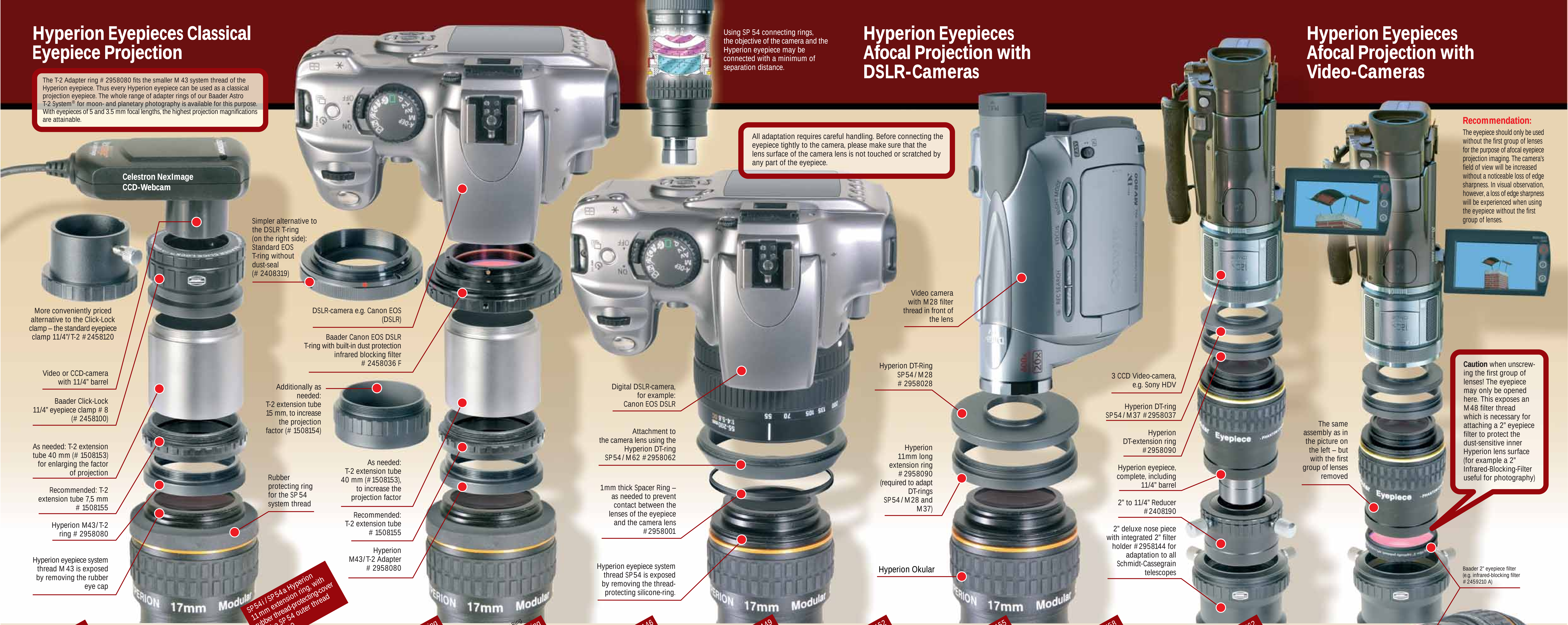

Hyperion Eyepieces Classical Eyepiece Projection

The T-2 Adapter ring # 2958080 fits the smaller M 43 system thread of the Hyperion eyepiece. Thus every Hyperion eyepiece can be used as a classical projection eyepiece. The whole range of adapter rings of our Baader Astro T-2 System® for moon- and planetary photography is available for this purpose. With eyepieces of 5 and 3.5 mm focal lengths, the highest projection magnifications are attainable.

More conveniently priced alternative to the Click-Lock clamp – the standard eyepiece clamp 11/4"/T-2 # 2458120

Video or CCD-camera with 11/4" barrel

Baader Click-Lock 11/4" eyepiece clamp # 8 (# 2458100)

As needed: T-2 extension tube 40 mm (# 1508153) for enlarging the factor of projection

Recommended: T-2 extension tube 7,5 mm # 1508155

Hyperion M43/T-2 ring # 2958080

Hyperion eyepiece system thread M 43 is exposed by removing the rubber eye cap

Simpler alternative to the DSLR T-ring (on the right side): Standard EOS T-ring without dust-seal (# 2408319)

DSLR-camera e.g. Canon EOS (DSLR)

Baader Canon EOS DSLR T-ring with built-in dust protection infrared blocking filter # 2458036 F

Additionally as needed: T-2 extension tube 15 mm, to increase the projection factor (# 1508154)

Rubber protecting ring for the SP 54 system thread

As needed: T-2 extension tube 40 mm (# 1508153), to increase the projection factor

Recommended: T-2 extension tube # 1508155

Hyperion M43/T-2 Adapter # 2958080

Using SP 54 connecting rings, the objective of the camera and the Hyperion eyepiece may be connected with a minimum of separation distance.

Hyperion Eyepieces Afocal Projection with DSLR-Cameras

All adaptation requires careful handling. Before connecting the eyepiece tightly to the camera, please make sure that the lens surface of the camera lens is not touched or scratched by any part of the eyepiece.

Digital DSLR-camera, for example: Canon EOS DSLR

Attachment to the camera lens using the Hyperion DT-ring SP54 / M62 # 2958062

1mm thick Spacer Ring – as needed to prevent contact between the lenses of the eyepiece and the camera lens # 2958001

Hyperion eyepiece system thread SP54 is exposed by removing the thread-protecting silicone-ring.

Video camera with M28 filter thread in front of the lens

Hyperion DT-Ring SP54 / M28 # 2958028

Hyperion 11mm long extension ring # 2958090 (required to adapt DT-rings SP54 / M28 and M37)

Hyperion Okular

Hyperion Eyepieces Afocal Projection with Video-Cameras

Recommendation:

The eyepiece should only be used without the first group of lenses for the purpose of afocal eyepiece projection imaging. The camera's field of view will be increased without a noticeable loss of edge sharpness. In visual observation, however, a loss of edge sharpness will be experienced when using the eyepiece without the first group of lenses.

3 CCD Video-camera, e.g. Sony HDV

Hyperion DT-ring SP54 / M37 # 2958037

Hyperion DT-extension ring # 2958090

Hyperion eyepiece, complete, including 11/4" barrel

2" to 11/4" Reducer # 2408190

2" deluxe nose piece with integrated 2" filter holder # 2958144 for adaptation to all Schmidt-Cassegrain telescopes

The same assembly as in the picture on the left – but with the first group of lenses removed

Caution when unscrewing the first group of lenses! The eyepiece may only be opened here. This exposes an M48 filter thread which is necessary for attaching a 2" eyepiece filter to protect the dust-sensitive inner Hyperion lens surface (for example a 2" Infrared-Blocking-Filter useful for photography)

Baader 2" eyepiece filter (e.g. infrared-blocking filter # 2459210 A)

M43/T-2-Adapter # 2958080

For adaptation to the Astro T-2 System®

Adapter system SP 54 – for afocal Projection:

The Hyperion DT-rings SP54 are optimized to provide the shortest possible distance between the eye lens of the eyepiece and the digital camera lens. Only in this way is a fully illuminated photographic field possible without vignetting

SP54i / SP54a Hyperion 11 mm extension ring, with rubber thread-protecting-cover for the SP 54 outer thread # 2958090

SP54 / M28 DT-Ring # 2958028

* also Stepper-Ring

SP54 / M37 DT-Ring # 2958037

DT-Ring SP54 / M46 # 2958046

DT-Ring SP54 / M49 # 2958049

DT-Ring SP54 / M52 # 2958052

DT-Ring SP54 / M55 # 2958055

DT-Ring SP54 / M58 # 2958058

DT-Ring SP54 / M62 # 2958062

Please consult our Astro-accessories pricelist to find further adapter rings, including the Astro T-2 System®.

2 adjustment Spacer Rings made of hard plastic for the SP 54 thread are part of each Hyperion DT-Ring free of charge. With these rings (each ring has a thickness of only 1 mm), differences in mechanical heights may be adjusted, to be able to adapt the camera front lens as close as possible, without having to use the 11 mm Extension Ring (# 2958090). Caution when mounting the camera!
Camera-front lenses may be too close to the fist lens of the Hyperion eyepiece only by a tenth of a millimetre. When mounting the Hyperion-eyepiece onto any camera-front-lens, always proceed with the greatest care, possibly using the additional Spacer Rings.
➜ Further adapter-Rings are available to connect onto the M 37 Stepper-Ring: M 24 (# 2458023), M 27 (# 2458024), M 30 (# 2458025), M 30.5 (# 2458026), M 40.5 (# 2458027), M 41 (# 2458028). In this case, the original filter-adapter of the producer of your digital camera is necessary.