

STL-11000M and STL-11000CM

Typical Specifications

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CCD	
CCD	KAI-11002M / KAI-1002CM (Color)
Total Pixels	II million
Array	4008 x 2672 pixels (35mm film format)
CCD Dimensions	36 x 24.7 mm
Pixel Size	9 x 9 u
ССD Туре	Interline
CCD Class Available	Class 1, 2
ABG/NABG	ABG only
Full Well Capacity	50,000e-
Dark Current e-/p/s at 0°C	0.5e-
Read Noise	I 3e- RMS
Gain e-/ADU	0.8 unbinned / 1.6 binned
Full Frame Download	~26 seconds
Antiblooming	Yes
Peak QE	50%
Focal Length at I arcsecond per pixel	73 inches
FOV at 1 arcsecond per pixel	I.I x 0.74 degrees

Camera Mechanical Specifications		
Dimensions	$6.5 \times 6 \times 3.5$ inches (16.5 \times 15.2 \times 8.9 cm) excluding nosepiece and handles	
Weight	Approx. 4 lbs. (1.8kg) without filters	
Computer Interface	USB 1.1 (transfer rate approx. 425,000 pixels/second)	
Telescope Interface	Threaded accessory ring, mounting plate and 2" nosepiece supplied, Nikon 35mm lens adapter optional	
Filter Wheel	5 position internal carousel accepts 48mm threaded filter cells and 2" unmounted round filters	



Shutter	Internal Mechanical Shutter on all cameras, plus electronic shutter on Interline CCDs
Cooling	2 stage thermoelectric, water circulation, - 40°C below ambient with uncooled water, regulated to +/- 0.1 degree (~32°C air only). Further cooling may be achieved by using water cooled below ambient and above the dew point.
Backfocus	Approximately 1.7 inches +/- 0.1 inches (~4.3 cm +/- 0.25 cm) with 2" nosepiece attached
Power Requirements	10 – 18VDC, 12VDC nominal, Universal 110 - 220VAC to 12VDC desktop supply provided (extension cord and 12VDC field power cord are optional)
Carrying Case	Pelican 1550 Case with custom cut foam insert
Software	CCDOPS ver. 5.xx, CCDSoftV5, CCDSharp, TheSky v.5, level II

Remote Head Mechanical Specifications		
Dimensions	$2.75 \times 2 \times 2$ inches (7 x 5 x 5 cm) excluding nosepiece and desiccant plug	
Weight	Approx. 0.5 lbs. (0.23kg)	
Computer Interface	USB 1.1 through main camera to computer. Proprietary protocol between remote head and camera body.	
Telescope Interface	T-thread or supplied 1.25" nosepiece, optional T-thread to C-mount and 35mm camera lens adapters	
Shutter	Internal Mechanical Shutter for dark frames plus electronic shutter for short exposures	
Power Requirements	None (Remote head receives power through the head cable from the main camera)	
Mounting connections	I/4-20 threaded hole on side of camera housing	

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