



HT PROGRAMMING WORKSHOP

August 21, 2021

AGENDA

- Simplex vs. Repeater communications
- Repeater Basics
- HT Basics
 - VFO vs. Memory modes
- Programming Methods
 - From Keypad
 - CHIRP (and others)
- Repeaterbook.com
- Questions and One-on-One

RADIO PROGRAMMING BASICS

- Programming is just setting up basic radio settings and memories
- Menus
 - How to “talk” to your radio
- VFO (frequency) vs. Memory modes
 - Think of a car radio – tuning vs. presets
 - Programming is generally done in VFO mode
- What the radio needs to know
 - Simplex : Frequency and power
 - Repeater: Receive frequency, offset (amount and direction), tone frequency, power
 - Channel number

RADIO PROGRAMMING STEPS - SIMPLEX

- Switch to VFO mode
- Set the frequency (key it in or use arrows)
- Set the power output
- Set the memory channel to store
- Store the memory channel
- Switch to Memory mode and check your results

RADIO PROGRAMMING STEPS - REPEATER

- Switch to VFO mode
- Set the frequency (key it in or use arrows)
- Set the offset amount
- Set the offset direction
- Set the CTSS tone frequency
- Set the power output
- Set the memory channel to store
- Store the memory channel
- Switch to Memory mode and check your results

CHIRP

- Free, Open source program for programming a wide variety of HTs
- Most widely used programming software
- Can download from radio and upload to radio
- Start by downloading from your radio
- Then add new channels and upload
- Must have a working USB cable for your radio

REPEATERBOOK.COM

- You can search without logging in
- To download, you need to create an account (it's free)
- You can search by a wide range of parameters including State, County, proximity and even along a route.
- You can download the search results and import them directly into CHIRP

KEY LINKS

- CHIRP Download

- <https://chirp.danplanet.com/projects/chirp/wiki/Home>

- Bao Feng “Friendly” manual

- <https://radiodoc.github.io/uv-5r/>

- Chinese cable help

- https://www.miklor.com/COM/UV_Drivers.php

Repeater Book

- <https://repeaterbook.com/index.php/en-us/>

DEMO

- (I HOPE)