

Baader
Multi Purpose Coma Corrector (MPCC)
(S30/2458400) € 125,-



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Multi Purpose Coma Corrector Visual & Photographic Edition
MPCC-VIP (S30/2458402) € 169,-

The only Newtonian Coma Corrector that does not change (increase) the focal length of the telescope in any way. f4 Newton optics will remain f/4!

Note: The letter "S" in the item number defines in which section of the Baader-Product price list this specific item can be found.



Features of the MPCC:

- No increase in f/ratio
- Highest transmission
- Most versatile
- Use visually and photographically
- Easy to use
- The best price/quality value

Large, fast parabolic mirrors are desirable for deep sky photography and observation because they offer low power wide field views. However, the main problem with fast parabolic mirrors is that they introduce coma (and to a lesser degree, astigmatism). Coma is distortion of star images near the edge of the field that reduces the size of the usable field of view. To eliminate coma, several companies have introduced coma correctors, lenses that are placed near the focus point and reduce the severity of the coma. The problem is that most of these increase the telescope's f/ratio and focal length.

The Multipurpose Coma Corrector (MPCC) virtually eliminates coma without increasing the focal ratio of your telescope. This unique lens design utilizes a multi-coating on all air-to-glass surfaces to allow 98% transmission (transmission peaks in the hydrogen-alpha region of the spectrum). Although the MPCC is optimized for f/4.5 mirrors, it works well with mirrors from f/4 to f/6. Stars remain 12 micron dots over the entire field. In addition, the MPCC can be used both visually and photographically.

"The Multipurpose Coma Corrector has turned a rarely used f/4 Newtonian RFT into a well-corrected wide field photographic instrument. The star images across the frame are excellent."
(Stephen J. Edberg)

The Multipurpose Coma Corrector is the most versatile coma corrector available today. The MPCC fits virtually all 2" focusers and off-axis guiders.

Basic MPCC used for Astrophotography



MPCC Visual and Photographic (VIP) Edition

(featuring 3 Variable lengths: 48mm / 55mm
- and 62mm for Televue eyepieces)

Use without
Expansion Ring T-
2/M48 to provide
48mm optical length

Use with Expansion
Ring T-2/M48 to
receive standard
55mm optical length



***1 35mm ED-Eyepiece (S22/2404105)**
(Fieldstop Diam. is 29.5mm – raised 7mm into the eyepiece body)

***2 18mm Genuine Ortho eyepiece (S23/2404218)**
(Fieldstop positioned in the regular way, at the joint between chrome sleeve and eyepiece body)

MPCC-VIP Visual & Photographic (overview of parts) € 169,-
these parts are included in the visual edition of the MPCC-VIP (S30 / 2458402)

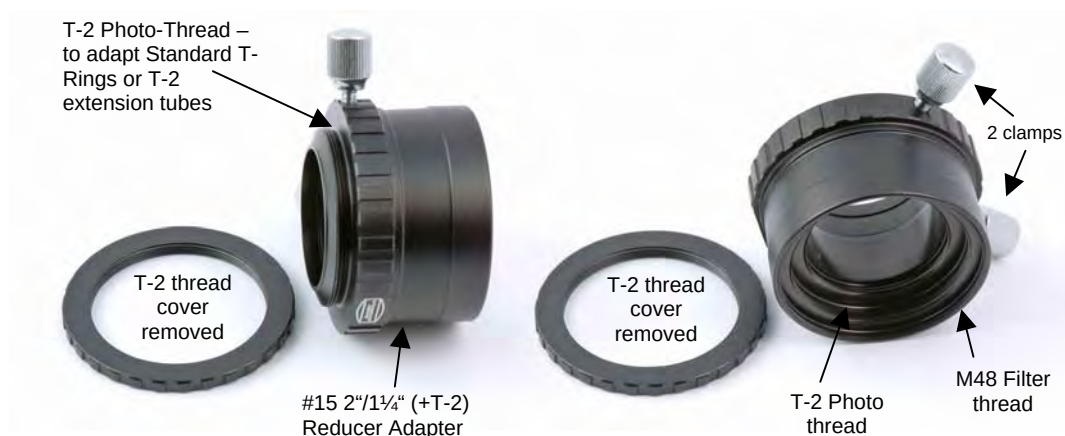


MPCC-VIP Visual & Photographic (S30/2458402) consisting of:

- | | |
|--------------------------|-----------------|
| • MPCC | S30/2458400 |
| • Expansion Ring T-2/M48 | S08/2458110 #29 |
| • Finetuning Ring 14mm | S27/2958214 |
| • Finetuning Ring 28mm | S27/2958228 |
| • Reducer 2"/1 1/4" | S08/2408190 #15 |

These four parts complement the MPCC for visual use

- It is their purpose to provide the proper 55mm (+/- 1mm) spacing between the bottom surface of the MPCC T-2-thread and the "film"-plane or the eyepiece field stop.



1) #15 Reducer 2"/T-2 (S08/2408190)

Works as eyepiece holder and **spacer** in this visual MPCC – combo of parts.

Attention: Note that the top collar of this unit carries a removable T-2 collar. When removed, a male T-2 thread is being released for adaptation of a DSLR-camera and T-Rings. This can be used for eyepiece projection, as well, by adding appropriate T-2 spacer tubes.

The four parts that complement the MPCC for visual use - continued



2) 14mm Finetuning-Ring (S27/2958214)

to enable correct optical distance for visual use of MPCC with all regular 1¼" eyepieces which have their fieldstop at the joint between eyepiece and chrome sleeve.

This is the same 14mm Finetuning Ring that fastens into our Hyperion eyepieces for fine-tuning their focal length. It has 2" outer diameter and male and female 2" (M48) filter thread. These rings may also be combined to work as 2" nosepiece, for extending existing eyepiece-sleeves or nosepieces of 2" diagonals



3) 28mm Finetuning-Ring (S27/2958228)

This ring provides correct spacing for the MPCC for use with all Tele Vue eyepieces which have their field stop 7mm moved forward **inside** of the 1¼" chrome sleeve.

The same ring provides the proper optical distance for Tele Vue Panoptic 2" eyepieces, for 2" Extreme eyepieces 35mm and 30mm, for Pentax XL eyepieces as well as a number of other 2" eyepiece designs.



4) #29 Expanding Ring T-2/M48 (S08/2458110)

Works as "spacer" to adjust proper optical distance to have the MPCC in the correct optical position for all eyepieces which have their fieldstop exactly at the joint where the chrome eyepiece barrel threads into the eyepiece body.

This ring must be taken out of the system of parts, if the eyepiece to be used has its fieldstop inside of the eyepiece body itself – e.g. our 35mm ED-eyepiece, having the fieldstop 7mm above the upper end of the chrome sleeve.

MPCC-VIP completed for use with standard 1¼" eyepieces



MPCC-VIP (S30/2458402)

MPCC-VA combo ready to insert into Dobsonians for use with regular 1¼" eyepieces (with the MPCC 2" Stopper collar removed), but including #29 Extension Ring, to provide proper optical spacing (55mm) for „regular“ 1¼" eyepieces as detailed above.

MPCC-VIP, completed for eyepieces with extra large fieldstop diameter



MPCC-VIP (S30/2458402)

- combo with 35mm ED-eyepiece

Note: for eyepieces with the fieldstop inside the eyepiece body the #29 Expanding ring must be removed to provide proper optical distance (about 48mm) between MPCC lensgroup and eyepiece fieldstop.

MPCC-VIP ready to fully insert into Dobsonian focuser



MPCC-VIP S30/2458402

MPCC combo of #15 2 1/4" Reducer, 14mm Finetuning ring and MPCC, suitable to provide correct optical spacing for a widefield 35mm eyepiece with the fieldstop position inside of the eyepiece body.

MPCC-VIP readily mounted at Dobsonian focuser



MPCC-VIP with Tele Vue eyepieces

- this combo of 1¼" TV-eyepiece and MPCC requires a mechanical spacing of 62mm (+/- 1mm) between the MPCC and the fully clamped TV-eyepiece.



MPCC-VIP with 21mm Pentax XL eyepiece

MPCC-VIP with 30mm Extreme 2" eyepiece

The MPCC allows unvignetted viewing – even with extreme widefield eyepieces

