

## Baofeng programming software

### **Making the Baofeng UV-3R and probably the other Baofeng hand held radios legal.**

Some time ago I bought a Baofeng UV-3R and its programming cable.

The cable came with some crude instructions that gave the URL of the software.

I downloaded the VX-3R version and sure enough it was not locked to the Ham bands, it was wide open.

I then looked further into the site and found another version of the software called UV-X4.

When I ran that version there was a choice of limiting the radios coverage to the UK/Europe or Australian band plans as well as leaving it wide open.

I then rummaged further on the web and looked into the differences between the two software versions

I found the ini file for the UV-X4 version limited the range as follows:

The INI file in the VX-X4 version had three "Freq" definitions as follows:

```
[ModelInfo]
Freq0=[136-174/400-470]
data0=6013401700400047
Freq1=[144-146/430-440]
data1=4014601400430044
Freq2=[144-148/430-450]
data2=4014801400430045
```

The 'Freq' line is the label to be shown in the software.

The 'data' line is the binary coded decimal value to be sent to the radio. The data line is broken into 4 groups of 4 characters. i.e.

4014801400430045=4014(144) 8014 (148) 0043 430) 0045 (450)

The first 2 groups correspond to the VHF frequency limits, the second the UHF limits. You must reverse the byte order to get the appropriate value.

4014 8014 bytes reversed 1440 1480 gives 144MHz->148MHz

## **Baofeng programming software**

All I did was copy the .ini file from the VX-X4 installation folder to the VX-3R installation folder and the radio could now be limited to the Ham bands when programming it with the cable and software. This is a great deal easier than doing the programming from the keypad also!

When I tune the radio from the manual dial it gets to 148 and then starts again at 144, problem solved. Same on the UHF band.

These definitions are the raw values to be written to the radio and you can change the value of 'data' to be whatever you want.

For example we could set the limit on UHF for 430MHz->470MHz, set Freq2 to  
4014801400430047

This would give an illegal range on 70cm of 430 to 470MHz.

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