MK2R/MK2R+ and Win-Test setup
"Classic" SO2R

Router setup:

Note: **The specific port numbers are not important. The key is consistency - the same port number must be used for a specific function in both Router and Win-Test.**

1. Assign virtual COM ports for control of both radios. Click the Set button for each radio and select the radio on that port from the drop down box. Uncheck Disable router queries box.

2. Assign ports for FSK and check the PTT box.

3. Assign a port for WinKey. Select the appropriate PTT output and QSK or PTT operation for each radio on Router's PTT tab.

4. Select the audio switching for EACH radio on the **Audio Switching** tab.
   ACmA or CmCmA is recommended for **Voice** Modes.

5. Check **Steer WinKey CW/PTT**

5. Select "Classic auto control" on the **SO2R** tab and assign the following controls:
- **Pin 14** for **TX focus** - Check **Invert**
- **Pin 4** for **RX focus**
- **Pin 5** for **Stereo Headphones**

These settings allow Win-Test to control both transmit and receive focus automatically.
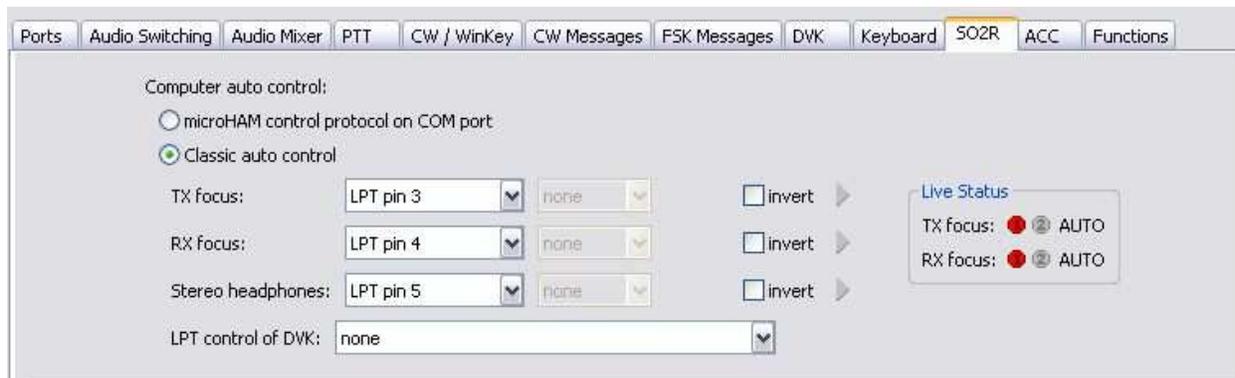
6. If desired, MK2R/MK2R+ can provide "Band Data" derived from the radio operating frequencies for use with bandpass filters or antenna switching. Set pins 6-9 to **R1 TX Band data output** and pins 10-13 to **R2 TX Band data output** on the ACC tab. The "Band Data" number can be configured in **Router | Options | Band Map.**
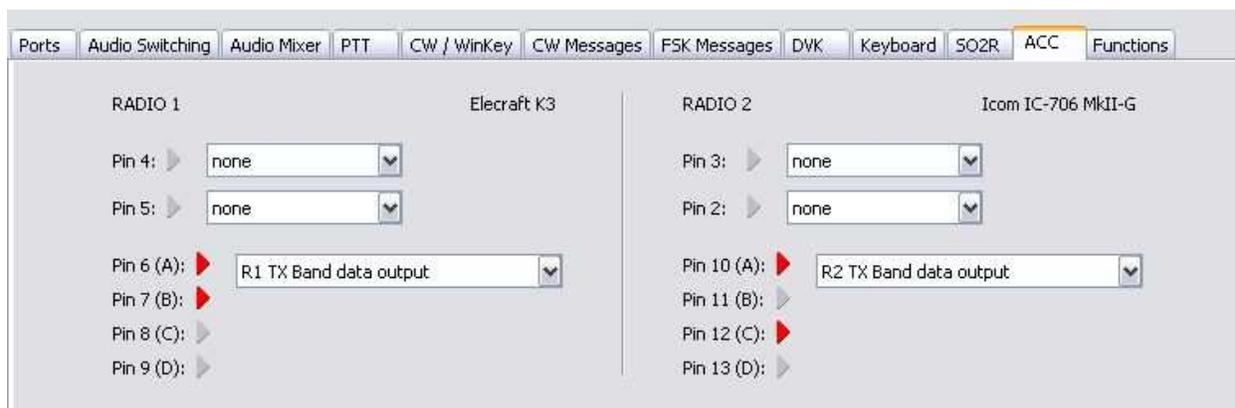
7. Save the settings to a preset by selecting menu **Preset | Save as**. Choose a position and name it Win-Test.

Win-Test setup:

1. Click **Options | Configure Interfaces** ....
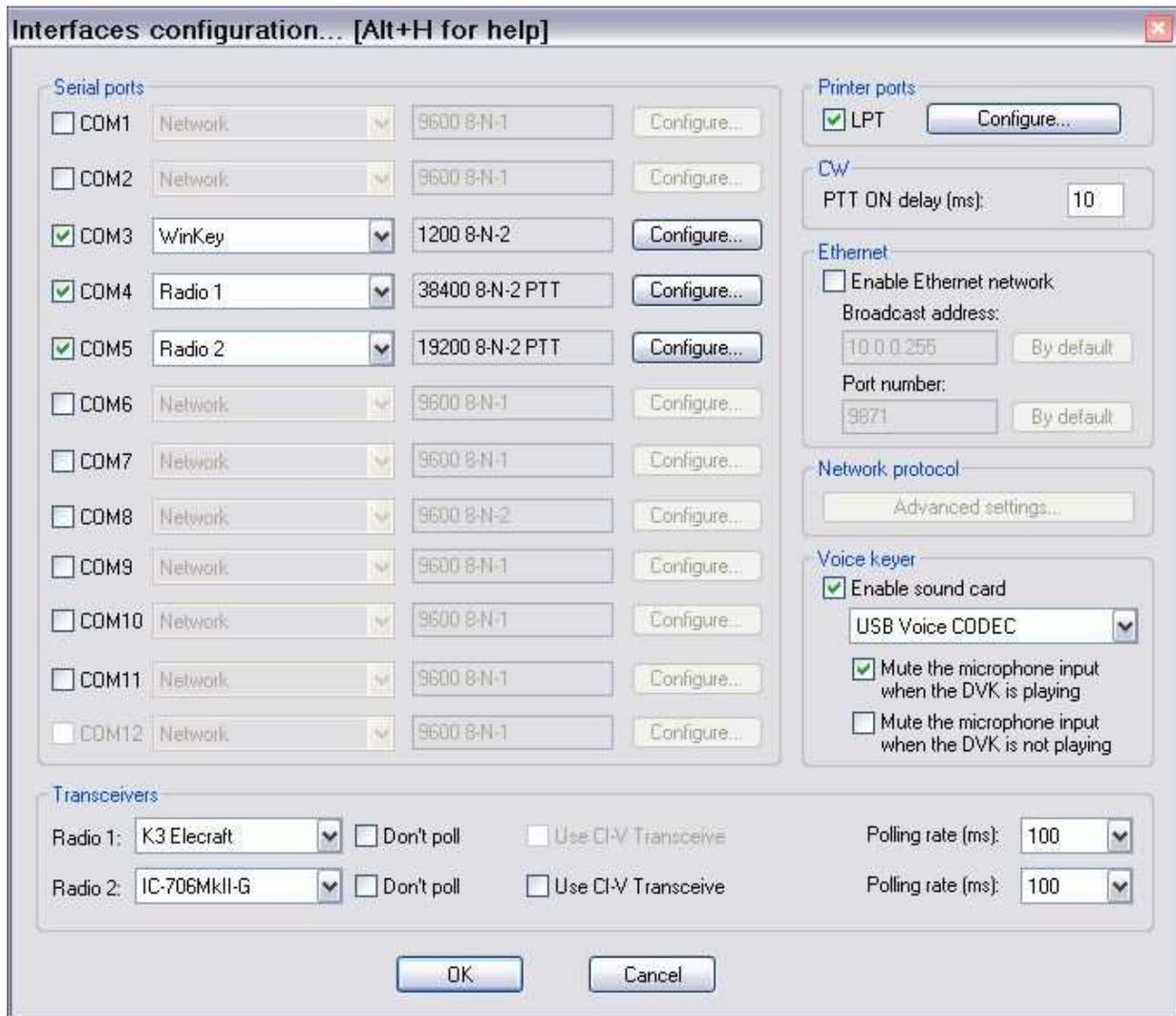
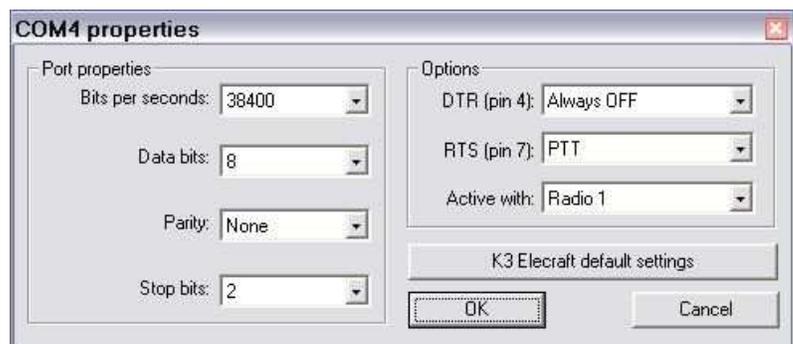**2.** Check "Enable sound card" and set the sound card to USB Voice CODEC.

3. Check "Mute microphone input when DVK is playing"

4. Check the port you chose for Radio 1 CAT and set the interface to Radio 1.

5. Click "Configure" and set the port properties for your transceiver.

6. Set DTR to Always Off, and RTS to PTT.

7. Set Active with: Radio 1

COM5 properties

Port properties
- Bits per seconds: 38400
- Data bits: 8
- Parity: None
- Stop bits: 2

Options
- DTR (pin 4): Always OFF
- RTS (pin 7): PTT
- Active with: Radio 2

K3 Elecraft default settings

OK Cancel

8. Check the port you chose for Radio 2 CAT and set the interface to Radio 2.

9. Click "Configure" and set the port properties for your transceiver.
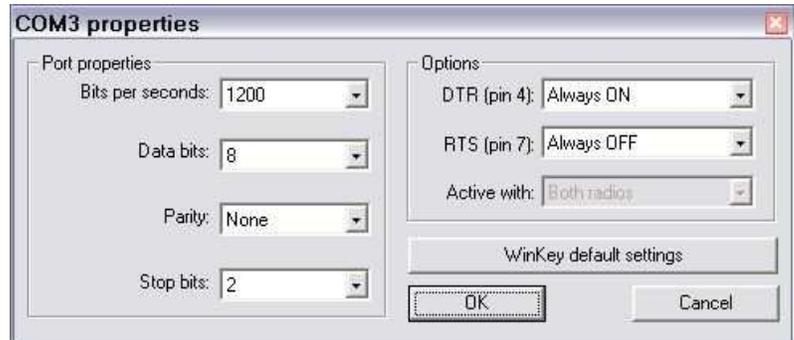
10. Set DTR to Always Off, and RTS to PTT.

11. Set Active with: Radio 2

12. Check the port you set for WinKey and set the interface to WinKey

13. Click "configure" and set the port properties to 1200, 8N2.

14. Set Options to: DTR= Always On and RTS = Always Off

COM3 properties

Port properties
- Bits per seconds: 1200
- Data bits: 8
- Parity: None
- Stop bits: 2

Options
- DTR (pin 4): Always ON
- RTS (pin 7): Always OFF
- Active with: Both radios

WinKey default settings

OK Cancel

LPT1 properties [Alt+H f...

Port address (hex): 378

- [ ] DVK (pin 3, 4, 5, 6)
- [ ] Extended DVK (pin 7 and 8)
- [ ] DVK/STOP (pin 2)
- [ ] Band data (pin 2, 7, 8, 9)
  - (•) Radio 1
  - ( ) Radio 2
- [x] Active radio (pin 14)
- [x] Stereo RX audio
  - ( ) Pin 9
  - (•) Pin 5
- [x] Headphones Control (pin 4)
- [ ] CW and PTT (pin 17 and 16)

OK Cancel

15. Check the printer port.

16. Click "configure"

17. Set the Port address.

18. Check **Active Radio (pin 14)**

19. Check **Stereo RX audio** and select Pin 5

**20.** Check **Headphones Control (pin 4)**

RTTY/Digital setup:

RTTY operation with microKEYER II and Win-Test requires the use of MMTTY.

1. Install MMTTY in two separate directories on your computer.

2. Select **Options | RTTY Configuration**

3. Check "Run MMTTY"

4. Enter the path to to each instance MMTTY

5. Make any other selections based on your operating preferences.

6. Start/open MMTTY from the path specified for Radio 1.

7. Select **Option (O) | Setup (O)** on the MMTTY Spectrum/waterfall window.

8. Select the TX tab

9. Set "PTT & FSK" to the port you selected for Radio FSK in Router
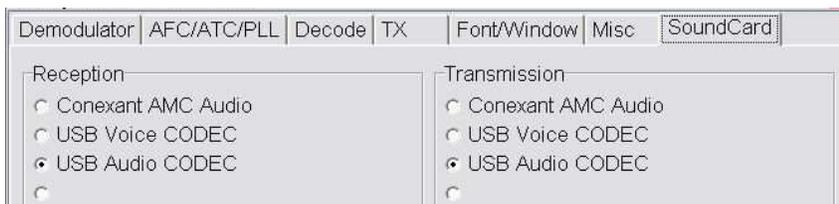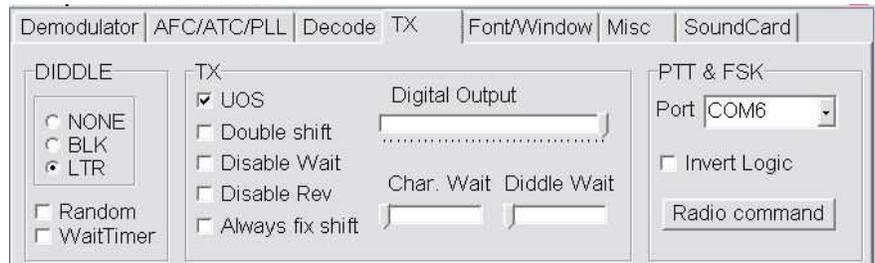
10. Select the SoundCard tab and set Transmission and Reception to use "USB Audio CODEC"
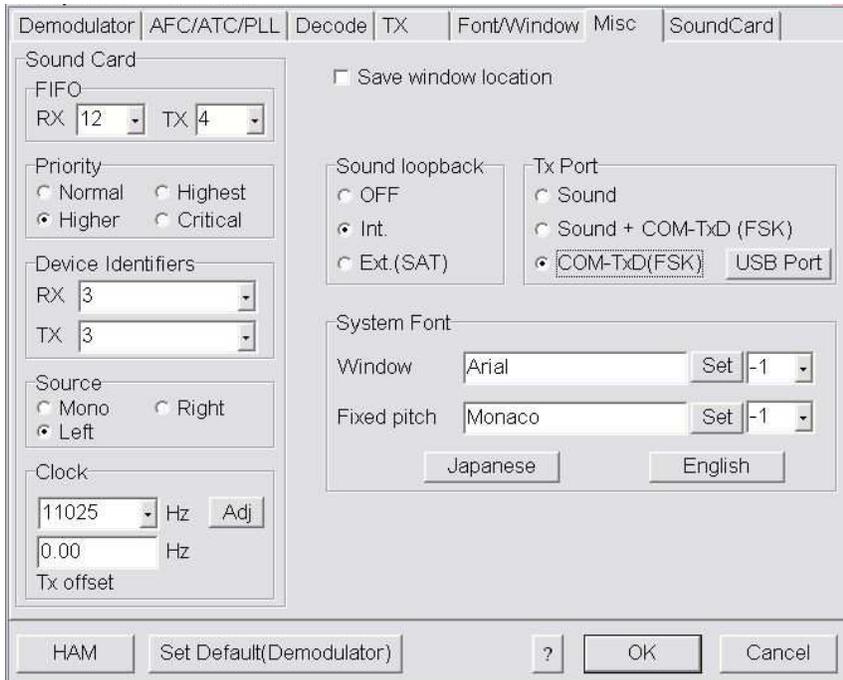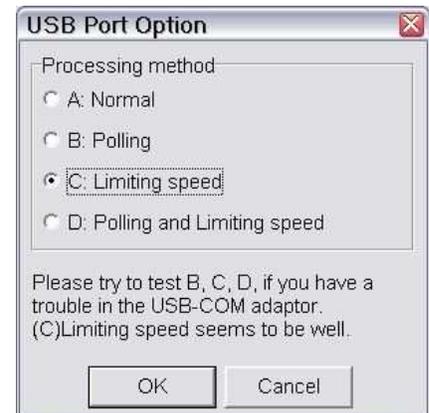
11. Select the **Misc** tab.

12. Select **Source = Left**

13. Select clock **11025**

14. Set Tx Port to COM-TxD(FSK)

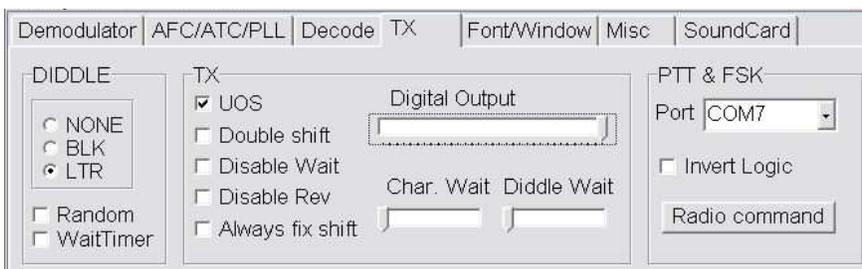**15.** Click the **USB Port** button

16. choose **C: Limiting speed** and click OK

17. Start/open MMTTY from the path specified for Radio 2.

18. Select **Option (O) | Setup (O)** on the MMTTY Spectrum/waterfall window.
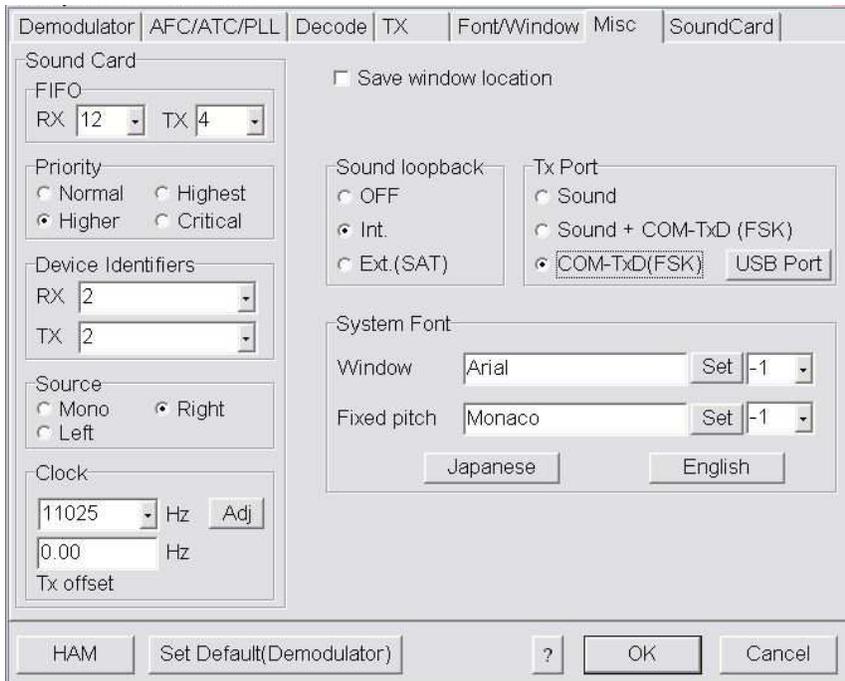
19. Select the TX tab.

20. Set "PTT & FSK" to the port you selected for Radio 2 FSK in Router

21. Select the SoundCard tab and set Transmission and Reception to use "USB Audio CODEC"

22. Select the **Misc** tab.

23. Select **Source = Right**

24. Select clock **11025**

25. Set Tx Port to COM-TxD(FSK)

26. Click the **USB Port** button

27. choose **C: Limiting speed** and click OK