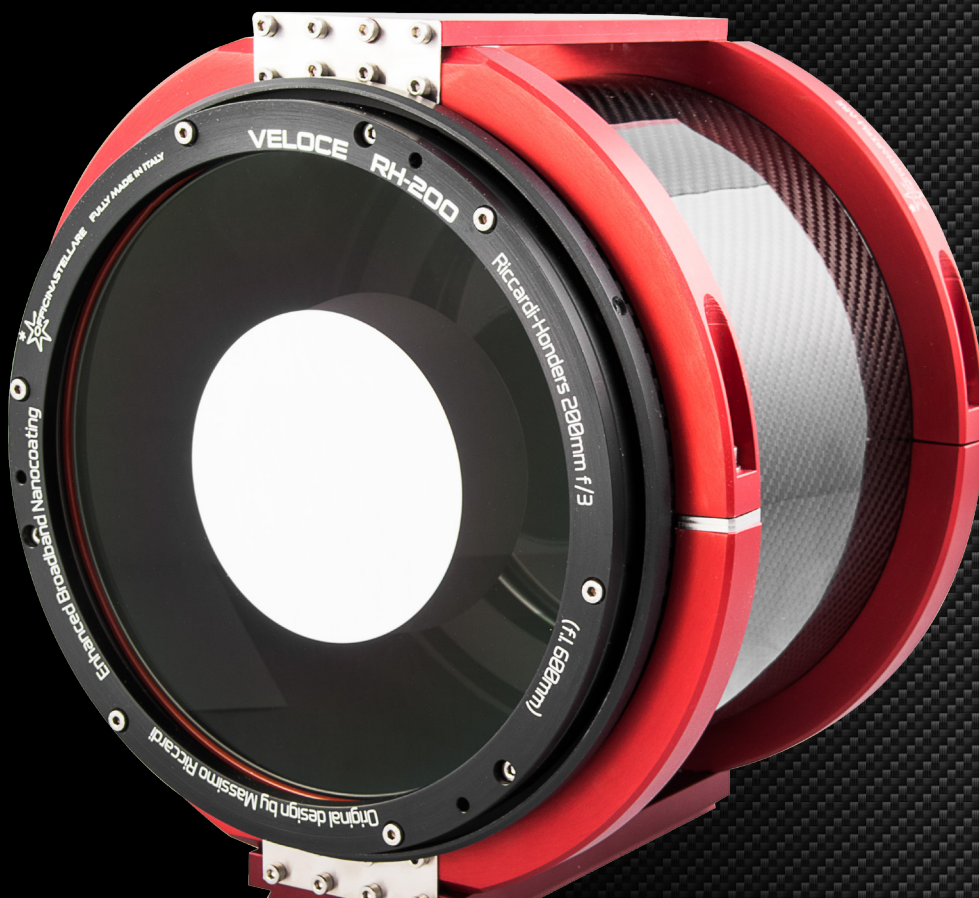


Veloce RH200

NEW AT VERSION



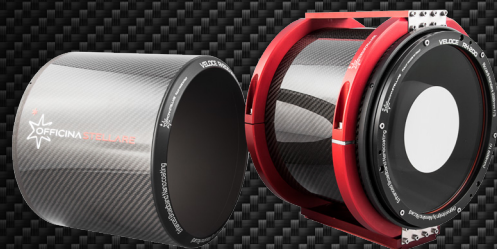
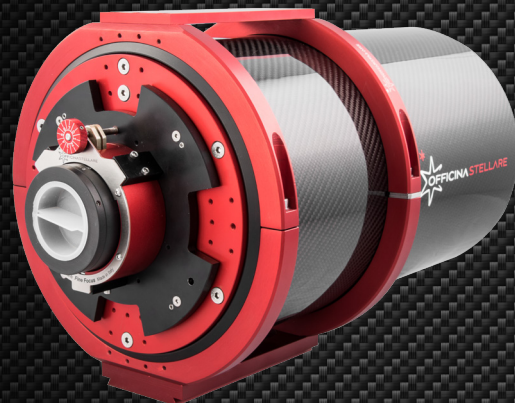
SPECIFICATIONS:

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
Weight:	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

Improving an icon..is a hard job. To do that, we did a massive work, thanks also to the experience of our customers. We took hundreds of hours to find out some new solutions, to give a better performance to our RH200. Optics has been improved and optimized for large field imaging and surveys, with a better image quality even on small pixels size cameras. Getting closer to perfection we now add an innovative Nano Coating (copyright) with a better transmission over a wider wavelength bandwidth range, a feature appreciated by professionals, and an amazing resistance to dust and moisture. We definitively banned out straylights from the RH200. New dewshield design avoid unwanted straylights from a 42mm circular field. All these new features are shared by all the 3 RH200 models. And it's full athermal, avoiding any focus change during the night.

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: Reducer, DIGFFKIT, custom imaging train parts and more.





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.

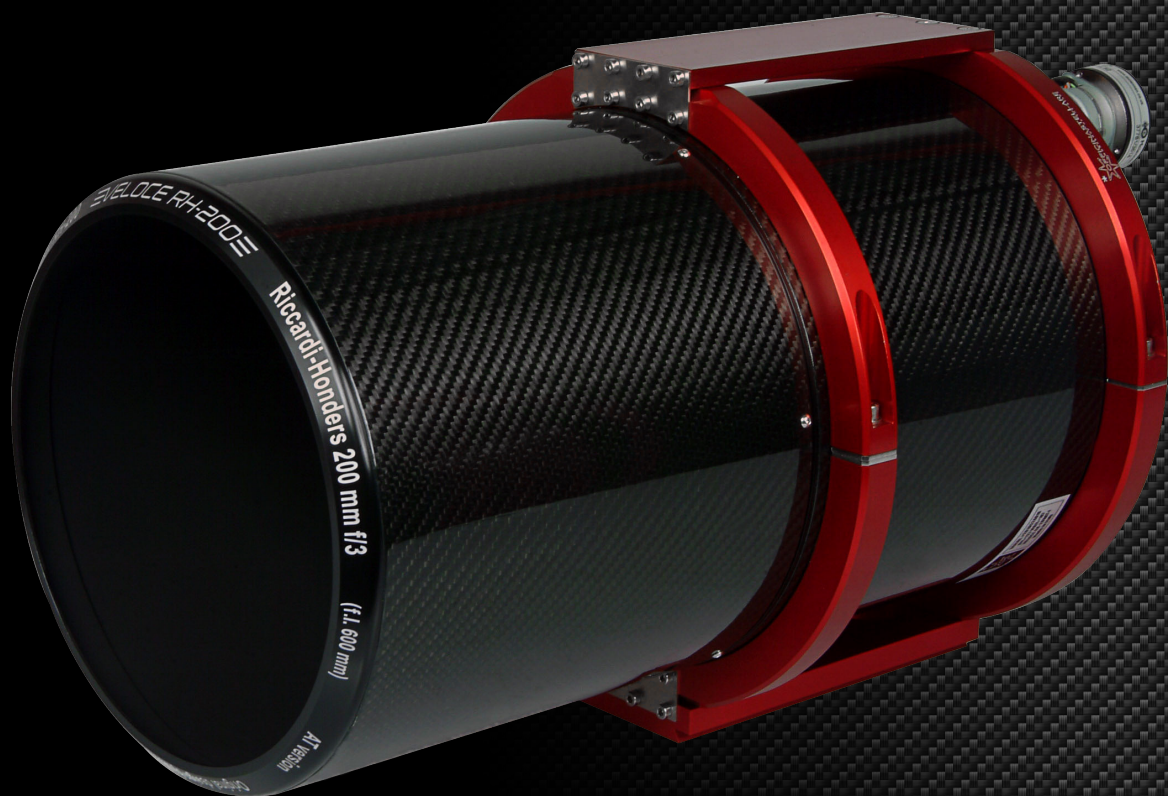
MECHANICS

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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Veloce RH200 MKII

ATHERMAL VERSION



SPECIFICATIONS:

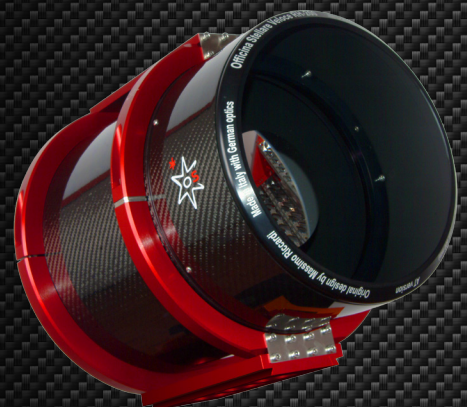
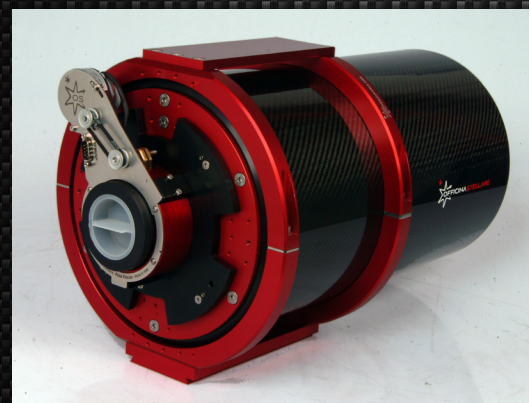
Optical set:	Riccardi-Honders, flat field, improved design
Primary mirror (Mangin) diameter:	190 mm
Front corrector lens diameter:	220 mm
Focal ratio:	F/3
Focal length:	600 mm
Linear obstruction:	55%
Full corrected and illuminated field:	42 mm (24x36 mm full format)
Dimensions:	248 (419 with light shield) L x 252 W x 282 H mm
Weight:	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

ATHERMAL VERSION OR THE MARK II MODEL, for professional users.

Respect the Mark II model, the optical and mechanical compound are designed to give the best stability to the focal plane. Tube is full carbon, dewshield is not retractable. Recommended for research and professional. Provided with FF72 focuser, FFC controller optional. Custom changes on demand.

Standard configuration: special, thermo compensated material, close tube design. Carbon fibre non re-tractable light shield. Unique and innovative cells design, new improved back tip-tilt plate, easy collimation system, piggy back camera support, standard Vixen dove-tail. 72 mm clear diameter FineFocus manual focuser. Cap cover.

Optional accessories: Digital motor, finderscopes, custom imaging train parts and more.



DISCOVER MORE ON: WWW.OFFICINASTELLARE.COM

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Veloce RH200 MKII

ATHERMAL VERSION



Credits: Harel Boren

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 nebulae 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 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**. The Veloce Series can also mount a piggy back support specially designed by Officina Stellare for a stand alone autoguider. Finally, the good extraction of focal plane position allows to use complex imaging trains, both with CCD or the more popular digital reflex cameras.

DISCOVER MORE ON: WWW.OFFICINASTELLARE.COM

Veloce RH250



SPECIFICATIONS:

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

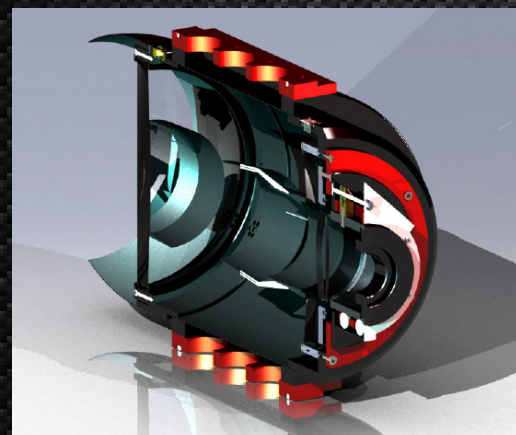
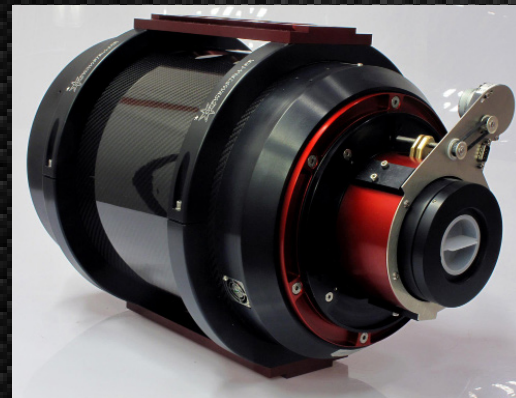
RH250 is a special version respect rest of Veloce series. It's not f/3 open, but f/5.6. Because this telescope was designed for a scientific project and its performance were so good we decided to put into production. Only consider stars with 3.6 micron spot size not on axis, but on field edge: this gives 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





Credits: Evangelos Souglakos

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 nebulae or stars field will be deeply reproduced with very high resolution and full details**. The intermediate focal length 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

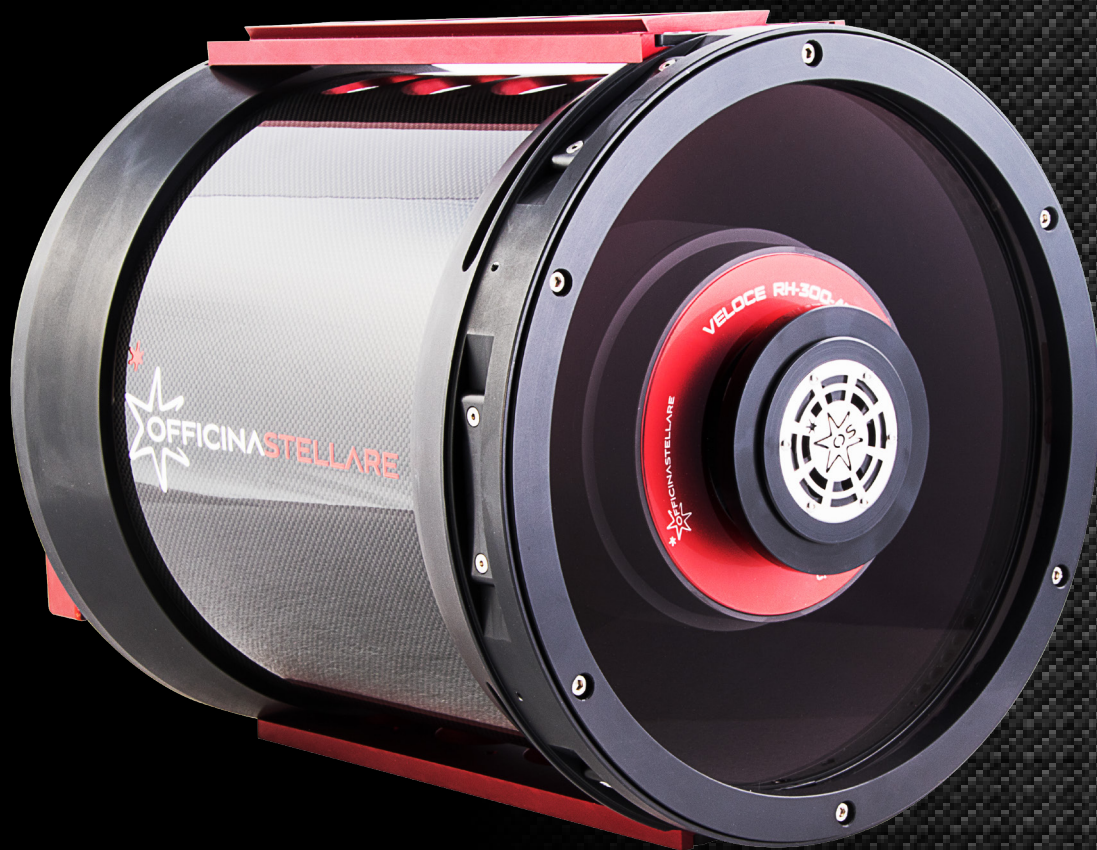
The **back surface reflection of the primary mirror** (called Mangin) is the main characteristic distinguishing the Riccardi-Honders optical design. Combining the reflecting and double refracting action (the incoming light passes twice through the full thickness of the primary mirror) of this element 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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Veloce RH300 AT



SPECIFICATIONS:

<i>Optical set:</i>	Riccardi-Honders, flat field, improved design
<i>Primary mirror (Mangin) diameter:</i>	280 mm
<i>Front corrector lens diameter:</i>	320 mm
<i>Focal ratio:</i>	F/3
<i>Focal length:</i>	900 mm
<i>Linear obstruction:</i>	55%
<i>Full corrected and illuminated field:</i>	60 mm
<i>Dimensions:</i>	652 (with light shield) L x 376 Ø mm
<i>Weight:</i>	30 Kg
<i>Back focus length from back plate:</i>	180 mm
<i>RMS polychromatic (430 to 700 nm) spot size:</i>	max 7 micron at field edge

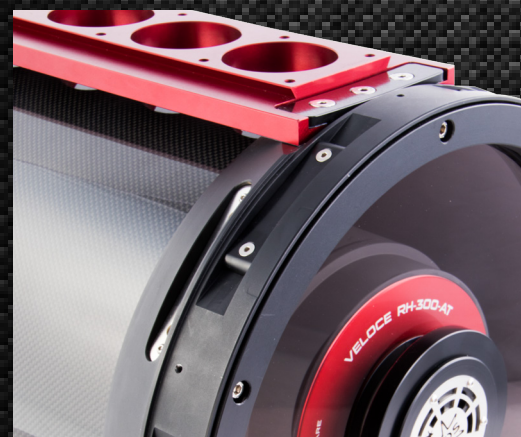
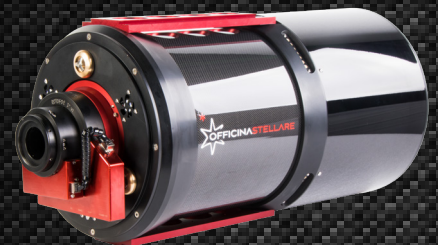
RH300 AT is the evolution of the previous model. This **new athermal design** is ready to work at **any temperature**, in the whole word. The whole mechanic system has been redesigned to satisfy every rigid demand for scientific application. It will work always at best wherever you'll place the telescope. We spent a lot of time to create a new reference point in high-end astrographs.

Standard configuration:

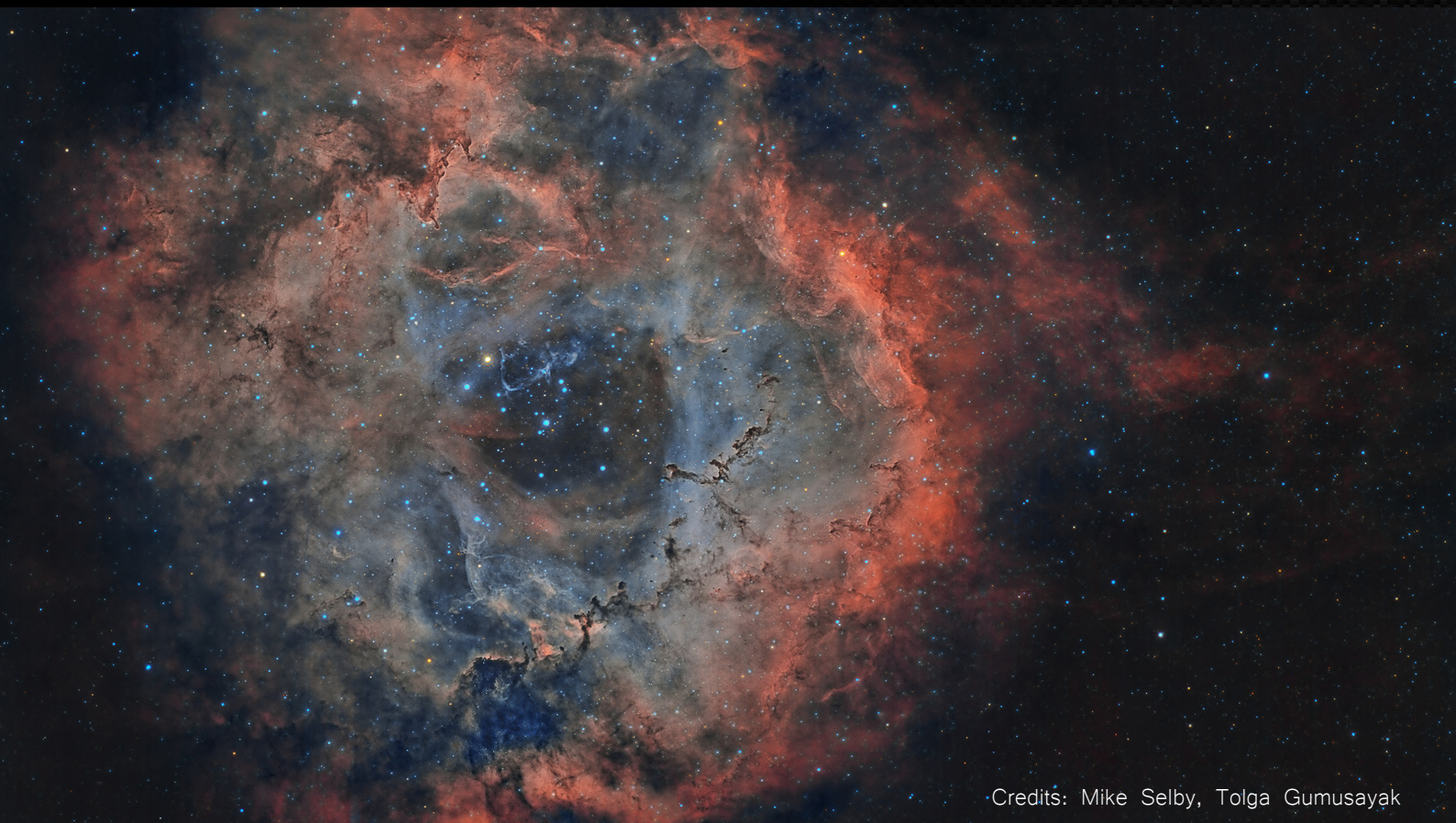
Special, thermo compensated material, close tube design. Carbon fibre light shield. Unique and innovative cells design and exclusive **double stage splitted internal light baffle**, back tip-tilt plate, easy collimation system, two mounting plates (Losmandy). Cap cover.

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

DISCOVER MORE ON: WWW.OFFICINASTELLARE.COM



Veloce RH300 AT



Credits: Mike Selby, Tolga Gumusayak

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

Our brand new RH 300 F/3 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/3 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 300 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 300 is the perfect instruments for those astroimagers who are searching for a very large, corrected, field. Large nebulae or stars field will be deeply reproduced with very high resolution and full details. The intermediate focal length of the RH 300 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/3 focal ratio.

Mechanics

Thanks to the most recent optical and mechanical design software used during the develop, the Veloce RH 300 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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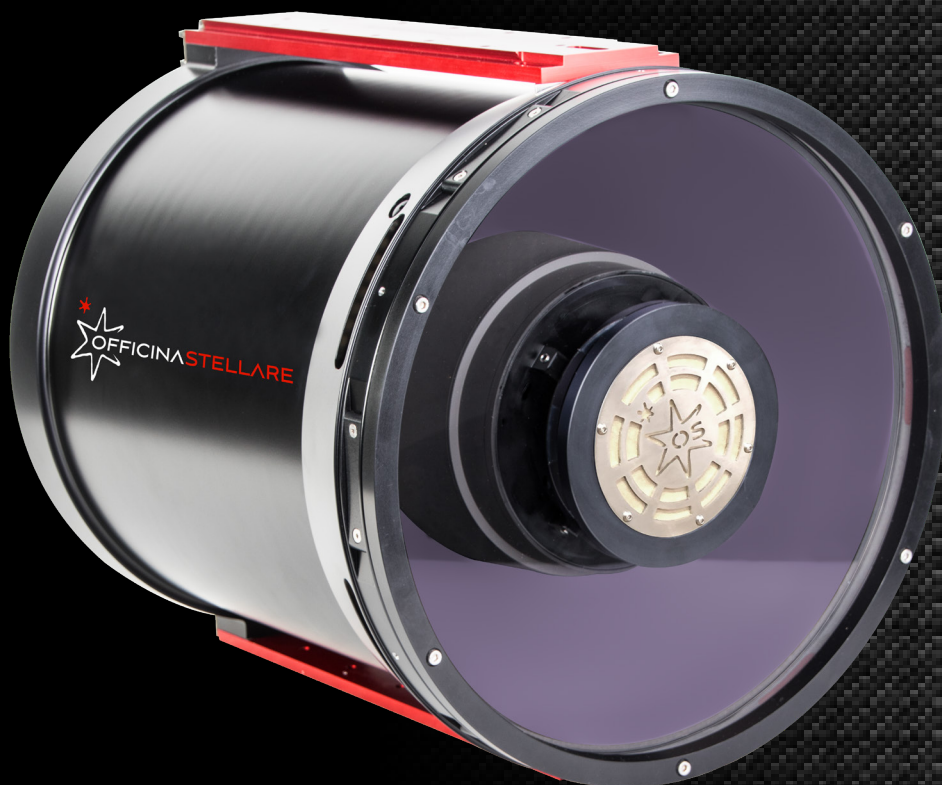
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Veloce RH320 AT

THE FIRST NATIVE F/2.2 RH ASTROGRAPH



SPECIFICATIONS:

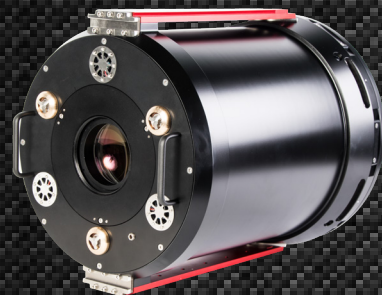
<i>Optical set:</i>	Riccardi-Honders, flat field, improved design
<i>Primary mirror (Mangin) diameter:</i>	310 mm
<i>Front corrector lens diameter:</i>	390 mm
<i>Focal ratio:</i>	F/2.2
<i>Focal length:</i>	720 mm
<i>Linear obstruction:</i>	55%
<i>Full corrected and illuminated field:</i>	52 mm
<i>Dimensions:</i>	750 (with light shield) L x 440 Ø mm
<i>Weight:</i>	40 Kg
<i>Back focus length from back plate:</i>	78 mm
<i>RMS polychromatic (430 to 700 nm) spot size:</i>	max 7 micron at field edge

RH320 AT is a completely new model. The fastest ever, with a native f/2.2 speed. With his **new athermal design** is ready to work at **any temperature**, in the whole word. The whole mechanic system has been redesigned to satisfy every rigid demand for scientific application. It will work always at best wherever you'll place the telescope. We spent a lot of time to create a new reference point in high-end astrographs.

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 mounting plates (Losmandy). Cap cover.

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



DISCOVER MORE ON: WWW.OFFICINASTELLARE.COM



Veloce RH350



SPECIFICATIONS:

Optical set:	Riccardi-Honders, flat field, improved design
Primary mirror (Mangin) diameter:	320 mm
Front corrector lens diameter:	410 mm
Focal ratio:	F/2.8
Focal length:	980 mm
Linear obstruction:	less than you expect!
Full corrected and illuminated field:	56 mm
Dimensions:	700 (with light shield) L x 420 Ø mm
Weight:	35 Kg
Back focus length from back plate:	80 mm
RMS polychromatic (430 to 700 nm) spot size:	max 5.6 micron at field edge

RH350 is the ultimate OTA from the Veloce series to provide a **incredible corrected field with pinpoint stars over a large field and an incredible small vignetting**. This project differs from other Veloce telescopes on many details and features. **Diffraction limited from 400nm to over 700nm**, Veloce RH350 is an incredible telescope for the very advanced amateur or the professional. Mechanical project is designed to **consider hard environmental conditions** and the new nano coatings prevents moisture deposit and gives ease of cleaning.

Standard configuration:

Special, thermo compensated material, close tube design. Carbon fibre light shield. Unique and innovative cells design and exclusive design **internal light baffle**, back tip-tilt plate, easy collimation system, cap cover.

Optional accessories: various mounting plates, finderscopes, custom imaging train parts and more.

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