SALVADORIMAGING™
A PHOTON DYNAMICS COMPANY

WWW.SALVADORIMAGING.COM

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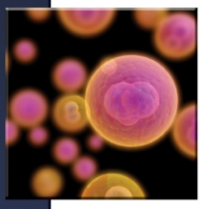
Precision CCD and EMCCD Cameras

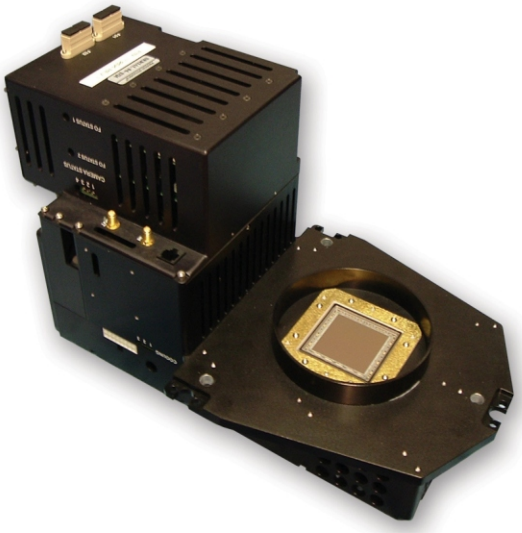



SI-9M60-FF

2896 x 2896 Pixel CCD • 60 Frames/Second • 12 Bit Digital Camera

Salvador Imaging's SI-9M60-FF camera provides high resolution (3k x 3k pixel) and very high speed (60 frame/second) data capture over a very wide dynamic range (>70 dB) 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 data over parallel Camera Link cables or optionally over two fiber optic lines.

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	2896 x 2896 pixels
Pixel size	15.24µm x 15.2µm
Sensor format	Full Frame
CCD full well capacity	300 ke$^-$
Max. frame rate	60 fps
Pixel rate	16 ports x 40 MHz
Data format	Camera Link
Dark signal	100 e$^-$ /pixel/sec
Dynamic range	70 dB
Noise	80 e$^-$
Housing	Aluminum
Lens Mount	Custom
Size	16" x 9" x 9"
Weight	12 lbs.
Operating temp	0° – 45° C
Power supply	3.3V, 5V, 6V, 7V, 7.5V, 16V, -6V, -10V
Power dissipation	95 W
Cooling	18° C

Features

- 2896 x 2896 resolution, 60 fps
- True 12-bit digitization
- 100% fill factor
- MPP mode for ultra low dark current
- Progressive scan readout
- On-board data processing
- Programmable operation
- Camera Link output

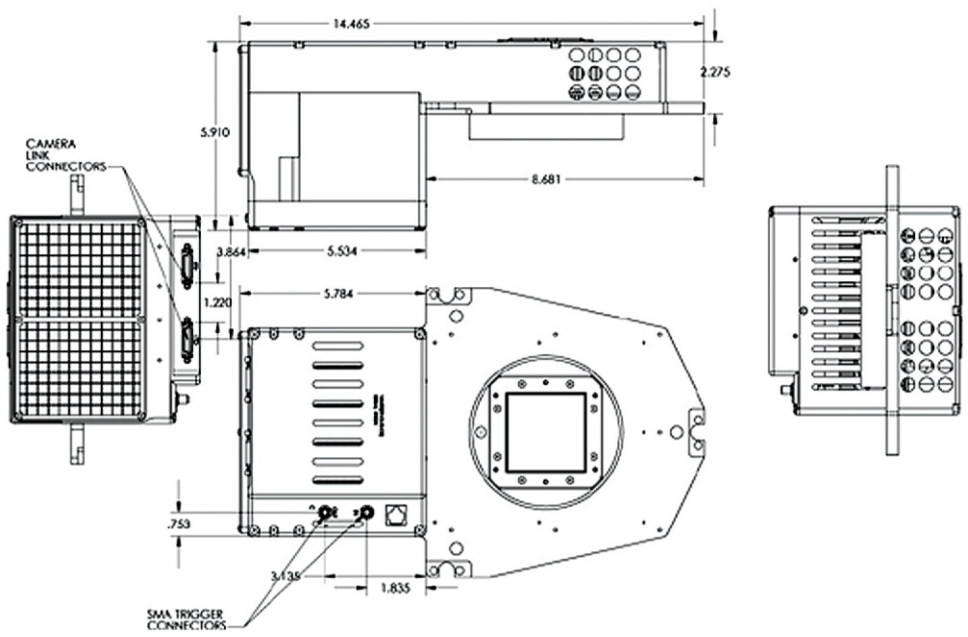
Applications

- Applications
- Semiconductor inspection
- Airborne reconnaissance
- Medical Imaging
- Bio Applications

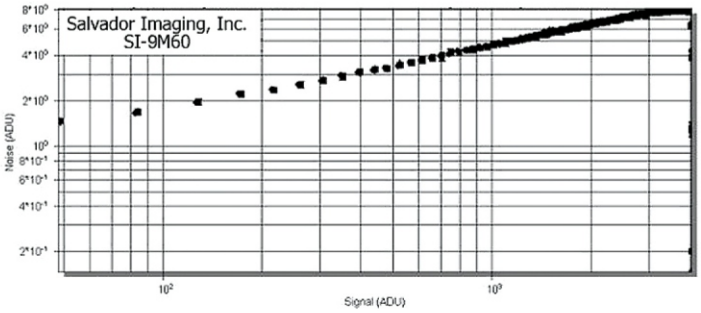
Connectors

Trigger/Sync	SMA
Data	2 x Camera Link (15 fps) over fiber optic links with optional fiber optic adapter, 8 x Camera Link (60 fps) with optional I/O board
Power	16 pin
Programming	Camera Link and 8-pin RJ45

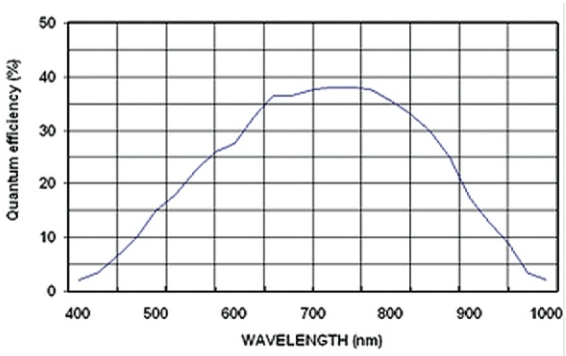
Package Drawing



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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