

# HIGH-TECH ASTROGRAPHS

**One step ahead and into the future**



# ASA Astrographs★

## PERFECTION RIGHT DOWN TO THE LAST DETAIL



**ASA astrographs are developed based on the experiences of some of the leading astrophotographers of the world. They are based on the uncompromisingly optical design by Dipl. Phys. Philipp Keller, Germany, and the field corrector will handle the largest CCD arrays popular right now. Using the best quality materials available on the market, our ASA engineers have developed a product which leaves nothing to be desired. Perfect imaging performance covering a large field of view, lightweight with stable construction and a fast focal ratio!**

The tubes are produced with high-grade carbon and furnished with black velvet inside the tube to avoid stray light. Carbon used in the tubes offers a very low thermal expansion and great rigidity. Thus the focus is very stable, with no detectable tube flexure — both great advantages.

ASA astrographs have a fast focal ratio. Thus one will achieve a good signal to noise ratio with short exposure times.

ASA astrographs are available in two different Series: The H-series astrographs differ from the N-series in that they use a hyperbolic main mirror. This in combination with the special corrector lens

provides you with the finest spot sizes available in today's fast systems.

Therefore the H-series is ideal for use astrographs with high-res CCD-cameras. With a fast focal ratio of f 3.0 is the ideal wide-field instrument. Specialists will admire those instruments.

The N-series astrographs have a focal ratio of f 3.8. By altering corrector the system can be shortened or extended with a minimum amount of change.

**Using the 3" Wynne Corrector (standard with N-serie astrographs) one will**

**achieve a focal ratio of f 3.6. With the 2" or the 3" Reducer a focal ratio of f 2.75 result while with the ASA Barlow Flat Corrector the focal ratio will be f 6.8.**

All ASA astrographs have ASA optics of Suprax material with Zygo interferogram with P/V < 1/7 lambda wave, 97% reflection.

All flat mirrors offer the same specs. On request we offer premium Sital mirrors by LOMO in configuration with our astrographs (longer delivery times).



## CORRECTORS

To correct the field of view ASA uses the correctors designed by Dipl. Phys. Philipp Keller. All correctors have sufficient backfocus to be connected to all popular camera systems. Given the matching corrector the system can be used as f 3.6 or can be shortened to f 2.75 or extended to f 6.8. The photographer can decide which focal length to use, which depends on the situation (object, seeing, wind ....).

This feature is only available with the astrographs of the N-series.

Example: an ASA astrograph N 8"/f3.6 with 730 mm can also be used as 558 mm/f 2.75 or as 1380 mm/f 6.8 (see at correctors).

All our correctors are available as a stand-alone and can be used with other Newton telescopes too.



## FOCUSER

This ASA developed focuser is a standard with all ASA astrographs but can also be purchased as stand-alone for other telescopes. The focuser is motorized with a stepper motor. For the connection with a

PC a USB-Interface is used. A plugin for MAXIM DL is available if you prefer this popular software for focusing. Six bearings are arranged for perfect operation without flexure.



## ACCESORIES

### CAMERA ADAPTOR:

As a part of your order we will produce the appropriate camera adaptor for your system. The required backfocus will be considered.

### TUBE RINGS:

To set up your astrograph on a mount we recommend to use the original ASA tube rings. The design of the CNC-machined tube rings are

harmonized to our astrographs and are equipped with locating screws.

### FLIGHT CASES:

To carry your astrograph safely we offer excellent crafted flight cases: steel ball edges, aluminum profiles, birch plywood, flip handle grips, butterfly breech. Enough space for the astrograph with focuser, tube rings, corrector, camera adaptor.



All components are crafted from high-quality aircraft aluminum (7075AlZnMgCu1,5) in our modern CNC-production facilities.

# ASA ASTROGRAPHS FACTS. VALUES. SPECS.

## TECHNICAL SPECIFICATIONS N-series

	ASA 8N	ASA 10N	ASA 12N	ASA 16N	ASA 20N	ASA 20NG
Aperture	8" (200)	10" (250)	12" (300)	16" (400)	20" (500)	20" (500)
Focal length	760 mm	950 mm	1140 mm	1520 mm	1900 mm	1900 mm
Corrector	Optional*	Optional*	Optional*	Optional*	Optional*	Optional*
Secondary	90 mm	100 mm	120 mm	130 mm	140 mm	140 mm
Focuser	3"	3"	3"	3"	3"	3"
Tube length	620 mm	790 mm	990 mm	1310 mm	1631 mm	1631 mm
Tube diameter	255 mm	300 mm	360 mm	470 mm	590 mm	590 mm
Weight	8 kg	11 kg	18 kg	32 kg	49 kg	54 kg

  

*Corrector	Lenses	Corrected FOV	Focal ratio	f-factor	Weight
4" Wynne	3	60	f3.8	0,990	1420 g
3" Wynne	3	50	f3.6	0,952	780 g
3" Reducer	4	30	f2.8	0,730	720 g
2" Reducer	4	20	f2.8	0,730	320 g
2" Barlow	5	35 (45)	f6.8	1,800	315 g

