

# DigiKeyer II and Hamscope setup

## Router setup:

Note: The absolute port numbers do not matter. The key is consistency - the same port number must be used for a specific function every time it is used.

1. Assign a virtual port for radio control.
2. Assign a port for CW. Hamscope does not support WinKey; use the CW port.
3. Assign the same port for PTT as you used for CW.
4. Assign a port for FSK and check the PTT box. If your radio does not support FSK or you will be using AFSK, you can skip this step.

The screenshot shows the 'Ports' configuration window for an Icom IC-706 MkII-G radio. The window has several tabs: Ports, Audio, PTT, CW / WinKey, CW Messages, FSK Messages, Keyboard, and System Settings. The 'Ports' tab is active. The interface is split into two main sections: 'RADIO' and 'RTTY'. The 'RADIO' section includes the following settings:

- CAT: COM4
- 2nd CAT: none
- FSK: COM6, with a checked 'PTT' box
- 2nd FSK: none, with a checked 'PTT' box
- CW: COM5, DTR
- PTT: COM5, RTS
- 2nd PTT: none, RTS
- Foot Switch: none, CTS
- SQL: none, CTS
- WinKey: none
- Control: none

The 'RTTY' section includes the following settings:

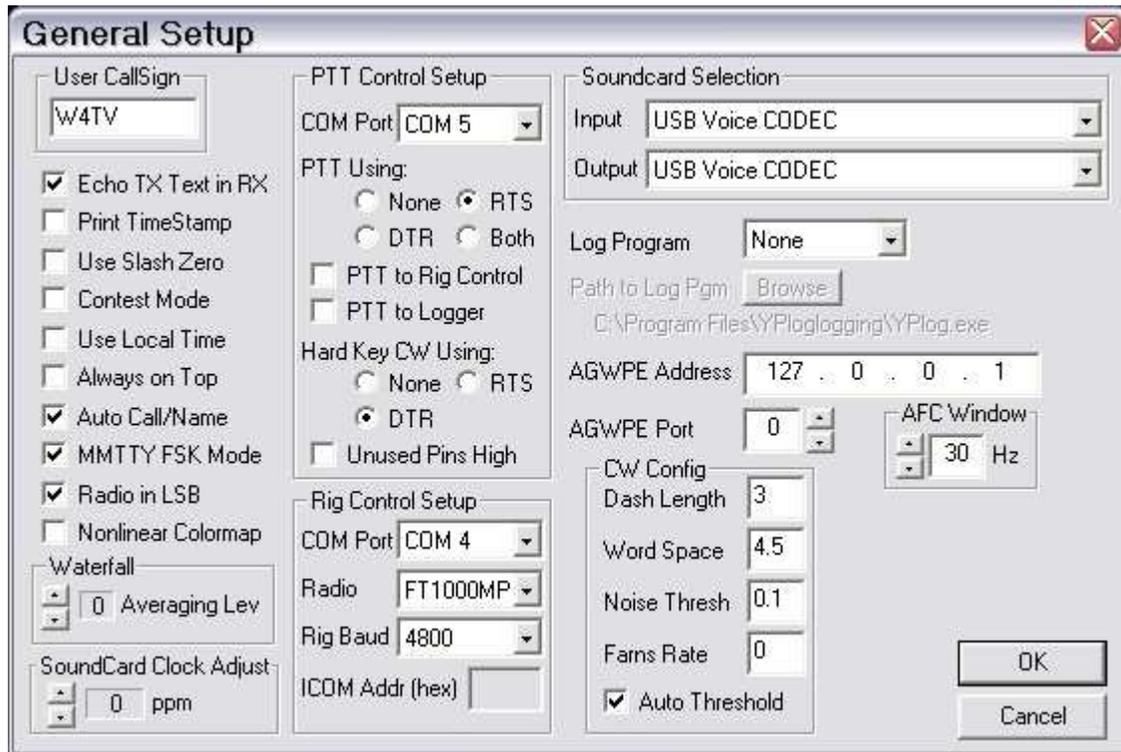
- Status: closed
- Buttons: Set, Test, Test, Test, Test, Test, Mon, Mon
- Options: invert (unchecked), strict bps (checked), invert (unchecked), invert (unchecked)

The frequency is set to 4.080.000.

5. Save the settings to a preset by selecting menu **Preset | Save as**. Choose a position and name it Hamscope.

## Hamscope setup:

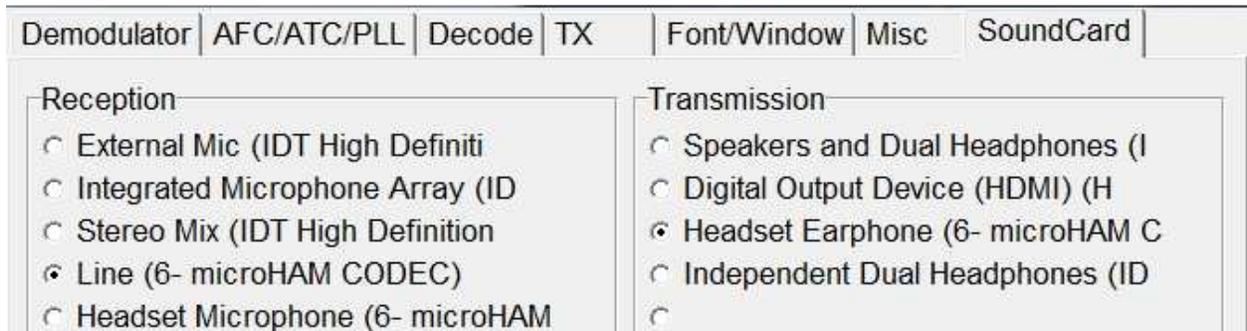
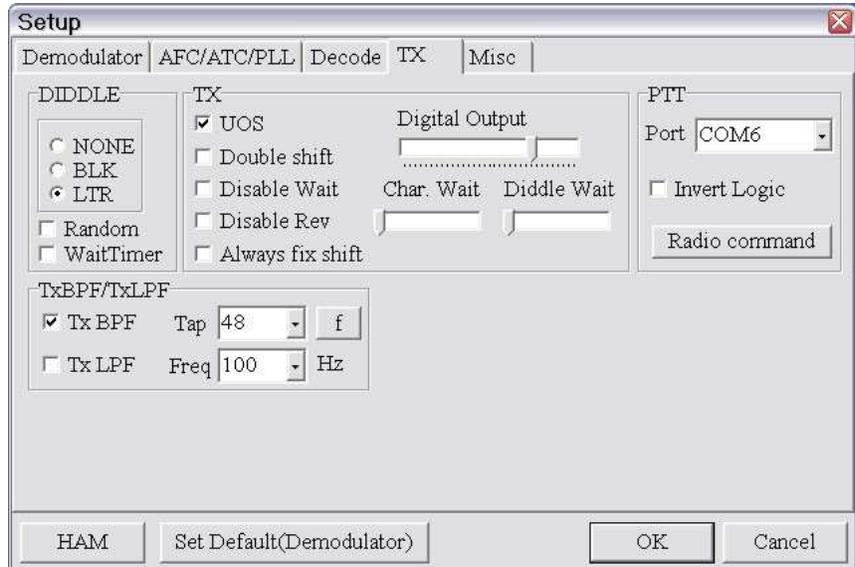
1. Click **Settings | General Setup ...**



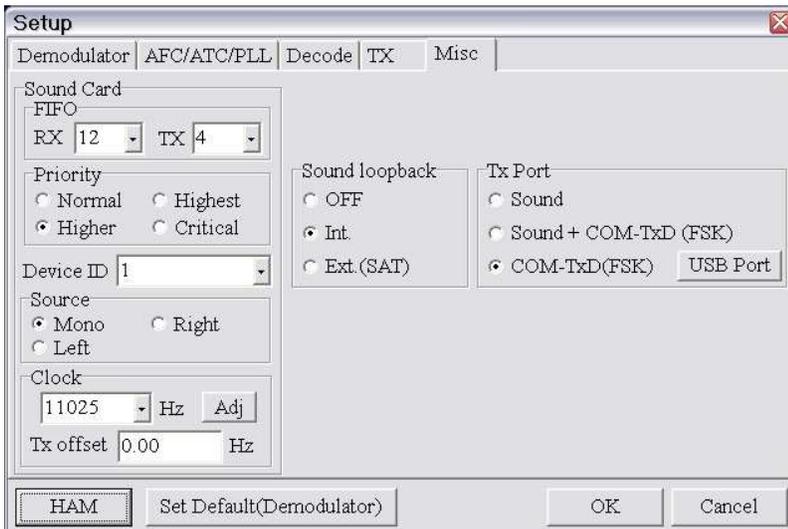
2. If you intend to use FSK with MMTTY check the "MMTTY FSK Mode"
3. Set the COM Port in "PTT Control Setup" to the virtual port you selected for CW and PTT in Router.
4. Set "PTT Using" to RTS
5. Set "Hard Key CW Using" to DTR
6. Set the COM Port in "Rig Control Setup" to the port you selected for Radio Control in Router. Select your radio and set the data communications (Rig Baud) as required by your radio.
7. Select "Line (microHAM CODEC)" for the Soundcard input and "Headset Earphone (microHAM CODEC)" for the Soundcard Output. These settings are used for BPSK/QPSK and Packet.
8. Click OK to save the settings

## MMTTY (RTTY) setup:

1. Select RTTY mode on Hamscope's main screen.
2. Click the **Options** button.
3. Select the **TX Tab ...**
4. Select the Port you configured for FSK on Router's Ports Tab in the PTT box.
5. Select the SoundCard tab



6. Set Reception to Line (microHAM CODEC) and set Transmission to "Headset Earphone (microHAM CODEC)."



7. Choose the **Misc Tab.**
8. Select Source **Mono**
9. Set Clock **11025**
10. Select COM-TxD (FSK) for the TX Port.
11. If you want the option to switch between AFSK and FSK, select Sound + COM-TxD (FSK)



12. Click **USB port** button and choose **C: Limiting speed**
13. Click "OK" to return to the Misc tab.
14. Click "OK" to save the settings and return to Hamscope's main screen.