

# SBIG® STC-7

THE COMPLETE IMAGING PACKAGE



Take stunning astrophotos with this all-inclusive imaging package. The SBIG STC-7 features an ultra-sensitive and low noise 7 megapixel cooled CMOS sensor, integrated 8 position filter wheel, plus a complete set of LRGB and narrowband filters, and an opaque filter for convenience in making dark frames.

Get stunning images on your first night. You can easily connect the STC-7 to your telescope via either the front T-Thread mount or the included 2" focuser adapter. The integrated filter wheel design ensures minimal back-focus distance for maximum compatibility with modest-sized refractors, and small catadioptric or Newtonian telescopes.

The STC-7 package also includes MaxIm LT for Windows – all the software you need to take images, calibrate, stack, and do essential image processing. Other software is supported via included ASCOM drivers.

For even better results, the STC-7 is compatible with our SBIG StarChaser SC-4 off-axis guide camera for accurate guiding of your telescope. The StarChaser also supports the SBIG AO-8A adaptive optics accessory, which helps you get pinpoint star images.



## The SBIG STC-7 camera highlights:

High sensitivity, low noise 7.1 megapixel Sony IMX428 imaging sensor for results in less time	Integrated 8-Position Filter Wheel with LRGB + Halpha, OIII, and SII filters, plus an opaque filter for dark frames. No need to buy extras
Electronic global shutter for fast exposure times (0.001 to 3600 s) for bright and faint targets	Compatible with SBIG StarChaser SC-4 off-axis guiding camera for precise star tracking
High-speed USB 3.0 interface and USB 2.0 compatible for longer cables	Supports AO-8A adaptive optics unit via StarChaser SC-4 makes real-time corrections
StackPro™ automatic in-camera sub-exposure stacking saves disk space	MaxIm LT control software so you are ready to go on the first night
Regulated two-stage cooling with delta T of -30°C for low noise on warm nights	Multiplatform software API and sample code available for software developers
SmartCooling™ active temperature regulation to 0.1°C for high calibration stability	

### TECHNICAL SPECIFICATIONS

A/D Converter	12-bit with dual gain modes
Adaptive Optics Option	AO-8A via StarChaser SC-4
Binning Modes	1x1, 2x2
Computer Interface	USB 3.0, USB 2.0 compatible
Cooling Delta	Approximately 30°C
Dark Current	0.1 e-/p/s at -5°C
Exposure	0.001 – 3600 s
Filter Wheel	Built-in 8 position, 7 quality filters included
Imaging / Pixel Array	3208 x 2200 pixels
Imaging Sensor	Sony IMX428 CMOS sensor
Off-Axis Guider	StarChaser SC-4 recommended option
Peak QE	78% typical
Pixel Size	4.5 x 4.5 µm
Power	12VDC, 4A max
Read Noise (Typical)	1.9 e- High Gain, 2.5 e- Med Gain, 5 e- Low Gain
Sensor Size	14.4 mm X 9.9 mm
Shutter	Global Shutter (electronic), Opaque Slot on Filter Wheel for Dark Frames
Temperature Regulation	Yes
Total Pixels	7.1 megapixel

### OPTIONAL ACCESSORIES

Model	Description
SC-4	Off-Axis Guider Camera
SBIG Ao-8A	Adaptive Optics

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