

**Additional Information
Available at:
www.dvcco.com**

Features

- High QE CCD
- Extended Near IR Response
- Resolution: 768(H) x 484(V) x 10 bits
- Fast Readout: 14.3 MHz
- Optional TE Cooler
- Long Exposure: Up to 300 sec
- High Signal / Noise Ratio: >62dB
- Binning Modes: 2x2
- Firewire (IEEE-1394) Interface
- RS-170 Analog Video
- DVCView™: Image Capture and Control Software
- Multi Platform API/SDK Available
- Asynchronous Trigger with Multiple Exposure Modes
- Ultra-stable In-camera Digitization
- No Mechanical Shutter Required
- CE / UL / CUL / FCC Certified



Description

The DVC-710M is a high resolution, high sensitivity digital camera utilizing a Sony 1/2" interlaced interline CCD sensor. The CCD sensor has a particularly high QE in the visible and near infra-red spectrum, providing higher sensitivity and wider spectral response than conventional cameras for most applications.

The DVC-710M features a Firewire interface for real-time digital video capture and an additional RS-170 analog video output for display on monitors or for auto-focus systems. The pseudo-progressive readout provides the highest possible resolution from the interlaced CCD.

The camera is supplied with **DVCView™**, a Windows 2000/XP or MAC OS X software program for real-time viewing and image capture. **DVCView™** allows the user to control all camera functions. Also included are streaming video to disk, image averaging and background correction. **DVCView™** provides 5 user-programmable single-click application controls. The DVC-710M is supported by many popular 3rd party programs.



Specifications

DVC-710M

CCD

1/2" interlaced interline CCD

Active Pixels	768 (H) X 484 (V)
Pick Up Area	6.45 mm X 4.74 mm □ (1/2" optical format)
Pixel Size	8.4 μm X 9.8 μm
Aspect Ratio	4:3

Digital Video

I/O	□ 10 bit IEEE-1394A (Firewire)
Readout Rates	14.31818 MHz
Binning	2X2: 384 x 242 @ 60 frames/sec.
Signal to Noise	>62 dB, @ 0dB gain
Sensitivity (light output required for full scale output)	□ .051 fc @ 0 dB gain, 30 frames/sec. □

Electrical

Input Voltage	110/220 VAC 50/60 Hz
Power	4 Watts
Clock	Internal Crystal Oscillator

Mechanical

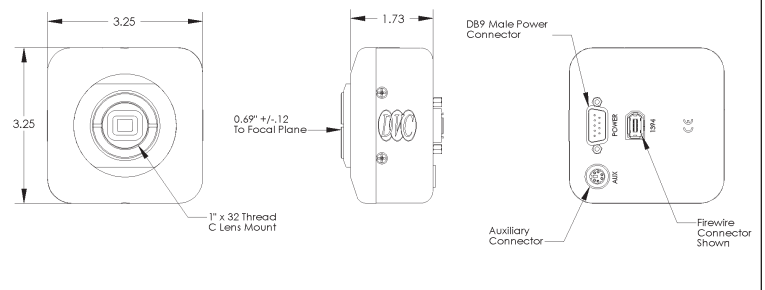
Size □	3.25" (H) X 3.25" (W) X 1.73" (L)
With TE Cooler	3.25" (H) X 3.25" (W) X 2.51" (L)
Weight □	18 oz. (505 grams)
With TE Cooler	30 oz. (900 grams)
Lens Mount	Standard C-mount
Camera Mount	1/4" X 20 Standard Tripod Mount
Digital Video Connector	Firewire: 6 pin 1394A
Analog Video and Auxiliary Connector	6 pin Mini-DIN
Power Connector	DB-9M

Camera Control

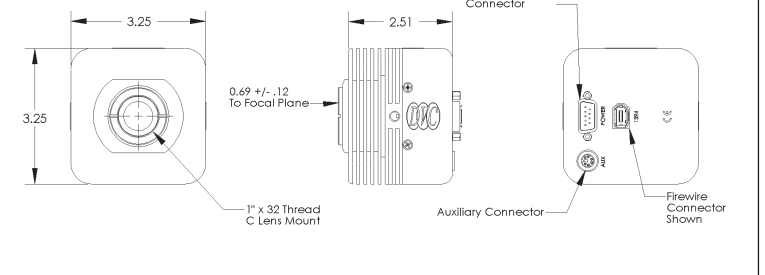
DVCView Interface Software Module, standard

Gain Control Range	30 dB
Offset Control (black)	0% to 6% in 16 steps
High Speed Shutter	63.5 μs to 16.67 ms
Integration Control	33.3 ms to 5 min.

710M-00



710M-TE Cooled



Linear Power Supply

