

Features

- High QE CCD: >55% @500nm
- Resolution: 640 X 480 at up to 109 f/sec
- Interline Progressive Scan CCD
- 12 Bit Digitization
- Dual speed readout: 40 and 20 MHz
- "C" Lens Mount
- Long Term Exposure
- 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-340M is a versatile, high-performance digital camera with functions tailored to high throughput scientific and industrial applications. 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™ 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
Pick Up Area	7.4 µm X 7.4 µm
Pixel Size	5.92 mm (diagonal)
Aspect Ratio	4:3
QE	> 55% @ 500 nm
Full Well	38,000e ⁻ @ 20 MHz 20,000e ⁻ @ 40 MHz

Digital Video

I/O	12-Bit Camera Link	or Gigabit Ethernet
Readout Rate	20 MHz @ 12-bits 40 MHz @ 12-bits	
Read Noise	< 12e ⁻ @ 20 MHz	
Binning (selected examples)	1X1 640 X 480 1X2 640 X 240 2X2 320 X 240 3X3 213 X 160 4X4 160 X 120	20MHz 40MHz 55 109 109 206 109 206 160 305 205 374
ROI (selected examples)	240 X 240 120 X 120 60 X 60	20MHz 40MHz 109 209 206 382 368 639
Gain Control Range	35 dB	
Offset Control (Black)	0% to 6% in 256 steps	
Exposure Range	50 µs to 1 hour	

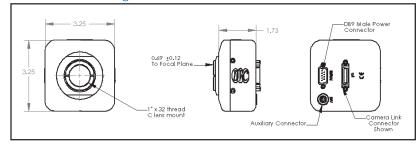
Electrical

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

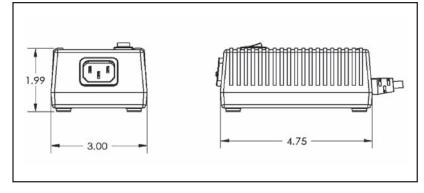
Mechanical

Size	3.25" (H) X 3.25" (W) X 1.73" (L)
Weight	18 oz (505 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

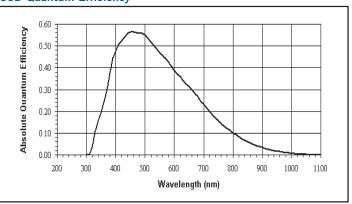
340M (shown with Gigabit Ethernet connector)



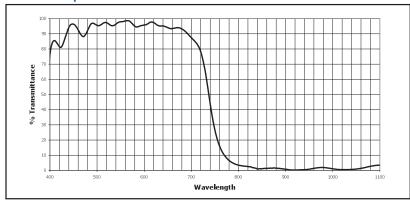
RoHS Compliant Switchmode Power Supply



CCD Quantum Efficiency



IR Filter Response





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