

ATTENTION:

This procedure is for remote boot-loading the ROTARION operating system called **ROTARION firmware Update** (this is not your Rotarion Remote Control PC software).

You **ONLY** do this procedure if:

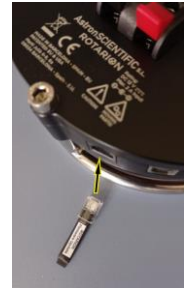
- A factory update notification has been sent to you.
- There has been an incident on you ROTARION that has erased/corrupted the internal operating system (firmware) and your Rotarion is not working properly.
- You need a special ROTARION feature tailor-made for you, and AstronSCIENTIFIC has supplied a custom firmware to you (examples: extra power for very heavy asymmetrical camera/instrument loads, additional accuracy on optical axis, special off-axis port alignments, etc..).

ROTARION Firmware Update preparation:

- 1) You need to download **Rotarion Firmware Update** program.
 - a) Original factory firmware version: browse the supplied **ROTARION USB** stick/pen-drive.
 - b) Latest firmware version: click on AstronSCIENTIFIC website >> Tech Info>> Section #3.2.2.
- 2) You also need to download the firmware hex file **Rotarion Firmware_xxx.hex**.
 - a) Default hex file supplied in **ROTARION USB** stick/pen-drive.
 - b) Latest hex file: click on link AstronSCIENTIFIC website >> Tech Info>> Section #3.2.3.
- 3) Install the **Rotarion Firmware Update** program.
 - a) It is usually installed in PROGRAMS -> ROTARION REMOTE CONTROL -> FIRMWARE UPDATE

ROTARION Firmware Update procedure:

- 1- Plug the **Rotarion Firmware Update small jumper wire** into the Rotarion's serial port slot.
- 2- Connect the Rotarion via USB cable to the PC.
The orange LED should light up.



- 3- Start **Rotarion Firmware Update** program.
- 4- Press **Open Hex File**. Browse the file explorer to find the file **Rotarion_Firmware_vxx.hex**
- 5- Once loaded, the programming key is enabled.
- 6- Press **Program/Verify**.
A Warning screen appears to remind you that the Rotarion firmware will be erased before programming the new one. Accept.
- 7- Press **Program/Verify** again.
The process of erasing and programming the new firmware starts.
- 8- Close the program. Disconnect the USB cable.
Disconnect the **Firm-Update Jumper** and save it for future updates.
- 9- Now you can connect the Rotarion with the new firmware.

