

?? CAA and Pro Rotators

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Things to consider regarding rotators

This instrument, also called a "field rotator," is attached between the focuser and the camera. It allows you to rotate the image.

Please note the following:

Compatible connection

There are various thread types for screwing it on. Metric fine threads can have different pitches. The external threads usually point towards the camera, the internal threads towards the telescope lens – but there can be exceptions!

It's best to check the technical specifications and dimensional drawings. If you are unsure, please ask.

Sufficient optical length

How much travel is left at the focuser when you have focused your camera without the rotator? The rotator must be optically shorter than the remaining focusing distance.

Example: Without a rotator, your focuser is extended by 17 mm when the camera is focused at infinity. In this case, you can use a rotator with a 14 mm optical length. However, a rotator with a 20 mm optical length will not work.

Remember to take into account the length of any adapter rings that may be required.

Clamping Screws

One or more locking screws are used on manual rotators to fix the set position.

Do not overtighten the screws, otherwise they may be difficult to loosen again due to temperature fluctuations.

Secure Connection

When turning the accessory connected to the rotator, it is best to do so clockwise. Turning it counterclockwise could inadvertently loosen the connection between the rotator and the accessory.

This is more likely at lower temperatures because the lubricant in the rotator may be more viscous.

In astrophotography, you always need new flat frames when you have rotated the rotator to a new orientation.

Connections and special features of Omegon rotators

The three CAA rotators have slightly different characteristics compared to the two Pro rotators. See the table below for details:

Model	Internal thread (usually for telescope)	External thread (usually for camera/filter wheel)	Optical length
CAA T2 (#87375)	M42*0.75	M42*0.75	13.5mm
CAA M48 (#87376)	M48*0.75	M48*0.75	14mm
CAA M54 (#87377)	M54*0.75	M54*0.75	14mm
Pro M56 (#86756)	M56*0.75	M56*0.75 + 2" Plug diameter	
Pro M82 (#86757)	M82*1.0	M56*0.75 + 2" Plug diameter	

The **Pro Rotators** fit perfectly on the 2" focusers #85063, #85065 (M56) and the 3" focusers #85064 and #85066 (M82).

Only adjust the small Allen screws if the rotator is noticeably too easy or too difficult to turn. They should be adjusted very precisely.

The **CAA Rotators** are designed for light to medium-weight accessories and can be mounted wherever the connection and optical length allow.

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Handelsregistereintrag / N° Registre du commerce: HRB 21932 - Amtsgericht Augsburg

Ust.-Id. / N° d'identification TVA: DE250000378

ElektroG Reg.Nr.: DE 95429205

Batt-Reg.-Nr.: DE 94266517

WEEE Nr.: 95429205

Verantwortlich gemäß § 18 Abs. 2 MStV / Directeur de la publication: Ben Schwarz, NIMAX GmbH,
Adresse wie oben.