Veloce RH250

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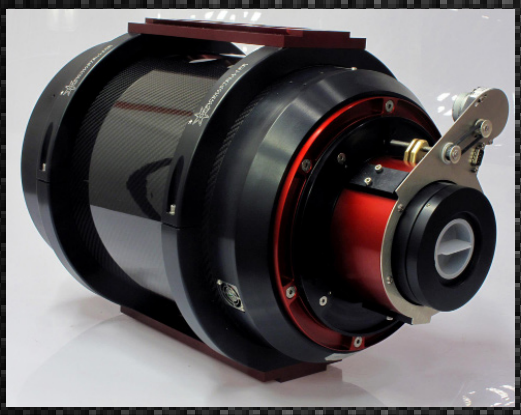
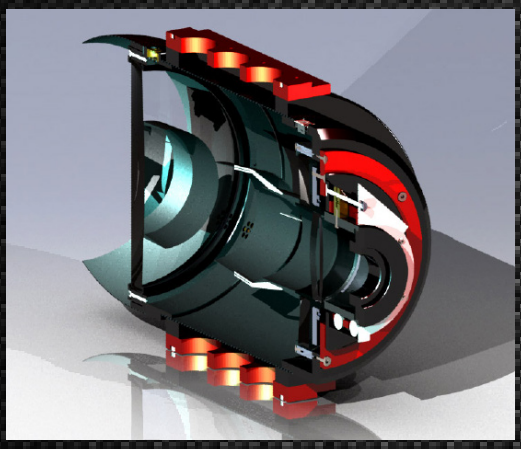
SPECIFICATIONS:

Optical set:	Riccardi-Honders, flat field, improved design
Primary mirror (Mangin) diameter:	225 mm
Font corrector lens diameter:	270 mm
Focal ratio:	F/5.6
Focal length:	1400 mm
Linear obstruction:	52%
Full corrected and illuminated field:	60 mm
Dimensions:	630 (with light shield) L x 318 Ø mm
Weigth:	20 Kg
Back focus length from back plate:	200 mm
RMS polychromatic (430 to 700 nm) spot size:	max 3.6 micron at field edge





RH250 is a special version respect rest of Veloce series. It's not f/3 open, but f/5.6. Because this telescope was designed for a scientific project and its performance were so good we decided to put into production. Only consider stars with 3.6 micron spot size not on axis, but on field edge: this gives you the measure on how much powerful is this telescope. If you are looking for an amazing detailed optic, RH250 is your choice.

Standard configuration:
Special, thermo compensated material, close tube design. Carbon fibre light shield. Unique and innovative cells design and exclusive double stage splitted internal light baffle, back tip-tilt plate, easy collimation system, two Losmandy dovetail. Cap cover.

Optional accessories: Reducer, Fly Case, custom imaging train parts and more.

DISCOVER MORE ON: WWW.OFFICINASTELLARE.COM

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Veloce RH250

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Veloce Series by Officina Stellare: THE NEW CONCEPT IN WIDE FIELD AND HIGH SPEED!

Our brand new RH 250 F/5.6 Riccardi-Honders astrograph represents one of the true innovation in optics of the past few years. Born from the intuition of the Italian designer Dr. Massimo Riccardi as a variant of the original Honders design, this new configuration achieved the purpose of combining a fast F/5.6 focal ratio with a flat, DIFFRACTION LIMITED TO THE EDGE, very large diameter, 60 mm imaging field. In addition to these amazing optical performances, the Veloce RH 250 instrument is distinguished by an impressive compactness, unique in its kind, making them very easy to transport and easy to install on typical amateur mounts. The Veloce RH 250 is the perfect instruments for those astroimagers who are searching for a very large, corrected, field. Large nebulas or stars field will be deeply reproduced with very high resolution and full details. The intermediate focal lenght of the RH 250 make it really versatile and perfect for the great majority of deep sky wonders. In addition, this less critical F/ratio gives to the astroimager a new ease of use, ease of collimation and alignment of the field.

Optics

The back surface reflection of the primary mirror (called Mangin) is the main characteristic distinguishing the Riccardi-Honders optical design. Combining the reflecting and double refracting action (the incoming light passes twice through the full thickness of the primary mirror) of this element it is possible to obtain a greater optical correction while maintaining the instrument extremely compact. The optical design includes a full aperture corrector plate and it is completed with a two element flattener group situated before the focal plane. This complex optical system guarantees to the astroimager a greater off-axis correction even with a fast F/5.6 focal ratio.

Mechanics

Thanks to the most recent optical and mechanical design software used during the develop, the Veloce RH 250 has a very stable focal position versus temperature shift during imaging sessions, an essential condition when using instruments with such a fast focal ratio. All the mechanical parts are produced using only the finest materials available, such as special lightweight aluminum/Ergal, stainless steel and bronze. The tube is designed and optimized with CAD and computer support modelling to achieve the best rigidity and lightness. All parts are full CNC machined to guarantee the best possible precision. The high resistance anodization is chosen for unbeatable resistance to environmental conditions. Absolutely innovative in the Veloce RH 250 astrograph is the special splitted double stage layout of the internal light baffle. This solution make possible the dream of a completely protected versus stray light large field and a fast focal ratio, keeping low the total obstruction of the system. Finally, the very long extraction of focal plane position allows to use complex imaging trains, both with CCD or the more popular digital reflex cameras.

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