ELAD Application Notes AN-003
Using FDM-DUO with WSJT-X (Ver. 1.8.0)

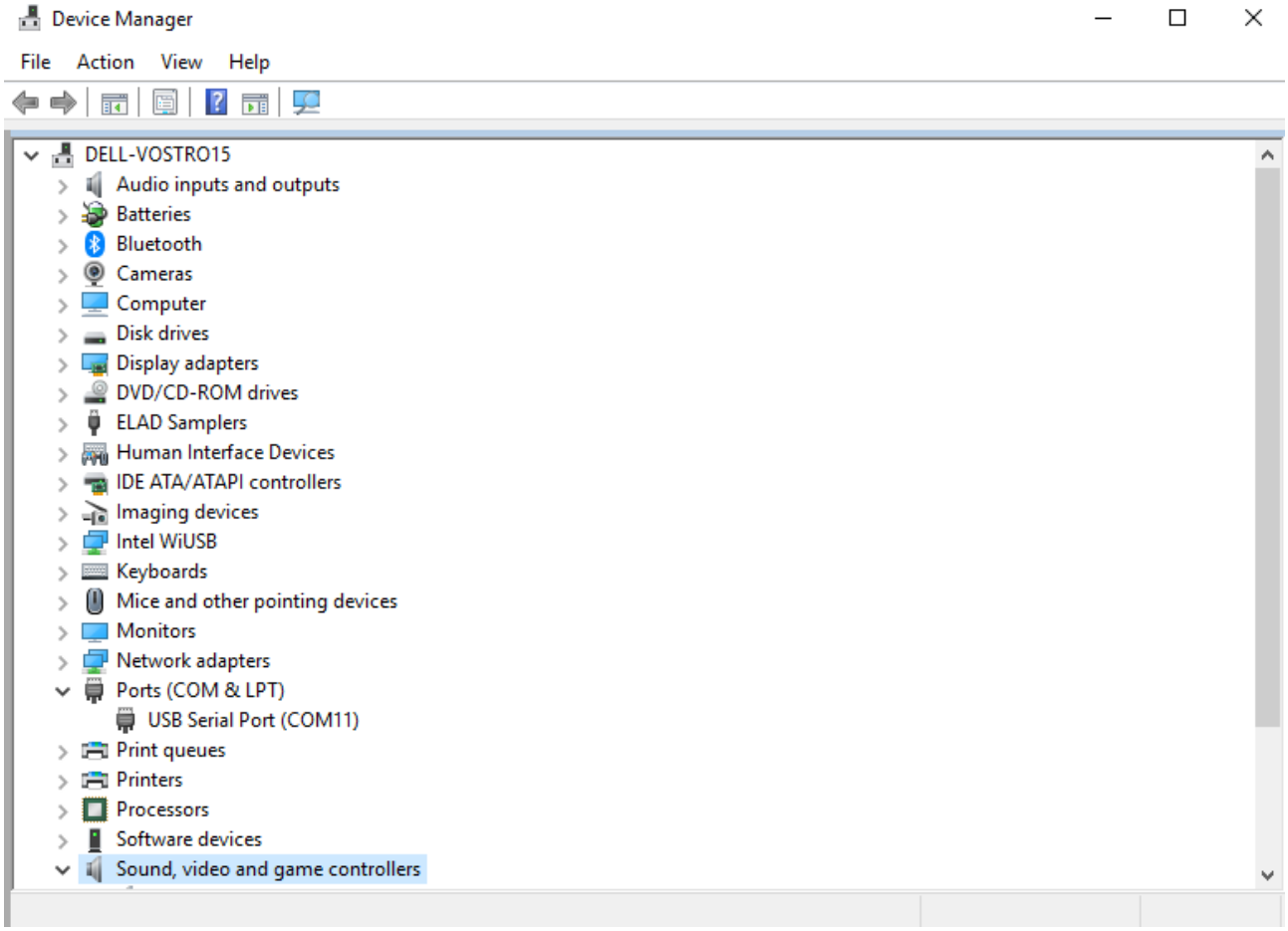
Contents

Introduction

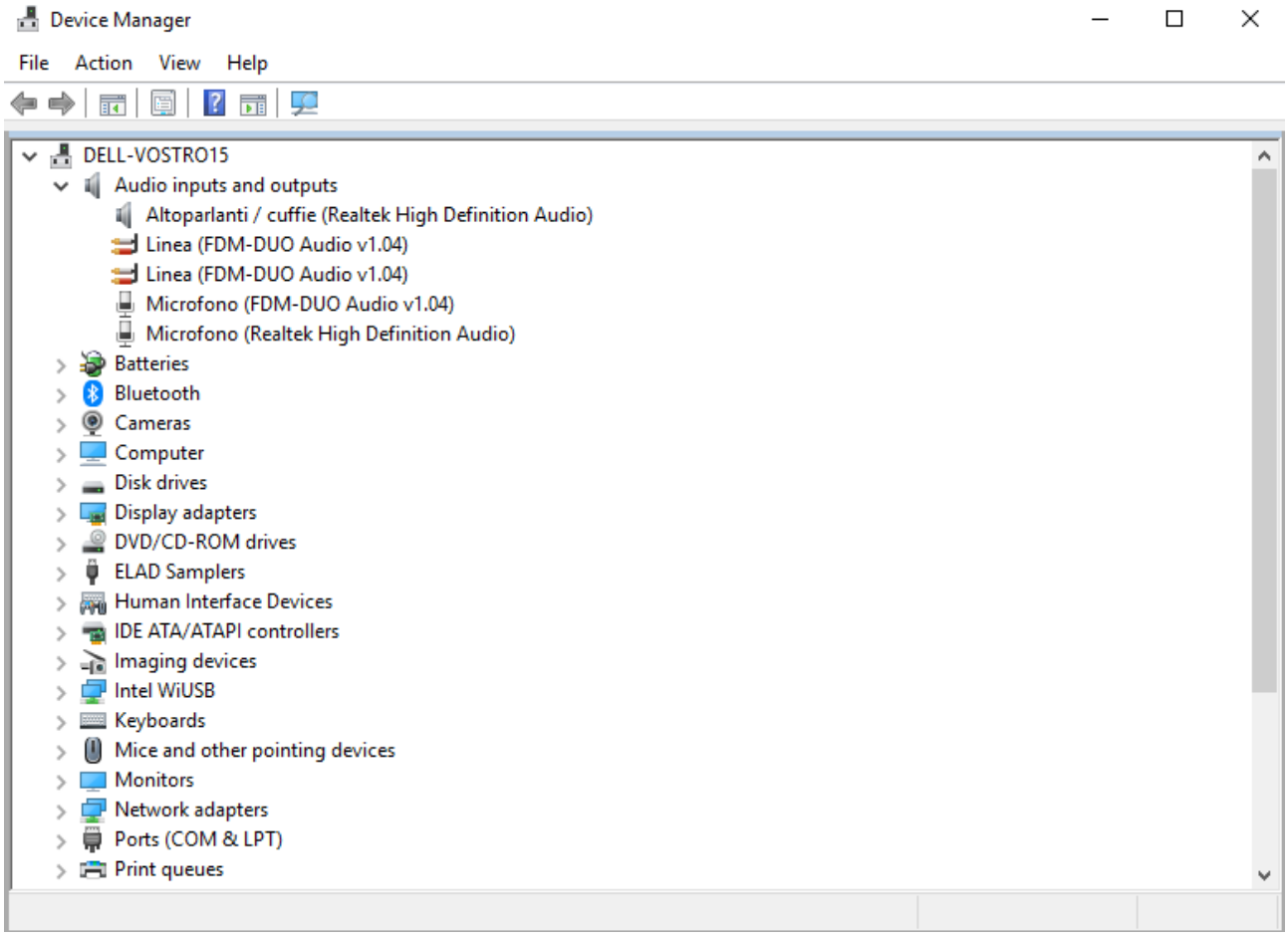
This application note describes how to use FT8 Protocol using WSJT-X and FDM-DUO.

Pre-requirements

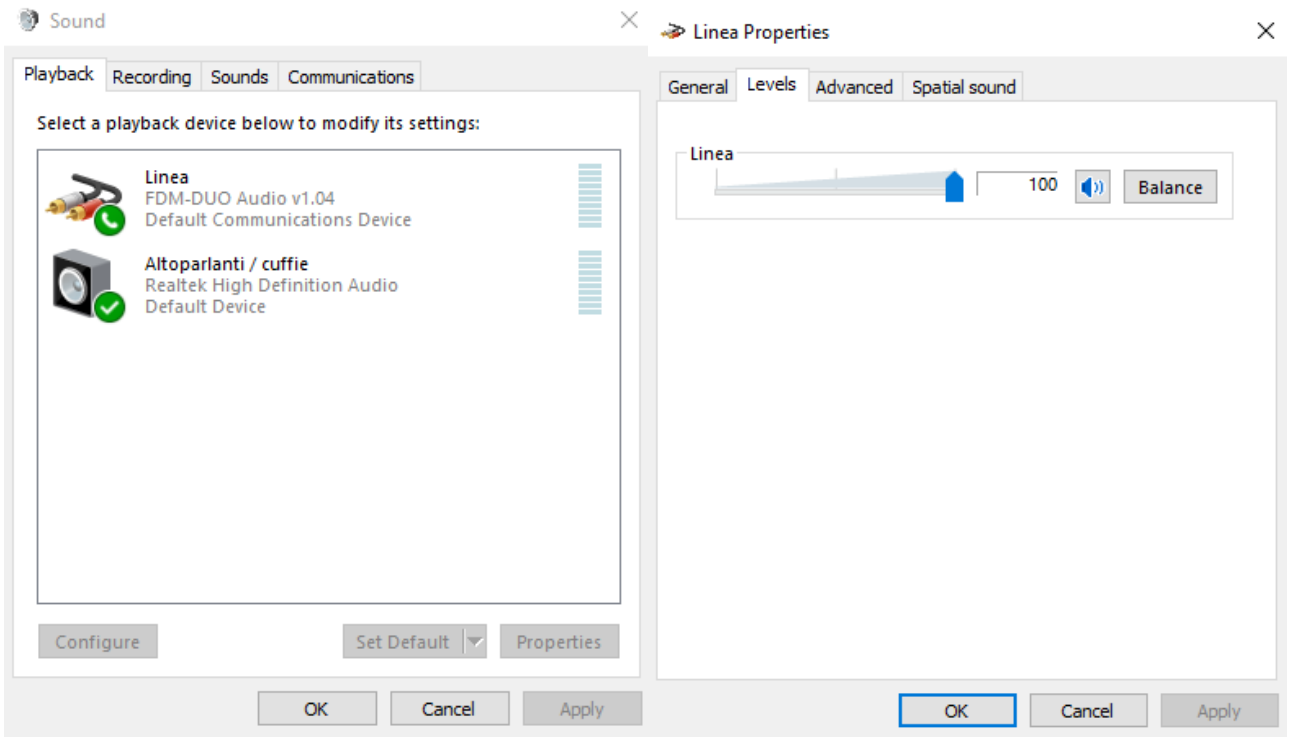
USB CAT drivers has to be installed on the computer you are using, if you have more than one you can disconnect and reconnect the USB CAT cable and find the one for the CAT command:

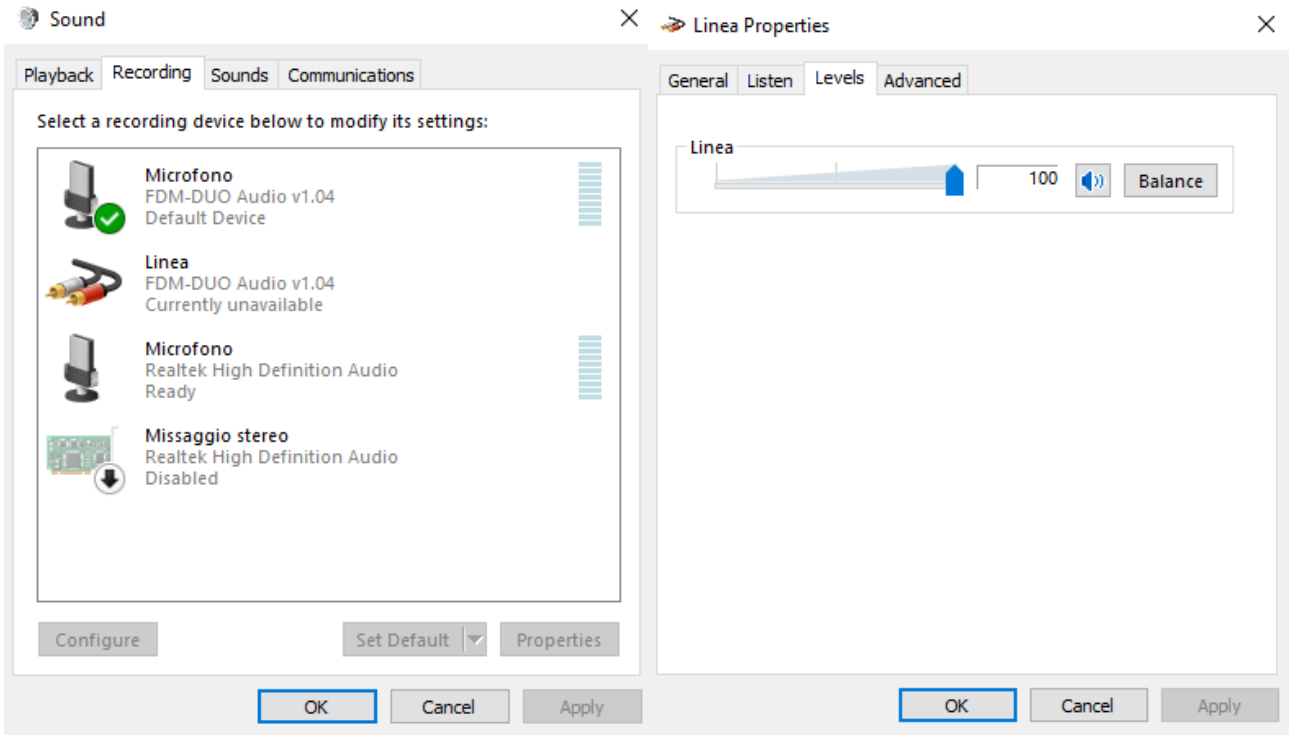


Check if the computer detects the input and output audio lines of the FDM-DUO:



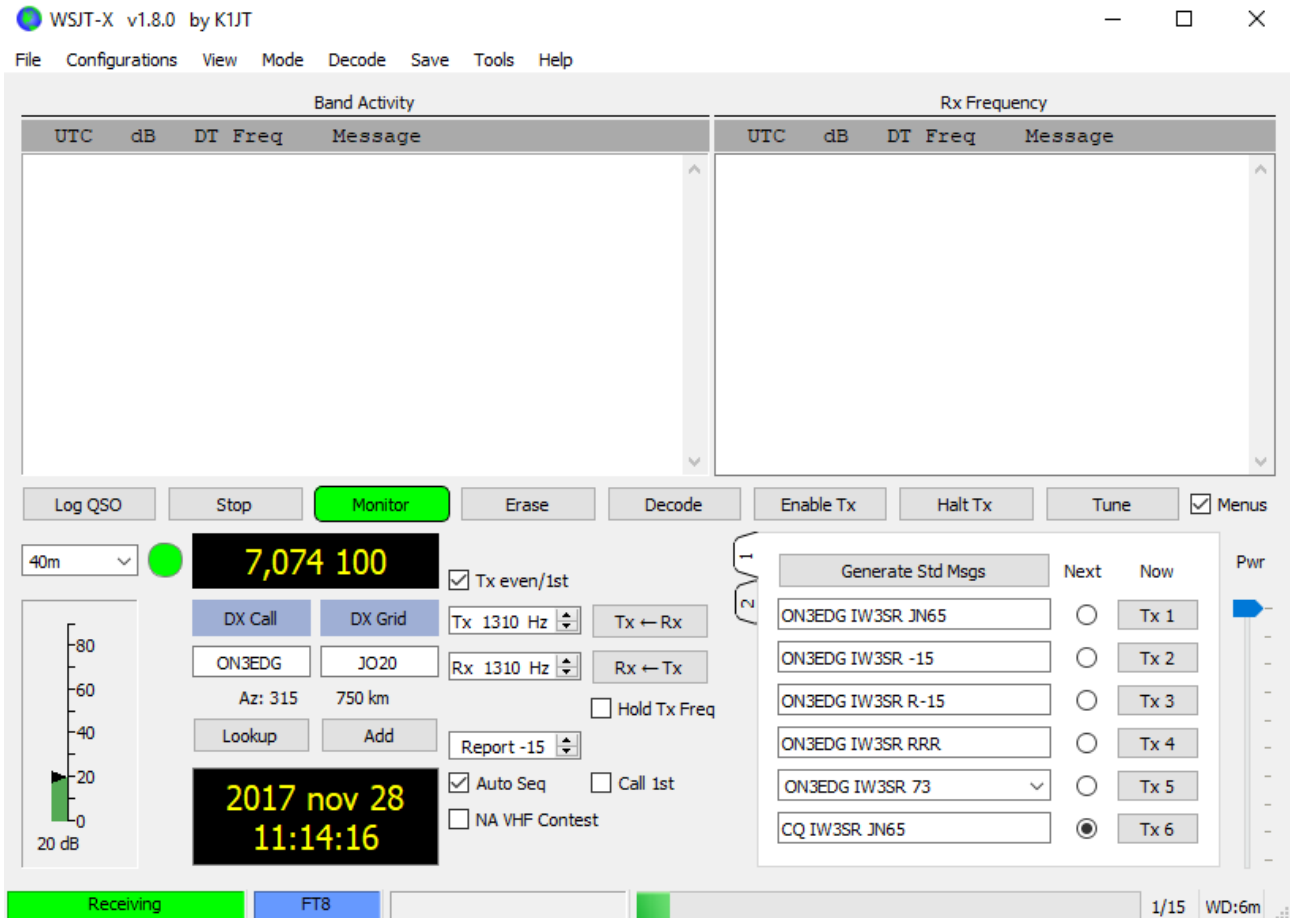
Check also the play and record's volume:

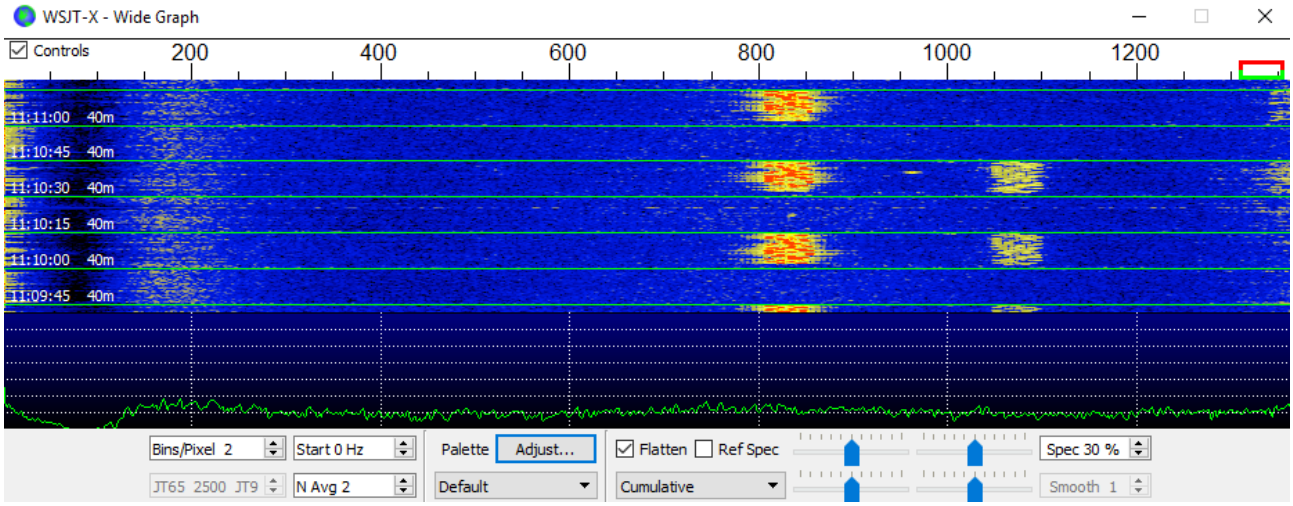




1 WSJT-X first look

When the installation of the software is finished the software will show this 2 windows:

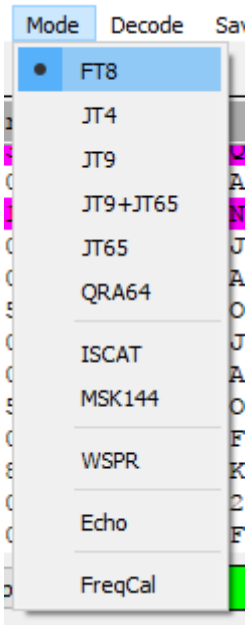




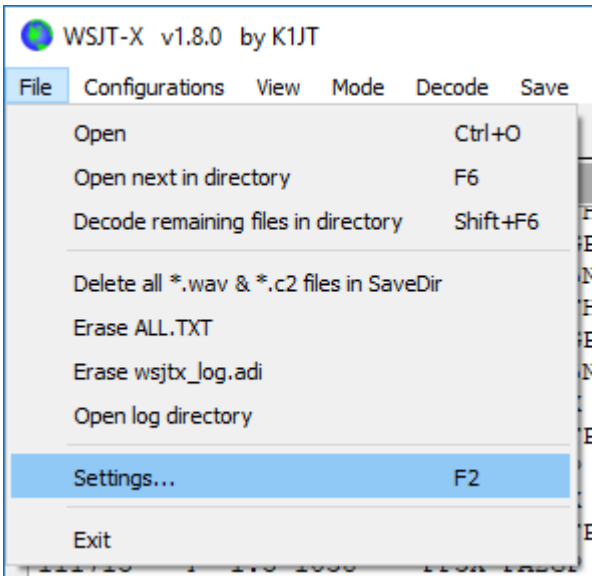
If the software shows these windows you did the installation properly, otherwise it's necessary set WSJT-X up.

2 WSJT-X settings

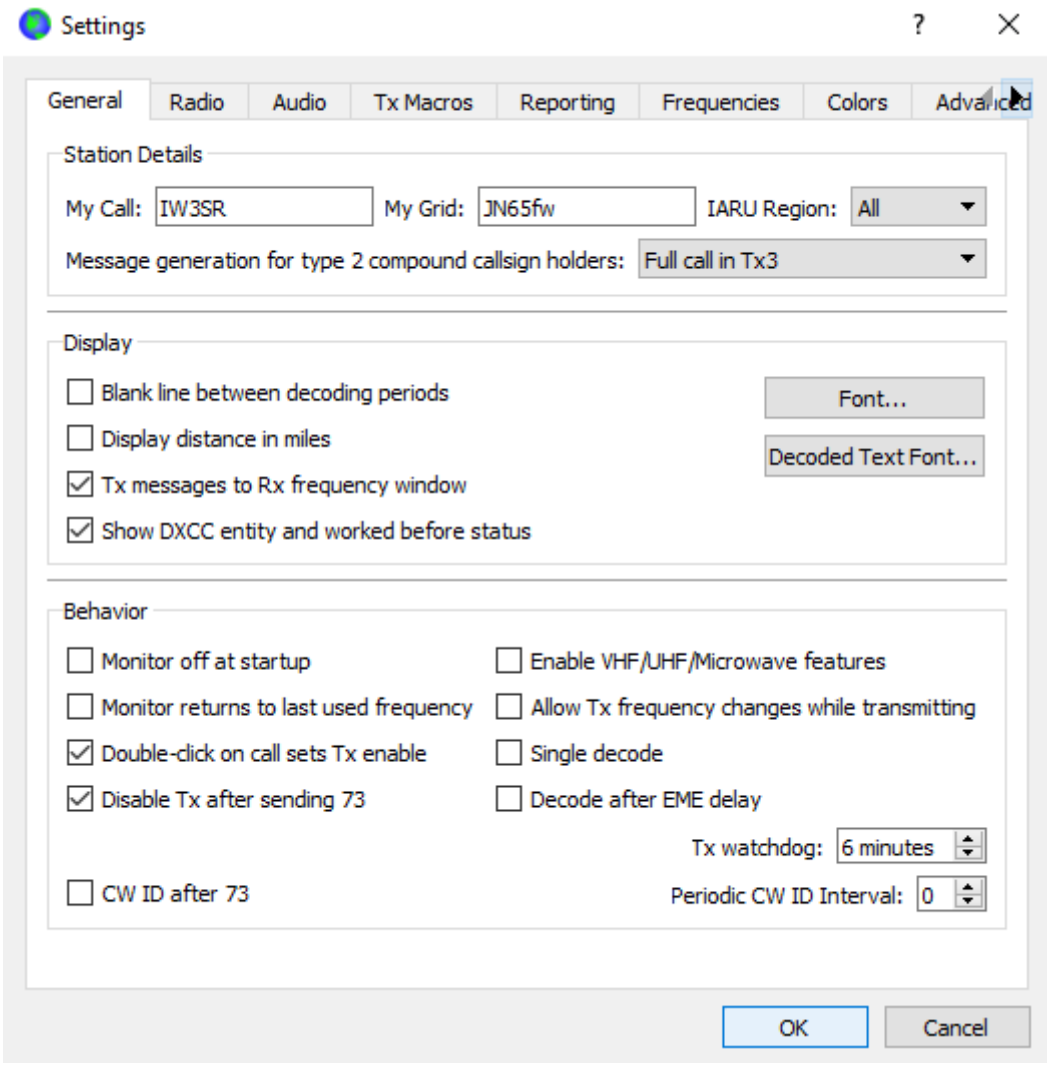
The default transmission mode is JT9, so it needs to be changed into FT8.



After that we have to set the DUO to work with the program. To do this we have to go to settings:

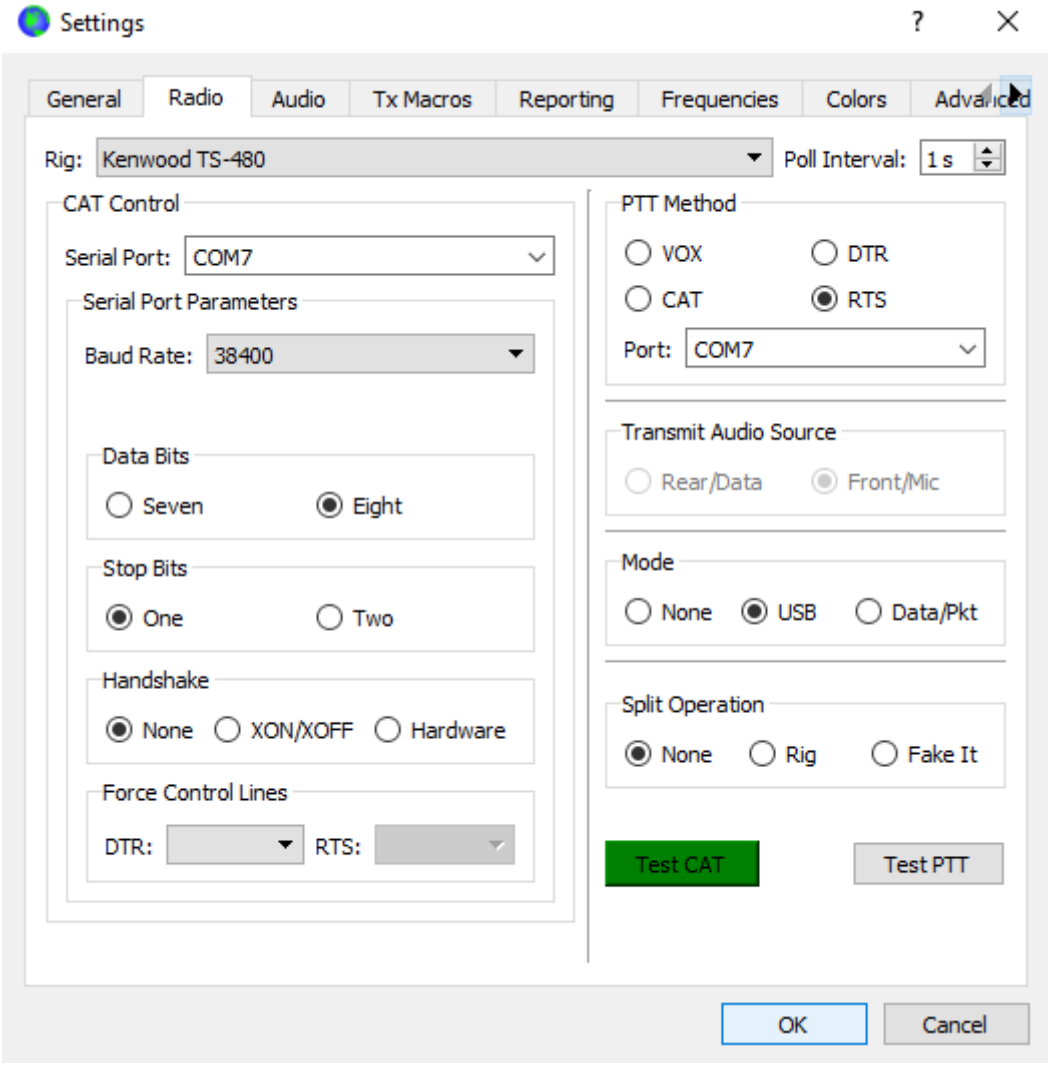


A window will show up and it will show several tabs and in the “General” one we have to set as it follow:



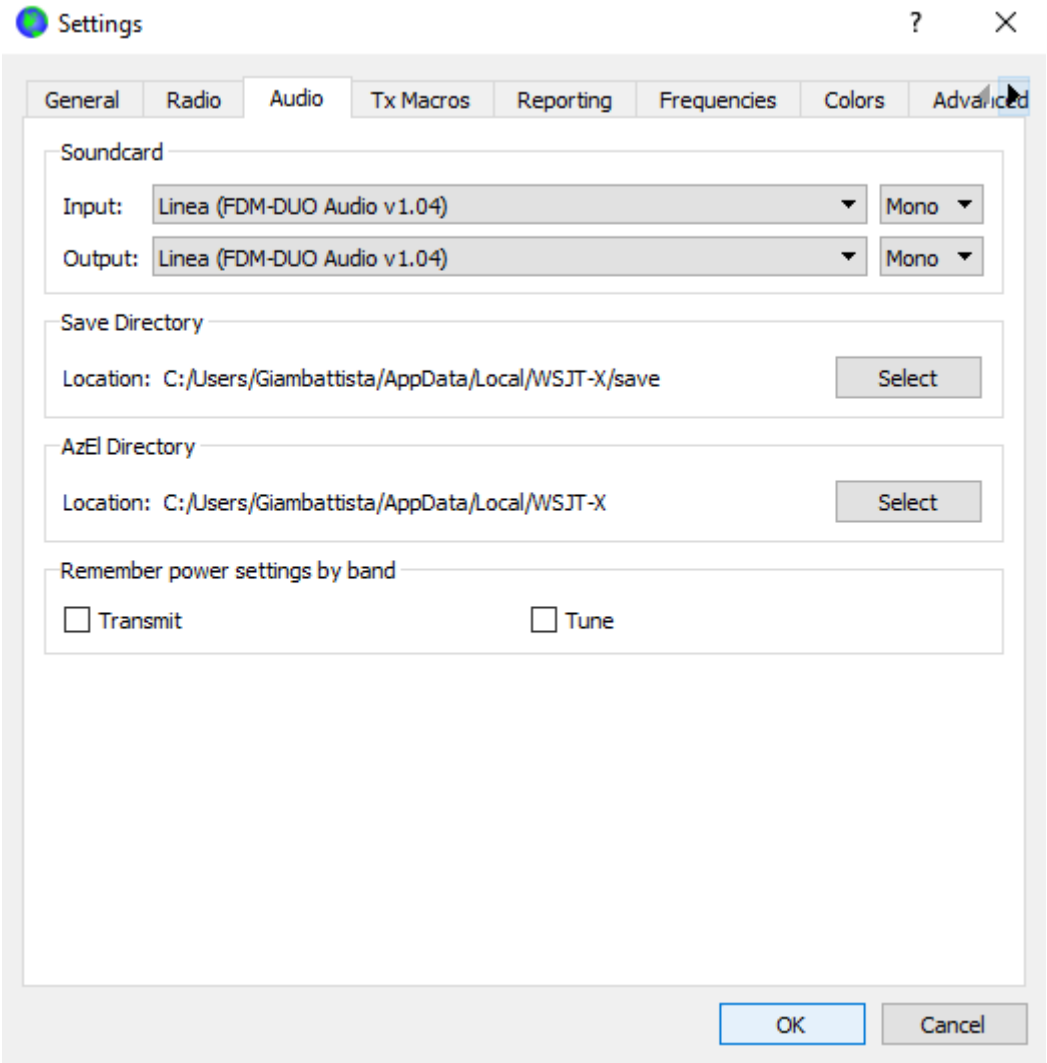
Note: “My Call” and “My Grid” have to be set with the personal information.

After this quick set up of the general information, we have to set the radio configuration:



Before continuing is helpful to test is using the button “Test CAT”, if it is all good it will turn green and the button “Test PTT” will unlock, verify also this if it works correctly.
Note: In the FDM-DUO settings the PTT (menu 54) has to be set as “IN+RTS”.

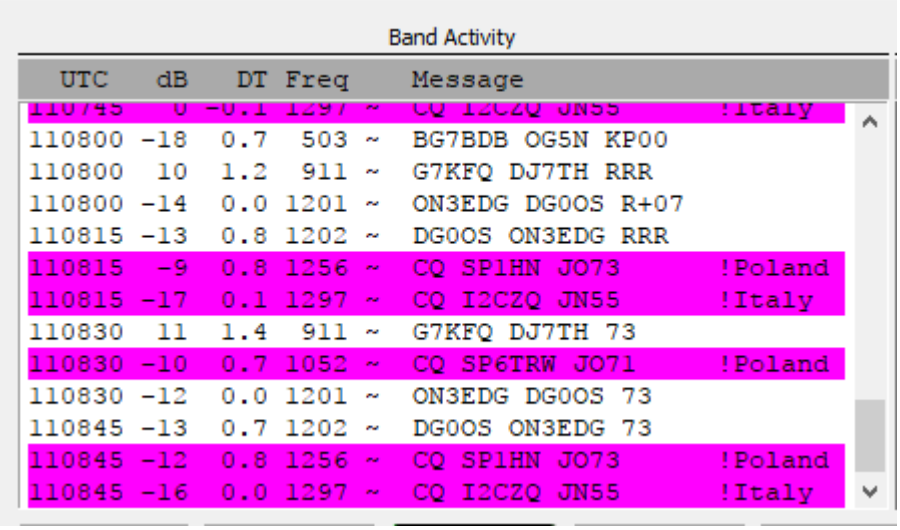
When it's all working we can go on and set the "Audio" tab, if you want to use the FDM-DUO as a speaker you have to set as it follow:



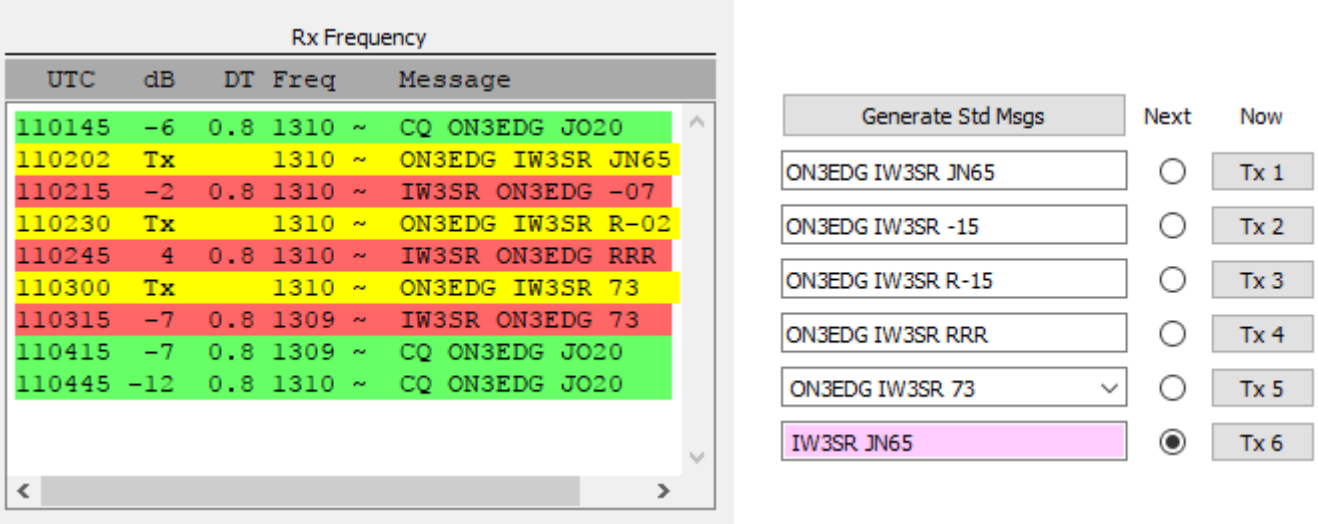
If you want to listen in some other device such as headphones or speakers you can easily set them in the output list.

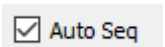
3 Receive and transmit

When we come back to the main window the “Band Activity” space will begin to show the messages and the requests from other people.



We can answer to a request by double clicking on their name:



A sequence of messages will start and if you selected 

on the main screen the program will send those messages automatically.