

Variable focal lengths with the Hyperion 2" Finetuning Rings (FTR) 14 und 28 mm

also with 2" Baader eyepiece filters



Hyperion eyepiece with FTR 14 and 28mm

Hyperion eyepiece with FTR 14mm (this combination is also portrayed in the picture below which features the 2" mirror star diagonal).

Available combinations of Hyperion eyepieces with Finetuning Rings or 2" Baader Filter to modify the focal length and the field of view.

	Effective focal length in mm	Field-stop mm	with 14 mm FTR	with 28 mm FTR	with 14 + 28 mm FTR	with 2" Baader Filter*	without first group of lenses					
Hyperion	21.0	22.5	17.6	19.9	15.5	17.5	14.0	15.8	18.5	20.6	32.2	35.0
Hyperion	17.0	20.9	13.1	17.1	10.8	14.1	9.2	12.1	14.6	18.7	21.8	30.0
Hyperion	13.0	17.7	10.8	14.6	9.2	12.5	8.1	11.0	11.7	14.2	22.9	30.0
Hyperion	8.0	10.7	6.0	8.6	5.0	7.1	4.3	6.1	6.9	9.3	21.8	30.0
Hyperion	5.0	6.5	4.0	5.4	3.2	4.5	2.6	3.9	4.3	5.8	22.5	30.0
Hyperion	3.5	4.3	2.5	3.5	2.1	2.9	1.8	2.5	2.9	3.7	21.8	30.0



Hyperion eyepiece with built-in 2" eyepiece filter (e.g. Infrared-Blocking-Filter # 2459210 A)

*Baader 2" eyepiece filter with a height of 8 mm. Yellow column of the table: focal length, Light-Grey column: diameter of the field stop

A variety of additional Hyperion focal lengths can be obtained at very moderate prices by using our 2" Finetuning

Extension Rings 14 and 28 mm, or even our 2" eyepiece filters. Thus an eyepiece of 3.5 mm focal length can be converted into one of 1.8 mm focal length – without loss of sharpness – above all, because no additional lenses are introduced into the beam, which is unavoidable when using a Barlow lens.

For marginal cost such experimentation is possible. You will discover how much your telescope can achieve, exceeding the recommended range of magnification without an additional Barlow lens. You will experience surprising results especially with refractors! With real apochromats the usable exit pupil may be considerably smaller than the literature recommends!

Hyperion eyepiece with 1 1/4" barrel unscrewed

Finetuning 2" Extension Ring 28 mm # 2958228

Finetuning 2" Extension Ring 14 mm # 2958214

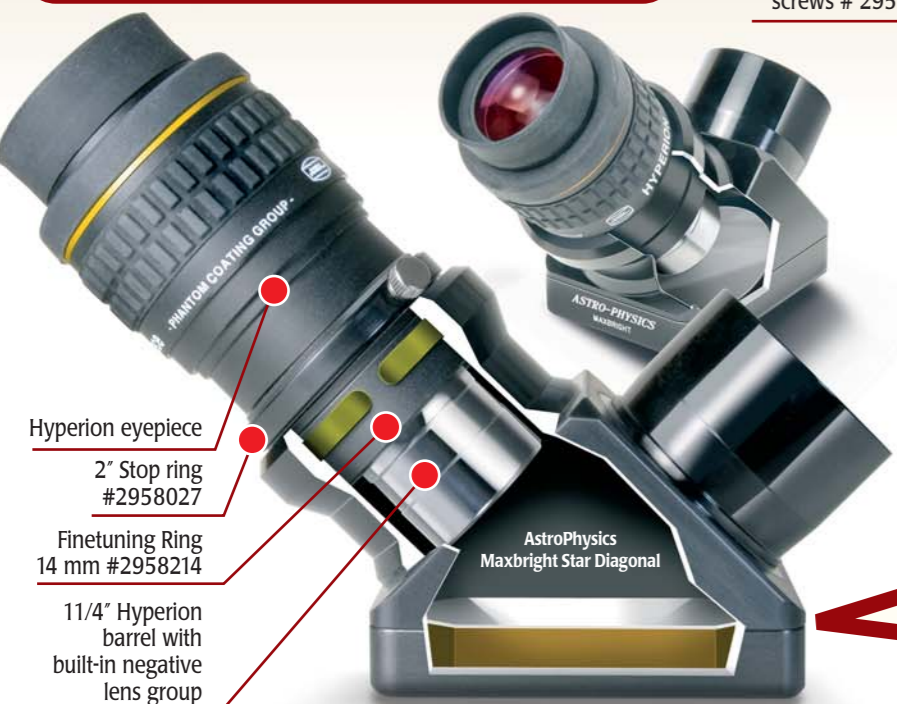
2" Stop Ring with captive brass locking ring and two locking screws # 2958027

Front Hyperion lens element, built into the 1 1/4" barrel.

The M 48 filter thread is located here! To remove the first group of lenses, all Hyperion eyepieces must only be opened here. Disassembling the eyepiece elsewhere will void the warranty!

Combination of the Hyperion eyepiece and the 14 mm Finetuning Ring as well as the 2" stop ring.

The stop ring prevents the eyepiece barrel from hitting the mirror star diagonal or prism.

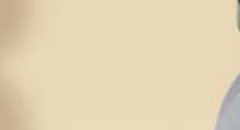


Hyperion eyepiece 2" Stop ring #2958027

Finetuning Ring 14 mm #2958214

1 1/4" Hyperion barrel with built-in negative lens group

Adaption of the Hyperion-Eyepiece to the Zeiss Diascope Fluorite-Spotting Scope



Hyperion Eyepiece used as Diascope-camera adapter – an excellent substitute for much more expensive Zeiss Diascope Photo-adapter

Visual Observation: The Hyperion 21-/17-/13-/8 mm eyepieces may be adapted to the Zeiss spotting scope with the aid of a bayonet-adapter # 2454500

Video-camera, e.g. Sony HDV

Hyperion DT-ring SP54 / M37 # 2958037

Hyperion extension DT-ring 11 mm SP54i / SP54a # 2958090

Hyperion Eyepiece

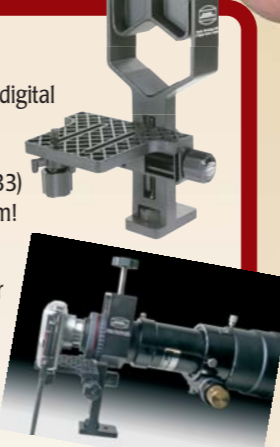
1 1/4" Baader Diascope bayonet-adapter # 2454500 with built-in captive brass locking ring – slipped over and fastened onto the chromium-plated eyepiece barrel

Carl Zeiss Diascope 85T*FL

... and if all else fails...

For example if you want to use a small digital camera without lens thread for afocal projection-photography... why not use our Baader-Microstage 6030 (# 2450333) – it will solve every adaptation problem!

The Baader Microstage 6030 is a very economic clamping eyepiece-holder for all eyepieces with diameters from 30 to 62 mm. It is connected to a stage that is adjustable in all directions, similar to an adjustable microscope x/y stage, so that (almost) any small digital camera can be mounted and optically centered behind the eyepiece.



21 mm # 2454621, 17 mm # 2454617, 13 mm # 2454613, 8 mm # 2454608, 5 mm # 2454605, 3.5 mm # 2454603

The complete Hyperion Eyepieces series at a glance:

We offer economic Set-prices for Hyperion eyepiece-pairs (2 eyepieces of the same focal length) as well as for the complete Set of all 6 Hyperion Eyepieces.

Please ask for it.



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Much more than an eyepiece HYPERION®-eyepieces

How to use the modular eyepiece system – illustrated instructions for the whole range of Hyperion accessories



HYPERION 17mm Modular Eyepiece 68° Widefield MC # 245 4617

Sturdy gift box

Each boxed Hyperion eyepiece includes the following items:

The Soft Leather Bag allows exceptional protection of the eyepiece within your eyepiece-case in a minimum amount of space!

The 68° Hyperion eyepiece which features two barrel diameters to fit both 2" and 1 1/4", with Phantom-Group Multicoating and two photographic threads M 43 and SP 54



Two dust caps with inner diameters of 48mm and 45mm

A dust cap with diameter of 1 1/4" (31.7mm)

The two dust caps:

All Hyperion eyepieces are equipped with two dust caps which protect the eye lens side. This leaves you the choice of storing the eyepiece protected from dust with rubber eye cap folded down (especially for persons who wear glasses) or folded up.

System-threads M 43 and SP 54

The Hyperion threads are located beneath the rubber eye cap, or rather beneath the thread-protecting ring (made of high-quality and aging-resistant silicone rubber). The large number of Baader adapting rings allows use of the Hyperion eyepiece for (almost) every task in astronomical – and nature – photography as a high-quality projection optic or as a tele-extender.

The following pages describe in detail many of the adaptations and variations that are possible with the Hyperion system.



Delivered with rubber-eyecup folded down

same rubber eyecup, but folded upward

2" barrel with safety groove

1 1/4" barrel with safety groove and filter thread, suitable for all 1 1/4" eyepiece-filters, as well as for the Baader 1 1/4" extension tube (# 1905130)



1 System thread M43



2 System thread SP54