# Setup and Using FT8 on Yaesu FT-991

#### Compiled by Steve VK3VM/VK3SIR

## Introduction

Some resources on YouTube are BY FAR the best materials to utilise when working with WSJT-X and FT8.

Setting up the FT-991 (and FT-991a) is not necessarily a simple task. There are settings that need to be changed on the radio.

The resources provided here should give a pretty thorough introduction into setting your radio up for and then operating FT8.

## Resources

These first two deal with setting up WSJTX

* Setting up FT8 With a Yaesu FT-991 Part 1 - <https://youtu.be/WFjnA6L9Hm0>
* Setting up FT8 With a Yaesu FT-991 Part 2 - <https://youtu.be/RApgeGogisI> (For Linux)

This next one is useful as it also goes through Audio Settings and adjustments.

* <https://www.youtube.com/watch?v=RZE7DxpikcU>

Having the audio drive level set too high can damage components – especially tuners only rated to around 100 – 125W.

## General Rule when Transmitting

* Displaying ALC (Rig setting when transmitting
* Transmit with the LOWEST POSSIBLE SWR POSSIBLE. Use Tuners.
* Have a Power and SWR Meter in the line. Always monitor Output Power and SWR.
* Do not transmit with ALC levels “red lining”
* Transmit at an audio level just below the peak power output. This prevents damage to a LOT of components.
* Never transmit at the full 100W. Set the radio to say 90W maximum Tx power.
* Yaesu radios adjust the Tx drive not by adjusting final output transistor gain but by adjusting input levels to the finals.

## Summarised Radio Settings

* See <https://www.w6pql.com/misc/wsjt-x/ft991-wsjt-x.pdf>