

StarSense Explorer™ DX **100AZ** REFRACTOR TELESCOPE

QUICK SETUP GUIDE

#22467



1 Unpack your telescope and verify that all parts are present. Your StarSense Explorer DX includes: a telescope tube, a tripod and mount head, an accessory bag, slow motion controls, an accessory tray, two eyepieces, an erect image diagonal, a finderscope, a StarSense phone dock, StarSense Explorer app code card, and a hex key (hidden inside the slot in the front of the mount head).



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



3 Extend the legs of the tripod by loosening the three hand knobs on each leg. Pull each leg section all the way out and tighten the hand knobs to secure them in place.



4 Place the accessory tray on top of the center brace and line up the three holes. Insert the three thumb screws through the top of the leg brace and thread them into the tray.



5 To attach the slow-motion knob **A** to your mount, first locate the supplied hex key hidden inside the slot in the front of your mount.



6 Place the slow-motion control knob over the D-shaped gear shaft and push inward to make sure it is fully seated. Use the hex key to tighten the setscrews onto the gear shaft. Return the hex key to its storage position in the front of the mount.



7 **MOUNTING KNOB SHOULD FACE UPWARD**
Turn the clamp assembly so that the locking screw is on top of the dovetail clamp. Hold the telescope tube next to the mount with the dovetail bar on the tube facing the clamp on the top of the mount arm.



8 Slide the dovetail bar into the clamp at the top of the mount and tighten the hand knob on the bottom of the clamp to secure the telescope in place.



9 Locate the erect image diagonal and remove the plastic covers. Insert the barrel of the diagonal into the focuser and secure in place by tightening the setscrews.



10 Insert the barrel of the 25mm eyepiece into the diagonal and tighten the setscrew.



11 Slide the finderscope bracket into the dovetail slot on the telescope tube near the focuser. The large window on the finder should be facing the front of the telescope. Secure the bracket by tightening the setscrew on the dovetail slot.



12 There is a small clear plastic tab inserted between the battery and the contact. This was included to prevent the battery from discharging during shipment. Pull this out to allow your battery to work.



13 To install the StarSense phone dock, insert the bayonet mount on the side of the dock into the port on the side of the mount opposite the dovetail clamp.



14 Line up the arrow on the dock with the alignment mark on the mount and press inward while turning the dock counterclockwise until the orange release button snaps into place in the hole on the dock.



15 To remove the dock, press the orange release button and turn the dock clockwise until the bayonet mount releases.



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

Downloading and Activating the App

Before you take your telescope outside, download the StarSense Explorer app to your mobile device. Search for "Celestron StarSense Explorer" in the Apple App Store or Google Play. The app is large, so we recommend downloading it while connected to Wi-Fi.



1 Once you have downloaded the app, locate the orange postcard in your telescope box. Launch the app. When prompted, enter the activation code on the postcard to activate the app. Your code will unlock up to 5 devices.

Moving the Telescope



The StarSense Explorer DX mount has slip clutches in both axes. To make large movements with the telescope, simply hold a tripod leg with one hand and use the other hand on the telescope tube to push the telescope in the desired direction.



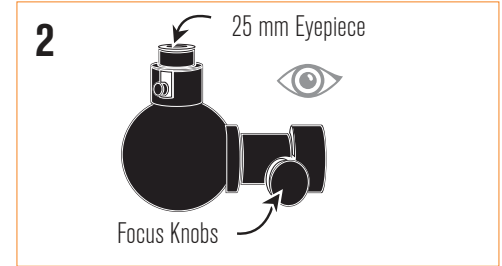
To make fine adjustments or to track celestial objects, turn both slow motion knobs as required.

Aligning the Finderscope



CHOOSE A TARGET

Take the telescope outside during the day and find an easily recognizable object, such as a streetlight, car 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 powered 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.

NOTE: The image in your telescope may appear inverted. This is perfectly normal in an astronomical telescope.

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*.

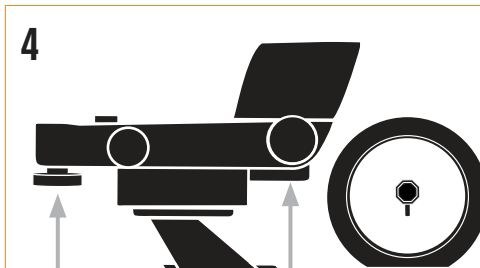


***SOLAR WARNING!** Never attempt to view the Sun through any telescope without a proper solar filter!



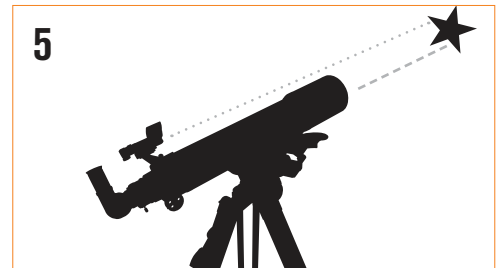
LOOK THROUGH FINDERSCOPE

Once the object is centered in your 25mm eyepiece, look through the finderscope and locate the red dot.



ADJUST THE FINDERSCOPE

Without moving the telescope, use the two adjustment knobs to move the finder around until the red dot appears over the same object you are observing in the telescope's 25mm eyepiece.



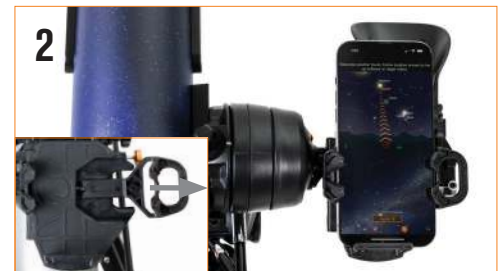
YOUR FINDERSCOPE IS NOW ALIGNED!

It should not require realignment unless it is bumped or dropped.

Attaching the Smartphone



Remove the large cap covering the mirror on the front of the StarSense dock.



Pull open the spring loaded slider on the top of the phone dock and set the phone into the holder so it is flush with the bottom lip of the phone holder. Slowly release the slider to secure the phone in place. Most phones fit into the dock with the case on. However, you may need to remove your phone case if it is especially bulky or unable to fit into the clamp (i.e. folio style cases).

Your First Night Out



Congratulations! Your telescope is now set up and you are ready to explore the cosmos. Take the telescope outside, insert your 25 mm eyepiece, remove the lens cap, insert your smartphone into the holder, and launch the StarSense Explorer app. The tutorial in the app will walk you through the steps on finding your first astronomical target.



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In association with Royal Observatory Greenwich.

Product design and specifications are subject to change without prior notification.
This product is designed and intended for use by those 14 years of age and older.



SOLAR WARNING: Never look directly at the Sun with the naked eye or with a telescope unless you have the proper solar filter. Permanent and irreversible eye damage may result.

This product contains a button battery. If swallowed, it may cause severe injury or death in just two hours. Seek medical attention immediately.



WARNING: KEEP BATTERIES OUT OF REACH OF CHILDREN.
Examine the device and make sure the battery compartment is correctly secured, e.g. that the screw or other mechanical fastener is tightened.

- Do not use if compartment is not secure.
- Dispose of used button batteries immediately and safely. Flat batteries can still be dangerous.
- Tell others about the risk associated with button batteries and how to keep their children safe.

NEED ASSISTANCE?

Contact Celestron Technical Support
celestron.com/pages/technical-support

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