

VFTOM CHEAT SHEET FOR BTECH UV-2501+220

– **Programming Frequency Mode vs. Channel Mode Switch between Modes by Using the V/M Front Panel Button These two modes have different functions and are often confused.**

Frequency Mode (**VFO**) - Used for a temporary frequency assignment, such as a test frequency or quick field programming if permitted. Channel Mode (**MR**) - Used for selecting preprogrammed channels. ALL PROGRAMMING MUST BE INITIALLY DONE IN THE FREQUENCY MODE (VFO) ONLY. FROM THERE YOU HAVE THE OPTION OF ASSIGNING THE ENTERED DATA TO A SPECIFIC CHANNEL FOR ACCESS IN THE CHANNEL MODE. ONCE YOU PROGRAM A CHANNEL YOU CANNOT CHANGE THE SETTINGS, BUT YOU CAN IF PROGRAMMING CHANNELS ARE DIFFERENT FROM THE VFO SETTINGS; THE OFFSET SETTINGS ARE NOT STORED, INSTEAD YOU ENTER A TX FREQUENCY DIRECTLY (E.G. 145.000 RX WITH AN OFFSET OF (+) .600 WOULD BE A TX FREQUENCY OF 145.600)

Ex: **Programming a Channel Repeater Offset with CTCSS Tone EXAMPLE New memory in Channel 99:** RX = 145.000 MHz TX = 145.600 MHz (This is a (+ .600) Offset) TX CTCSS tone 123.0 1. Change from Menu to Menu by pressing the [EXIT/AB] button.

2. Set radio to VFO Mode by pressing [V/M] Channel number at the right will disappear.
3. Menu 37 [M] 9 9 [M] [EXIT] Deletes Prior Data in channel (Ex. 99)
4. Menu 13 [M] 123.0 [M] [EXIT] Selects desired TX encode tone
5. Enter RX frequency (Ex. 145000)
6. Menu 36 [M] 9 9 [M] Enter the desired channel (Ex 99) → [EXIT] RX has been added
7. Enter TX frequency (Ex. 145600)
8. Menu 36 [M] 9 9 Enter the same channel (Ex 99) → [EXIT] TX has been added
9. [V/M] Return to MR Mode. Channel number will re-appear.

Ex. **Programming a Simplex Channel with CTCSS tone EXAMPLE New memory in Channel 99:** RX = 446.000 MHz TX CTCSS tone 123.0 1. Change from Menu to Menu by pressing the [EXIT/AB] button.

2. Set radio to VFO Mode by pressing [V/M] Channel number at the right will disappear.
3. Menu 37 [M] 9 9 [M] [EXIT] Delete Prior Data in channel (Ex. 99)
4. Menu 13 [M] 123.0 [M] [EXIT] Select desired TX encode tone (Ex 123 CTCSS) → Use [A/B] to select Upper display -> Enter RX frequency (Ex. 446000)
5. Menu 36 [M] 9 9 [M] Enter the desired channel (Ex 99) → [EXIT] Channel has been added
6. [V/M] Return to MR Mode. Channel number will re-appear.