



ST-402ME

Typical Specifications



CCD	
CCD	Kodak KAF-0402ME
Pixel Array	765 x 510 pixels
CCD Size	6.9 x 4.3 mm
Total Pixels	390,000
Pixel Size	9 x 9 microns
Full Well Capacity	~100,000e-
Dark Current	1e- / pixel / sec at 0°C
Antiblooming	Optional

Readout Specifications	
Shutter	Electromechanical
Exposure	0.09 to 3600 seconds, 10ms resolution
Correlated Double Sampling	Yes
A/D Converter	16 bits
A/D Gain	1.5e- unbinned, 2.0e- binned 2x2, 3x3 (1.0e- and 1.4e- for ABG CCD)
Read Noise	13.8e- RMS Typical
Binning Modes	1 x 1, 2 x 2, 3 x 3
Pixel Digitization Rates	Up to 800,000 pixels per second with USB 2.0
Full Frame Download	<1 second

System Specifications	
Cooling – enhanced	Single Stage Thermoelectric, Active Fan, -30°C from Ambient Typical
Cooling – standard	Single Stage Thermoelectric, Active Fan, -20°C from Ambient Typical
Temperature Regulation	±0.1°C
Power	12VDC, power supply included
Computer Interface	USB 2.0 (USB 1.1 compatible)
Computer Compatibility	• Windows 98 / 2000 / Me / XP • Mac OSX

Physical Dimensions	
Optical Head	5 x 4 x 2.5 inches (including fan)
CPU	All electronics integrated into Optical Head, No CPU
Mounting	T-Thread, 1.25" nosepieces included
Weight	Approx. 20 oz. (0.6kg)
Backfocus	0.69 inches (C-mount compatible)

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