1. Your NexStar 102GT includes optical tube, pre-assembled tripod, Computerized Hand Control, computerized hand control holder, erect image diagonal, eyepiece kit, StarPointer finderscope, accessory tray, battery pack, documentation, including an owner’s manual, and TheSkyX® CD.

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 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.

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

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

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

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

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

15. Attach plastic hand control holder to the tripod leg.

16. Slide Computerized Hand Control into the holder as shown above.

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

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

19. While observing, tube should be positioned as shown above.

20. Before use, put 8 AA batteries (not included) in the battery pack. Attach the battery pack to the tripod by hanging the strap from the tripod leg locking knob.

21. To turn on telescope, plug the battery pack into the outlet on the base of the fork arm – there is no on/off switch.

Before you can begin observing, you must set up your Computerized Hand Control, align your StarPointer finderscope and align your telescope. Step by step instructions are included in the following Computerized Hand Control Guide.
Before you can begin using your NexStar 102GT, you must set up 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 align 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.

1. The power to the mount is on whenever the battery pack is plugged into the power outlet. The light will be on and the Computerized Hand Control will display “NexStar GT”.

2. You will notice that there are directional arrows in the center of the Computerized Hand Control. These only move the telescope. They cannot be used to scroll through menu features.

3. Now you will need to align the StarPointer 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.

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

5. 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).

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

7. Once you have aligned your StarPointer 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.

8. When the display reads NexStar GT, press ENTER to begin the alignment procedure as prompted.

9. 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.

10. The Computerized 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 time and site information.

11. 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.

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

13. The power to the mount is on whenever the battery pack is plugged into the power outlet. The light will be on and the Computerized Hand Control will display “NexStar GT”.

14. You will notice that there are directional arrows in the center of the Computerized Hand Control. These only move the telescope. They cannot be used to scroll through menu features.

15. Now you will need to align the StarPointer 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.

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

17. 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).

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

19. Once you have aligned your StarPointer 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.

20. When the display reads NexStar GT, press ENTER to begin the alignment procedure as prompted.

21. 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.

22. The Computerized 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 time and site information.

23. You will notice that there are directional arrows in the center of the Computerized Hand Control. These only move the telescope. They cannot be used to scroll through menu features.

24. Now you will need to align the StarPointer 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.

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

26. 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).

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

28. Once you have aligned your StarPointer 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.

29. When the display reads NexStar GT, press ENTER to begin the alignment procedure as prompted.

30. 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.

31. The Computerized 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 time and site information.

32. You will notice that there are directional arrows in the center of the Computerized Hand Control. These only move the telescope. They cannot be used to scroll through menu features.

33. Now you will need to align the StarPointer 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.

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

35. 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).

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

37. Once you have aligned your StarPointer 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.

38. When the display reads NexStar GT, press ENTER to begin the alignment procedure as prompted.

39. 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.
16. If the StarPointer finderscope has been properly aligned, the alignment star should now be visible in the field of view of the eyepiece.

17. The Computerized 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.

18. 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 StarPointer finderscope and press ENTER. Once object is centered in the eyepiece, press ALIGN.

19. 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.

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

21. 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 setup, please contact Celestron Technical Support: 310.803.5955

www.CELESTRON.com