Veloce RH200 MKII

ATHERMAL VERSION

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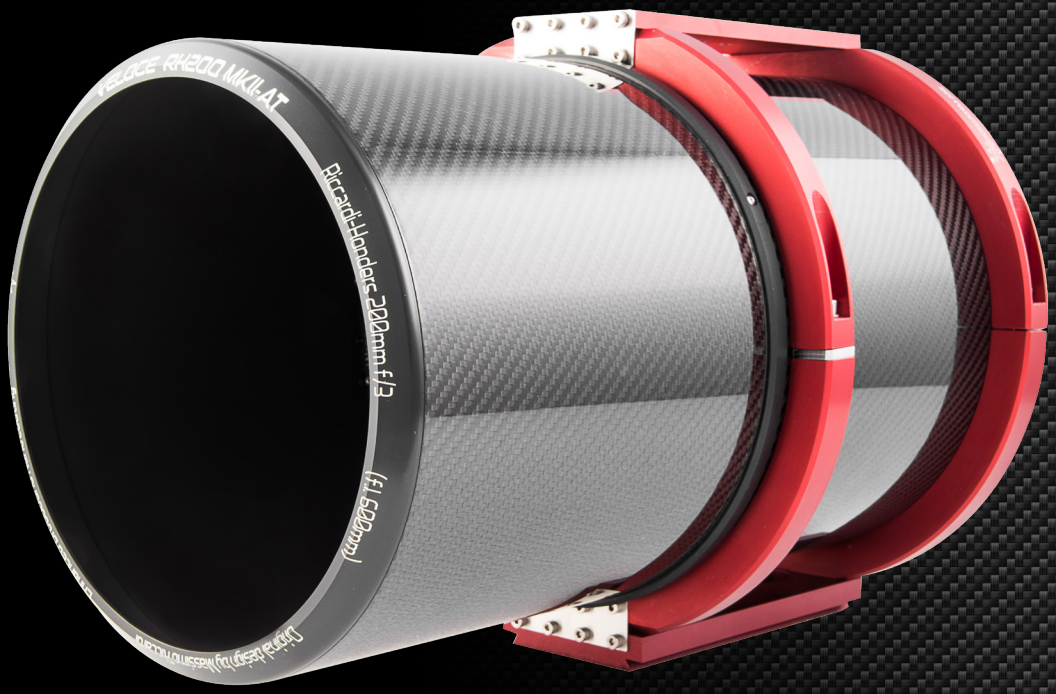
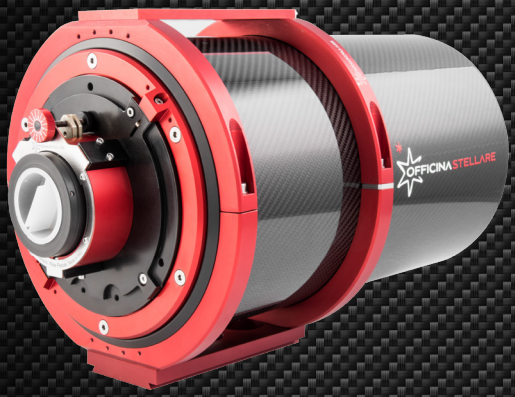


SPECIFICATIONS:

Optical set:	Riccardi-Honders, flat field, improved design
Primary mirror (Mangin) diameter:	190 mm
Font corrector lens diameter:	220 mm
Focal ratio:	F/3
Focal length:	600 mm
Linear obstruction:	55%
Full corrected and illuminated field:	42 mm (24x36 mm full format)
Dimensions:	248 (419 with light shield) L x 252 W x 282 H mm
Weigth:	9 Kg
Back focus length from back plate:	115 mm
Back focus length from full in standard focuser:	about 65 mm
RMS polychromatic (430 to 700 nm) spot size:	max 9.4 micron at field edge



A big evolution step of the iconic Veloce RH200 AT OTA. You can now expect an even better large field photographic performance thanks to an innovative light baffles coating will give you a much better reduction of ghosts and scattered light. In addition, the new MARK II version uses an improved tip-tilt adjustment much more precise and easy to set also with heavy and complex image train.
This new tip-tilt plate can be also equipped with motors to allow a remote control of the feature with our software. This version is definitely recommended for large size sensors and heavy cameras. Provided with FF72 focuser, FFC focus controller and TIP TILT MOTORS are optionals.

Standard configuration: athermal carbon closed tube with removable dewshield. Unique and innovative cells design, back tip-tilt plate, easy collimation system, piggy back camera support, losmandy dovetail, 72 mm clear diameter FineFocus manual focuser. Cap cover.
Optional accessories: Digital motor, tip tilt motors, FFC controller custom imaging train parts and more.
DISCOVER MORE ON: WWW.OFFICINASTELLARE.COM

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Credits: Patrick Gilliland

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

The ultra fast Riccardi-Honders astrograph represents the only 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 the extremely fast F/3 focal ratio with a flat, very large diameter, imaging field. In addition to these amazing optical performances, the Veloce RH Series instruments are 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 Series of telescopes are 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 very fast focal ratio allows for the use of very narrow band filters keeping short the exposure times, and the widest possible imaging field greatly facilitates the realization of variable stars, asteroids or extrasolar planet search surveys.

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 very fast F/3 focal ratio.

MECHANICS

Thanks to the most recent optical and mechanical design software used during the latest develop, the Veloce Series has a full 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. Finally, the good 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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