




For more information on this product or to download the instruction manual, please visit the respective product page on [celestron.com](https://www.celestron.com)

NEED ASSISTANCE? Contact Celestron Technical Support [celestron.com/pages/technical-support](https://www.celestron.com/pages/technical-support)

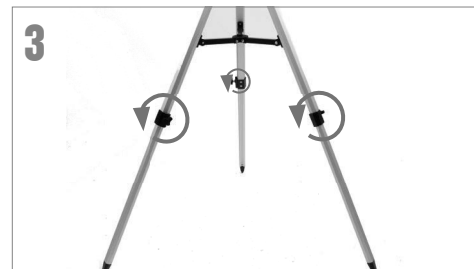
 **SOLAR WARNING:** Never attempt to view the sun through any telescope without a proper solar filter.



Unpack your telescope and verify that all parts are present. Your 114AZ-SR Telescope includes: a telescope tube, a tripod and mount head, an accessory tray, two eyepieces, a red-dot finderscope, and a smartphone adapter.



To set up the tripod, spread the legs outward until they are fully extended and push down center leg brace.



To extend the legs of the tripod, turn the locking knob on each leg section counterclockwise to loosen. Then, pull the lower leg section all the way out and retighten the locking knob to secure the leg in place.



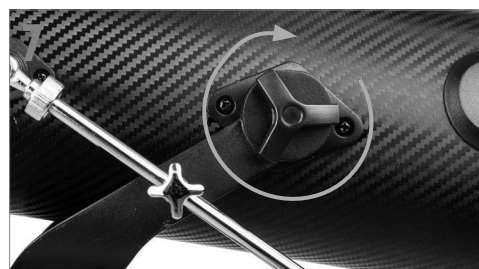
Attach the accessory tray by placing the threaded post on the bottom of the tray into the threaded hole in the center of the leg brace. Turn the entire accessory tray clockwise until it is fully seated. If necessary, you may rotate the tray counterclockwise slightly so that the eyepieces holders in the tray are not blocked by the leg brace arms.



While holding the telescope tube above the altazimuth mount, insert the end of the long silver altitude slow motion rod on the left side of the optical tube into the rod guide on the left fork arm of the mount.



Lower the telescope tube until the two altitude hubs on either side of the tube slide into the notches at the top of the fork arms.



Tighten the silver locking knob on the rod guide, then thread the two telescope mounting hand bolts through the fork arms and into the two altitude hubs on the telescope tube. They need to be snug, but do not overtighten.



Remove the cap from the focuser and make sure the two thumbscrews do not protrude into the opening.



Insert the barrel of the 26mm eyepiece into the focuser and tighten the setscrew to secure it in place.



Locate the finderscope and loosen the two Phillips head screws on the right side of the finderscope. Slide the finderscope over the bracket on the telescope tube and tighten the Phillips head screws to secure the finderscope to the rail.



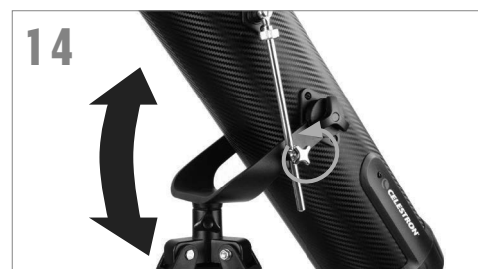
Remove the large lens cap from the front of the telescope. To observe, look through the eyepiece as shown above. Focus the image by turning the focusing knobs below the focuser.



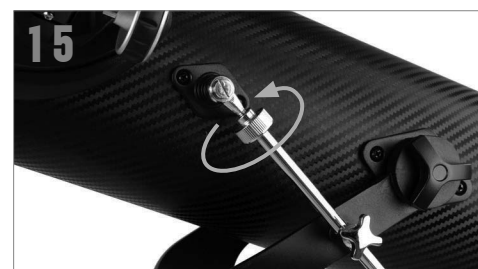
For additional magnification, you can swap out the 26mm eyepiece for the 9.7mm eyepiece. This will increase your magnification from 23x to 62x.



To move the scope right and left, hold a tripod leg with one hand while the other hand uses the panning handle to move the scope as required. The azimuth locking screw can be loosened or tightened to adjust the tension to your preference.



To move the scope up and down over large distances, loosen the silver locking knob on the rod guide. Use one hand to manually move the scope to the desired angle and secure it in place by tightening the silver locking screw.



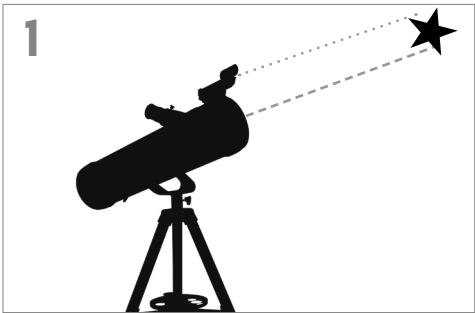
To move the scope up and down in fine increments, keep the locking knob on the rod guide tightened and simply rotate the silver knurled knob on the altitude slow motion rod. This allows for fine adjustment when centering a target or when tracking a celestial target as it appears to drift across the night sky.

NOTE: The slow motion rod has a limited range of motion. If you hit one of the stops, you can reset the rod by loosening the locking knob on the rod guide and then turning the slow motion knob until it is in the center of its travel. Tighten the locking knob and resume normal use.

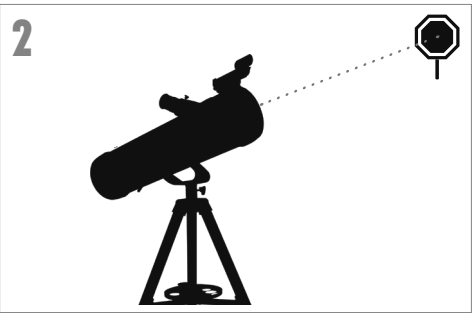
Aligning the Finderscope

The finder is one of the most important parts of your telescope. It helps you locate objects and center them in the eyepiece. The first time you assemble your telescope, you need to align the finder to the telescope's main optics. It's best to do this during the day*.

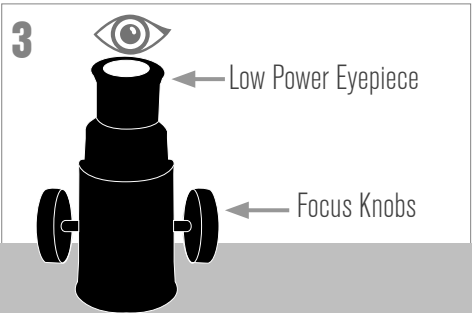
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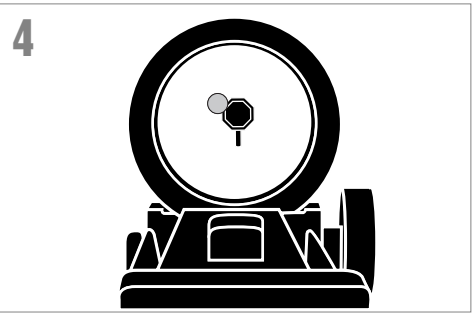
FINDERSCOPE BATTERY ACTIVATION
Remove the small plastic tab under the battery cover by pulling it straight out. For longer battery life, be sure to turn off the finderscope when it is not in use.



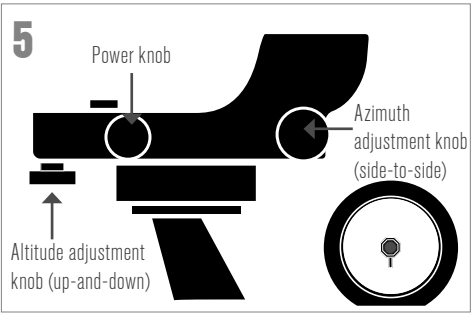
CHOOSE A TARGET
Take the telescope outside during the day and find an easily recognizable object, like a streetlight, license plate or sign. The object should be as far away as possible, but at least a quarter mile away.



CENTER THE TARGET IN THE EYEPIECE
Look through the telescope using your lower power 26mm eyepiece. Move the telescope until the object you chose lies in the center of the view. If the image is blurry, gently turn the focus knobs on either side of the telescope until it comes into sharp focus.



LOOK THROUGH FINDERSCOPE
Once the object is centered in your 26mm eyepiece, look through the finderscope and locate the red dot



ADJUST THE FINDERSCOPE
Without moving the telescope, use the two adjustment knobs on the finderscope to move the red dot appears over the object you are observing in the telescope's 26mm eyepiece.

TIP: Try adjusting one screw at a time. Loosen one screw by half a turn and tighten another by the same amount to ensure the finderscope is securely held in place.

YOUR FINDERSCOPE IS NOW ALIGNED!
It should not require realignment unless it is bumped or dropped.

Using the Smartphone Adapter



Lift the bungee straps and slide your smartphone between the straps and the adapter body so that the camera is looking through the camera opening. The straps should provide plenty of tension to hold the device securely against the adapter.



Loosen the setscrews on the eyepiece holder on the bottom side of the adapter. Place the black portion of the eyepiece into the eyepiece holder and tighten the screws to secure the eyepiece in place.

NOTE: You may have to remove the rubber eyecups from the eyepiece.



Now take the adapter with the phone and eyepiece attached and insert the chrome barrel of the eyepiece into the focuser of the telescope. Secure it in place by tightening the setscrews on the focuser.

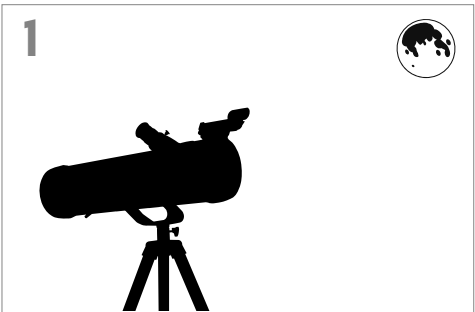


Activate the camera app on your smartphone and adjust the focus, just as you would with an eyepiece, using the image that appears on your phone's screen.

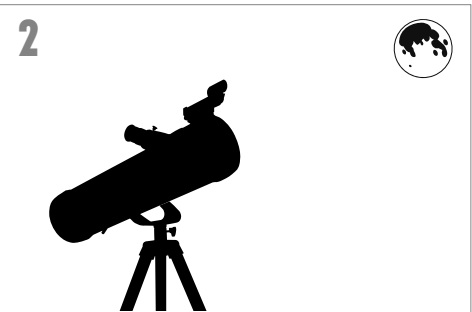
NOTE: Make sure you turn the phone's flash is turned off.

Your First Night Out

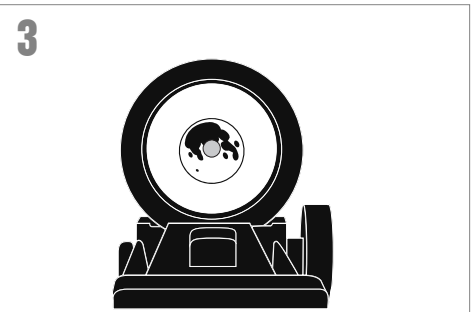
The best and easiest target for you to view first is the Moon. Try observing the Moon at different points in its phase cycle. The best time to view the Moon is from two days after a New Moon up to a few days before a Full Moon. During this period, you will be able to see the most detail in the craters and lunar mountain ranges.



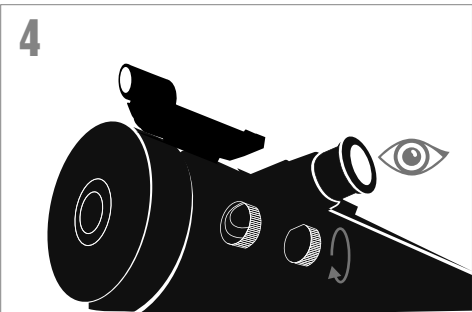
With the Moon visible in the sky, set up your telescope as described above with the 26mm eyepiece installed.



Move the telescope so that it is roughly pointing toward the Moon.



Look through the finderscope and locate the red dot. Continue moving the telescope until the red dot appears over the Moon.

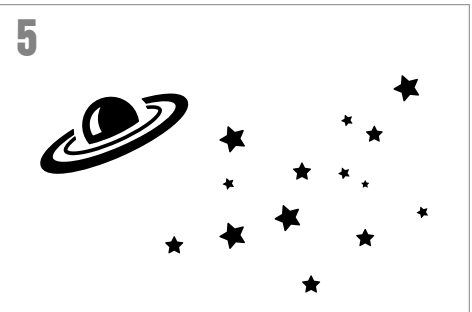


Look through the telescope's 26mm eyepiece. Gently turn the focus knobs to adjust the sharpness of the image.

CONGRATULATIONS! YOU HAVE NOW OBSERVED YOUR FIRST CELESTIAL OBJECT!

To get a closer view of the Moon, loosen the setscrews on the focuser and remove the 26mm eyepiece. Replace it with your 9.7mm eyepiece and tighten the setscrews to secure it in place. The 9.7mm eyepiece will give you significantly more magnification, making the Moon appear much larger.

NOTE: You may need to adjust the focus knobs when you change eyepieces, so make sure you are getting the sharpest image possible.



You can view many other celestial objects, such as planets, star clusters and nebulae using this same technique if you know where to find them in the night sky. Celestron SkyPortal Powered by SkySafari™ (available for iOS and Android) can help you locate and identify a wide array of celestial objects quickly and easily.



BATTERY WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as 2 hours.
- Keep new and used batteries **OUT OF REACH OF CHILDREN**
- **SEEK MEDICAL ATTENTION** if battery is suspected to be swallowed or inserted inside any part of the body.

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Designed and intended for those 14 years of age and older.
Made in China 06-23

celestron.com/pages/warranty