

## SII75M

The SII75M is a high resolution digital camera back specifically developed for the purposes of archival imaging. It is built on the proven 33 Mp Dalsa FTF5066C CCD platform. It is designed to the highest standards with no on-board display, processing or memory, in order to achieve optimal read out times and image quality, while producing the most versatile raw image possible. It is designed, manufactured, marketed, sold and supported by Stokes Imaging Inc.

The SII75M 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 noise and increased durability.

The SII75M is also equipped with a piezo actuator, enabling the use of a multi-shot mode for the production of full-color images as well as increased resolution images of up to 133Mp.



## Technical Specifications:

### Color:

Sensor	Dalsa FTF5066C		
Sensor Type	CCD		
Sensor Size	33MP (4992 x 6668 pixels)		
Sensor Dimensions	36 x 48 mm		
Pixel Size	7.2 x 7.2 $\mu$ m		
Image Ratio	4:3		
Raw File Format	Device Independent Bitmap (.dib)		
Bit Depth	16 bits per channel		
Shot Mode	1-Shot	4-Shot	16-Shot
Image Size	8MP (2496 x 3334)	33MP (4992 x 6668)	133MP (9984 x 13336)
Raw File Size	50MB	200MB	800MB
24 bit	25MB	100MB	400MB
48 bit	50MB	200MB	800MB
Capture Rate	2s	8s	32s
IR/UV Filter	Mounted on Lens		
Temperature Control	TEC with Forced Air		
Host Connection	Tethered via Camera Link		
Software	SII Capture or Imaging Workflow Solution		
Platform Support	Windows Vista		
Operating Temperature	0-33°C (32-90°F)		
Dimensions	140 x 127 x 105 mm		

## Monochrome:

Sensor	Dalsa FTF5066M			
Sensor Type	CCD			
Sensor Size	33MP (4992 x 6668 pixels)			
Sensor Dimensions	36 x 48 mm			
Pixel Size	7.2 x 7.2 $\mu$ 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	33MP (4992 x 6668)	33MP (4992 x 6668)	133MP (9984 x 13336)	133MP (9984 x 13336)
Raw File Size	67MB	200MB	267MB	800MB
8 bit (24 bit, color)	33MB	100MB	133MB	400MB
16 bit (48 bit, color)	67MB	200MB	267MB	800MB
Capture Rate	2s	6s	8s	24s
IR/UV Filter	Mounted on Lens			
Temperature Control	TEC with Forced Air			
Host Connection	Tethered via Camera Link			
Software	SII Capture or Imaging Workflow Solution			
Platform Support	Windows Vista			
Operating Temperature	0-33°C (32-90°F)			
Dimensions	140 x 127 x 105 mm			