EXPL⊕RE
SCIENTIFIC®

EXOS2GT Cable 2.3 & Adapters

This adapter cable set works in combination with the new Bresser Driver for ASCOM and the new EXOSII GOTO EQ V2.3hex software version to allow users to update the handbox firmware for Explore Scientific's EXOS-2 GOTO Equatorial Mount and operate the mount using Windows navigation software via ASCOM.

Operating Instructions:

1. To update the firmware on the mount's handbox, go to **explorescientific.com/exoszip** and download the BRESSER GOTO SYSTEM EXOS EQ v2.3.hex software along with the Philips LPC2000 Flash Utility V2.2.3.

2. Install "Philips Flash Utility Installation.exe" to your computer

3. Once it is installed, setup all parameters as follows:

Filename: C:/BRESSER GOTO SYSTEM EXOS EQ v2.3.hex

Device: LPC2148

XTAL Freq (kHz): 14745

Communication Connected To Port: COMxx
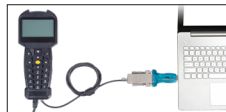
Communication Use Baud Rate: 57600

Communication Time-Out (sec): 2

Erase/Blank: Entire Device

Erase/Blank Start Sector: 0

Erase/Blank End Sector: 14

4. Connect your handbox to your laptop using the appropriate ports.

5. Once connected, power on the mount. *NOTE: The screen on the handbox will be blank after performing this step.*

6. On the LCP2000 dialog box, go to the BRESSER GOTO SYSTEM EXOS EQ v2.3.hex file and select "Read Device ID"

7. After the ID has been confirmed, select the "Upload to Flash" option and wait for the software loading process to be completed.

8. After loading is complete, turn off the mount, and disconnect the EXOS2GT Cable 2.3 from the handbox.

9. Before Installing the BRESSER GOTO ASCOM Driver Setup V1.0.2.exe software onto your Windows computer, completely remove any previous Bresser ASCOM driver. To do this, locate the previous driver, right click on it and delete.

10. *NOTE: Prior to doing this step, make sure you have installed the ASCOM Platform software available at* **www.ascom-standards.org/.** Download the Bresser driver setup onto your computer from **explorescientific.com/exoszip/.**

11. Once the download is complete, extract the file, open and follow the Bresser GOTO ASCOM Telescope Driver Installation Wizard.

12. After Installing the Bresser ASCOM driver, select the Bresser driver as your telescope choice.

13. Turn on your EXOSII mount and make sure your handbox firmware version is 2.3 or above.

14. Set up the date and time, daylight savings information and location. After the system initialization is complete, connect the EXOS2GT cable set via the appropriate ports to both the handbox and your Windows 10 computer.

15. Open the ASCOM telescope/dome hub (POTH), choose setup and select Bresser GOTO ASCOM driver.

16. Connect. Input the latitude and longitude of your location and your set time will sink with handbox. You can now start navigating and tracking objects in the night sky.

NOTE: If using other astronomy programs like Cartes du Ciel without the POTH, go to telescope then telescope settings and choose ASCOM. Choose Telescope again and connect Telescope. Select ASCOM Telescope Chooser and locate Bresser GOTO ASCOM Driver and press ok. Configure your communications port and press OK. If you want to use more than one ASCOM Client Astronomy Program with your mount, then you must use the POTH to service those clients. Just connect each client to the POTH in the Telescope Chooser.