

# Upgrading Firmware in the SR86x Lock-In Amplifier Family

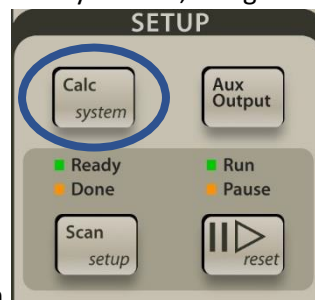
The SR86x series lock-in amplifiers are designed to permit the user to upgrade the system's firmware in the field if needed. The entire process should take under 10 minutes.

## Materials

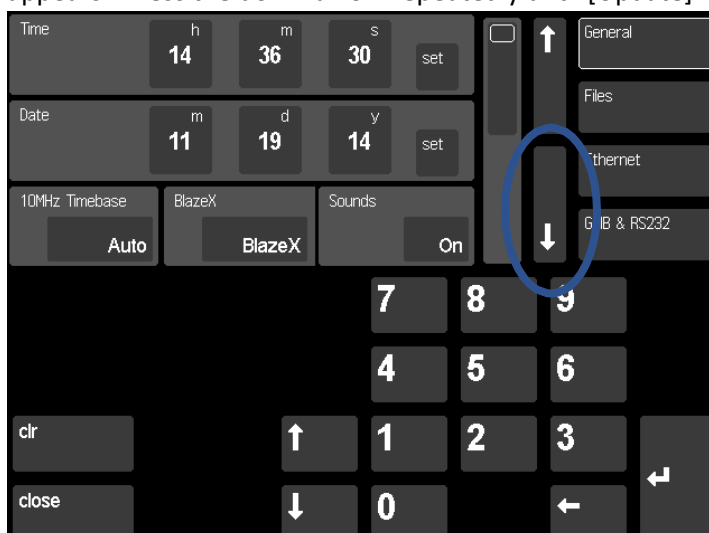
- A USB thumb drive
- Access to the internet

## Procedure

1. Using a web browser, download the file <https://thinksrs.com/downloads/programs/sr86x/v1.51/SR865IMG.BIN> (later versions will be at a similar address, with "1.51" replaced by the new version number)
2. Copy the file SR865IMG.BIN to the "top level" directory of your USB drive. Be sure to not change the name of the file.
3. Turn on your SR86x series lock-in, and once fully booted, navigate to the Update screen:

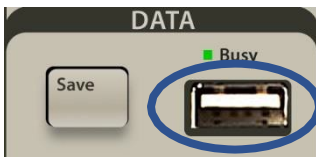


4. Press and hold the [Calc / system] button until the system menu appears. Press the down-arrow repeatedly until [Update] is selected.

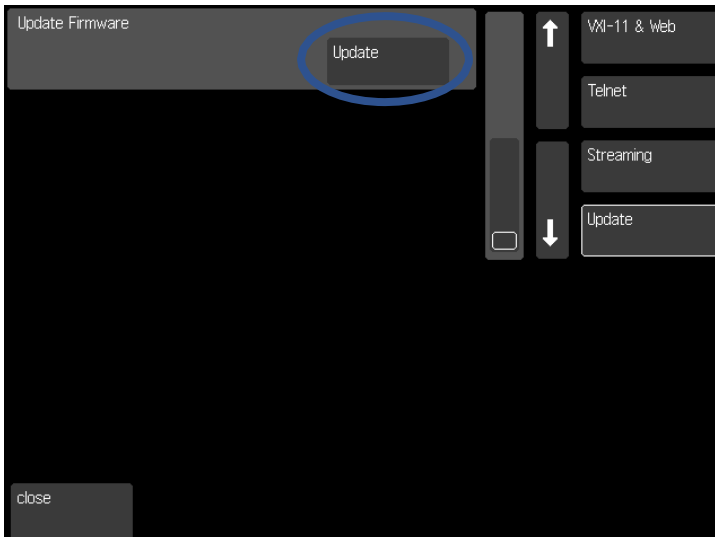




5. Insert the USB stick into the front panel slot, and wait for the Busy light to stop flashing.



6. Press the [Update] tile in the box labelled "Update Firmware":



7. When asked "Replace BASE Firmware With Version: v#.## ?", press [OK] to proceed, or [Cancel] to abort
8. A running dialog box will show the update status in several phases. The entire upgrade should take about 6.5 minutes.
9. A final dialog box will announce "New Settings Will Take Effect After a Power Cycle" with an [OK] tile. Press [OK] to dismiss the dialog.
10. Power cycle the instrument