

Newton Laser Collimator



Laser radiation
You must not look into the laser beam!
Laser Class 2
DIN EN 60825 - 1:2008 -05

Warning!

You must not look directly into the laser beam! Be cautious, as the laser beam might emit from the telescope tube when it is severely misaligned!

The laser collimator should arrive well aligned. The adjustment screws are protected by soft rubber. Normal usage or battery replacement does not affect the alignment. Should the laser collimator fall to the ground or be shaken heavily due to other reasons, you can remove the soft rubber and re-align it.



1. Place the telescope tube into an horizontal position. Have the eyepiece port face upwards vertically.

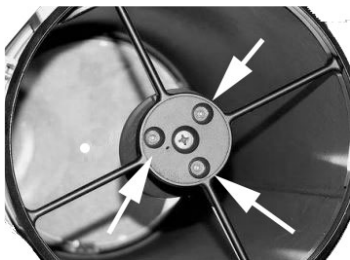


2. Insert the laser collimator into the 1.25" accessory socket. The aperture of the laser collimator (target) needs to face forward into the direction of the main mirror.

Turn the laser collimator on by turning the wheel. You can choose between 7 degrees of illumination. Make sure the laser beam DOES NOT exit the telescope tube by placing your hand or a piece of paper in front of it. The laser beam can damage your eyes beyond repair.



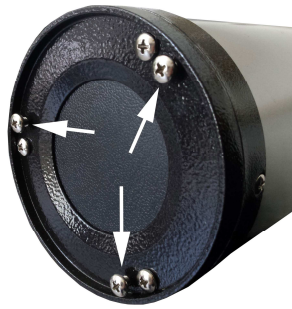
3. When looking through the telescope aperture you can see the main mirror with the laser dot. The laser dot has to become the centre of the main mirror. By tilting the secondary mirror you can adjust the centring.



4. By turning the alignment screws you can tilt the secondary mirror. It makes the laser dot move across the main mirror. When the laser dot found its centre, you have finished the alignment of the secondary mirror.



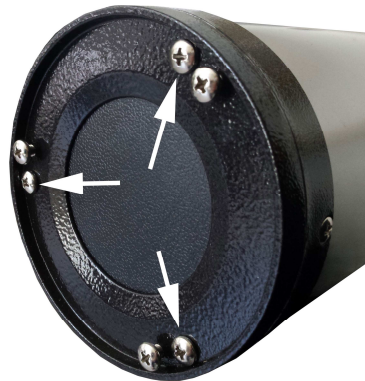
5. Now you need to align the main mirror. When it is only slightly misaligned, the reflex point will already be visible within the target. The lateral aperture of the laser collimator needs to face the main mirror.



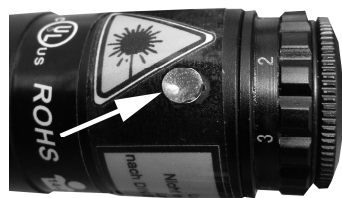
6. The laser beam needs to perfectly reflect itself. In other words it has to hit the target in the exact centre in its hole. It can be adjusted by using the alignment screws of the main mirror. They can be recognized easily as they are the ones which stand out a little bit.



7. By adjusting the alignment screws the laser dot moves across the target until it is perfectly centred.



8. At the end tighten the fixing screws. You can recognize them easily as they are not standing out. Keep an eye on the laser dot, it shall not move during this process



9. Aligning the laser collimator

If necessary you can align the laser collimator. For this purpose you will find three rubber sealed adjustment screws on the device. It might be possible that they are hidden beneath warning stickers. In this case please remove the stickers first and afterwards the rubber seal.