

# NexStar 80SLT



Item #22086



## Quick Set-up Guide



1  
Your NexStar 80SLT includes: optical tube; fork arm; pre-assembled tripod; computerized hand control; hand control holder; star diagonal; two eyepieces; finderscope; accessory tray; documentation including an owner's manual, The Sky® CD and NSOL Telescope Control Software.



2  
Assemble tripod by spreading the legs out until the center leg brace is fully extended.



3  
Extend tripod legs 6 to 8 inches by loosening the tripod leg locking knob and pulling the leg to desired length and re-tightening knob.



4  
All three legs should be the same length to provide a level platform for the telescope. A bubble level is included (inset) to assist in leveling.



5  
Place accessory tray on top of center leg brace by lining up the grooves on the tray to the post on the brace.



6  
Once grooves are aligned, turn accessory tray until it snaps into the clips on each leg brace.



7  
Hold the telescope fork arm and place the bottom of the base inside the tripod mounting platform as shown.



8  
Thread the coupling screw into the hole at the bottom of the fork arm base. Tighten screw to secure the fork arm.



9  
Slide the optical tube dovetail into the fork arm as shown above.

## Quick Set-up Guide [cont]



Secure optical tube to fork arm by tightening the screw located on the inside of the fork arm assembly.



To attach the finderscope, loosen the silver screw and slide finderscope into mounting platform.



Secure finderscope to mounting platform by tightening the silver screw. The glass window of the finderscope should be facing towards the front of the telescope.



Insert the chrome barrel of the star diagonal into the focuser and tighten the two silver screws to secure in place.



Select the low power (25mm) eyepiece and insert it as shown above. Tighten silver screw to secure.



Attach plastic hand control holder to the tripod leg.



Slide Computerized Hand Control into the hand control holder as shown above.



Plug Computerized Hand Control into the "Hand Control" port on the fork arm.



Before you begin viewing, please remember to remove tube lens cap.



While observing, tube should be positioned as shown above.



Before you can use your telescope, you must insert 8 AA batteries.



Place AA batteries inside the battery compartment located at the base of the fork arm.

**Before you can begin observing, you must setup your hand control, align your finderscope and align your telescope. Step by step instructions are included in the following Hand Control Setup section.**



Before you can begin using your NexStar 80SLT, you must setup your computerized hand control and go through the SkyAlign alignment procedure. In order for the NexStar to accurately point to the objects in the sky, it must first be aligned with known positions (stars) in the sky. With this information, the telescope can create a model of the sky, which it uses to locate any object in its database



Turn power switch (located on the side of the fork arm) to "on" position. The light will come on and the hand control will display "NexStar SLT".



You will notice that there are directional arrows in the center of the hand control. These **only** move the telescope. These **cannot be used to scroll through menu features**.



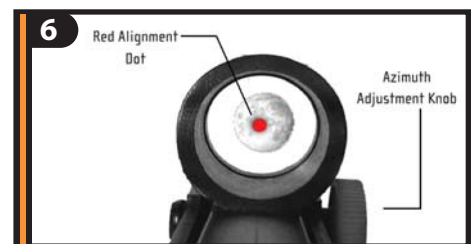
Now you will need to align the finderscope. Turn on the red LED light by turning the knob shown above. When used for the first time, remove the clear plastic disk that is located between the battery clip and the battery. See inset.



Use the hand control direction arrow buttons to point telescope at a distant land object, like a telephone pole or at night you can use the moon. Center and focus the object in the 25mm eyepiece of the telescope.



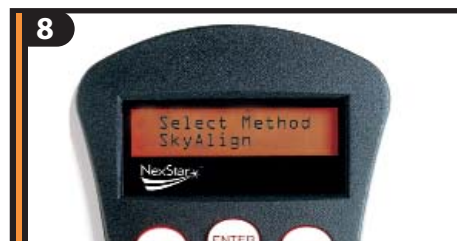
In order to accurately center an object in the eyepiece it may be necessary to change the slew speed of the motors. To change the slew speed, press the RATE button then select a number from 1 (slowest) to 9 (fastest).



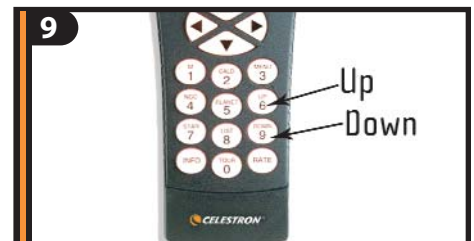
With the object centered in the eyepiece, use the azimuth (right/left) and altitude (up/down) adjustment knobs on the finderscope to place the red alignment dot directly over the centered object.



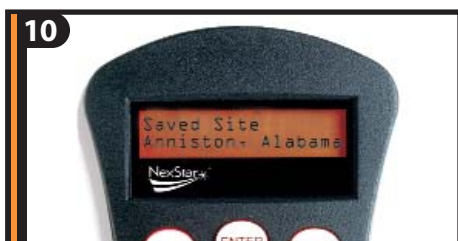
Once you have aligned your finderscope, make sure to turn off the LED light to conserve the battery. Now you are ready to align the telescope. This will have to be done at night.



When the display reads NexStar SLT, press ENTER to begin the alignment procedure.



Use the UP and DOWN scroll buttons (located on #6 and #9) to select "SkyAlign" then press ENTER. Now you will need to enter your site/time information.



The hand control will display the last entered time and site information. Since this is your first time using the NexStar, press UNDO to enter your site and time information.



Press ENTER to select City Database. Use the Up and Down scroll buttons (located on #6 and #9) and choose the closest city to your present location. Press ENTER after selecting the country, state and city.



Using the numeric key pad enter your time information. Press ENTER to continue. Press UNDO to backspace.

## Hand Control Guide [cont]



Now, using the Up and Down scroll buttons (located on #6 and #9), verify the time zone you are in and press ENTER.



Using the numeric key pad enter the date. Press ENTER to continue. Press UNDO to backspace.



Use the directional arrow keys on the hand control to slew (move) the telescope towards any bright celestial object in the sky. Center the object in the finderscope and press ENTER.



If the finderscope has been properly aligned, the alignment star should now be visible in the field of view of the eyepiece.



The hand control will prompt you to center the bright alignment star in the center of the eyepiece. Once centered, press ALIGN. This will accept the star as your first alignment position.



For the second alignment object, choose a bright star or planet as far from the first alignment object as possible. Once again use the directional arrow buttons to center the object in the finderscope and press ENTER. Once object is centered in the eyepiece, press ALIGN.



Repeat the process for the third alignment star. When the telescope has been aligned to the final star, the display will read "Match Confirmed". Press UNDO to display the names of the three bright objects you aligned to, or press ENTER to accept these three objects for alignment.



Now that your telescope is properly aligned, you are ready to find your first object. Press the TOUR button on the hand control. The hand control will display a list of objects that are visible for the date and location entered.



Press INFO to read information about the object displayed. Press the DOWN scroll key to display the next object. Press ENTER to slew (move) to the displayed object.

**For general usage information, please consult your user's manual.**

**If you have questions or problems with set-up, please contact  
Celestron Technical Support: 310.803.5955**

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