/A	No	No	PaxScan 4030A	Area Mono	RS-232	N/A	No	No
XCL-X700	Area Mono	C.L. Serial	N/A	No	No	PaxScan 4030R	Area Mono	Switches	N/A	No	No
SVS-VISTEK -						Vieworks					
SVS205SSCL	Area Bayer	C.L. Serial	Yes	No	No	VA-1M120	Area Mono	C.L. Serial	N/A	No	No
SVS205SCL	Area Mono	C.L. Serial	N/A	No	No	VA-1M120C	Area Bayer	C.L. Serial	Yes	No	No
SVS285SSCL	Area Bayer	C.L. Serial	Yes	No	No	VA-2M68	Area Mono	C.L. Serial	N/A	No	No
SVS285SCL	Area Mono	C.L. Serial	N/A	No	No	VA-2W64	Area Mono	C.L. Serial	N/A	No	No
Symagery -						VA-2W64C	Area Mono	C.L. Serial	Yes	No	No
VCA128I	Area Mono	I'C Serial	N/A	No	Yes	VA-4M132	Area Mono	C.L. Serial	N/A	No	No
VCA128C	Area Mono	I'C Serial	Yes	No	Yes	VA-4M132C	Area Mono	C.L. Serial	Yes	No	No
Sentech -						VA-8M116	Area Mono	C.L. Serial	N/A	No	No
STC-CLC33A	Area Mono	C.L. Serial	N/A	No	No	VA-2M68C	Area Mono	C.L. Serial	Yes	No	No
STC-CLC33A	Area Mono	C.L. Serial	Yes	No	No	VA-29MC-MS	Area Mono	C.L. Serial	N/A	No	No
STC-CLC33A	Area Mono	C.L. Serial	Yes	No	No	VA-29MC-CC	Area Mono	C.L. Serial	Yes	No	No
STC-CLC202A	Area Mono	C.L. Serial	N/A	No	No	VC-4M110	Area Mono	C.L. Serial	N/A	No	No
STC-CLC202A	Area Mono	C.L. Serial	Yes	No	No	VC-4M110C	Area Mono	C.L. Serial	Yes	No	No
STC-CLC232A	Area Mono	C.L. Serial	N/A	No	No	VC-8M160	Area Mono	C.L. Serial	N/A	No	No
STC-CLC232A	Area Mono	C.L. Serial	Yes	No	No	VC-8M160C	Area Mono	C.L. Serial	Yes	No	No
STC-CLC500A	Area Mono	C.L. Serial	N/A	No	No	VH-2M	Area Mono	C.L. Serial	N/A	No	No
STC-CLC500A	Area Mono	C.L. Serial	Yes	No	No	VH-4M	Area Mono	C.L. Serial	N/A	No	No
STC-1500	Area Mono	Switches	N/A	No	No	VH-4M-C	Area Mono	C.L. Serial	Yes	No	No
STL-2048	Line Mono	PIXCI® signals	N/A	No	No	VH-11M	Area Mono	C.L. Serial	N/A	No	No
STL-510	Line Mono	PIXCI® signals	N/A	No	No	VH-11M-C	Area Mono	C.L. Serial	Yes	No	No
STL-7400RCL	Line Mono	C.L. Serial	N/A	No	No	VH-16M	Area Mono	C.L. Serial	N/A	No	No
STL-7450	Line Mono	PIXCI® signals	N/A	No	No	VH-16M-C	Area Mono	C.L. Serial	Yes	No	No
Tokanaka -						VH-VGA	Area Mono	C.L. Serial	N/A	No	No
FC300	Area Mono	RS-232	N/A	No	No	VH-VGA-C	Area Mono	C.L. Serial	Yes	No	No
FC800	Area Mono	RS-232	N/A	No	No	VH-VGA-C	Area Mono	C.L. Serial	N/A	No	No
FC1300	Area Mono	RS-232	N/A	No	No	VM-2M	Area Mono	C.L. Serial	Yes	No	No
FC1500	Area Mono	RS-232	N/A	No	No	VM-4M	Area Mono	C.L. Serial	N/A	No	No
TL2048	Line Mono	PIXCI® signals	N/A	No	No	VM-4M-C	Area Mono	C.L. Serial	Yes	No	No
TL5150	Line Mono	PIXCI® signals	N/A	No	No	VM-11M	Area Mono	C.L. Serial	N/A	No	No
TL7450	Line Mono	PIXCI® signals	N/A	No	No	VM-11M-C	Area Mono	C.L. Serial	Yes	No	No
Teli -						VM-16M	Area Mono	C.L. Serial	N/A	No	No
CS3910	Area Mono	Switches	N/A	No	No	VM-16M-C	Area Mono	C.L. Serial	Yes	No	No
CS3910BH	Area Mono	Switches	N/A	No	No	VDS-Vosskuler -					
C520	Area Mono	Switches	N/A	No	No	CMC-4000	Area Mono	C.L. Serial	N/A	No	No
CS3930UV	Area Mono	Switches	N/A	No	No	CMC-4000C	Area Mono	C.L. Serial	Yes	No	No
CS6910CL	Area RGB	C.L. Serial	N/A	No	No	Zoran -					
CSB-4000CL-10A	Area Mono	C.L. Serial	N/A	No	No	ZR732112-MQS	Area Mono	I'C Serial	N/A	No	Yes
CleverDragon CSCOS15BC23	Area Mono	C.L. Serial	N/A	No	Yes	ZR732112-PQS	Area Mono	I'C Serial	Yes	No	Yes
CleverDragon CSCOS15C23	Area Mono	C.L. Serial	Yes	No	Yes	ZR732212-MQS	Area Mono	I'C Serial	N/A	No	Yes
CleverDragon CSCOS15C23	Area RGB	C.L. Serial	Yes	No	Yes	ZR732212-PQS	Area Mono	I'C Serial	Yes	No	Yes
CleverDragon CSC12M25BMP19	Area Mono	C.L. Serial	N/A	No	No	ZR732212-MLC	Area Mono	I'C Serial	N/A	No	Yes
CleverDragon CSC12M25CMP19	Area Mono	C.L. Serial	Yes	No	No	ZR732212-PLC	Area Mono	I'C Serial	Yes	No	Yes
CSL8000CL Mono Mode	Line Mono	C.L. Generic	No	No	No	ZR732316-MLC	Area Mono	I'C Serial	N/A	No	Yes
CSL8000CL RGB Mode	Line RGB	C.L. Generic	No	No	No	ZR732316-PLC	Area Mono	I'C Serial	Yes	No	Yes
Thomson/Thales -						Zoran -					
TH19560	Line Mono	Switches	N/A	No	No						

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