

Model STF-8300

The new Model STF-8300 is SBIG's second-generation camera using the popular KAF-8300 CCD. The STF-8300 has new, faster, electronics with 10-megapixel/second digitization rate and a full frame image buffer. A high res image will download in less than one second. The camera uses SBIG's traditional even-illumination (photometric) shutter design and adds a user rechargeable desiccant plug similar to the proven ST, STL, and STX designs. Integrated 5-position and 8-position filter wheels are available as well as a new integrated, low profile, wide field off-axis guiding accessory that, with the ST-i, turns the STF-8300 into a self-guiding camera. SBIG will offer several packages that include the most popular configurations of these accessories for extra savings when purchased together. The initial list US List Price for the STF-8300 Mono or Color Camera is \$2495.

Special Packages Include:

- I. OAG Package** includes the camera, FW5 filter wheel, off-axis guider and custom Pelican Case for \$3695
- II. Self-Guiding Package** includes the OAG package plus the ST-i Autoguider for \$4195.
- III. The Pro Package** includes the Self-Guiding package plus a set of Baader 36mm LRGB and H-alpha filters for \$4595.
- IV. The Pro Plus** package includes Pro package with an 8-position filter wheel upgrade and a complete set of 36mm LRGB, H-alpha, O-III and SII filters for \$4995

Low Profile, Wide Field Off-Axis Guider

The new **Low Profile Off-Axis Guider** is designed with a 7-element relay lens system that places the position of the guide camera to the side of the main camera and filter wheel. This allows



a minimum impact on overall backfocus.

The same lens system also

acts as a 0.7X focal reducer that doubles the field of view of the guide camera compared to a typical off-axis system. The OAG adds only ¼ in. (19mm) backfocus to the camera and filter wheel. The guide camera can also be rotated in 90 degree increments about the OAG to orient the guide camera and cables in a convenient

The OAG can be used on both mono can color cameras (with appropriate adapter) and is 100% backward compatible with all ST-8300 cameras. US List price for the OAG is \$995.



STF-8300 Preliminary Specifications

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CCD	Kodak KAF-8300
Pixel Array	3326 x 2504
CCD Size	17.96 x 13.52 mm
Total Pixels	8.3 Million
Full Well Capacity	~25,500 e-
Dark Current	0.002e-/p/s @ -10C
Antiblooming	1000X
Shutter	Even-Illumination, Mechanical
Exposure	0.09 to 3600 seconds
A/D Converter	16 bit
Gain	0.37e-/ADU
Read Noise	~9.3e-
Binning Modes	1x1, 2x2, 3x3, etc. - 15x15
Digitization Rate	10 Megapixels / Second
Full Frame Download	Less than 1 second
Cooling	-40C max. from ambient
Temp. Regulation	+/- 0.1 degree
Power	12VDC, 3 amps max
Interface	USB 2.0
Computer Compatibility	All Windows O/S, 32-bit and 64-bit, Mac OSX
Camera Body Size	2 x 4 x 5 in (50x100x127mm)
Mounting	T-thread, 2" Nosepiece
Weight	1.8 pounds (0.8 kg)
Backfocus	0.69 inches (17.5 mm)