

# KENWOOD TM-D710 CROSS-BAND REPEATERS

Setting up & Operating  
A Cross-Band Repeater

W0KAH

# Setting up TM-D710

- ▣ Set Band A to a VHF frequency
- ▣ Set Band B to a UHF frequency, set CTCSS, DCS or DTCS on and low power



# Cross-band setup

- ▣ Press F and then the freq select knob to get into Menu mode



# Select Repeater setup

- ▣ Rotate the select knob to Repeater
- ▣ Press the Select Knob



# Select Cross-band

- ▣ Menu 403 Push Select from Repeater Mode
- ▣ Turn Select to CROSS BAND
- ▣ Press Select, then Back



# Setup ID

- ▣ From Repeater Menu Select Repeater ID
- ▣ Menu 405 Repeater ID, Select and then enter your callsign (twist select to correct letter, press select, advance & repeat till call entry complete



# PM Friend or Foe

- ▣ Escape to get out of all menus back to normal display
- ▣ PM's are great, however if you use them, you must save the cross-band repeat setup in a PM or when you power off & on to start cross-band repeat, it won't work, you'll still be in normal mode. Or turn PM off.



# Almost done

- ▣ Press Power Off
- ▣ Press Tone & hold, then power ON and you're in Cross-Band Repeat!



# Rock & Roll!



- ▣ PTT will flash on right side, radio is locked
- ▣ Power OFF, Press Tone & hold, then power ON to get back to normal

# Legal stuff

- ▣ Congratulations you are a Repeater Control Operator!
- ▣ You must ID for the repeater (the D710 & V71 can do this for you) if your rig doesn't do it.
- ▣ You could voice ID; W0KAH via W0KAH cross-band repeater, but that only handles your HT and the VHF transmit, you'll need to switch freq to 146.67 & transmit low power when the repeater is not up to ID the UHF transmitter.

# Legal Stuff continued

- ▣ USE CTCSS, DCS, DTCS etc. to make UHF private.
- ▣ Otherwise other users must ID for the repeater as well, both directions.
- ▣ You're responsible for the repeater and must shut it down if it causes interference (repeating intermod for example).
- ▣ Don't rebroadcast other services (except WX service) ever.
- ▣ Don't repeat other hams or other repeaters.

# Other considerations

- ▣ When in CBR, the “other” repeater’s carrier must drop in order to allow your mobile rig to switch directions, until it drops, you can only listen because your mobile rig is transmitting to you.
- ▣ Use the lowest power on UHF, and as low as will work on VHF
- ▣ If you can hear the repeater fine, use Locked TX A instead of CROSS BAND
- ▣ Duty cycle is 100% as long as you’re using it!

**The END de W0KAH**

**Thank YOU!**