

SILICON VIDEO® 1820-CL

Image Sensor

- → 18 megapixel RGB Bayer color sensor
- → 4912 horizontal by 3648 vertical pixels
- → 12 bits per pixel
- ↑ 1.25µm by 1.25µm pitch, back side illumination
- → 1/2.3 inch image format
- → 65.8dB dynamic range
- → 0.62 Volts/Lux-sec @ 545nm responsivity
- → Uncompressed image output
- → 24 fps with Full Camera Link
- ♦ 8.5 fps with Base Camera Link
- → Programmable: gain, area of interest, h and v blanking, frame size/rate, exposure, left/right image flip, top/bottom image flip
- → Black level calibration
- → Asynchronous trigger input
- → Strobe output

Camera Case

- → 53.75 mm, 2.12 inches long
- → 36.75 mm, 1.44 inches square
- → 117 grams, 4.1 ounces
- → Infrared cut filter
- → Two 26 pin SDR connectors
- → M5 power, trigger, strobe connector
- → C-mount lens with adjustable back focus
- ♦ 0°C to +50°C operation
- → RoHS compliant



*Lens optional

Software

- → Image sequence capture and save
- → Triggered image sequence capture
- → Image processing, measurement, and analysis optional
- → Control of all camera registers
- → Automatic white balance
- ★ Controls for Red, Green, and Blue gain
- → Color balance controls
- → Programmer libraries for camera control
- Image processing and analysis libraries
- ✦ Ready to run menu driven software
- → Windows & Linux, 32 & 64-bit

Options

- → ½" C-Mount lens, image processing, video-to-disk, and image analysis software
- ★ Complete imaging systems with cameras, frame grabbers, high performance computers, and disk arrays

Sequence Capture with SV1820CL Camera and XCAP Imaging Program Versions

SILICON VIDEO® 1820-CL camera will capture continuously, at various resolutions and frame rates.

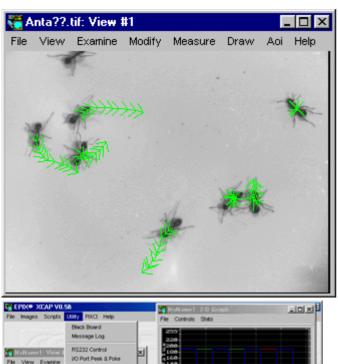
XCAP-Lite will capture for 0.95 seconds at 4608 x 3288 resolution, 8 bits per pixel, 4.4 fps. Images must be saved individually. XCAP-Lite is included with PIXCI® frame grabbers.

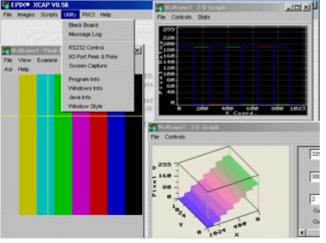
The XCAP-Ltd program captures and saves sequences for 2 minutes into 8 GBytes of available memory (computer must have approximately 12 GBytes of installed memory).

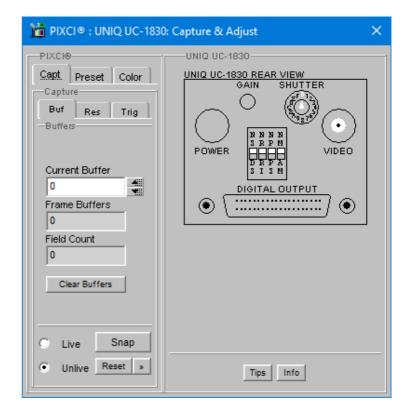
The XCAP-Std imaging program offers video to disk capture, which can allow continuous capture for hours (depending on the capacity of the computer's storage system).

Video-To-Disk Capture

The optional XCAP-Std imaging program enables video-to-disk capture. Requires a host computer with storage system capable of handling desired image capture rates and duration. EPIX® offers complete imaging systems, designed to your specifications, guaranteed to capture uncompressed video to disk without dropping frames.







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