

# Universal Alan Gee II #2454405

The Universal Alan Gee II (UAG) is a special version of the Alan Gee II #2454400, which reduces the aperture ratio on Schmidt-Cassegrain and EdgeHD telescopes from f/10 to f/5.9 or even f/3.5. The UAG is pre-configured for visual use on Baader bino-viewers and Baader star diagonals. It provides approximately f/5.9 at a working distance of 121mm. The value may vary slightly depending on how far the UAG is placed from the eyepiece and the back of the telescope.

In this small manual we describe the most common configurations. For technical data and further details please visit our website and consult the detailed manual of the standard Alan Gee II #2454400. The optics are the same as those of the Alan Gee II, but without the two spacer tubes of the Alan Gee, which are required for photographic use on Schmidt-Cassegrains.

## The Universal Alan Gee II with bino-viewers on Schmidt-Cassegrains and EdgeHDs

The UAG (1) is attached to the bino-viewer directly in front of the bino-viewer (which has a light path of about 11 cm). The glass path corrector is not required. Despite the best coating, reflections may occur on very bright planets. In practice, however, these are irrelevant, since you usually do not observe planets with a telecompressor anyway – in this case the shortened focal length would be counterproductive anyway.

The UAG is either attached directly to the T-2 thread of the bino-viewer as shown in the image below, or to the T-2 quick coupler if the bino-viewer (such as the Mark V Giant bino) has a ring dovetail. It is then screwed to the T-2 star diagonal (3) using the T-2 extension ring 7.5 mm #1508153 (2) (included in the scope of delivery).

Using the BTA Adapter #2408160 (4), bino-viewer and star diagonal are screwed to the SC thread of the telescope. Instead of the BTA adapter, a 2"/T-2 nose piece #2408150 (5) can also be used if you have a 2" eyepiece clamp (e.g. 2" SC/HD ClickLock® #2956220). However, we recommend the BTA, as this allows a shorter adaptation and avoids focus problems on smaller telescopes – depending on the year of manufacture, it may not be possible to reach focus with the Universal Alan Gee II on every C8 with a 2" ClickLock®. Here, the shorter adaptation with the BTA adapter is an advantage.

For the same reason, we always recommend the use of a T-2 prism diagonal with a bino-viewer, as it has a much shorter light path than a mirror diagonal.



The Universal Alan Gee (1) is attached through the 7,5mm-extension (2) to the T-2-prism (3). The prism attached to the telescope either with the BTA-adapter for Schmidt-Cassegrains #2408160 (4) or with a 2"/T-2 nose piece #2408150 (5).

## Visual Use with Baader Star Diagonals on Schmidt-Cassegrain and EdgeHD Telescopes

The Baader 2" *star diagonals* (Click-Lock®, BBHS) have optical lengths of ca. 11cm, so that any eyepiece is placed automatically almost in the perfect distance from the Universal Alan Gee.

To achieve the correct working distance, you have to replace the 2" nose piece of the star diagonal with the Universal Alan Gee. To do this, you will need the 2" a / T-2i Zero-length reducing ring #2454833. For easier assembly and disassembly we strongly recommend the Adjustable Pin Type Face Wrench ø 2mm #2450062.

The star diagonal is then inserted as usual into the 2" eyepiece clamp (if available) of your telescope. The UAG replaces the 2" nose piece of the star diagonal. For a shorter adaptation, you can screw the BTA adapter #2408160 onto the 7.5mm T-2 extension of the UAG and use the SC thread of the telescope.

The overall length of our *T-2 prisms and mirrors* varies. In the case of the 36mm prism #2456095, for example, it is 38.5mm, plus the eyepiece clamp. The ClickLock® 1¼" / T-2 eyepiece clamp #2458100, for example, has a length of about 35 mm (depending on the setting of the fine focusing). With a total length of about 73mm, you should therefore use a 40mm T-2 extension to get close to the ideal distance of about 121mm. The connection to the telescope is again made via the 2" nose piece of the UAG or the optional BTA.



The Universal Alan Gee (1) replaces the 2" nose piece (2) of the star diagonal. To attach it, you need the separately available 2"/T-2i reducer ring #2454833 (not visible) between UAG and the SC-thread of the star diagonal. The star diagonal is attached to the telescope either with the BTA-adapter for Schmidt-Cassegrains #2408160 (4) or with the 2" nose piece of the UAG.



The Universal Alan Gee (1) is connected through an optional 40mm T-2 extension (2) to the T-2 star diagonal (3). The star diagonal is attached to the telescope either with the BTA-adapter for Schmidt-Cassegrains #2408160 (4) or with the 2" nose piece of the UAG.

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