PROJECT: CROSS BAND REPEATER WITH 2 BTECH MOBILES

WHAT’S NEEDED:

RJ-45 CABLE  (Diagram on Page 4)
2 BTECH MOBILES

This Illustration Example Uses:

136.025MHz to 465.025MHz – PL (CTCSS) 74.4Hz

SET TDR (Dual Watch) ‘OFF’ ON BOTH RADIOS

1: First set the parameters on the two mobiles. On the first mobile select the lower display (with the A/B Button). Set the frequency to 465.025MHz (or your own UHF frequency)
On the other radio select the upper display (with the A/B Button). Set the frequency to 136.025MHz (or your own VHF frequency)

2: On **both** BTECH mobile radios set the PL Tones with MENUS 11 and 13. In this example set R-CTCS (Menu 11) to 74.4Hz and T-CTCS (Menu 13) to 74.4Hz
3: Enter MENU 43 REP-M and select CTDCS for two mobiles – this will require the repeater forwarding (X-Band Repeat) to activate once the confirmed PL signal (CTCSS or DCS) is received will transmit it on.

4: Exit the Menus and connect the radios with a RJ-45 cable (diagram on page 4). Insure your external antennas are not in close proximity to avoid interference.
5: If the radio receives the carrier frequency with the required CTCSS or DCS tone (depending on your configuration) the radios will now pass along and transmit the signal from VHF-UHF or vice versa as a cross-band repeater.

**NOTES:**

**THIS IS ONLY RECOMMENDED TO SUPPORT CROSS-BAND REPEATING — DO NOT USE 2 VHF OR 2 UHF FREQUENCIES**

**MAKE SURE THE TWO ANTENNAS ARE FAR AWAY IN ORDER TO PREVENT THE INTERFERENCE BETWEEN THE TWO BTECH MOBILES**