



Meade Instruments

89 HANGAR WAY, WATSONVILLE, CA. 95076 U.S.A.
(949) 451-1450 ■ www.meade.com

Updating Starlock Firmware

You can use the Starlock Utility to update your Starlock firmware.

The following equipment is needed to update the starlock firmware.

- LX600 or LX850 Telescope with Autostar II handbox
- Starlock with connecting cable
- Meade #507 connecting cable
- Meade RS232/USB adapter (if needed)
- Computer with Starlock Utility program
- Updated Starlock firmware

Installation

From the Meade website, download the Starlock firmware update to the computer desktop. Both the Starlock Utility program and updated firmware are packaged in an install file with a filename of the form "StarLockUtilSetup_Vx.y.zip", where x and y are version and sub-version numbers. Once downloaded, unzip the file and double-click on the StarLockUtil.exe file to run the Utility program.

Connection

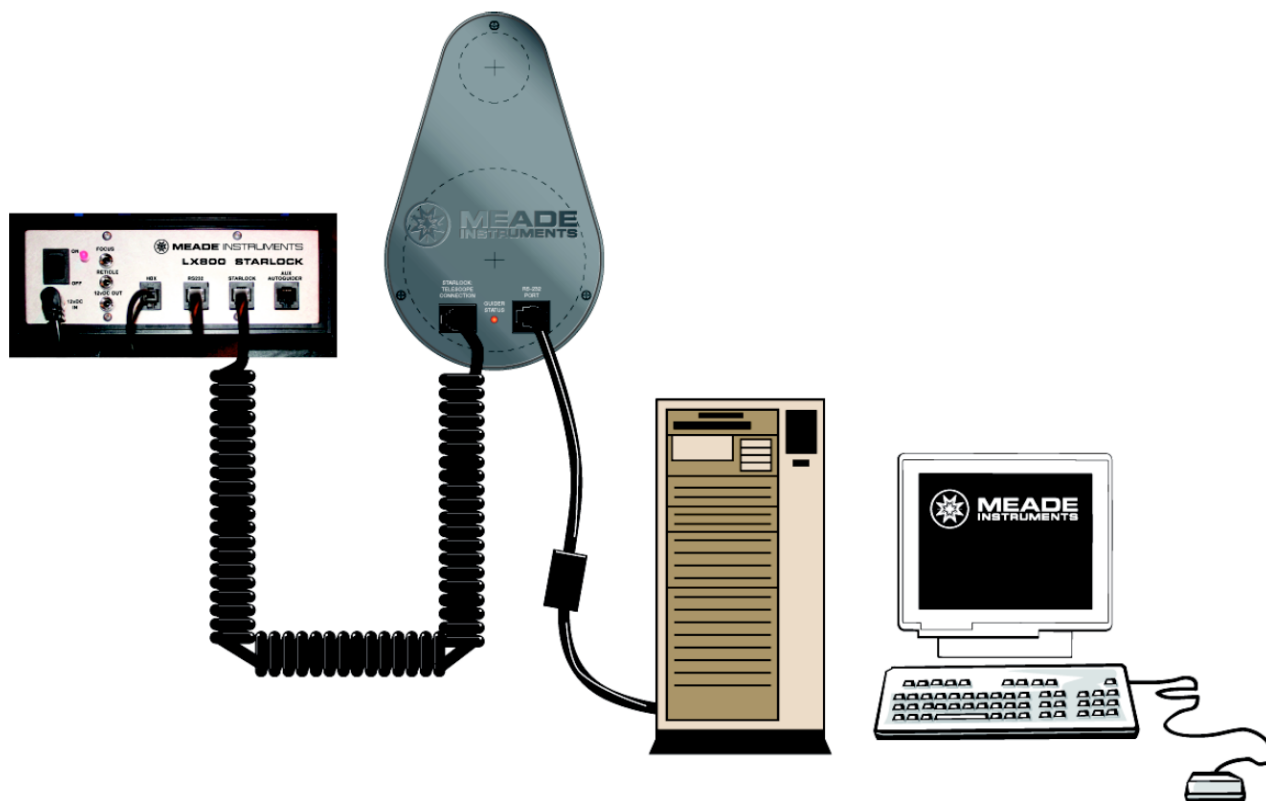
In order to update the Starlock firmware, it needs to be connected to the telescope control panel using the Starlock connecting cable. Plug the cables 4-pin connector into the back end of Starlock labeled "Starlock Telescope Connector" and 6-pin side into the "Starlock" port on the telescope control panel. Next, connect the Meade #507 cable into the back end of the Starlock labeled "RS-232 Port" and other end into the Serial adapter. The serial adapter should then be connected to the computers serial port. Note: If your computer is not equipped with a serial port, Meade's RS-232/USB adapter is required to connect via the computers USB port.



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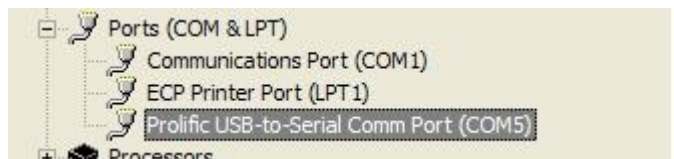
Cable Connections



Running the Software

With the Starlock connected to the computer, power on the telescope control panel and wait for it to finish startup. Open the Starlock Utility program by double-clicking on the StarLockUtil.exe file. Enter the correct "Comm Port" number for Starlock into the Utility Program dialog box.

The "Comm Port" number of the Starlock can be found by opening the computer device manager and double clicking on "Ports (COM & LPT) ". If using the Meade USB/Serial Adapter, the expanded list will show a device called "Prolific USB-to-Serial Comm Port" followed by the COM number in parenthesis. Enter this COM port number into the Starlock Utility. If you have changed serial ports, click on the "Reset Connection" button in the utility program.





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Updating

In the Utility program, connect to the starlock by pressing the "Focus" button and wait for an image to download. This will take less than one minute. When an image downloads, click the button again (now labeled "Stop") to stop the image and then click the "Update" button. A dialog box will appear. Select the new firmware *.ldr and click "Open". The status bar at the bottom of the screen will show you the firmware being downloaded. This will take several minutes to download and install. After the firmware has been successfully downloaded and verified, it will be installed into the Starlock.

DO NOT POWER OFF THE COMPUTER OR TELESCOPE DURING THIS PROCESS.

Once the new firmware has been successfully installed, a message indicating the firmware has been updated will be posted in the bottom of the display. Close the Starlock Utility program and cycle the telescope power off, then on again to complete the update.

STARLOCK UTILITY PROGRAM

