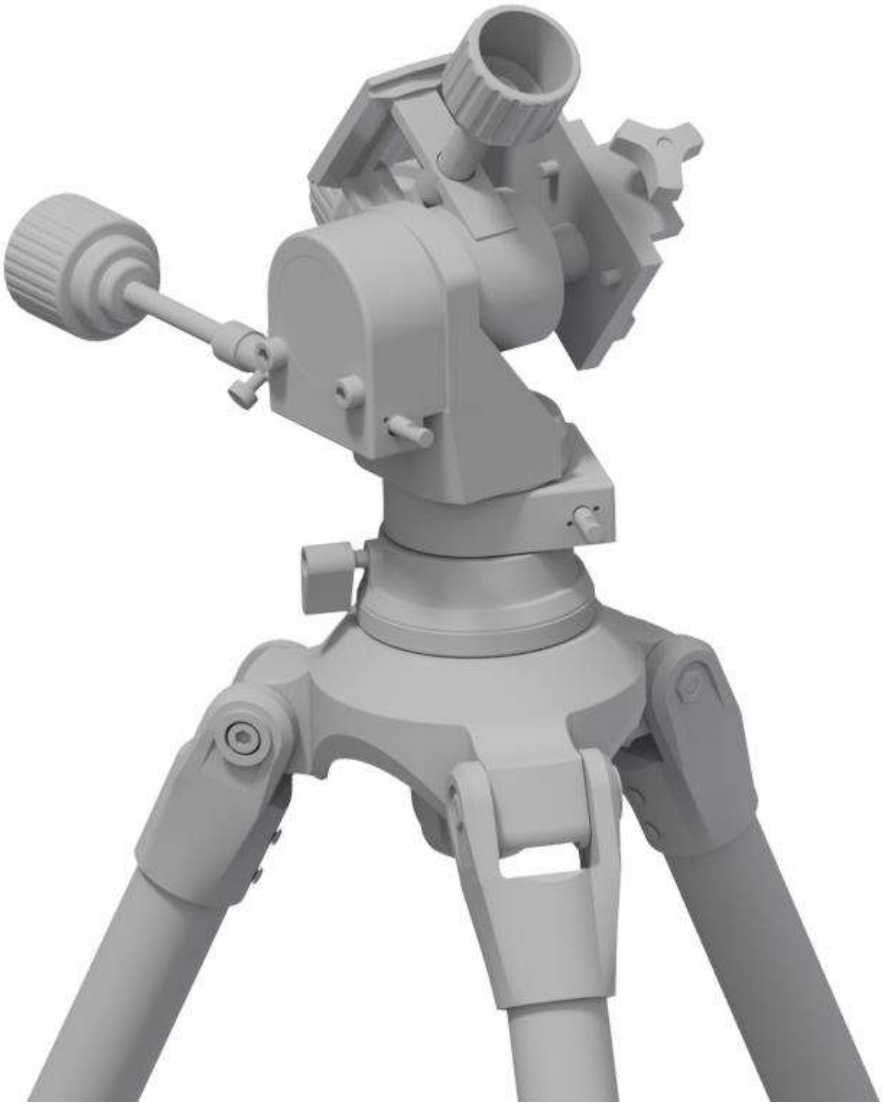
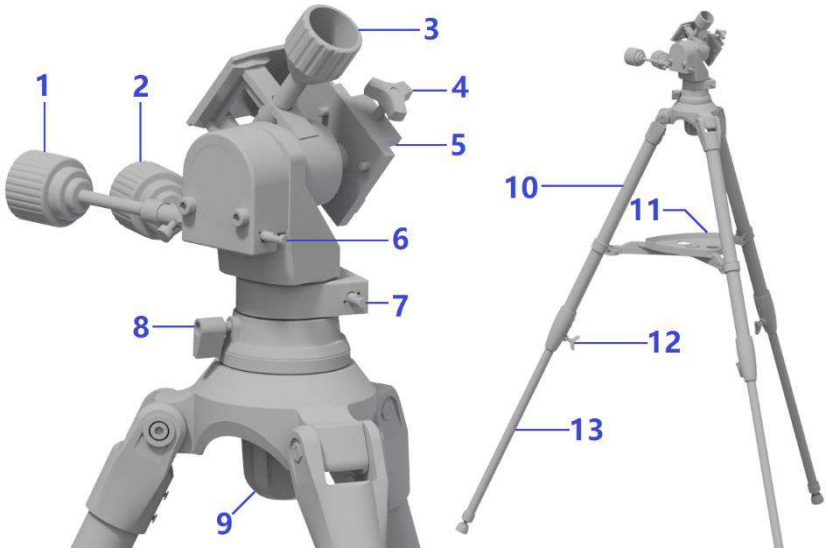
Instructions Manual



Omegon® Bellavista Alt-Az mount (with 1.25” tripod)

English version 11/2025 Rev B Art. 85246

Congratulations on the purchase of the new Omegon® Bellavista Alt-Az mount. This all-metal mount is able to carry telescope tubes (OTA) up to 4 kg.
It has two setup modes:
1- Land observation;
2- Astronomy observation (with the supplied L-Bracket);
Paired with its stainless steel tripod, it offers a stable observation platform for the most demanding user as it offers precise fine adjustment control on both axis. Furthermore, the big clutch knob on the altitude axel allows quickly adjusting friction, for manual pointing.



Schematic of components and parts

1 - Altitude fine-adjustment hand control;
2 - Azimuth fine-adjustment hand control;
3 - Altitude Clutch;
4 - Dovetail locking knob;
5 - Dovetail holder;
6 - Altitude axel;
7 - Azimuth axel;
8 - Azimuth clutch;
9 - Mount locking knob;
10 - Top leg (tripod);
11 - Accessory tray;
12 - Fixing hand screw (tripod);
13 - Bottom leg (tripod).

1. Getting Started.

1.1. What is an Alt-Az mount? A telescope mount allows pointing a telescope's optical tube (also known as OTA) to an object. This object can be a terrestrial (land) or celestial object. For this, the mount provides movements on two axis, a left-right movement (also called Az – short for Azimuth) and an up-down movement (also called Altitude). Thus the name Alt-Az as a contraption of both Altitude and Azimuth.

Alt-Az mounts are especially useful visual use. Because of their simple basic movements, by releasing both axis clutches, it allows to quickly and easily point to any object by hand, while providing a comfortable observing position. For precision or fine pointing adjustments, engaging the clutches and using the fine-adjustment hand controls allows to centre objects very easily

This mount is able to hold optical tubes up to 4kg in weight (using the supplied L-Bracket) and it is especially useful for short OTA.

Did you know?
Most professional modern telescope use a similar Alt-Az mount design which allow to point the OTA, with computer aid, to point to celestial objects?

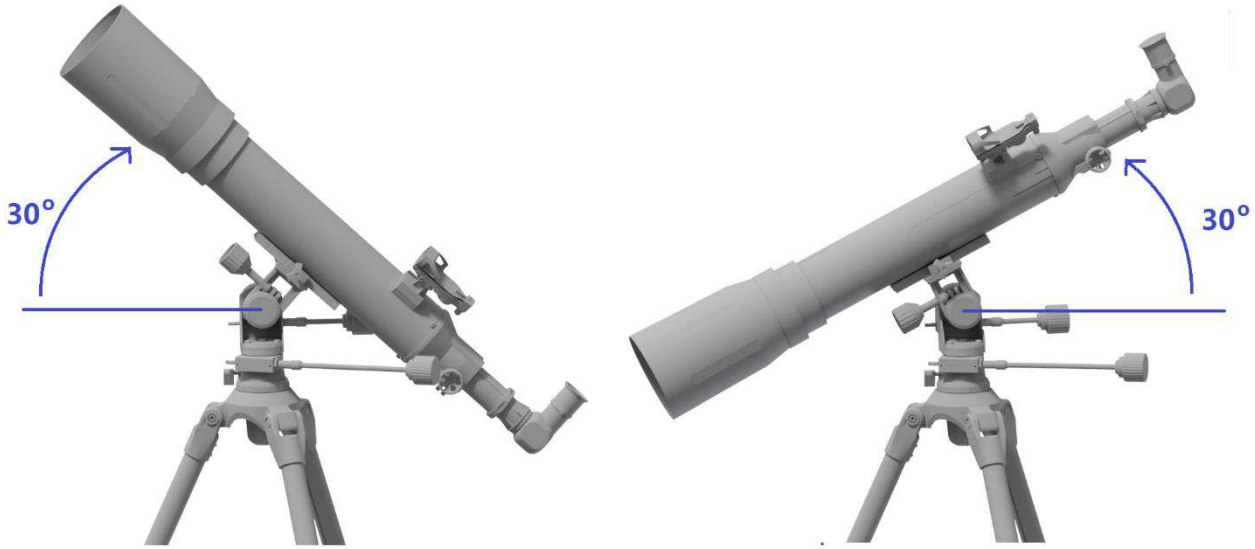
2. "Bellavista. One mount, two modes."

2.1. Landscape use.

The Landscape mode, allows observing, as the name suggests, landscape or land objects.
For this mode, the mount (supplied from the factory already pre-assembled), requires no modifications.
In this mode, recommended for balcony use of landscape objects, the OTA can easily point down or up 30 degrees (of course this depends on the size and weight of the OTA as some balancing constrains may arise).

2.2. What limitations does the Landscape mode have?

Objects in Landscape mode are close to the horizon, such as boats, mountains or cities. In Landscape mode, the OTA remains in a position close to the horizontal. It moves up and down within a range of 30 degrees above and below (actually a total of 60 degrees). This is a safe configuration, meaning that the tube is never pointing totally up (Zenith) or down (ground).



Altitude limit. This range, of around -30 to +30 degrees, allows the OTA to remain more or less balanced to the mount, even if the centre of gravity is a bit off.

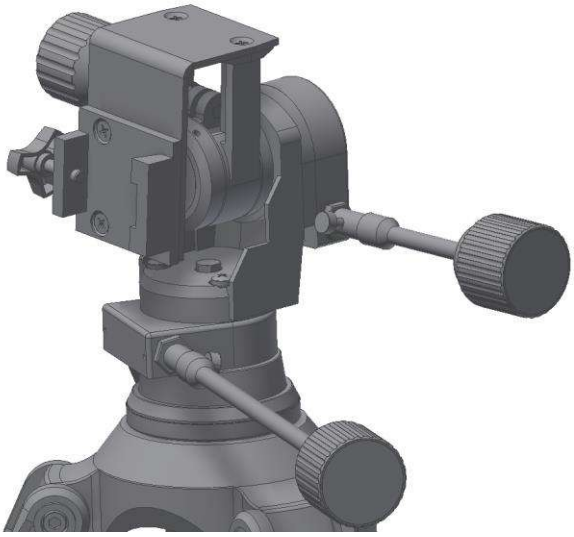
Landscape mode: Use caution when pointing up (or down) with a limit of maximum of *30 degrees!!*

This mode is ideal for terrestrial observing. For astronomy, however, there is another observation mode, which is highly recommended, even for landscape use.

3. Astronomy mode.

The included L-bracket allows a more solid and smoother use in the landscape and astronomy mode. In this mode, the OTA's centre of gravity remains aligned with the mount's Altitude axis.

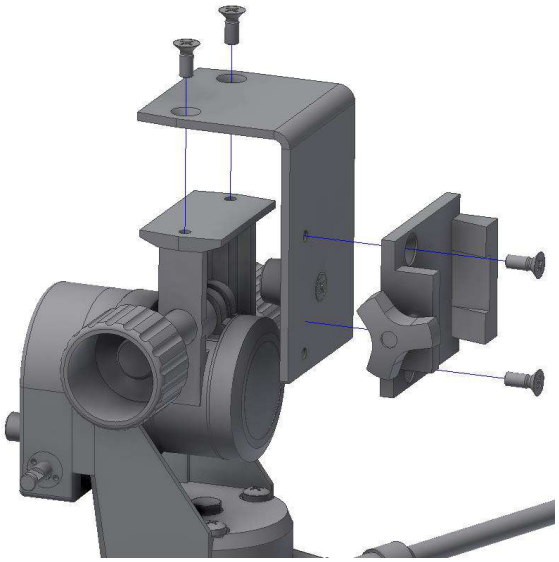
Start by mounting the L-Bracket to the mount as shown below.



4. Mounting the L-Bracket.

1st. Start by removing the dovetail holder #2 using a screwdriver (not included).
2nd. Place the L-Bracket as shown in the figure and use the supplied screws to fix it to the mount.
3rd. Proceed with fixing the dovetail holder #2 to the bracket.

A screw driver is needed (not supplied).

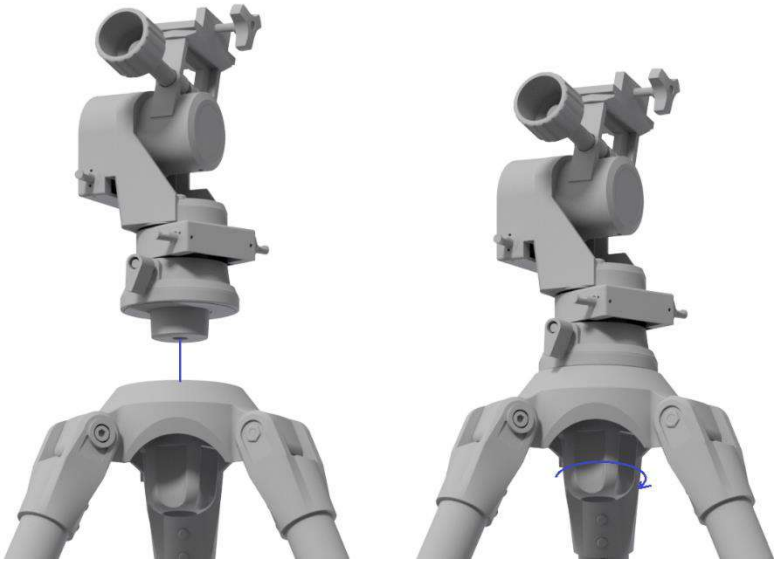


4.1. L-Bracket assembled.

We recommend keeping the L-Bracket mounted at all times (unless pointing below the horizon is required).
The final product should look like in the figure.

5.1. Setting the mount to the tripod.

Align the mount to the tripod's head, as shown, and lock by tightening the mount's locking knob #9.

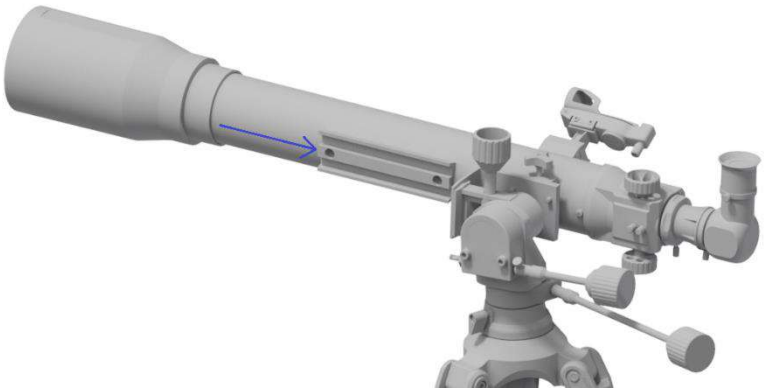


5.2. Extending the tripod.

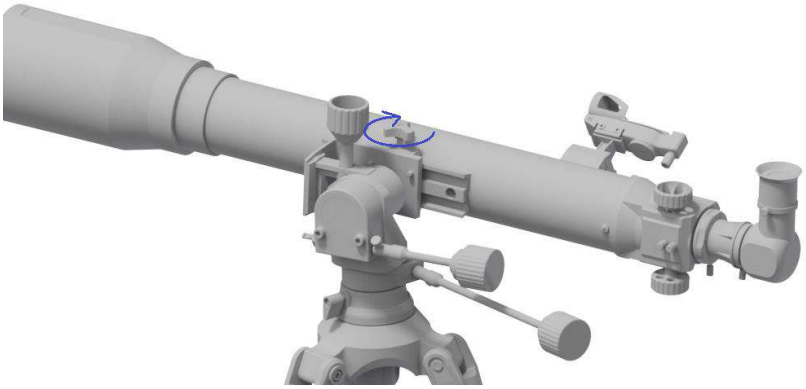
Fully extend the tripod by pulling out the three bottom-legs #13. Use the three Fixing hand screw (tripod) #12 to firmly secure the bottom-legs #13 in position.
Make sure the three legs have the same extension length so that the tripod base is more or less horizontal.

5.3. Installing the OTA.

Release the Dovetail locking knob #4 and slide the OTA as shown. Align the Dovetail #M with the dovetail holder #5 and slide it in.

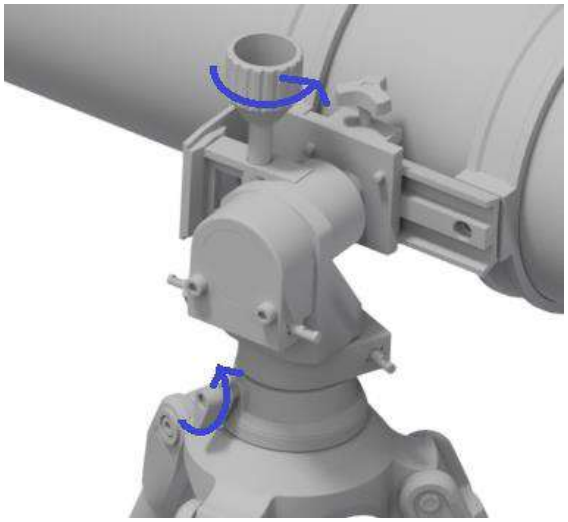


5.3. Fixing the OTA to the mount. Lock the OTA in place by firmly tightening the Dovetail locking knob #5.



5.5. Releasing the clutches

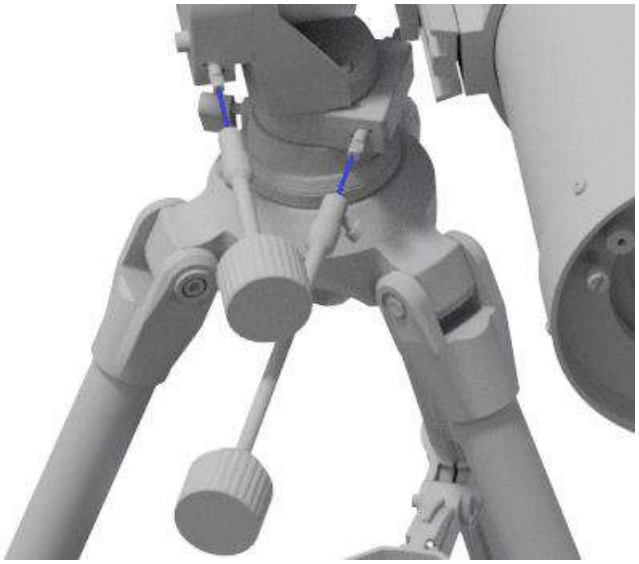
Release both the altitude clutch #3 and azimuth clutch #8. The OTA is now free to tilt up and down and move left-right. This will show you how you can point the OTA to any point in the sky quickly and easily. Observe if the OTA tilts to the front or the back. Keep that in mind! Adjust the dovetail position as necessary to avoid tilting.
Adjusting the friction with the clutches allows to regulate how smoothly the two axis will be.

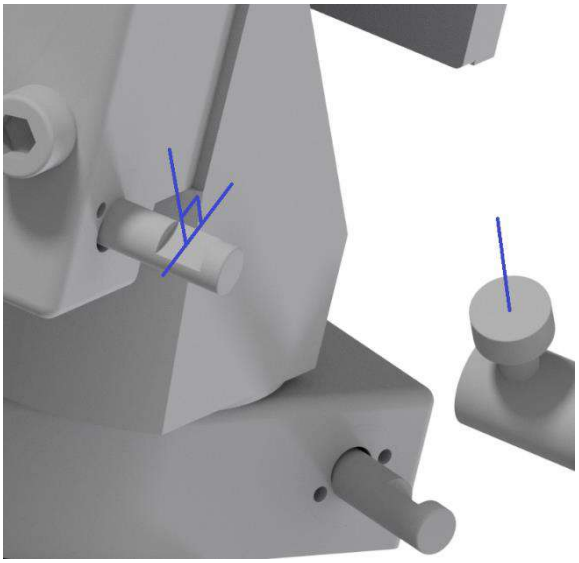


Make sure to retighten both Clutches before proceeding!

5.7. Installing the fine-adjustment hand controls #1 and #2

Install the fine-adjustment hand controls #1 and #2 as shown. Make sure that the locking thumbscrews are perpendicular the small axel slit. This will ensure that it will not get loose easily.

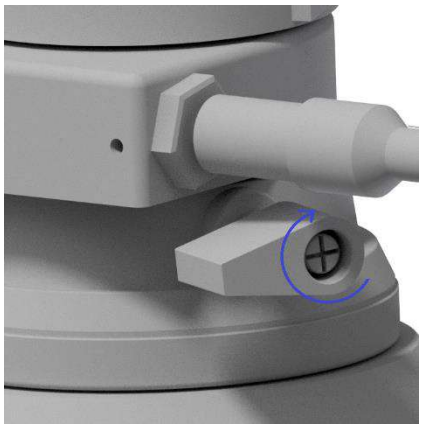




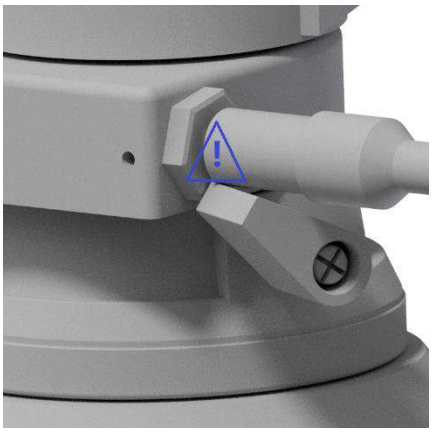
5.8. Testing the mount.

1st. Make sure both the altitude clutch #3 and azimuth clutch #8 are engaged (tightened).
2nd. Turn the fine-adjustment hand controls #1 and #2 clockwise and counter clockwise. If the clutches are engaged, you will see the OTA gently moving in both directions.
3rd. Release the clutches and check if the OTA tilts. Adjust balance if necessary.

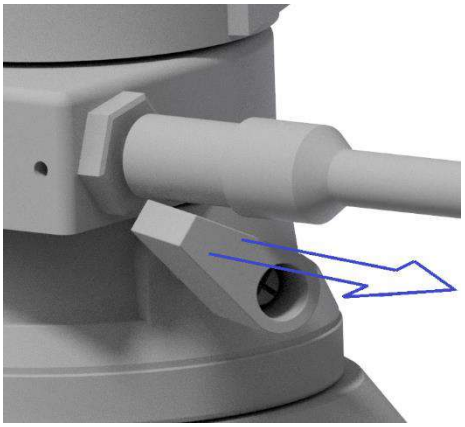
5.9. Clutch adjustment



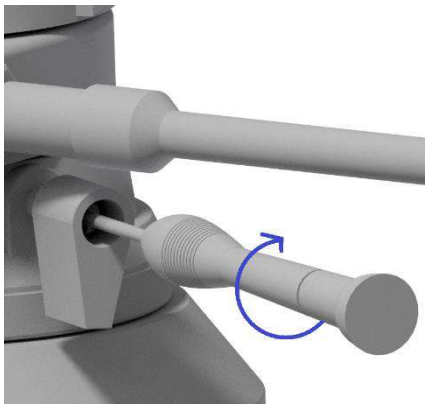
Engage the azimuth clutch.



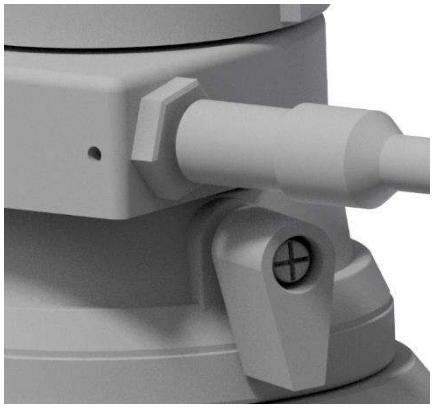
If the clutch hits some part of the mount it means that it needs to be adjusted.



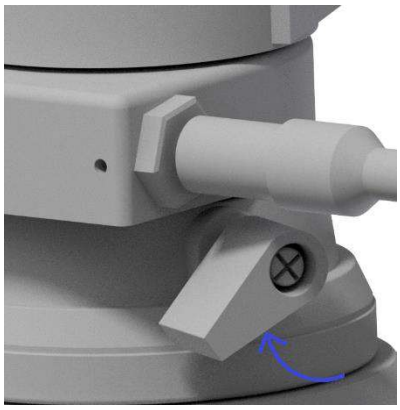
Pull-out the plastic handle.



While pulled-out, use a screwdriver (Philips-type) and tighten the inner screw.



Release the plastic handle in a vertical position as shown.



Now, when engaging the clutch, the plastic handle will only move a few degrees and will not hit any part.

6. Recommended Half-Pillar (not included and optional)

The half-pillar, article #87986, increases the height of the mount by 20cm which allows more distance, from the eyepiece position, to the ground. This is particularly important for long refractor telescopes or tall users and avoids needing to bend over to look through the eyepiece.
It also allows a better experience when pointing to object near the Zenith.