

## SBIG® STARCHASER™ OFF-AXIS GUIDING CAMERAS

### THE WORLD'S FIRST THREE-IN-ONE GUIDING CAMERAS

Diffraction Limited's SBIG StarChaser SC-2 and SC-3 are the world's first all-in-one independent off-axis guiding cameras with adaptive optics support. The StarChaser operates independently of the main camera. Its clever design combines a pick-off mirror, guider camera, guide port and adaptive optics control.



Stop wasting time with ruined exposures caused by flexure between the main camera and guider. Off-axis guiding eliminates this problem by using the same optical path for the main camera and the guider. Unlike most off-axis guider assemblies that are awkward to use, consume too much back focus, and require you to precisely position a camera inside an eyepiece holder, the slim, integrated design of the SBIG StarChaser makes this a breeze.

The StarChaser SC-2 works with the SBIG STF, STC and ALUMA series cameras, the FW8-8300 and FW8S-ALUMA standard filter wheels respectively, and the optional AO-8A adaptive optics unit. The larger SC-3 works with the SBIG STX/STXL and AC-series cameras and optional AO-X tip-tilt adaptive optics units.

## ACHIEVE YOUR VISION

The SBIG StarChaser features include:

Monochrome astronomical CMOS sensor	1280 x 1024 CMOS sensor with 4.8 $\mu\text{m}$ pixels, an ideal match for common telescopes
Electromechanical shutter	Convenient dark frames, ideal for robotic automation
Adjustable pick-off mirror	Easy focus and simple to lock in position with minimal vignetting
USB 2.0 interface	Supports longer cable lengths than USB 3.0
ST-4 guide port	Controls telescope mount for round stars, precise tracking
Auxiliary control port	Control optional tip/tilt adaptive optics unit
ASCOM Standard and DL Imaging drivers and Software Development Kit available	Windows 10 and 11 compatible. Contact us regarding additional platform support.
Cyanogen Imaging® MaxIm LT Imaging software	Get up and running immediately with the included image acquisition and processing software. Upgradable to MaxIm DL Pro for robotic automation, telescope and observatory control

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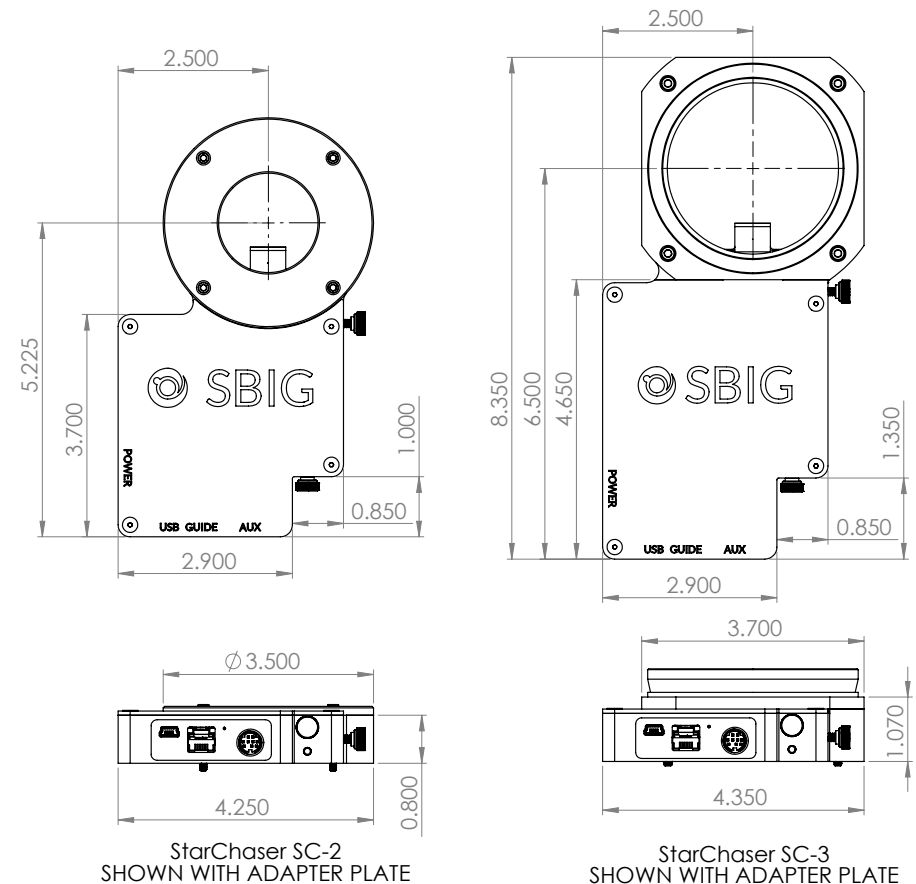
SBIG MODEL NAME	STARCHASER SC-2 / SC-3
Active pixels	1280 x 1024
ADC resolution	10-bit
Full well capacity	10 000 e-
Illumination	Front
Light path	SC-2 has 2-inch, SC-3 has 3-inch
Peak quantum efficiency	60%
Pixel size	4.80 μm
Read noise	5.0 e-
Sensor	1.3 Mpixel
Sensor diagonal	7.9 mm
Sensor dimensions	6.2 x 5.0 mm
Shutter	Electro-magnetic dark shutter

## VARIANT

<b>SC-2</b>	for ALUMA CCD, SBIG STC, and small sensor STL cameras
<b>SC-3-LONG</b>	for SBIG STX cameras or third party cameras needing large back focus
<b>SC-3-SHORT</b>	for ALUMA AC, SBIG STXL and large sensor STL cameras

## OPTIONAL ACCESSORIES

ADAPTIVE OPTICS UNIT: AO-8A, AO-8T WITH ADAPTER CABLE, AO-X (SC-3)	
STL TO SC-2 ADAPTER	
STL TO SC-3 ADAPTER	



StarChaser SC-2  
SHOWN WITH ADAPTER PLATE

StarChaser SC-3  
SHOWN WITH ADAPTER PLATE

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Specifications subject to change without notice – December 2022

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