

ADDENDUM TO DIGITALSKY VOICE MANUAL

Additional Mount Setup Instructions

Celestron NexStar

1. Set up the NexStar per the instructions for basic operations in the manual included with the telescope.
2. Put the NexStar hand controller in RS232 mode.
3. Connect one end of the serial cable (instructions to make the cable is included in the manual) into the port provided on the mount and the other end into an unused serial port of your computer.
4. Set up your computer and insert your microphone into the microphone input (if you have a desktop computer, the sound card is often located in the back of the computer). Turn the computer on and bring up DigitalSky Voice.
5. Be sure that the correct serial port and mount type have been selected in DigitalSky.
 - a) Click on the Preferences button and choose Hardware Setup.
 - b) Select the correct COM port and use the drop down menu to select the mount.
 - c) Select Apply and Done to close out of the Preferences menu.
6. Be sure that the correct mount type is displayed in the box on the bottom of the DigitalSky screen and that the Emulation button is set to "off".
7. In the Command window in the top and middle of the computer screen, click Link to Telescope Mount.
 - a) Since you completed the proper alignment procedure using the NexStar keypad hand controller, the mount is already calibrated. DigitalSky will inform you that the link has been established and you are ready to use Objects Mode. The coordinates of the last star you used in your calibration sequence will display in the large window on the upper left of the screen.
8. Proceed to the section of the manual describing Objects Mode or you can go to any other mode you wish.
9. Special note: While the NexStar is slewing, do not give any other commands with DigitalSky or request Actual Position or Object Data, etc. If DigitalSky sends any signals (based on your commands or requests) to the NexStar while it is slewing, the NexStar will stop slewing and become confused. The NexStar cannot receive commands while it is slewing. Please wait until it has reached the target object.
10. The Celestron NexStar can use any of the functions and features of DigitalSky Voice™, except the following:
 - **Stop command** – The NexStar will NOT stop when you give any of the verbal command or click on the Stop button on the DigitalSky screen. The NexStar command language does not have support for this command.
 - **N-S-E-W Directional buttons on the screen display** – The command protocol of the NexStar does not include commands for directional movement.
 - **Center Mode** – This mode cannot be used since Celestron does not provide an external command for directional movement.
 - **Focus Mode** – This mode cannot be used since Celestron does not provide an external command for this movement.
 - **Changing the Slew, Track and Directional Button rates** – Use your Celestron NexStar hand controller to change these rates.
 - **Park Function** – The NexStar command language does not have a park function.

Celestron Ultima® 2000

1. Set up the Ultima® 2000 per the instructions in your Celestron manual included with your telescope.
2. Plug in the hand controller, turn on the power switch on the Ultima® 2000 and follow the alignment procedure in the Celestron manual.
3. Set the Cord Wrap Control feature to off in the hand controller.

4. Press the Menu button on your Ultima® 2000 hand controller to put it in Menu mode (the word Menu should appear at the top of the display screen).
5. Plug in the computer interface cable- attach the telephone connector into the top of the hand controller and the 9-pin connector into an available serial port on your computer.
6. Set up your computer and insert your microphone into the microphone input (if you have a desktop computer, the sound card is often located in the back of the computer). Turn the computer on and bring up DigitalSky Voice.
7. Be sure that the correct serial port and mount type have been selected in DigitalSky.
 - a) Click on the Preferences button and choose Hardware Setup.
 - b) Select the correct COM port and use the drop down menu to select the mount.
 - c) Select Apply and Done to close out of the Preferences menu.
8. Be sure that the correct mount type is displayed in the box on the bottom of the DigitalSky screen and that the Emulation button is set to "off".
9. In the Command window in the top and middle of the computer screen, click Link to Telescope Mount.
 - a) Since you completed the proper alignment procedure using the Celestron keypad hand controller, the mount is already calibrated. DigitalSky will inform you that the link has been established and you are ready to use Objects Mode. The coordinates of the last star you used in your calibration sequence will display in the large window on the upper left of the screen.
10. Proceed to the section describing Objects Mode or you can go to any other mode you wish.
11. The Celestron Ultima® 2000 can use any of the functions and features of DigitalSky Voice™, except the following:
 - **N-S-E-W Directional buttons on the screen display** – The command protocol of the Ultima® 2000 does not include commands for directional movement.
 - **Center Mode** – This mode cannot be used since there are no commands for directional movement.
 - **Focus Mode** – This mode cannot be used since there is no command protocol for this movement.
 - **Changing the Slew, Track and Directional Button rates** – Use your Celestron Ultima® hand controller to change these rates.
 - **Park Function** – The Ultima 2000® command language does not have a park function.

Quadrant I System

1. Set up the Quadrant I System drive per the instructions for basic operations in the manual included with the Quadrant Systems.
2. Connect one end of the serial cable into the port provided on the Quadrant Systems drive and the other end into an unused serial port of your computer.
3. Set up your computer and insert your microphone into the microphone input (if you have a desktop computer, the sound card is often located in the back of the computer). Turn the computer on and bring up DigitalSky Voice.
4. Be sure that the correct serial port and mount type have been selected in DigitalSky.
5. Click on the Preferences button and choose Hardware Setup.
6. Select the correct COM port and use the drop down menu to select the mount.
7. Select Apply and Done to close out of the Preferences menu.
8. Be sure that the correct mount type is displayed in the box on the bottom of the DigitalSky screen and that the Emulation button is set to "off".
9. In the Command window in the top and middle of the computer screen, click Link to Telescope Mount.
10. If you have completed the alignment procedure using the Quadrant Systems, the mount is already calibrated. DigitalSky will inform you that the link has been established and you are ready to use Objects Mode. The coordinates of the last star you used in your calibration sequence will display in the large window on the upper left of the screen.
11. Proceed to the section of the manual describing Objects Mode or you can go to any other mode you wish.

12. The Quadrant I Systems drive can use any of the functions and features of DigitalSky Voice™, except the following:
- **N-S-E-W Directional buttons on the screen display** – The command protocol of the Quadrant System does not include commands for directional movement.
 - **Center Mode** – This mode cannot be used since Quadrant does not provide an external command for directional movement.
 - **Focus Mode** – This mode cannot be used since Quadrant does not provide an external command for this movement.
 - **Changing the Slew, Track and Directional Button rates** – Use your Quadrant hand controller to change these rates.
 - **Park Function** – The Quadrant command language does not have a park function.

Using DigitalSky Voice with an Apple Computer

Check the www.digitalskyvoice.com web site for complete details. This is a very exciting development and opens up the world of Mac users to DigitalSky Voice. We extend many thanks to Diego Meozzi of Italy for researching this for us and developing the web pages with all the details. His information and presentation are excellent!

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