

Features

- High QE CCD: >55% @500nm
- 640 X 480 Resolution
- Interline Progressive Scan CCD
- 12 Bit Digitization
- Dual Speed Readout: 40 and 20 MHz
- "C" Lens Mount
- Long Term Exposures
- High Signal to Noise Ratio
- Variable, On-chip Region of Interest and Binning
- Flexible Exposure and Readout Modes
- CameraLink Interface
- *DVCView*TM: Image Capture and Control Software
- Windows/Linux API
- Software and External Asynchronous Triggers
- No Mechanical Shutter Required
- CE / UL / CUL / FCC Certified

Additional Information
Available at:
www.dvcco.com



Description

The DVC-340M is a versatile, high-performance digital camera with functions tailored to the scientific and industrial markets. It is capable of both high-speed readout (40 MHz pixel rate) and low noise readout (20 MHz pixel rate) at 12 bits.

The DVC-340M utilizes a Kodak KAI-340M progressive scan interline CCD. The high quantum efficiency of the CCD peaks in the 500-600 nm region of the spectrum, resulting in optimum sensitivity for most applications.

The DVC-340M has four basic operating modes: streaming overlapped exposure, streaming non-overlapped exposure, edge-triggered single-frame snapshot, and variable pulse-width exposure. Each mode can be operated at either 20 or 40 MHz and can support binning and region of interest operation.

*DVCView*TM 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

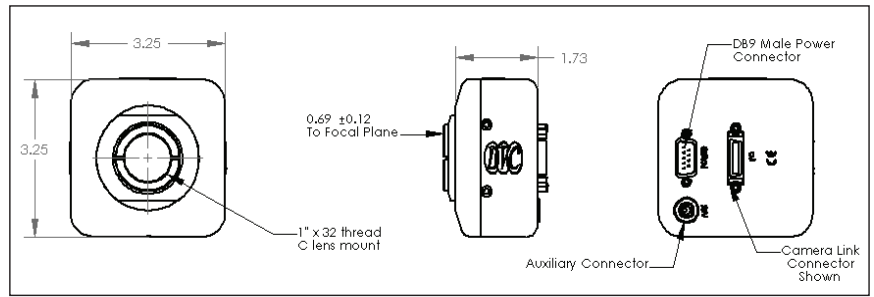
DVC-340M

CCD

KAI-0340M progressive scan interline CCD

Active Pixels	640 X 480
Pixel Size	7.4 μm X 7.4 μm
Imager Size	5.92 mm (diagonal)
Aspect Ratio	4:3
Peak QE	>55%
Full Well	38,000e- @ 20 MHz 20,000e- @ 40 MHz

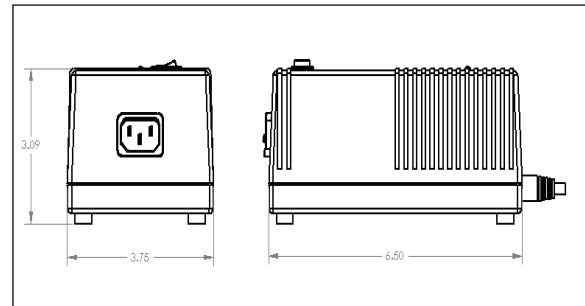
340M



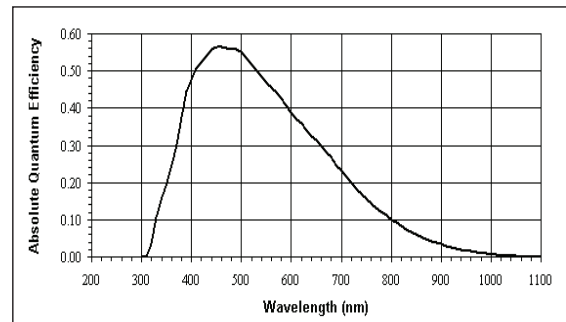
Digital Video

I/O	12 Bit CameraLink		
A/D Converter 1 A/D Converter 2	20 MHz @ 12 bits 40 MHz @ 12 bits		
Read Noise	12e- @ 20 MHz		
ROI (selected examples)		20MHz	40MHz
	240x240	109	209
	120x120	206	382
Binning (selected examples)		20MHz	40MHz
	1X1 640x480	55	109
	1X2 640x240	109	206
	2X2 320x240	109	206
	3X3 213x160	160	305
	4X4 160x120	205	374

Linear Power Supply



CCD Quantum Efficiency



Electrical

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

Mechanical

Size	3.25" (H) X 3.25" (W) X 1.73" (L)
Weight	18 ozs. (505 grams)
Lens Mount	C-mount
Camera Mount	¼" X 20 Standard Tripod mount
Camera Connector	CameraLink .MDR-26
Power Connector	DB-9M

Camera Control

DVCView Interface
Software module, standard

Gain Control Range	35 dB
Offset Control (black)	0% to 6% in 256 steps
Exposure Range	50 μs to 1 hour

IR Filter Response

