

NOTE: If you install the new audio file per Howard's instructions you will need to use the new overlay as the default system selection if you are using the audio card. If you are using the USB connection, you don't need to change anything. Just follow these instructions. If your receive audio sounds bad as a water type sound you need to go into Mumble and change it from default to the proper device you are using in both the input and output. Let me know if you have questions about this as it may change with the future releases. I no longer Beta test but am still glad to help ICOM user as time permits.

ICOM IC-7300 radio setup

1. In the files section of this forum download the latest .dat file for the 7300. As of 7/11/2019 it is located in this directory:

<https://groups.io/g/RigPi/files/Rig%20Configuration%20Information/ICOM/IC-7300%20Configuration%20File>

2. Backup your IC-7300 to an SD card that you will put in the front of the radio. You **Must** do this in order to create the file structure on the SD card. If you don't know how to do this, please read your manual.
3. On you PC copy the .dat file you downloaded in step 1 and copy it to the settings sub directory on the SD card.
4. Put this SD card back into the radio and load them. If you don't know how to do this, please read your manual.
5. Go into the setting of the radio and look the call sign. If it's my call, W5ZZT, you have successfully loaded the file. Please change the call to your call.

This concludes the radio Instructions.

RigPi Audio Settings for USB Audio.

1. On the RigPi desktop **RIGHT click** on Speaker icon in the top right-hand corner of the screen. For the **USB cable** It needs to have a check mark by the "**USB Audio CODEC**". Select it if not already checked.
2. Your mumble menu should be showing on the desk top. If not click on the **lips** at the top right of the screen. This will bring the main Mumble menu into view.
3. On the **Mumble** menu go to **Configure>settings>audio input tab** on left. Verify the **Device** to the right is set to **default**. If not use the drop-down menu to set it to default.
4. Press Apply at the bottom. **Do NOT** press OK yet.
5. Now on the left-hand side of the menu move down to the next menu by selecting "**Audio Output**" and as you did in step 3 verify the device is set to **Default**. If not set it to default.
6. Set the **Output delay** slider to "**50ms**". This ensures no TX audio dropouts at some installations.
7. Press **Apply**. This time press **OK**. **The configuration menu goes away.**

8. **THIS Step IS IMPORTANT** To save your Mumble changes you must Quit Mumble and Reboot. To do this, on the **main mumble screen** now showing press Server>Quit Mumble. ***Mumble menu will go away***
9. Go to the **Raspberry icon** at the top left of the screen and after pressing on it select "**Shutdown**". It is the last selection and will bring up another menu usually in the middle of the screen. Please select "**Reboot**"
10. When the system comes back up **Verify** any changes you have made are still there. If not start over and take your time.

RSS Tuner Setup

I will assume that you set the radio up taking the defaults. You should have done this in the initial setup or when adding a new radio. If not you will need to set it up. See the Help section of the forum for instructions on how to do this.

1. You will need to start the RSS by double clicking on the **Pi icon on the RigPI desktop** or from a PC/telephone using the VNC terminal software.
2. In 30 seconds or less you will see the sign on screen appear. Sign on with the ID you set up. It will be Admin (no password) if you did not change it yet.
3. On the menu bar across the top above the Frequency readout go to **Settings>Advanced Radio**.
4. Set the **baud rate** to match the radio. In our case set it to **115200**.
5. You **must save** this change by press the up arrow inside the cloud. It is under the call sign search on the right-hand side of the screen.
6. Now on the menu line press the **Tuner** selection. This will take you back to the main screen. Try to **connect** to the radio. In a few seconds it should tell you are connected. If you receive **any other message**, then press **disconnect** and after receiving the disconnect message and try to **connect** again. If it still doesn't connect you will have to do some trouble shooting by checking your settings again or asking for help on the forum.

I will assume you know how to connect to your RigPI both from the LAN and WAN and that you have forwarded the correct ports for the WAN usage. If not, you have some reading to do in the Help Section. Since every router is different it is not practical to provide the instruction on port forwarding for your router. You will have to read the manual for your router or try and find others on the forum who might have the same router. Google is also your friend as well as the search function of this forum.

Now it's time to listen to yourself on another receiver or your radio's monitor and see how you sound. The monitor function will cause an echo but if that's all you have then use it. Just make sure and turn it off before you get on the air.