

Programmer Instructions

Step 1) Download the Triton Interface software from ATS [website](#) if you haven't already. Make sure the receiver has power check manual for specifics on how to power a device. **These programming instructions are only for unit models SR3001 and SR3017.**

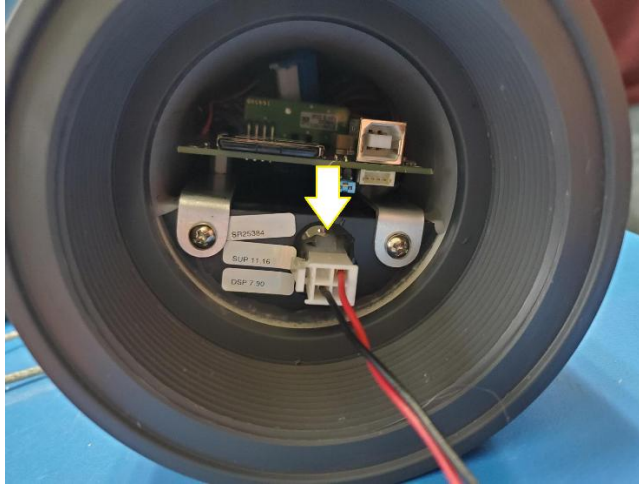


Figure 1 SR3001 Power Cable

Step 2) Setup receiver connections. Two connections to the receiver are needed for firmware updating. See appendix A for images of the cables. Connection setup for the receiver is below. Two USB-B to USB-A cables are needed, plus the *SiLabs USB debug adapter*, and ATS programming cable (PN 19241). The USB-A (rectangle) side of the USB cables should connect to the computer.

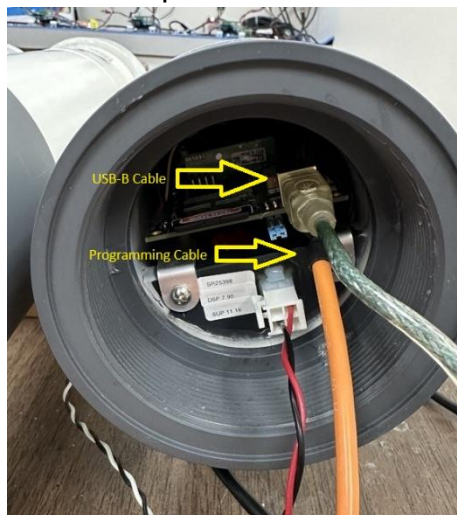


Figure 2 SR3001 Cable Setup

Step 3) Once the receiver is setup and connected to the receiver. Launch the Triton Interface software and connect to the receiver (the USB connection status is in the bottom right corner of the software window). After the receiver is connected, to flash the receiver with a firmware, look for the flash firmware button in the configuration section of the Triton Interface software (Figure 3). D

To explore firmware options and details use the “Download Firmwares” button.

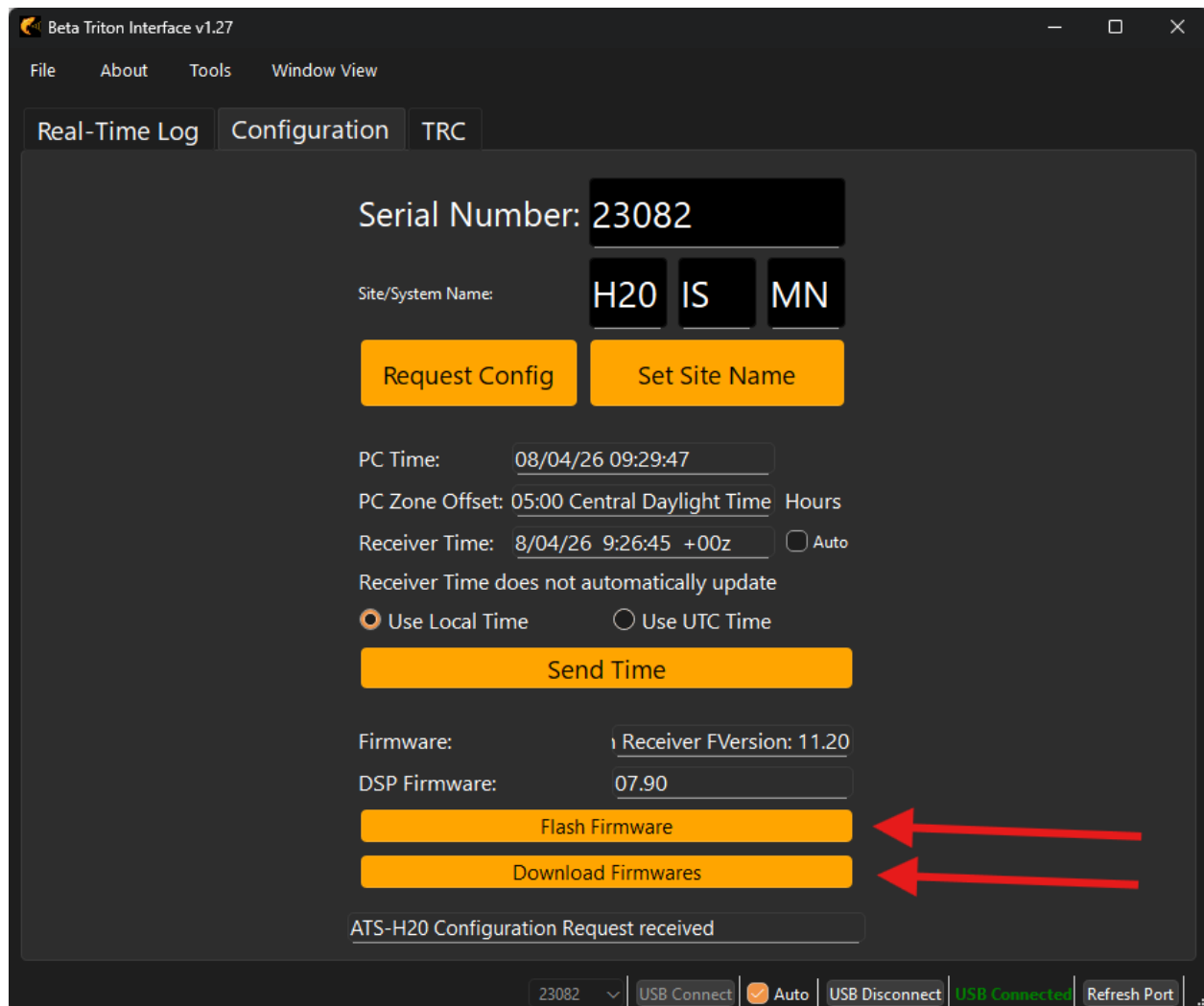
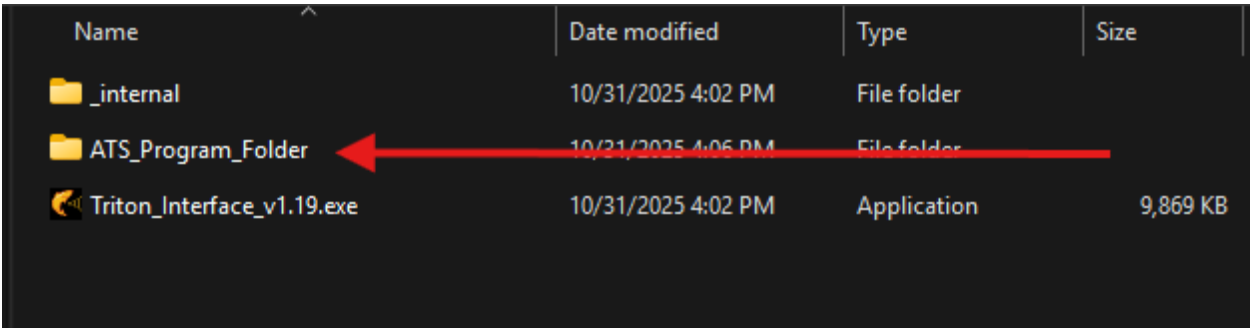


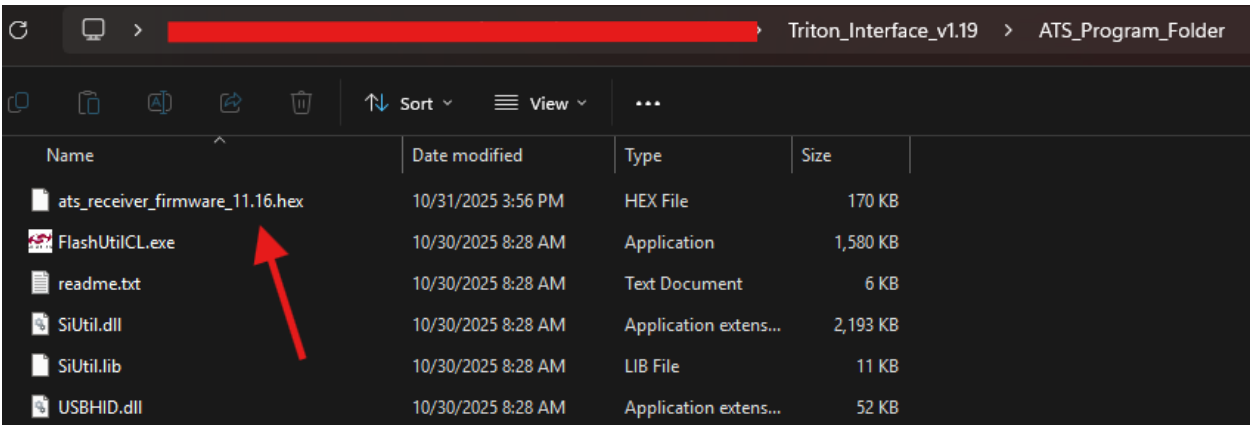
Figure 3 Configuration Tab

NOTE) To use the program/flash feature, the folder `ATS_Program_Folder` must be present and in the same directory as the software application. Additionally, the hex file that is to be used must be in the `ATS_Program_Folder` (Figure 2).



Name	Date modified	Type	Size
_internal	10/31/2025 4:02 PM	File folder	
ATS_Program_Folder	10/31/2025 4:06 PM	File folder	
Triton_Interface_v1.19.exe	10/31/2025 4:02 PM	Application	9,869 KB

Figure 4 Folder Structure



Name	Date modified	Type	Size
ats_receiver_firmware_11.16.hex	10/31/2025 3:56 PM	HEX File	170 KB
FlashUtilCL.exe	10/30/2025 8:28 AM	Application	1,580 KB
readme.txt	10/30/2025 8:28 AM	Text Document	6 KB
SiUtil.dll	10/30/2025 8:28 AM	Application extens...	2,193 KB
SiUtil.lib	10/30/2025 8:28 AM	LIB File	11 KB
USBHID.dll	10/30/2025 8:28 AM	Application extens...	52 KB

Figure 5 File location & name

Step 4) Verify the receiver is connected by looking at the USB connection in the bottom right corner of the software. The flashing process cannot be performed unless the software is connected via the USB-B cable and the programming cable is also attached (Figure 2). After verifying the connections hit the flash firmware button. A window will pop up to select a hex file (Figure 6)

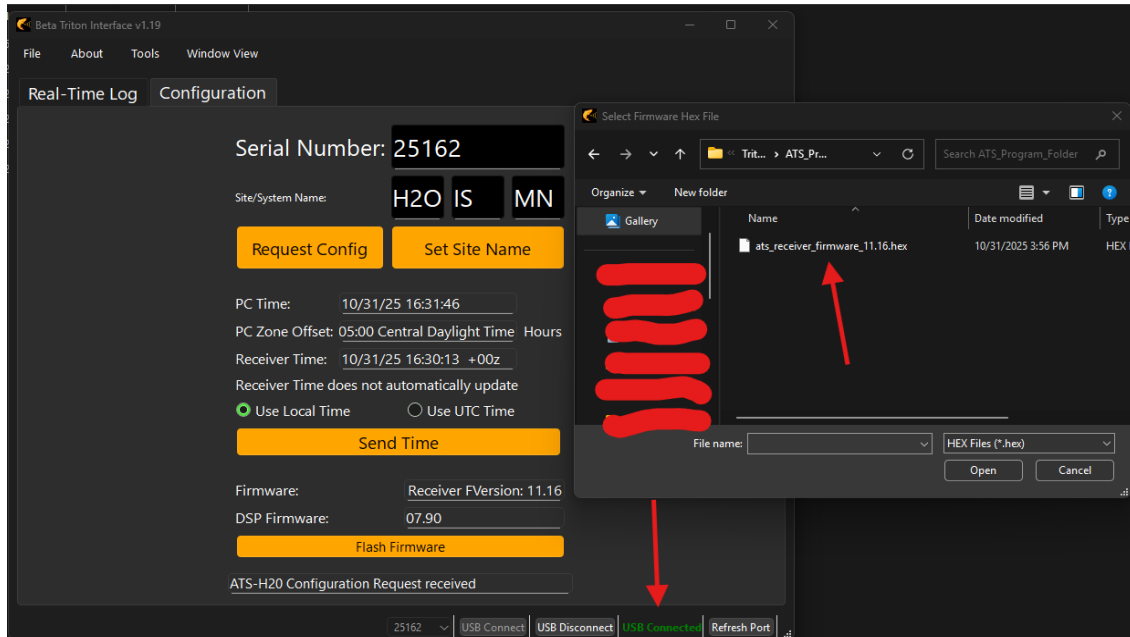


Figure 6 Choosing hex file

NOTE) After selecting the file the firmware flashing process should begin (Figure 7). Be patient with the firmware upload process. Hitting the cancel button during an upload process can put the receiver into an unknown state. Which then requires silicon labs IDE to flash the firmware.

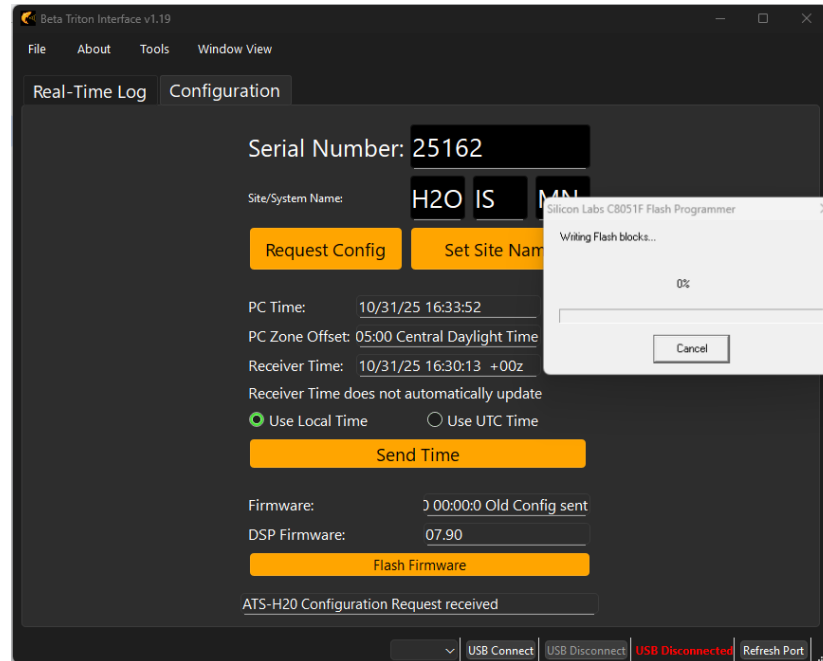


Figure 7 Firmware updating process

Step 5) After the firmware upload process finishes the Triton Interface will attempt to reconnect to the receiver (Figure 8) and maintain some settings (Figure 9) that are overwritten during the firmware upload process. These settings are the serial number, sitename, calibration constants, etc. This process can vary in time taken depending on the settings and what firmware version was on the receiver beforehand. **Make sure to wait ~15 seconds after the *Update Receiver Settings* popup.**

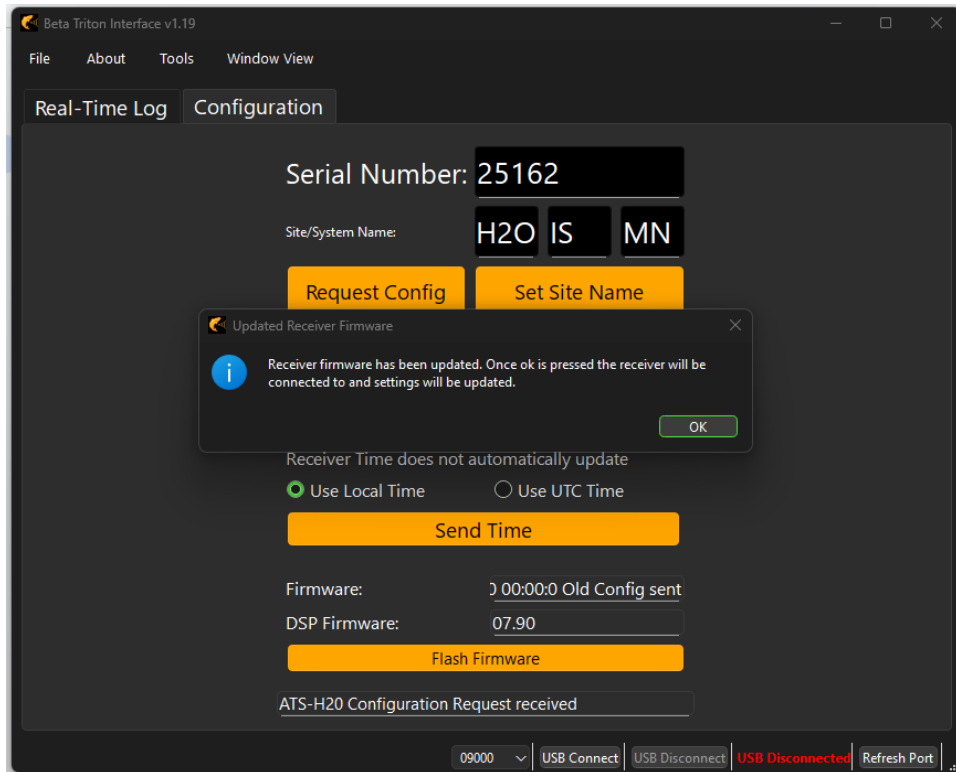


Figure 8 Receiver finished updating

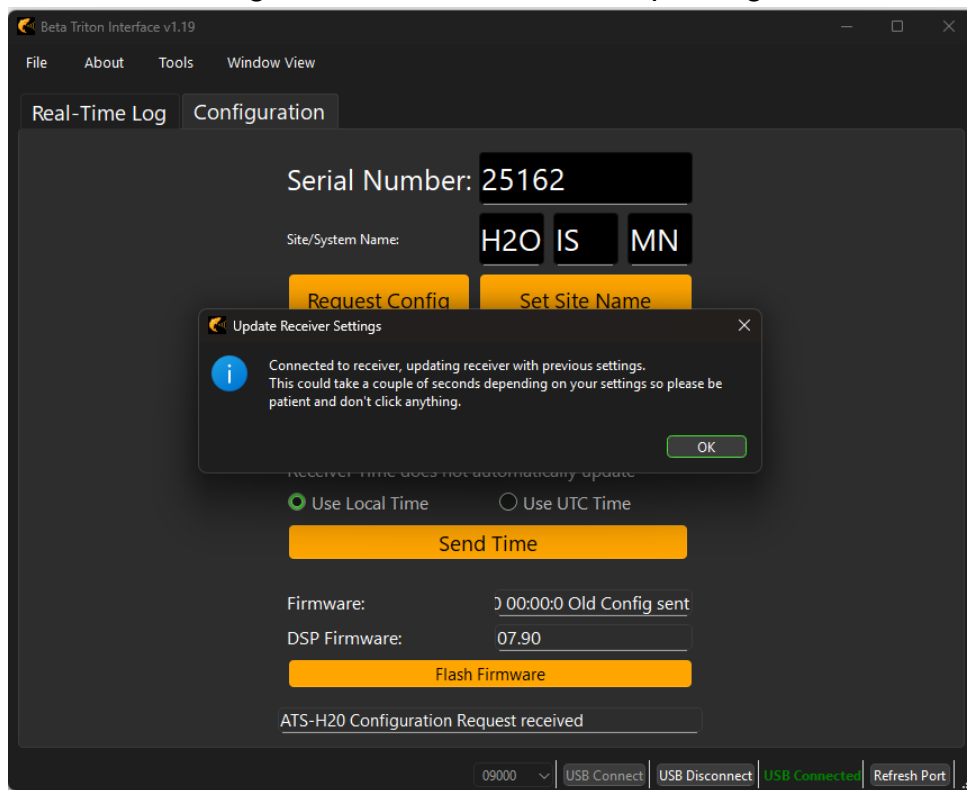


Figure 9 Software reconnected and is about to flash settings

Step 6) After clicking through the two pop-ups and waiting ~15 seconds. The receiver *should* have updated the receiver settings. To confirm this, delete the Site Name (click on boxes and use backspace key). Press send time to update the receiver's time. Then hit Request Config. Verify a similar output to Figure 11. If nothing gets populated, press the Request Config button again.

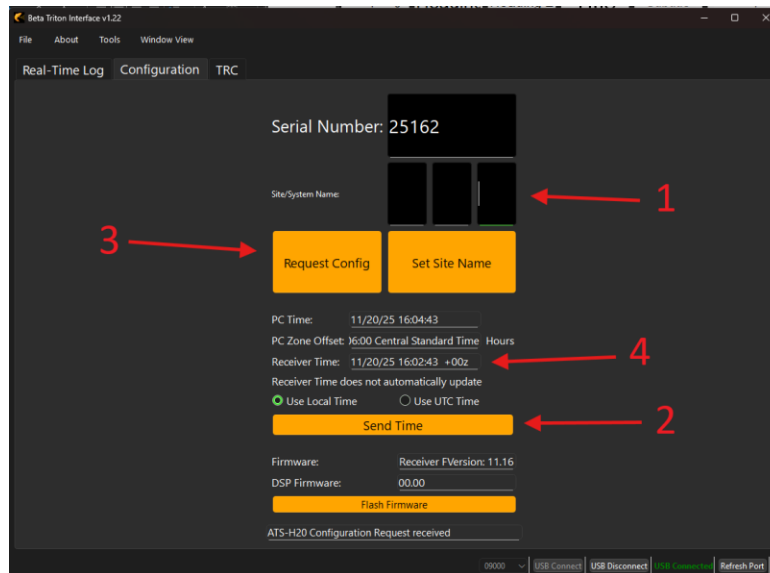


Figure 10 before Request Config is pressed

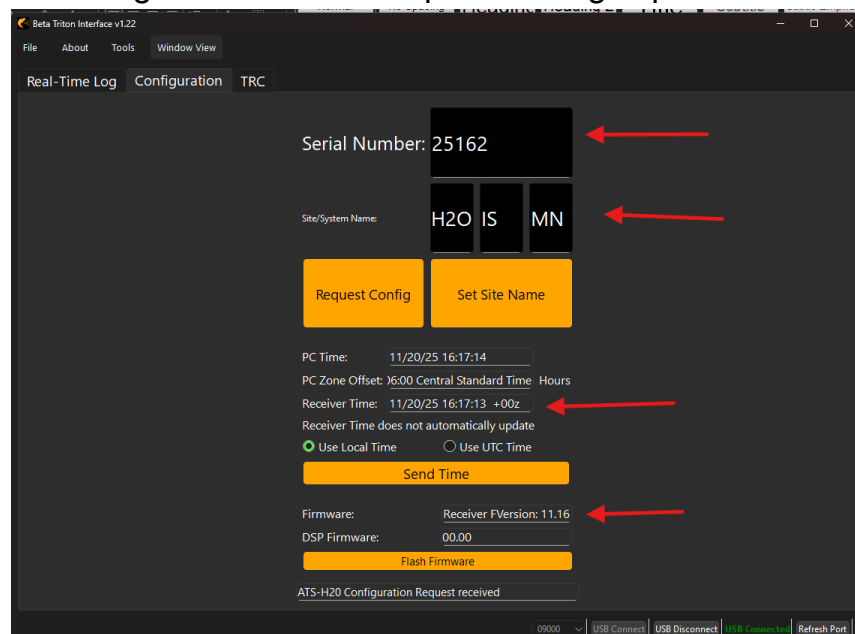


Figure 11 After Request Config has been pressed

NOTE) After the receiver has been firmware updated. The software may display the serial number 09000 for the USB connection. Additionally, the DSP firmware will be 00.00 as well. These things are both expected since the receiver firmware was updated. Power cycling the device will update these settings (to power cycle a device, just unplug the power connector and plug it back in).

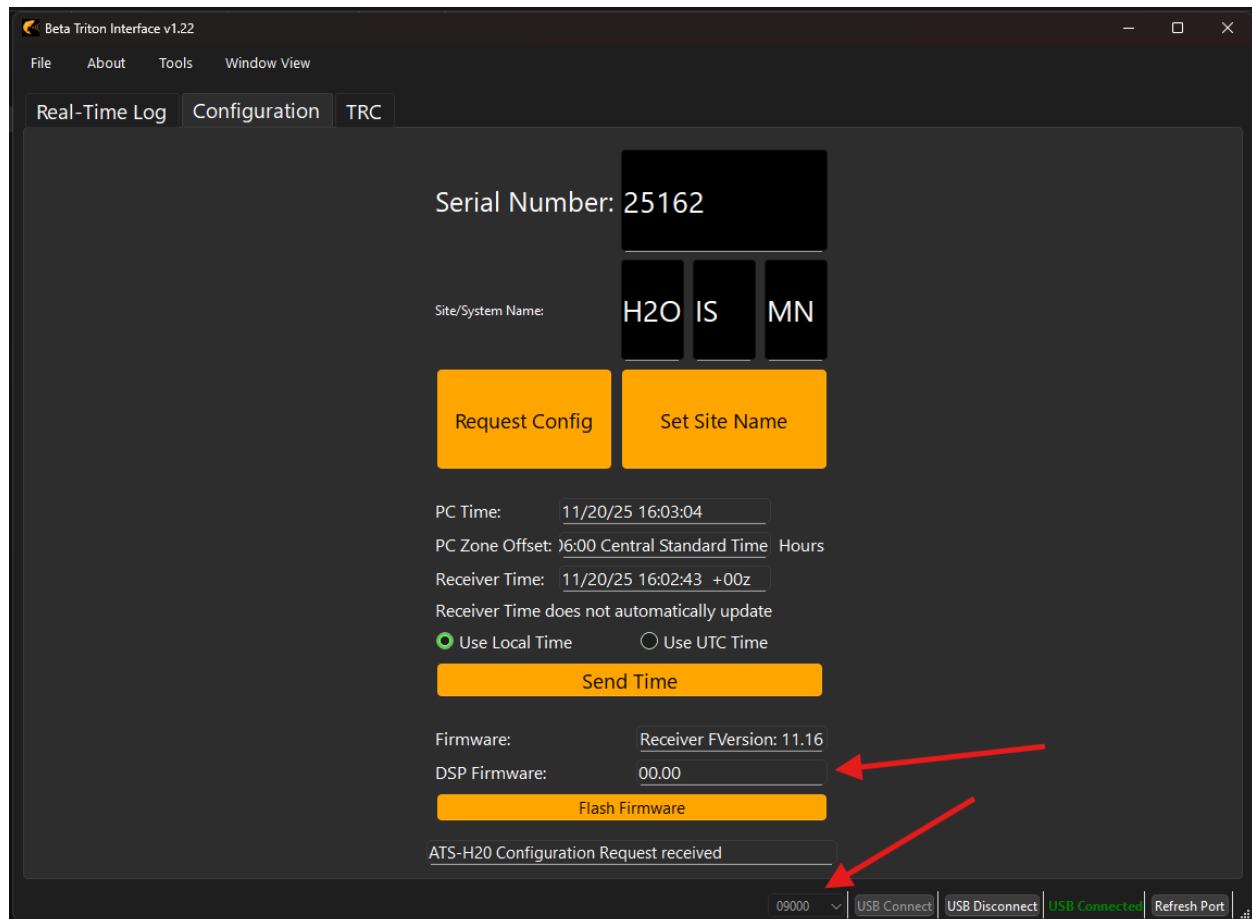


Figure 12 After firmware update before power cycling

Appendix A



Figure 13 USB Debug Adapter cable



Figure 14 USB-A – USB-B cable



Figure 15 (ATS) SR3001 & SR3017 programming cable PN 19241



Figure 16 Programming cable "system"