SALVADORIMAGING™
now FLIR
Advanced Imaging Systems

WWW.SALVADORIMAGING.COM

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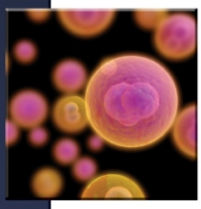
Precision CCD and EMCCD Cameras

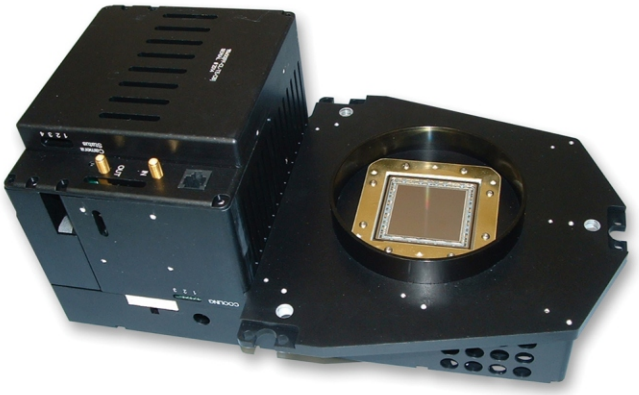



SI-16M30-FF

4K x 4K Pixel CCD • 30 Frames/Second • 12 Bit Digital Camera

Salvador Imaging's SI-16M30-FF camera provides very high resolution (4k x 4k pixel) and very high speed (30 frame/second) data capture over a wide dynamic range under controlled lighting conditions. The full frame CCD camera's integration time synchronizes easily with the system using either the SMA connector or the trigger capability of the CC1 Camera Link signal. Performance is enhanced using Salvador's proprietary thermal stabilization technique. The camera provides the high speed data transfer over 16 Camera Link channels over 8 Camera Link cables insures that all the data is captured.

The multiple output ports which enable high frame rate operation are carefully balanced at the factory to assure image uniformity using Salvador's proprietary calibration techniques combined with the Salvador's Photon Transfer Curve method described on the web - http://www.salvadorimaging.com/character



Specifications

Resolution	4096 x 4096 pixels
Pixel size	11µm x 11µm
Sensor format	Full Frame
CCD full well capacity	120 ke$^-$
Max. frame rate	30 fps @ T(int)=0 sec.
Pixel rate	16 ports x 40 MHz
Data format	Camera Link
Dark signal	100 e$^-$ /pixel/sec
Dynamic range	66 dB
Noise	60 e$^-$
Housing	Aluminum
Lens Mount	Custom
Size	13" x 9" x 5"
Weight	8 lbs.
Operating temp	10° – 45° C
Power supply	+6V, +16V, -7V, -16V
Power dissipation	95 W

Features

- 4096 x 4096 resolution, 8 fps
- 12-bit digitization
- 100% fill factor
- MPP mode for ultra low dark current
- Progressive scan readout
- On-board data processing capability
- Programmable operation
- Camera Link output

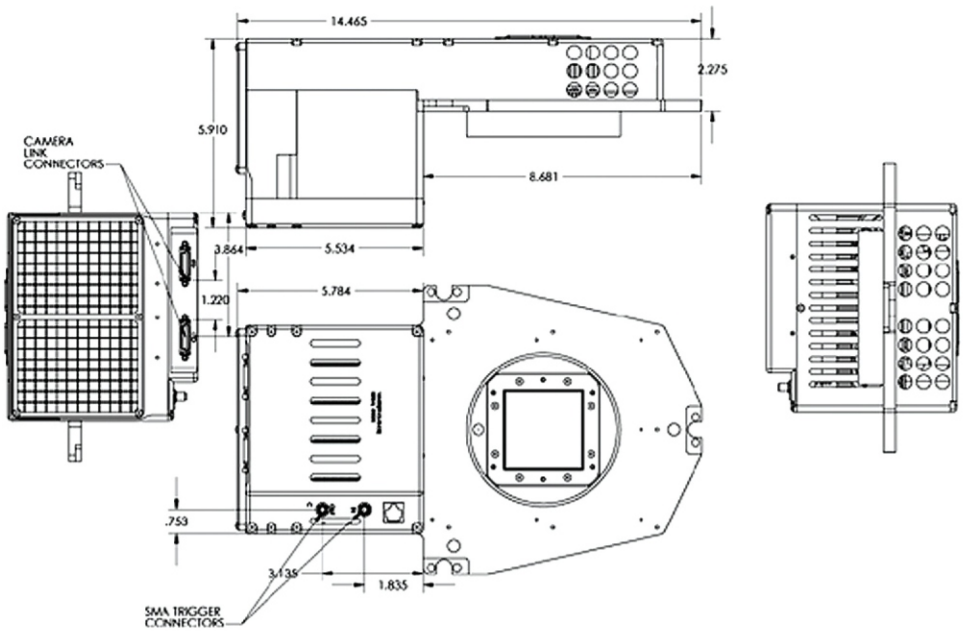
Applications

- Applications
- Semiconductor inspection
- Airborne reconnaissance
- Microscopy
- Bio Applications

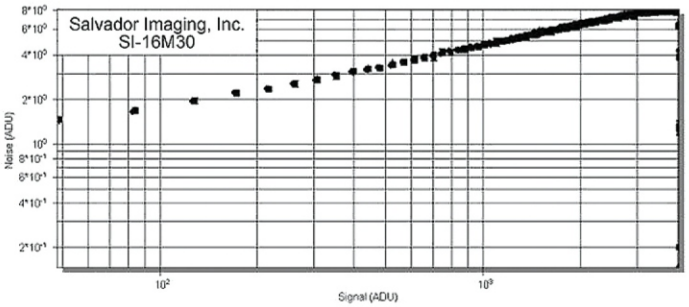
Connectors

Trigger/Sync	SMA
Data	8 x Camera Link with parallel I/O board
Power	16 pin
Programming	Serial over Camera Link and 8-pin RJ45

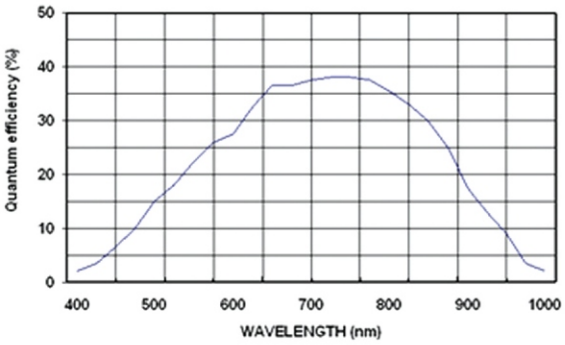
Package Drawing



Photon Transfer Curve (Typical)



Typical Spectral Response



About Salvador Imaging

Salvador Imaging's camera technology combines the low-noise and high resolution needed for true analytical measurements with the speed demanded in today's medical, commercial/industrial, and aerospace/military imaging systems.

Salvador offers standard products as well as fully custom designs to meet the needs of a broad range of markets. Applications for Salvador products range from semiconductor, printed circuit-board and flat panel inspection to medical imaging, biotech data capture, airborne mapping, low light security and surveillance, and burst mode ballistic imaging. Camera products typically incorporate low noise, precision analog design coupled with proprietary thermal stabilization (cooling) to provide unrivaled imaging performance. Features such as binning, area-of-interest and external synchronization are standard in many Salvador cameras. Salvador cameras are 100% inspected using the Photon Transfer curve and other techniques to verify that the technical specifications are achieved.

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