

WIRES-X Portable Digital Node Function

A WIRES-X portable digital node station may be easily established by setting the C4FM digital transceiver to "HRI mode" and connecting it with a PC. With this function, and an available Internet connection, WIRES-X access via the Internet is possible, even from a location where a fixed WIRES-X node station is not available. A C4FM digital transceiver can be used as a node station transceiver without setting up an Ethernet port. This feature enables easy setup and WIRES-X operation from any location, such as a Hotel room, Airport, in a Vehicle or a Free Wi-Fi space, etc.

- * WIRES-X operation in the digital transceiver's HRI mode is only available in C4FM digital mode.
- * Optional PC connection cable (SCU-19) is required for the FT2D PC connection.
- * Supplied PC connection cable (SCU-20) is required for the FTM-400XD/FTM-100D PC connection.
- * Digital transceivers that can operate in the HRI mode are the FT2D, FTM-400XD and the FTM-100D.

Connection of WIRES-X Node or Room

In the digital transceiver HRI mode, a digital WIRES-X node station can be easily created to provide access to other node stations via the Internet. Also, a WIRES-X room may be joined for group communication.

Connection of Club Repeater Network with DG-ID

By establishing the WIRES-X portable node station, you can easily connect to a DG-ID controlled IMRS Club Repeater network using the WIRES-X Node Station.

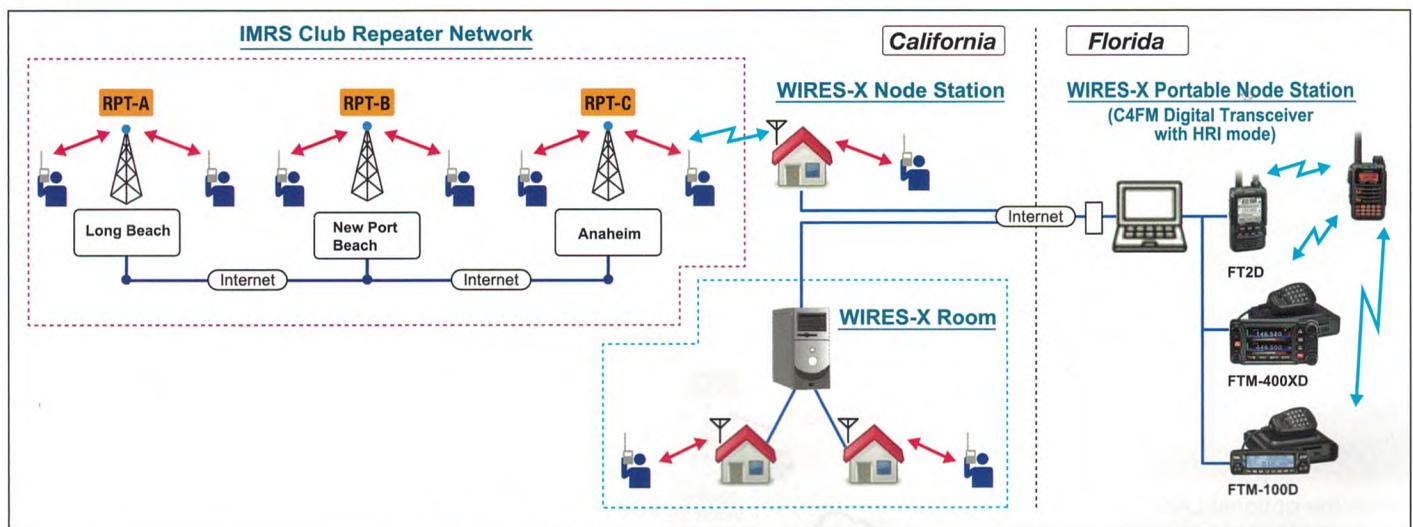


Illustration of WIRES-X operation via Portable digital Node Stations

Three C4FM Digital Modes and the conventional FM Mode

Three System Fusion-II Digital Modes and the analog FM mode can be selected. In digital, effective utilization of the 12.5kHz bandwidth, makes possible combined high-quality voice communication and image data transmission and reception. Many new and unique information and communication functions are made possible.



V/D mode (Voice/Data Simultaneous Communication Mode)

The digital voice signal is transmitted using one half of the bandwidth. Simultaneously the other half of the 12.5kHz bandwidth channel is used for error correction of the voice signal and for other data. The standard C4FM Digital mode provides the ideal balance of error correction and sound quality with the Digital Clear Voice technology developed for C4FM digital.

Voice FR mode (Voice Full Rate Mode)

This mode uses the full 12.5kHz bandwidth to transmit digital voice data. The increased amount of voice data permits high quality voice communication, providing superb sound quality for a "rag chew" with friends.

Data FR mode (High Speed Data Communication Mode)

This high-speed data communication mode uses the full 12.5 kHz bandwidth for data communication. The transceiver automatically switches to Data FR mode when transmitting Snapshot pictures, and can be used to transmit large quantities of data at high speed.

Conventional FM mode

Analog FM is effective when weak signal strength causes audio drop out in the digital mode. The FM mode enables communication up to the borderline of the noise level. Also the use of established Yaesu low power circuit designs provides far less battery consumption than the digital mode.