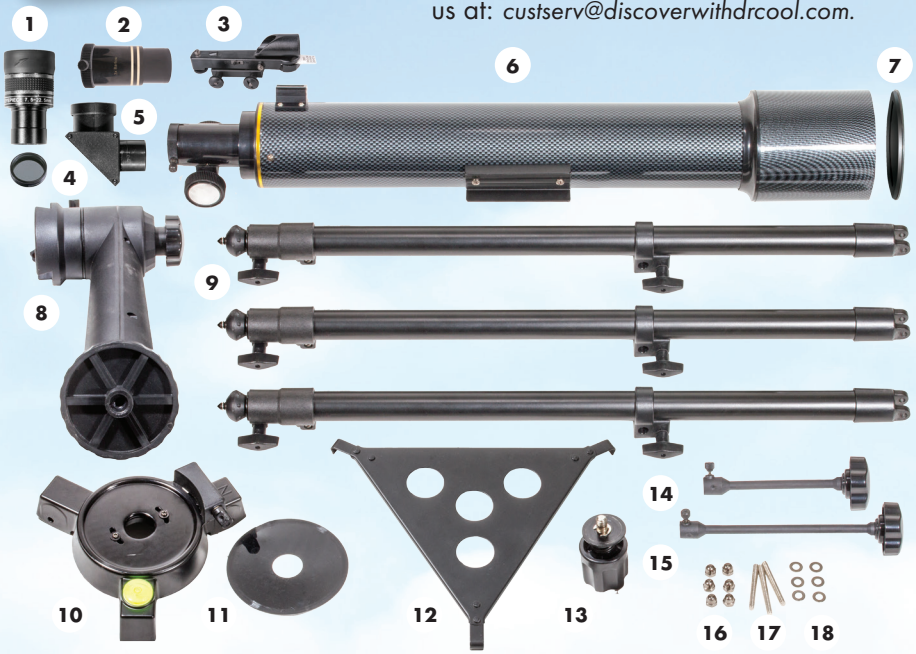
PRO SERIES TELESCOPE

Get ready for hours of discovery and fun with your new Dr. Cool Telescope!

Parts List

Your Dr. Cool Telescope should include all of the pieces shown below. See the other side of this sheet for assembly instructions!

If anything is missing or damaged contact us at: *custserv@discoverwithdrcool.com.*



1. Zoom eyepiece
2. 3x Barlow lens
3. Red dot finder
4. Moon Filter
5. Refractor
6. Telescope barrel
7. Lens Cap
8. Barrel mount
9. Tripod legs (3X)
10. Tripod head
11. Barrel mount disc
12. Tripod stabilizer
13. Barrel mount lock
14. Vertical micro adj.
15. Horizontal micro adj.
16. Hex nuts (6X)
17. Threaded bolts (3X)
18. Washers (6X)

PRO SERIES TELESCOPE ASSEMBLY INSTRUCTIONS:

Set your telescope components on a clean surface and make sure you have all of the pieces listed on the other side of this sheet.

Step 1: Using the hex nuts, washers, and bolts, attach the 3 tripod legs to the tripod base. Make sure tripod leg tightening knobs are facing inward as shown.

Step 2: Snap-fit the tripod stabilizer into place and lightly tighten its three locking knobs just enough to hold it in place.

Step 3: Place the barrel mount disc on top of the tripod base and position the barrel mount on top of the disc. Secure the barrel-mount/ tripod assembly with the barrel mount lock.

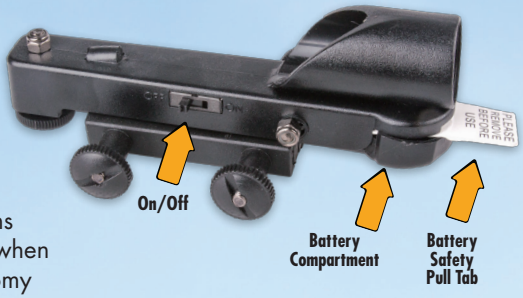
Note: Be sure the horizontal and vertical micro-adjustment mechanisms are both facing in the same direction.

Step 4: Fit the barrel rails into the groove on the barrel mount. Attach telescope barrel with the eye-piece-end pointing in the same direction as the micro adjuster mechanism. Tighten locking knob.

Note: Be sure to tighten the small locking knob located on the top of the barrel mount.

Note: Micro adjustor mechanism and barrel eyepiece both point in the same direction.

Step 5: Attach Zoom eyepiece, 3X Barlow lens, Refractor, Red Dot finder (note small on-off switch on side), vertical micro adjustor (shorter) and horizontal micro adjuster (longer) arms. Remove the lens cap and your telescope is ready to use!



3x Barlow Lens: This powerful lens will triple your magnification. Use it when viewing deep space objects. Astronomy Tip: More magnification doesn't always mean a clearer image. Some objects may look clearer without this lens.

Red Dot Laser Finder: Be sure to remove the battery safety pull tab and turn the finder on. If the finder stops working, replace the battery.

Cool Science Tip

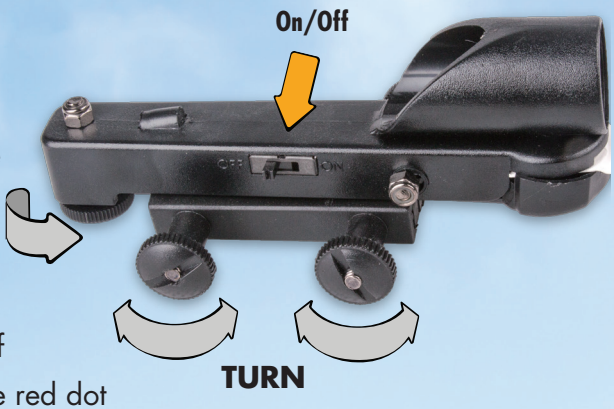
Moon Filter: Use this special filter when looking at the Moon. It screws right on to the bottom of the eyepiece (see photo above.)

Micro Adjusters: These make very fine adjustments. Position the telescope manually then, once your object is in view, use the micro adjusters to track it as it moves across the sky.

HOW TO USE YOUR PRO SERIES TELESCOPE

One key to successful star-gazing is to remember that the greater the magnification you use, the smaller the area of the sky you will see. That's why you don't use a telescope to scan the skies. Instead, you point your telescope at an object by using a spotting scope (the red dot finder) that has no magnification but a big field of view. Here's how to do it.

1. Once you have assembled your telescope, you **must** align the image you see through the telescope with the image you see through the red dot finder. Focus your telescope on an identifiable spot several hundred feet away from you (e.g. a knothole on a tree, a chimney on a building).



Turn on the red dot finder and look through tube to find the red dot. Turn the knobs on the left and the bottom of the finder until the red dot shines on the same spot that is in the center of the field of view when you look through the telescope. Tighten the knobs on the right of the finder to secure it in place.

Note: The alignment process is best done at dusk.

2. Select a viewing site that is away from light pollution (city light). Let your eyes adjust to the dark for at least 10 minutes before viewing the stars so that your pupils can fully dilate.

3. Scan the sky until you find an object that you wish to observe. Looking through the red dot finder, manually move the telescope until the dot is over your chosen object. If you have aligned the red dot finder and the telescope correctly, the object will appear in the center of the telescope's field of view.

Make sure the object you choose appears in the center of the view!

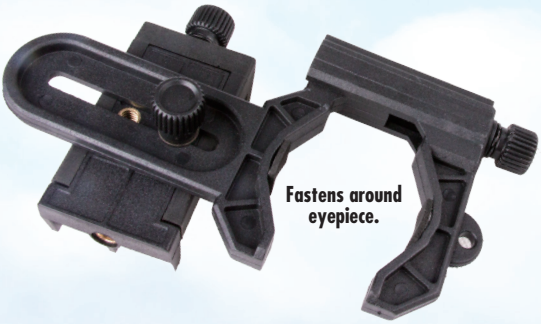
4. Focus on the object by turning the silver knobs on the side of the telescope. Turn the ring on the zoom lens to increase magnification.

5. Use the micro adjusters to follow your object as it slowly moves across the sky, always keeping it in the center of the field of view.

6. To increase magnification, use the Barlow lens. Being careful not to bump the telescope, remove the zoom eyepiece from the refractor. Put the Barlow lens into the refractor and the zoom eyepiece into the Barlow lens; then secure both by tightening the knobs on the sides of the lenses. REMEMBER: As the Barlow lens increases magnification, it also narrows the field of view, so be sure the object you are viewing is in the **very center** of the field of view before changing lenses. Use the focus knobs to bring the object into clearer focus.

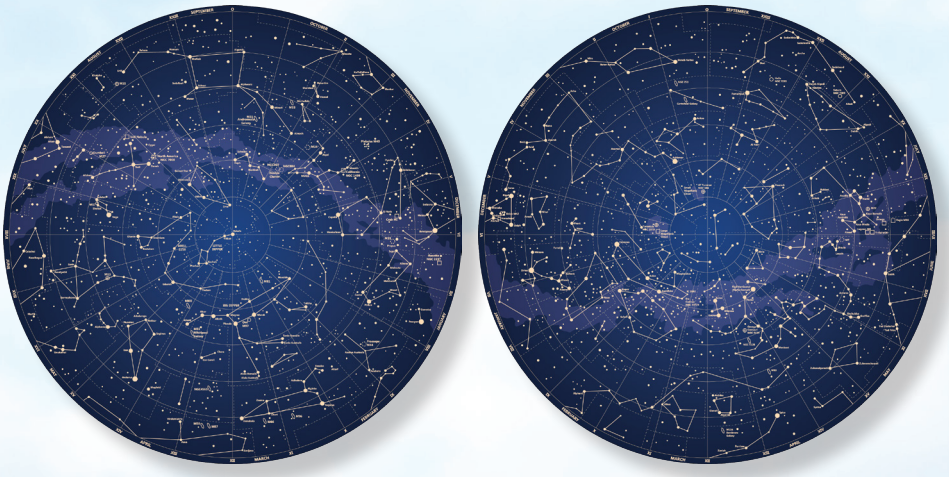
7. Photograph your discoveries and share them with friends by using the smart-phone attachment.

Smart-phone Bracket
Adjusts to a wide variety of smart-phones (shown bottom-up.)



Fastens around eyepiece.

Now that you've put together your PRO SERIES TELESCOPE, the whole universe will open up to you. Keep learning, keep looking, and most importantly, have fun!



Sky Maps of the Northern and Southern Hemespheres