



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.

