

Preflight checklist (48 hours before):

- Plug Spectrum Analyzer in to recharge battery (full 24 hours)



Preflight checklist (24 hours before):

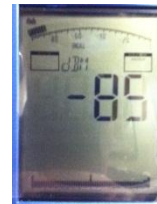
- Spectrum Analyzer
- BNC Cable
- BNC Adapter
- Manual
- CD program for Spectrum Analyzer
- USB cable
- Tighten tool
- Pre-amp (?)

Flight Checklist**Physical set up**

- Connect BNC adapter to Spectrum Analyzer
- Connect BNC cable to BNC adapter on Spectrum Analyzer
- Connect BNC cable to long Antenna (pre-amp?)
- Tape BNC connections

Set Frequency Range

- Power unit on (unit beeps and displays firmware info. Wait until graph is displayed)
- Press menu 
- Select Center and press enter 
- Scroll to frequency units and press enter _____
- Enter frequency on keypad and press enter _____
- Select Span and press enter
- Select frequency units for span and press enter _____
- Enter frequency span on keypad and press enter _____

**Set Sample Time Length**

- Scroll to SwTime and press enter
- Choose microseconds (ms) or seconds (s) and press enter _____
- Enter sample time length on the keypad and press enter _____

Check Antenna Type

- Scroll down (14) to AntTyp and press enter
- Choose antenna type that is being used and press enter _____
- Select Cable and press enter
- Choose cable that is being used and press enter _____

Logging Data

- Scroll down (4) to Logger and press enter
- Enter number of measurements on keypad and press enter (“COUNT” displays on top) _____
- Enter time between logs (in seconds) on keypad and press enter (“TIME” displays on top) _____
- Enter program number to be used (1000) and press enter
- Ensure that the unit says “RECORD” in top part of screen then press menu to begin
- A beep will sound each time a log is taken
- The beeps will stop and the unit will no longer say “RECORD” when it is done

Post-Flight Checklist**Collecting Data (Level 0)**

- Plug Spectrum Analyzer into computer via USB cable
- Open LCS software
- Go to Extras
- Click File Manager
- Click Connect on the right hand side
- Click on “Logger Data” under the “Spezial” tab
- Data can now be copy and pasted as needed
- Paste data in Notepad and save as har(two digit year, two digit month, two digit day)_spectran_level0

Level 1 data

- Copy and paste level 0 data in a new document in notepad
- Press Ctrl+H and enter a tab in “Find what:” and a comma in “Replace with:” then press replace all.
- Delete space between Freq and (Mhz) and space between Value and (dBm)
- Change header title “Value” to “Power”
- Save as har(two digit year, two digit month, two digit day)_spectran_level1.csv

Level 2 data

- Open level 1 data in Excel
- In Cell C1, type Time(sec)
- In Cell C2, type 0. Then add the time (in seconds) equal to the SwTime (above) to each row in the C column until you reach the end of the data.
- Save file as har(two digit year, two digit month, two digit day)_spectran_level2.csv