

Ensemble II SDR SOFTWARE/HARDWARE STARTUP PROCEDURE

Initial Set-up:

1. Turn on your computer. (Don't start up any software other than the basic computer operating system)
2. Connect 12V line to SDR
3. Connect Ensemble II "Line In" to computer microphone input
4. Connect the USB cable between the computer and SDR and listen for the "beep" that indicates SDR and computer are communicating.
5. Connect antenna or signal source
6. Install and initialize CFSGR (needs to be done only once)

CFSGR (Softrock Configuration Tool):

1. Double click on the CFSGR icon (Softrock Configuration Tool) in the CFSGR folder
 - a. If the "OPEN" button appears, click on it. Verify that the correct info is loaded into the program. You should see "PE0FKO-0" for the "Serial Number" along with a message that says "USB AVR Si570 connected ...".
 - b. Click on the "CLOSE" button. **Do this whenever CFSGR is opened!** If you try to run HSDR and CFSGR at the same time, you may get an error message.
2. This procedure only needs to be done once to initialize CFSGR. You do not need to do it each time you turn on the SDR. After the initial set-up, HSDR starts CFSGR and runs it in the background. You can click on the "EXT IO" button to view the CFSGR application. Leave CFSGR running.

HSDR (Softrock Application Software):

1. Download and install HSDR
2. Double click on the "HSDR" icon and **click on "Start"**
3. Click on "Frequency Manager" and **double click on desired frequency band.**
 - a. To insure proper operation, do this each time after power cycling the SDR

Final Notes:

1. The sequence of activating hardware and software is important for proper operation of the receiver or transceiver. Be sure to follow the above items in the order given.
2. Sometimes (for reasons unknown), the SDR will seem to not be operating properly. The frequency display on HSDR does **not always** indicate the frequency that the LO in the SDR is actually tuned to. If the LO in the SDR has not been properly set to the desired frequency via the Freq Mgr list selection, it can appear that the receiver is not receiving any signals, when in fact it is simply tuned to a frequency (not the one on the HSDR display) where there are no signals.
 - a. Make sure to select the desired band from the Freq Mgr list each time the HSDR is re-booted and/or the SDR is power cycled.

- b. If selecting the band from the Freq Mgr list still does not work, try re-booting the SDR again. Make sure when you do, that HSDR is **NOT** running
3. If you open CFSGR and don't close when you are finished, you will get an error message when trying to open HSDR. **They can't both be open at the same time.**