Much more than just another eyepiece!
The multifunctional Baader Hyperion 68° Modular Eyepieces

Perfectly suited for afocal projection imaging with the help of up to 16 special digital T-rings. Featuring an auto locking 2" sleeve - capable of securely supporting the heaviest digital and video cameras.

**Characteristics for visual use**

- Optimal 68° apparent field of view, the largest accessible to the stationary human eye. The entire field remains visible despite the slight involuntary motions of an observer’s head that simply can’t be avoided. The 68° apparent field of many other eyepiece designs may sound very appealing on paper, but the need for the observer to slightly maintain an eye position precisely on the optical axis is seldom ever remembered. The striking “blurred image effect”, the barn of many other wide-field eyepiece designs, is completely absent in the Hyperion.
- 8 lens elements in 5 groups provide outstanding sharpness and color correction over the entire field.
- Comfortable eye relief of 28.0 mm.
- No eyepiece or focal length effect near the edge of the field.
- The size of the image plane assures comfortable observation and astigmatism.
- Unsurpassed color fidelity in binoculars, even with colored glasses or relaxed designs mirror yellow or blue cast in the image. With Hyperion eyepieces white stays white.
- The most advanced anti-reflection multicoatings are employed on all lens to cut glare for maximum transmission through all reflective layers.
- All coatings are carefully matched to the index of refraction for each of the different glass substrates used.
- The painstaking design and execution of baffling has all but eliminated troublesome stray light and ghost reflections. Don’t take our word for it – test it for yourself. Put a Hyperion eyepiece and your own eyepieces onto a matte black surface and allow a beam of sunlight or an intense artificial light source to shine into the eyepieces from above. Looking into the eyepieces from some distance you will note that some eyepiece Intensifiers will shine milky white with stray light, resulting in a “Jet” image with reduced contrast. Not the Hyperion. Under all conditions of illumination, the interior of a Hyperion eyepiece will appear jet-black, testimony to the virtual elimination of stray light.
- Shortest field stop position of all wide-field-eyepieces known to us. Specifically designed for binocular viewing.
- Ideal for use with accessory binocular viewers thanks to a tight barrel diameter (54 millimeters with the removable nosepiece rubber grip ring, 56 millimeters with the grip ring removed) that permits interpupillary distance settings as low as 36 millimeters, permitting stereo wide views even for kids.
- Each Hyperion eyepiece in the series is actually two eyepieces in one. Simply by unscrewing the broad, 125 mm diameter portion of barrel that houses the respective achromatic lens group, you will produce a wide field eyepiece of much larger local length. Color correction remains excellent, and the field curvature that results is no greater than in a decent spectacles of the ordinary field lens design (and that’s what it’s all about, when the negative aberrations are removed).
- Removing the negative lens group exposes a M 48 female thread at the end of the 2" diameter barrel of the field length component so that large-aperture light pollution and nebula filters can be employed.
- Thanks to the 1.25 inch diameter slot of Ø140 mm, all Hyperion’s are principally compatible with spotting scopes, including high-end units by Leica, Swarovsk and Zeiss. For Delta IIapscap models we already offer an 1.25 inch adapter (made by Adaptronic) #24/8400 - view image above right.

**Characteristics as a projection Ocular**

- For afocal projection imaging, the digital camera threads S 5.4 and M 43 x 0.75 have been incorporated for compatibility with our Series 5.4 digital T-ring that permit attaching almost any digital and video camera without vignetting. These threads are protected by caps when not in use.
- The M 43 x 0.75 thread directly screws into many video cameras, and the recent 3 CCD Camcorders manufactured by Panasonic. Our series of 5.4 digital T-adapters vary directly into the thread of most digital cameras and digital camcorders.
- Some camera models equipped with exposed, movable zoom lenses will require a separate intermediate (filter) adapter available from the manufacturer. However, the vast majority of digital cameras and camcorders of recent vintage feature an internal zoom lens with a fixed front lens and standard filter thread.
- The robust construction of Hyperion eyepieces is capable of directly supporting heavy video and film cameras weighing up to 3 kilograms. Hyperion eyepieces are also ideal for use with professional astrophotography universal digital cameras holders like the Baader Microwrap #24/5553, and will precisely support camera squarely with respect to the optical axis, due to their straightforward cylindrical shaped outer body.
- With or without the removable negative lens group, the Hyperion eyepiece is an incredibly sharp projection system.
- In combination with a high-quality astrolabe as small as 45mm aperture, the same afocal imaging configuration can be employed in industry for monitoring hazardous operations like plasma welding from a safe distance.
- How to make your Hyperion eyepiece „camera ready”

1. **Adapter System SP 54 – for afocal projection photography**

   - Hyperion Digital T-Rings, each model carefully designed to ensure the shortest possible distance between eyepiece and digital camera lens.
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     | SP 54 Optical Diameter | Nomin. Camera Sensor Size |
     |------------------------|--------------------------|
     | 25.5x38 & 29.5x40      | 6x7.5” / 5x4”            |
     | 32x40                  | 8x10” / 2.5D            |
     | 37x48                  | 9x12” / 3.5D            |
     | 42x60                  | 10x15” / 4.5D           |

2. **Adapter System M 43 T/2 – for classic eyepiece projection photography**

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     | M 43 Optical Diameter | Nomin. Camera Sensor Size |
     |------------------------|--------------------------|
     | 38x54 & 42x58          | 6x7.5” / 5x4”            |
     | 42x60                  | 8x10” / 2.5D            |
     | 47x72                  | 9x12” / 3.5D            |
     | 52x84                  | 10x15” / 4.D            |

**Packaging / Storage:**

Each Hyperion Eyepiece is supplied with two rubber end caps, a dedicated Cleaning Cloth, (42x42 mm, 56x56 mm and 61x61 mm) and a soft cotton pouch. The upper eyepiece may be locked down for use with eyepiece protectors and with the 43x54 mm, 54x72 mm and 61x61 mm models will remain locked down with the 44 mm (1.7”) diameter slot unobstructed.

Hyperion eyepieces are available in the following bundles:

- As single eyepieces, as pairs or as a complete set (24/24).

Please visit our website for prices.

www.hyperion-okuare.de

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**Afocal Eyepiece Projection**

Optionally available: Hyperion DT-Ring for coupling digital cameras onto Hyperion eyepieces

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