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ST-8300M and ST-8300C

Typical Specifications



CCD	
CCD	Kodak KAF-8300
Pixel Array	3326 x 2504 pixels
CCD Size	17.96 x 13.52 mm
Total Pixels	8.3 million
Pixel Size	5.4 x 5.4 microns square
Full Well Capacity	~25,500e-
Dark Current	~0.02e- / pixel / sec at -15°C
Antiblooming	1000X

Readout Specifications	
Shutter	Mechanical, Even-illumination
Exposure	0.1 to 3600 seconds, 10ms resolution
Correlated Double Sampling	Yes
A/D Converter	16 bits
A/D Gain	0.37e- / ADU
Read Noise	~9.3e- rms
Binning Modes	1 x 1, 2 x 2, 3 x 3, 9x 9, 1 x n
Pixel Digitization Rates	> 1 million pixels per second
Full Frame Download	~7.5 seconds
Focus Mode	~1 second

System Specifications	
Cooling – standard	Single Stage Thermoelectric, Active Fan, max delta -40°C, -35°C regulated at ~80% power
Temperature Regulation	±0.1°C
Power	12VDC at 3 amps, universal power supply included
Computer Interface	USB 2.0
Computer Compatibility	<ul style="list-style-type: none"> • Windows (<i>all Windows O/S supporting USB 2.0 including Vista 32 bit and 64 bit, and Windows 7</i>) • Mac OSX 10.5 or later (<i>will work with PPC and Intel based machines</i>) • Linux (<i>3rd party</i>)

Physical Dimensions	
Camera Body	2 x 4 x 5 in. (50 x 100 x 127mm)
Mounting	T-Thread, 2" nosepiece included, C-mount and Nikon 35mm lens compatible with optional adapters
Weight	Approx. 1.8 pounds / 0.8kg
Backfocus	0.69 inches / 17.5 mm

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