MicroLine CCD Camera

ML4240

The MicroLine ML4240 offers an outstanding combination of high quantum efficiency, large dynamic range, deep full well capacity, excellent cooling, and large imaging area, all in a compact form factor.

Technical Data

Sensor Type Back Illuminated CCD

Sensor e2v CCD42-40-1-368 (Midband)

 Active Pixels
 2048 x 2048

 Pixel Size (microns)
 13.5 x 13.5 μm

Imaging Area (Diagonal) 27.6 X 27.6 mm (39 mm)

Full Well Capacity 100000 electrons

(e-) Typical_Readout Noise 9 e- at 500 kHz; 14 e- at 2 MHz

Typical Gain 1.4 e-/counte-/ADU

Dynamic Range 80.6 dB
Anti-Blooming None

Cooling Method Air (Optional liquid)

Max. Cooling (Air) 55°C below ambient

Temperature Stability 0.1°C

Dark Current (typical) 0.2 eps at -30C

Interface USB 2.0

Digitization Clock 500 kHz and 2MHz

Data Bit Depth 16 bit
Non-Linearity <1%

Channels 1 (optional 2)

Shutter 45 mm

Lens Mount Optional Nikon or Canon

Subarray Readout Standard

External Trigger In/Out Standard

SDK / Software USB2 / FLIGrab

Weight 2.8 lbs (1.2 kg)

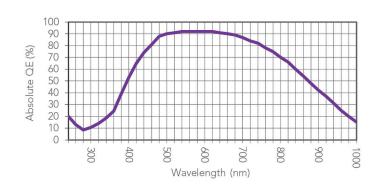
Environment -30°C to 45°C | 10% - 90% Relative

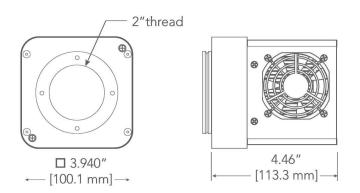
Power Humidit

12V (100-240V AC to 12V DC power supply included). With TEC off: <1A. TEC at 100%: 4.4A. Shutter open: 4A pulse for 100msec. Shutter held open, add 0.22A.



Absolute Quantum Efficiency





See www.flicamera.com for alternate configurations



Finger Lakes Instrumentation www.flicamera.com USA 585-624-3760