CHIRP - Bug # 6719

Status:	Closed	**Priority:**	Normal
Author:	M T	**Category:**	
Created:	04/16/2019	**Assignee:**	Jim Unroe
Updated:	10/07/2020	**Due date:**	
Chirp Version:	daily		
Model affected:	UV-5R, UV-5RX3		
Platform:	All		
Subject:	UV-5R and UV-5RX3 get VFO offsets wrong (entering 999.999 results in 99.99 when saved/uploaded)		

Description

I have a UV-5R and a UV-5RX3. If I set the VFO A or VFO B offset to 999.999000 in CHIRP and upload the image to either radio, the radio interprets the values as 099.990 (observable in each radio under menu item 26). If I save the image from CHIRP, close it, and then reopen it in CHIRP, I see 99.990000 as the value in CHIRP.

I can set the value manually in either radio to 999.999 (which is useful if you want to configure the radio to prohibit transmission in VFO mode). I'm pretty sure that if I set it manually in the radio and then read the configuration from the radio using CHIRP it will also show up as 99.990000 in CHIRP.

Other values have even weirder results (e.g., 666.666, 555.555, 444.444, etc.). Sometimes entering one value (e.g., 300), saving the file, then entering a prior value (e.g., 444.444) will result in a different value than what was saved with 444.444 before. It seems non-deterministic.

It sounds like a similar symptom to #4635 (but that's for a different radio/code base).

Associated revisions

Revision 3407:597332505d7a - 09/26/2020 09:47 pm - Jim Unroe

[UV-5R] Add support for XXX.XXX Work Mode Offsets

The original UV-5R only supported VFO offsets up to 69.95 MHz. Current models
support VFO offsets up to 999.999 MHz. This patch expands the Work Mode
Settings VFO A/B Offset settings to match the range of the current models.

fixes #6719

History

#1 - 09/23/2020 06:38 pm - Bernhard Hailer

- Status changed from New to Closed

Are you sure the radio actually can take offsets such as the ones you are trying?

Common values (in the US) are 600 kHz or 5.0 MHz; in the European region 7.6 MHz.

I'm closing this ticket due to its uncommon nature. Please let us know if it needs to be reopened.

#2 - 09/26/2020 01:49 pm - Jim Unroe

- Status changed from Closed to In Progress

- Assignee set to Jim Unroe

- Target version set to chirp-daily

- Platform changed from MacOS to All

This is because the radios for which the original driver was developed were limited to a offset of 69.950 MHz (which only required 4 bytes set aside in memory to store the value). The currently shipping models allow an offset up to 999.999 MHz (and 6 bytes of memory to store). The change allows setting the VFOs up for cross-band operation (which was not possible on the earlier models).

Jim KC9HI

#3 - 09/26/2020 05:31 pm - Jim Unroe

- Status changed from In Progress to Resolved

- % Done changed from 0 to 100

Patch submitted.

Jim KC9HI

#4 - 10/07/2020 12:39 pm - Anonymous

- Status changed from Resolved to Closed

Applied in changeset commit:597332505d7a.