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ST-10XME and ST-10XMEI

Typical Specifications



CCD	
CCD	Kodak KAF-3200ME + TITC-237
Pixel Array	2184 x 1472 pixels
CCD Size	14.9 x 10 mm
Total Pixels	3.2 million
Pixel Size	6.8 x 6.8 microns square
Full Well Capacity	~77,000e-
Dark Current	0.5e- / pixel / sec at 0°C
Antiblooming	n/a

Readout Specifications	
Shutter	Electromechanical
Exposure	0.12 to 3600 seconds, 10ms resolution
Correlated Double Sampling	Yes
A/D Converter	16 bits
A/D Gain	1.3e- / ADU
Read Noise	8.8e- RMS
Binning Modes	1 x 1, 2 x 2, 3 x 3
Pixel Digitization Rates	Up to 420,000 pixels per second
Full Frame Download	~8.7 seconds

System Specifications	
Cooling – standard	Single Stage Thermoelectric, Active Fan, Water Assist, -45°C from Ambient Typical with water, -35°C w/air only
Temperature Regulation	±0.1°C
Power	5VDC at 1.5 amps, +/-12VDC at 0.5 amps, power supply included
Computer Interface	USB 1.1
Computer Compatibility	<ul style="list-style-type: none"> • Windows 98 / 2000 / Me / XP • Mac OSX
Guiding	Dual CCD Self-Guiding with built-in TC-237 CC

Physical Dimensions	
Optical Head	5 inches diameter x 3 inches 12.5 cm diameter x 7.5 deep
CPU	All electronics integrated into Optical Head, No CPU
Mounting	T-Thread, 2" nosepieces included
Weight	Approx. 2 pounds (0.9kg)
Backfocus	0.92 inches (2.3 cm)

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