

STL-6303E

Typical Specifications

a division of Aplegen, Inc.



KAF-6303E/LE
6.3 million
3072 x 2048 pixels
27.7 x 18.5 mm
9 x 9 u
Full Frame
Class 1, 2
NABG standard / ABG on request
100,000e-
0.3e-
I3.5e- RMS
I.4 unbinned / 2.3 binned
~15 seconds
Optional
68%
73 inches
0.9 x 0.6 degrees

Camera Mechanical Specifications	
$6.5 \times 6 \times 3.5$ inches ($16.5 \times 15.2 \times 8.9$ cm) excluding nosepiece and handles	
Approx. 4 lbs. (1.8kg) without filters	
USB 1.1 (transfer rate approx. 425,000 pixels/second)	
Threaded accessory ring, mounting plate and 2" nosepiece supplied, Nikon 35mm lens adapter optional	
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	

© 2011 Aplegen, Inc. All rights reserved. The Aplegen wordmark and logo are trademarks of Aplegen, Inc. All other trademarks, service marks and tradenames appearing in this brochure are the property of their respective owners.

Santa Barbara Instrument Group, a division of Aplegen, Inc. | 147-A Castilian Drive, Santa Barbara, CA 93117 t 805.571.7244 | f 805.571.1147 | w www.sbig.com | e sbig@sbig.com