Opticstar 505U Connectivity and Firmware Upgrade Kit for Meade Telescopes with Autostar #497 & Audiostar Handsets

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Requirements

- 1. A PC running Microsoft Windows XP or later.
- 2. Meade ASU Autostar Suite software.
- 3. Opticstar Firmware Update Autostar #497 & Audiostar Kit.
- 4. A Meade telescope with Autostar #497 or Audiostar handset including ETX70-125, DS-200, LX90, LX65, LX85 etc.

Setup

Connect the cables in the supplied kit as shown in the image on the right. Then, connect the Serial to USB adapter to a USB port on your PC. Wait for Windows to automatically identify the Serial to USB adapter before you proceed. If automatic installation fails on earlier versions of Windows (i.e. XP), follow the instructions on the back of this sheet to install the drivers.

Finally, connect the 4-PIN plug to the handset as shown on the right.



You are now ready to update the telescope's firmware or to control your telescope via a PC and according to the instructions that came with the software you are using.

Serial to USB Setup & Connectivity



To find to which COM port the Serial to USB adapter is connected to, go to the Windows Device Manager and look at the entries in the list.

In this example the CH340 entry is under **Ports (COM & LPT)** and the unit is connected to COM14.

If the driver has a 'yellow' exclamation mark over it, you would probably need to install the drivers manually as outlined in the next page.

Firmware Installation

To install the firmware, you will need to download and install the Meade ASU Autostar Suite software from the link below.

https://www.meade.com/support/downloads/firmware/



Installing the USB to Serial Adapter Drivers for earlier versions of Microsoft Windows

To install the USB to Serial adapter drivers on earlier versions of Windows including Windows XP.

- 1. Remove the USB to Serial adapter an reset your PC
- 2. Do not plug the USB to Serial adapter to your PC until you are prompted
- 3. Double click on the *HL-340.EXE* file inside the CH240 folder on the accompanying CD to install the USB to Serial adapter software
- 4. When the **Setup V1.40** window comes up, click the [**INSTALL**] button and wait for a few seconds for the files to copy over and for the **DriverSetup** window to come up
- 5. When the **DriverSetup** window comes up, insert the USB to Serial adapter to a COM port of your choice on your PC. Windows will take a few seconds to identify the device
- 6. Click on the [OK] button to close the DriverSetup window
- 7. When the Found New Hardware Wizard window opens, select the No, not this time option.
- 8. Click on the [Next >] button to continue
- 9. When the Found New Hardware Wizard asks from where to install the drivers select, Install the software automatically (Recommended).
- 10. Click on the [Next >] button to continue
- 11. When the **Hardware Installation** window comes up, click on the **[Continue Anyway]** button to install the drivers
- 12. Once the drivers have been installed, press [Finish] on the Found New Hardware Wizard window to finish installing the drivers
- 13. Finally, close the Setup V1.40 window

Uninstalling the USB to Serial Adapter Drivers

To uninstall the USB to Serial adapter drivers :

- 1. Make certain that the USB to Serial adapter is plugged into your PC
- 2. Double click on the HL-340.EXE file on the accompanying CD
- 3. When the Setup V1.40 window comes up, click the [Uninstall] button
- 4. When the DriverSetup window appears, click on the [OK] button.
- 5. Remove the USB to Serial adapter from your PC
- 6. Reset your PC