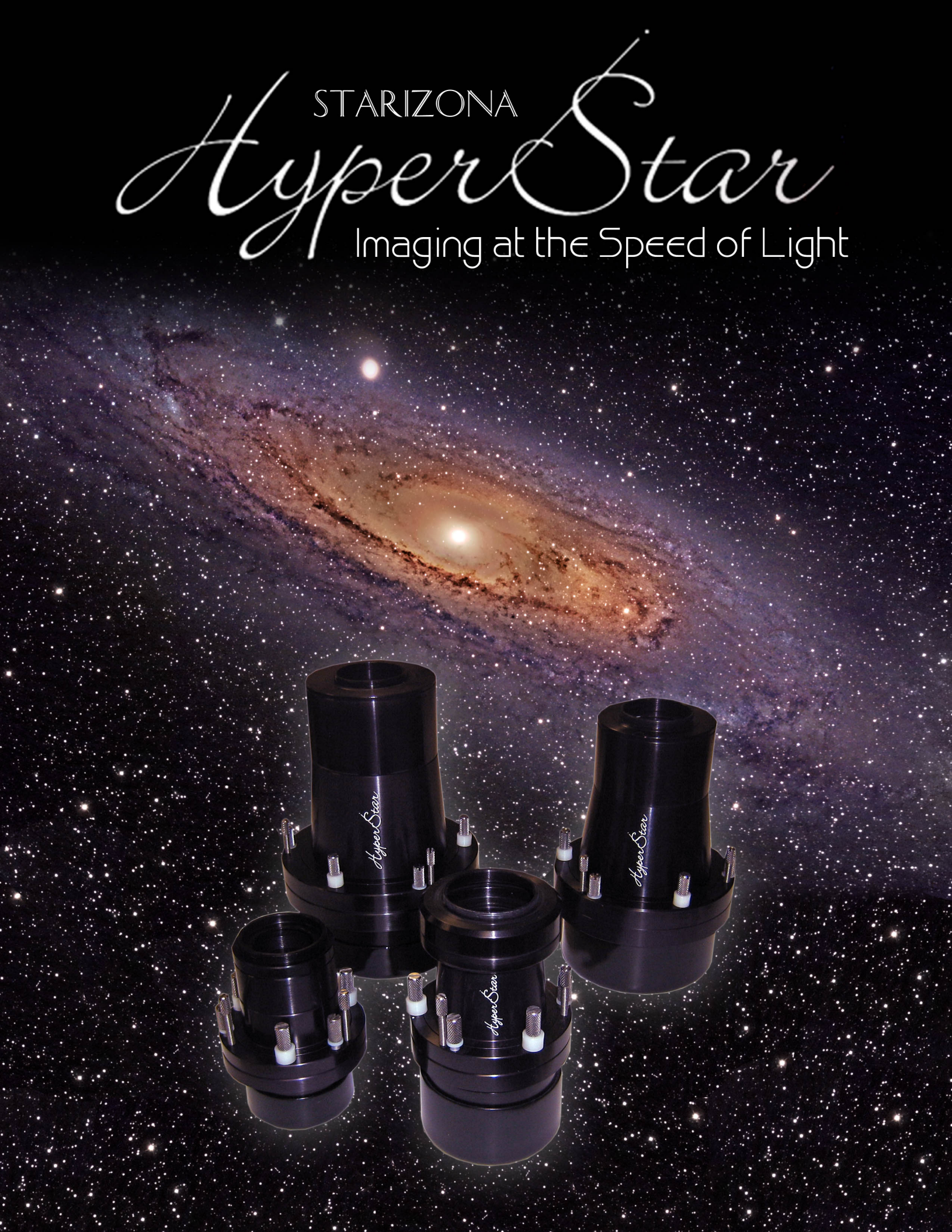
STARIZONA

HyperStar

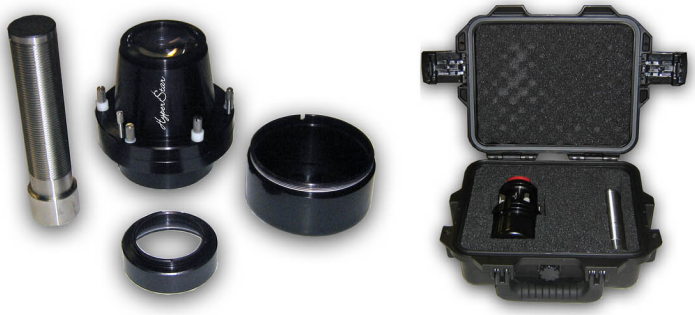
Imaging at the Speed of Light



The HyperStar lens converts a standard Schmidt-Cassegrain telescope to a fast imaging system. The lens quickly and easily replaces the secondary mirror in the telescope, allowing a camera to be attached at the front of the telescope. The telescope is converted from an f/10 system to an ultra-fast f/2!

At f/2, exposures are 25 times shorter, the field of view is 5 times wider, and the entire process of deep-sky imaging is simplified. There is no need to guide the telescope, and it is even possible to image in alt-az configuration without a wedge or equatorial mount! Switching between f/10 and f/2 and back takes just minutes.

The image quality with HyperStar is superb. Stars are pinpoints across a huge flat field of view. Star sizes are up to 12 times smaller at f/2 than at f/10, rivaling images taken with top-quality apochromatic refractors, but much faster and more easily!



Each HyperStar lens comes complete with secondary mirror holder to protect the telescope's mirror while out of the scope, one user-specified camera adapter (with other adapters available separately), and a custom-fit hard carrying case. C8 and C11 models also include a counterweight for balancing fork-mounted telescopes.

The largest HyperStar, the C14 model operates at f/1.9 and covers a 27mm APS-size sensor. The HyperStar C14 is compatible with digital SLR cameras as well as a variety of CCD cameras.

Like its bigger brother, the HyperStar C11 works with DSLRs and CCD cameras, covering a 27mm sensor. The HyperStar C11 converts the telescope to f/2.0.

The HyperStar C8 works at f/2.0 and covers a 27mm CCD sensor. It produces the widest true field of any of the HyperStar lenses.

The baby of the family, the HyperStar C6 speeds up a 6" SCT to f/1.9 and works with CCD sensors up to 11mm. It's ideal for low-light video systems as well.

Specifications

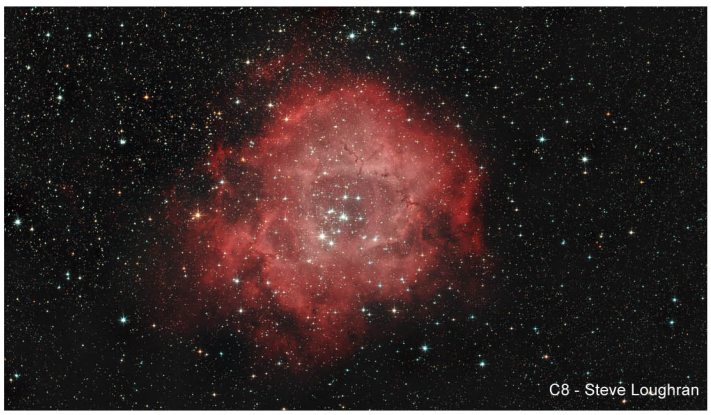
HyperStar C14
f/1.9 Focal Ratio
675mm Focal Length
Maximum Sensor Size: 27mm
Widest True Field: 2.4 degrees
DSLR Compatible
Size: 6.1” x 4.9”
Weight: 3.5 lbs.
Collimation Adjustable
Independent Camera Rotation


C14 - Jeff Thrush

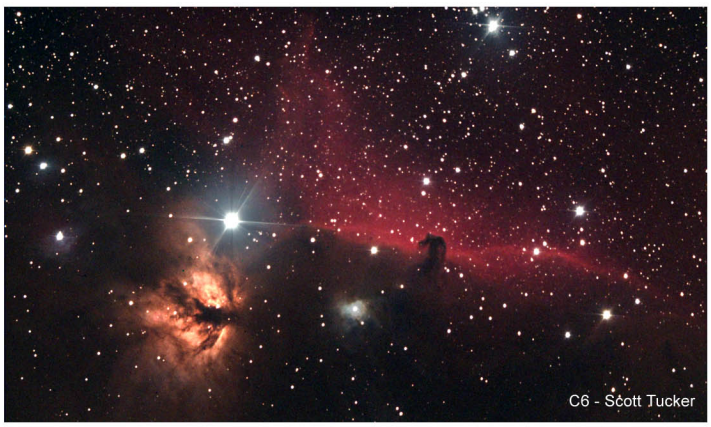
HyperStar C11
f/2.0 Focal Ratio
560mm Focal Length
Maximum Sensor Size: 27mm
Widest True Field: 2.9 degrees
DSLR Compatible
Size: 4.4” x 3.4”
Weight: 2.2 lbs.
Collimation Adjustable
Independent Camera Rotation


C11 - Greg Parker & Noel Carboni

HyperStar C8
f/2.0 Focal Ratio
406mm Focal Length
Maximum Sensor Size: 27mm
Widest True Field: 4.0 degrees
Size: 3.2” x 3.0”
Weight: Less than 1 lb.
Collimation Adjustable
Independent Camera Rotation


C8 - Steve Loughran

HyperStar C6
f/1.9 Focal Ratio
290mm Focal Length
Maximum Sensor Size: 11mm
Widest True Field: 2.2 degrees
Size: 2.6” x 2.8”
Weight: Less than 1 lb.
Collimation Adjustable
Independent Camera Rotation


C6 - Scott Tucker

Starizona also manufactures a variety of accessories which are perfect compliments to the HyperStar system. The Feather-touch SCT Microfocuser replaces the original focus knob on an SCT and provides an ultra-smooth 10:1 fine focus adjustment. Add the MicroTouch autofocuser and getting the perfect image has never been easier!

The MicroTouch autofocuser features wireless capability, temperature compensation, digital readout, and more. Its motor runs the fine-focus knob of the Feathertouch SCT Micro-focuser and provides extremely precise autofocusing capabilities. The MicroTouch includes stand-alone software control and is ASCOM complient for operation with FocusMax software and other programs.