DIFFRACTION
ASTRONOMY + SCIENTIFIC IMAGING SOLUTIONS

## SBIG® STC-7

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-2 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.

# ACHIEVE YOUR VISION

## The SBIG STC-7 camera highlights:

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|---|---|
| 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-2 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-2 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 | |

# SBIG® STC-7

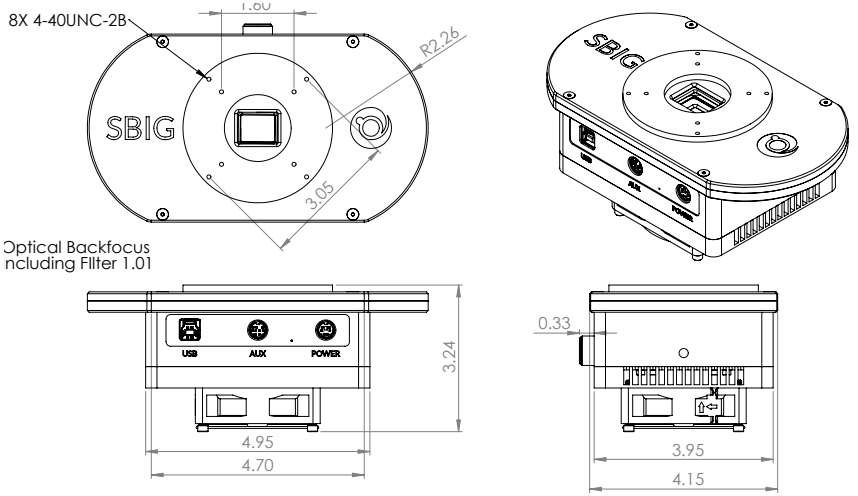
## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| A/D Converter | 12-bit with dual gain modes |
| Adaptive Optics Option | AO-8A via StarChaser SC-2 |
| Binning Modes | 1×1, 2×2 |
| 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-2 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

SBIG AO-8A Adaptive Optics

StarChaser SC-2 / AO-8A Bundle

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ORDER THE SBIG SCIENTIFIC CAMERA OF YOUR DREAMS THIS YEAR FROM OUR WORLDWIDE NETWORK OF DEALERS

Specifications subject to change without notice – December 2022