

OPERATING THE YAESU REPEATER

The Yeasu DR-2X repeater can be operated in several modes. The system operator controls the mode.

Please remember that operation of the repeater is completely independent of any Wires-X connections.

The W1SGL repeater is operating in AMS (Automatic Mode Select) mode. That means that the repeater will transmit in the mode that it receives. If you transmit in analog mode, the repeater will transmit in analog mode. If you transmit in C4FM mode, the repeater will transmit in C4FM mode.

Please remember that the repeater has a tail that will keep the repeater in whatever mode is last used to transmit. If you are in **FM** mode and hear or see a digital signal, wait until the tail drops cleared then transmit in FM. If the other station is in AMS, that station will automatically switch to FM mode in its next transmission.

If you are in **DN** mode and hear a FM station, the radio will switch to **FM** and stay there.

If you are in a mode without a bar (FM or DN), your radio will not switch modes.

If you see bars on the s meter, but don't hear anything, you are in a non AMS mode not compatible with the transmission being received.

The repeater stays in the mode used for the last transmission. If you transmit in one mode and the tail does not drop, the other station transmitting has to be in the same mode or their transmission will not be retransmitted. If the tail drops and the other station transmits on a different mode, the repeater will switch to that mode and transmit in the new mode.

Etiquette

There is no curtesy tone on this repeater. Please finish your transmission by saying "back to you" or something similar to let other stations know that you are done talking.

When communicating in C4FM, please wait about 3 seconds to let the repeater reset before transmitting. This will allow the repeater to switch to FM mode if someone is trying to join in the conversation.

If using Wires-X to join a room, please remember to change the room back to WOLF DEN before signing off. WOLF DEN is our default room. Also please remember that the repeater is tied up when using Wires-X. The only people who will be able to join in on the QSO will be people that have radios with Wires-X capability.

ANALOG MODE

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In analog mode the repeater only accepts FM signals and transmits FM signals. The repeater functions as other non fusion repeaters. Anyone with a 2 meter radio can access the repeater. In analog mode, there is no courtesy tone. For Yeasu radios that are C4FM compatible, selecting the FM mode forces the radio to transmit in analog mode and only receive analog transmission.

If the radio is in **FM** : The radio will only transmit and receive analog signals.

If the radio is in **F̄M** : (FM with a bar over it) mode, The radio will transmit in analog mode, but will receive all signals.

DIGITAL MODE

In digital mode the repeater only accepts digital (DN) signals and transmits C4FM signals. A radio capable of C4FM transmissions is required.

If the radio is in **DN** : The radio will only transmit and receive C4FM signals.

If the radio is in **D̄N** (DN with a bar over it) mode, The radio will transmit in C4FM mode, but will receive all signals.

DG-ID: This is the equivalent of CTCSS in the analog mode. Normally both the transmit and receive are set to 00.

If the receive DG-ID is set to 00, all transmissions are received regardless of DG-ID setting. If the DG-ID setting is not 00, then the only stations heard will be stations that have the same DG-ID transmit number as your DG-ID receive number.

If the transmit DG-ID number is set to any value, only stations that have their receive DG-ID set to 00 or the number that you are transmitting on will hear you.