ASTRO-PHYSICS

140mm f7.5 StarFire EDF

Roland Christen at NEAF with the 140mm f7.5 StarFire EDF and 900GTO mount

Astro-Physics introduced the prototype of this new triplet apochromatic refractor at the Northeast Astronomy Forum (NEAF) on April 28, 2007.

This new triplet refractor features exquisite Astro-Physics optics and will have the latest multi-coating technology, just like our 160mm StarFire. It will be offered with your choice of Astro-Physics 2.7” or 4” focusers. The rotating focuser collar will enable you to frame your photos for optimal, artistic composition.

Roland designed this scope with approximately the same focal length our original 155mm f7 StarFire (and 130 f8 and f8.3 StarFires), so that it can be used with all of the same specialized astrophotography/imaging accessories that were designed for the 155 including the 4” Field Flattener (S155EDFFF), 2.7” Field Flattener (67PF582) and the new dedicated CCD Telecompressor (155TCC). The idea of the 140F7.5 was to present a lower cost option to the 160F7.5 while maintaining the same imaging abilities of the larger 155mm f7 StarFire EDF. With the 4" field flattener, it will cover a 100mm circle at F7.8, and with the new 155TCC it will cover approximately 57mm circle at F5.7. We are certain that astro-imagers, as well as visual observers, will find this scope a real joy to use.

Production is well underway for this refractor with the first shipments expected in early summer of this year. As long-time Astro-Physics fans know, we have not had a notification list for a 140mm scope. Although the notification process has not been finalized, our current plan is to send final information and pricing to all people on the 130f8 StarFire list from years ago and to all people that sign up on the new 140 notification list.

Specifications

Color correction:	Less than +- 0.004% from 656mm to 430mm (c to g wavelengths)
Clear aperture:	140mm (5.5”)
Focal length:	1050mm (41.4”)
Photographic speed:	f7.5
Theoretical resolution:	0.8 arc seconds
Lens Design:	Oil-spaced apochromatic triplet in precision-machined, push-pull cell
Coatings:	Multi-layer, broadband, overall transmission 97% in peak visual wavelengths
Magnification:	18x to 550x
Tube:	White, 6.5” diameter, machined aluminum, fully baffled, flat black interior, push-pull lens cell, engraved retaining ring
Focuser type:	2.7” I.D. Focuser with rotating collar, rack and pinion with FeatherTouch Micro 9:1 dual-speed reduction, 4.4” travel, 2” and 1.25” adapters. 4” Focuser is optional.
Telescope length:	940mm (37”) with the dewcap fully retracted
Dewcap:	Retractable, 184mm (7.25”) OD including paint thickness
Weight with dewcap:	11kg (24 lb.)
Carrying case:	Wood case with grey vinyl covering and foam-lined interior

Photographic Field

35mm Photographic field at prime focus:	1.25 x 1.8 degrees @ f7.5
35mm Photographic field with 2.7” telecompressor (27TVPH)	1.7 x 2.5 degrees @ f5.75
35mm Photographic field w/ 2X Barlow:	0.63 x 0.9 degrees @ f15

Specifications subject to change