

## SII80+ monochrome

The SII80+ is a high resolution digital camera back specifically developed for the purposes of archival imaging. It is built on the proven 80Mp Dalsa FTF10481M CCD platform. It is designed to the highest standards incorporating four CCD outputs with no on-board display, processing or memory, in order to achieve 4x read out times and superior image quality, while producing the most versatile raw image possible. It is designed, manufactured, marketed, sold and supported by Stokes Imaging Inc.

The SII80+ is tethered to a capture computer through a Camera Link interface, which uses Direct Memory Access (DMA) when writing the image. This reduces processor load on the capture computer, increasing throughput and multi-processing capabilities. It is actively cooled using a thermo-electric cooler (TEC) and dual fans which lower the operating temperature of the electronics. This allows for decreased image noise and increased durability.

The SII80+ is also equipped with a piezo actuator, enabling the use of a multi-shot mode for the production of 320Mp images.



## Technical Specifications:

Sensor	Dalsa FTF10481M			
Sensor Type	CCD			
Sensor Size	80MP (10320 x 7752 pixels)			
Sensor Dimensions	53.7 x 40.3mm			
Pixel Size	5.2 x 5.2 $\mu$ m			
Image Ratio	4:3			
Raw File Format	Device Independent Bitmap (.dib)			
Bit Depth	16 bits per channel			
Shot Mode	1-Shot (monochrome)	3-Shot (color)	4-Shot (monochrome)	12-Shot (color)
Image Size	80MP (10320 x 7752)	80MP (10320 x 7752)	320MP (20640 x 15504)	320MP (20640 x 15504)
Raw File Size	153MB	458MB	611MB	1.79GB
8 bit (24 bit, color)	77MB	229MB	306MB	916MB
16 bit (48 bit, color)	153MB	458MB	611MB	1.79GB
Capture Rate	3s	8s	12s	32s
IR/UV Filter	Mounted on Lens			
Temperature Control	TEC with Forced Air			
Host Connection	Tethered via Camera Link			
Software	Imaging Workflow Solution			
Platform Support	Windows 64-bit			
Operating Temperature	0-33 C (32-90 F)			
Dimensions	7" wide x 5.5" deep x 5.5" tall			