

Features

- High QE CCD: >55% @500nm
- 4 Megapixel Resolution: 2048 X 2048
- Interline Progressive Scan CCD
- 12 Bit Digitization
- Dual A/D Converters: 40 and 20 MHz
- Low Read Noise
- Optional 2-Stage TE Cooler
- F and C Lens Mounts
- Long Term Exposure: > 9 hours
- High Signal to Noise Ratio
- User-Adjustable Region of Interest
- Flexible Binning Modes
- CameraLink Interface
- DVCView[®]: Image Capture and Control Software
- Multi-Platform API/SDK available
- Asynchronous Reset: Software and External Triggers
- No Mechanical Shutter Required
- CE / UL / CUL / FCC Certified

Preliminary



Description

The DVC-4000 is a high resolution, high sensitivity digital camera utilizing a Kodak KAI-4021 progressive scan interline CCD sensor. The CCD sensor has a particularly high QE peaking in the 500-600nm region of the spectrum resulting in higher sensitivity for most applications.

The camera is supplied with *DVCView*[™] software for real-time viewing and image capture.

This camera is supported by many popular 3rd party programs.



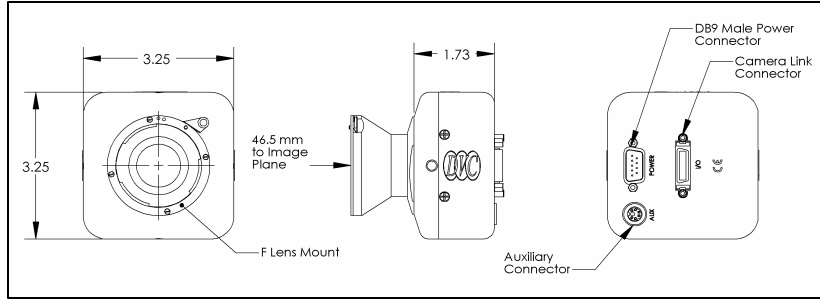
SPECIFICATIONS

CCD

KAI-4021 progressive scan interline CCD

Active Pixels	2048 X 2048
Pixel Size	7.4 μm X 7.4 μm (sq. format)
Imager Size	21.43mm (diagonal)
Aspect Ratio	1:1
Peak QE	>55%
Full Well	40,000e- @ 20 MHz 20,000e- @ 40 MHz

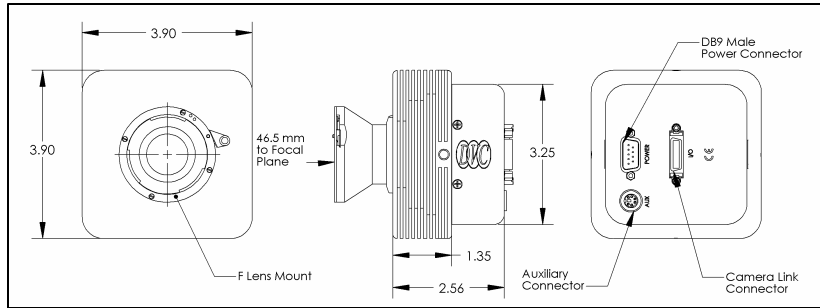
4000M



Digital Video

4000M-T2 Cooled

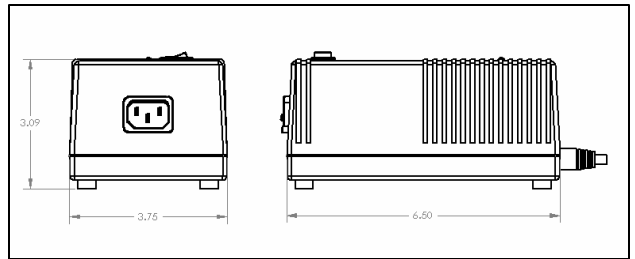
I/O	12 Bit Camera Link
A/D Converter 1	20 MHz @ 12 bits
A/D Converter 2	40 MHz @ 12 bits
Read Noise	<10e- @ 20 MHz
Binning	20MHz 40MHz
	1X1 2048 X 2048 4 7
	2X2 1024 X 1024 7 14
	4X4 512 X 512 13 21
4X20 512 X 100 32 40	



Electrical

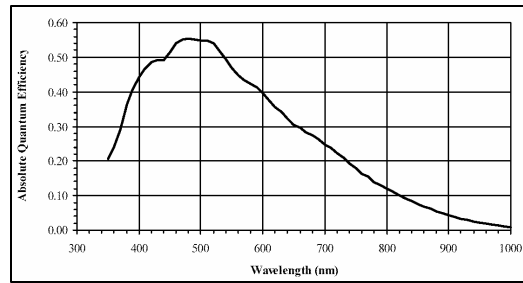
Linear Power Supply

Input Voltage	110/220 VAC 50/60 Hz
Power	<5 Watts



Mechanical

Size	3.25" (H) X 3.25" (W) X 1.73" (L)
W/ TE Cooler	3.90" (H) X 3.90" (W) X 2.57" (L)
Weight	18 ozs. (505 grams)
W/ TE Cooler	38 ozs. (1077 grams)
Lens Mount	F-mount, C-mount optional
Camera Mount	¼" X 20 Standard Tripod mount
Camera Connector	Camera Link....MDR-26
Power Connector	DB-9M

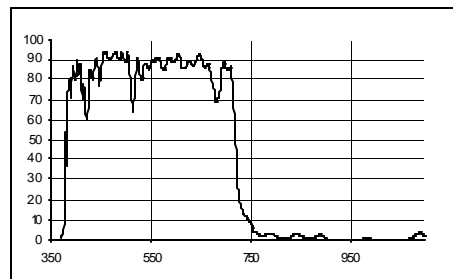


CCD Response

Camera Control

DVCView™ Interface Software module, standard

Gain Control Range	30 dB
Offset Control (black)	0% to 6% in 256 steps
Exposure Range	50 μs to >9 hours



IR Filter Response