

SII86M

The SII86M is a high resolution digital camera back specifically developed for the purposes of archival imaging. It is built on the proven 48 Mp Dalsa FTF6080C 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 SII86M 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 SII86M 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 192Mp.



Technical Specifications:

Color:

Sensor	Dalsa FTF6080C		
Sensor Type	CCD		
Sensor Size	48MP (6000 x 8000 pixels)		
Sensor Dimensions	36 x 48 mm		
Pixel Size	6.0 x 6.0 μm		
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	12MP (3000 x 4000)	48MP (6000 x 8000)	192MP (12000 x 16000)
Raw File Size	75MB	300MB	1.2GB
24 bit	38MB	150MB	600MB
48 bit	75MB	300MB	1.2GB
Capture Rate	3s	12s	48s
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 FTF6080M			
Sensor Type	CCD			
Sensor Size	48MP (6000 x 8000 pixels)			
Sensor Dimensions	36 x 48 mm			
Pixel Size	6.0 x 6.0 μ 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	48MP (6000 x 8000)	48MP (6000 x 8000)	192MP (12000 x16000)	192MP (12000 x16000)
Raw File Size	100MB	300MB	400MB	1.2GB
8 bit (24 bit, color)	50MB	150MB	200MB	600MB
16 bit (48 bit, color)	100MB	300MB	400MB	1.2GB
Capture Rate	3s	9s	12s	36s
IR/UV Filter	Mounted on Lens			
Temperture 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			