

Features

• High QE CCD: >55% @500nm

• 2 Megapixel Resolution: 1600 X 1200

• Interline, Progressive-Scan CCD

• 12-Bit Digitization

• Dual A/D Converters: 40 and 20 MHz

• Low Read Noise

• Optional 1-Stage or 2-Stage TE Cooler

• "C" Lens Mount

• High Signal-to-Noise Ratio

• Variable, On-chip Region of Interest and Binning

• Flexible Exposure and Readout Modes

• Gigabit Ethernet or Camera Link Interface

 DVCView™ Image Capture and Control Software

- SDK for Windows and Linux
- Software and External Asynchronous Triggers
- No Mechanical Shutter Required
- CE/UL/CUL/FCC Certified
- RoHS Compliant



Description

The DVC-2000M is a high-resolution digital camera utilizing the Kodak KAI-2020M progressive-scan interline CCD sensor. The quantum efficiency of the CCD peaks in the 500-600nm region of the spectrum, resulting in optimum sensitivity for most applications.

The DVC-2000M has four basic operating modes: streaming overlapped exposure, streaming non-overlapped exposure, edge-triggered single-frame snapshot, and variable pulse-width exposure. Two independent A/D converters offers the user selection of CCD readout rates for lowest noise or highest speed.

DVCView™ application software is provided with the camera for real-time viewing and image capture. A multi-platform SDK is available to developers, streamlining integration of all DVC cameras via the DVC API.



SPECIFICATIONS DVC-2000M

CCD KAI-2020 progressive-scan interline CCD

Active Pixels	1600 X 1200
Pixel Size	7.4 µm X 7.4 µm (sq. format)
Imager Size	14.8 mm (diagonal)
Aspect Ratio	4:3
Peak QE	> 55%
Full Well	38,000e ⁻ @ 20 MHz 20,000e ⁻ @ 40 MHz

Digital Video

I/O	12-Bit Camera Link o	or Gigabit Ethernet
A/D Converter	20 MHz @ 12-bits 40 MHz @ 12-bits	
Read Noise	12 e ⁻ @ 20 MHz	
Binning (selected examples)	1X1 1600 X 1200 2X2 800 X 600 4X4 400 X 300 8X8 200 X 150	20MHz 40MHz 9 18 17 32 32 53 52 78
ROI (selected examples)	800 X 600 400 X 300 200 X 150	20MHz 40MHz 18 32 32 54 54 81
Gain Control Range	35 dB	
Offset Control (Black)	0% to 6% in 256 steps	
Exposure Range	50 µs to 1 hour	

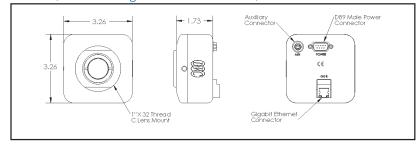
Electrical

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

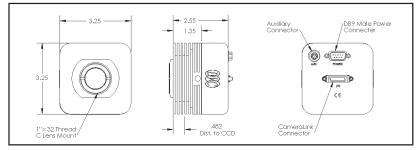
Mechanical

Size W/T1 Cooler W/T2 Cooler	3.25" (H) X 3.25" (W) X 1.73" (L) 3.25" (H) X 3.25" (W) X 2.56" (L) 3.90" (H) X 3.90" (W) X 2.56" (L)
Weight W/T1 Cooler W/T2 Cooler	18 oz (505 grams) 30 oz (900 grams) 38 oz (1077 grams)
Lens Mount	C-mount
Camera Mount	1/4" X 20 Standard Tripod mount
Camera Connector	Camera Link or Gigabit Ethernet
Power Connector	DB-9M

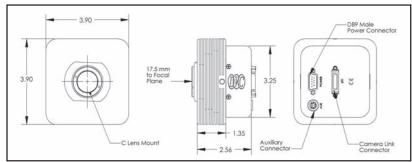
2000M (shown with Gigabit Ethernet connector)



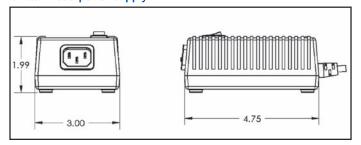
2000M-T1 Cooled (shown with Camera Link connector)



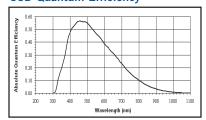
2000M-T2 Cooled (shown with Camera Link connector)



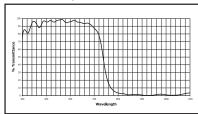
Switchmode power supply



CCD Quantum Efficiency



IR Filter Response





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