

February 11, 2018 – K3CT

Radio Firmware 1.05

IC-7610 Radio Control, Internal CW, Voice recording/playback, and RTTY FSK Configuration, and Spectrum Window with only the USB to computer connection.

Icom USB1 (A) – used for radio control & CW (COM8)

Icom USB1(B) – used for RTTY FSK & PTT (COM6)

Radio SET menu

Connectors

USB SEND/KEYING

USB Send = USB1(B) RTS

USB Keying CW = USB1(A) DTR

USB Keying (RTTY) = USB1(B) DTR

CI-V

CI-V Transceive = OFF

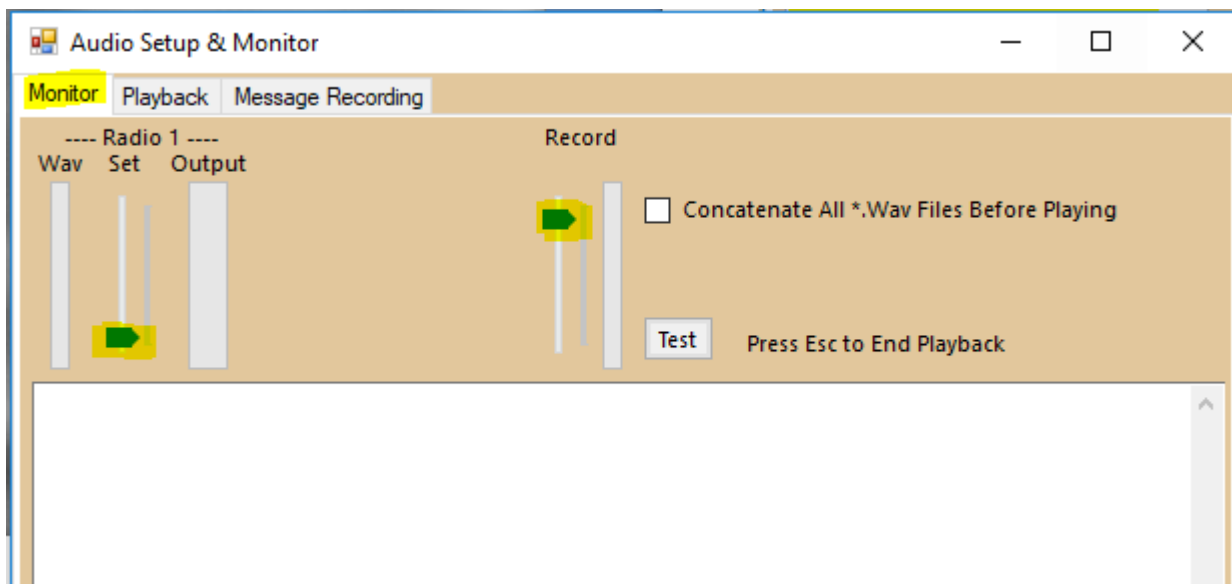
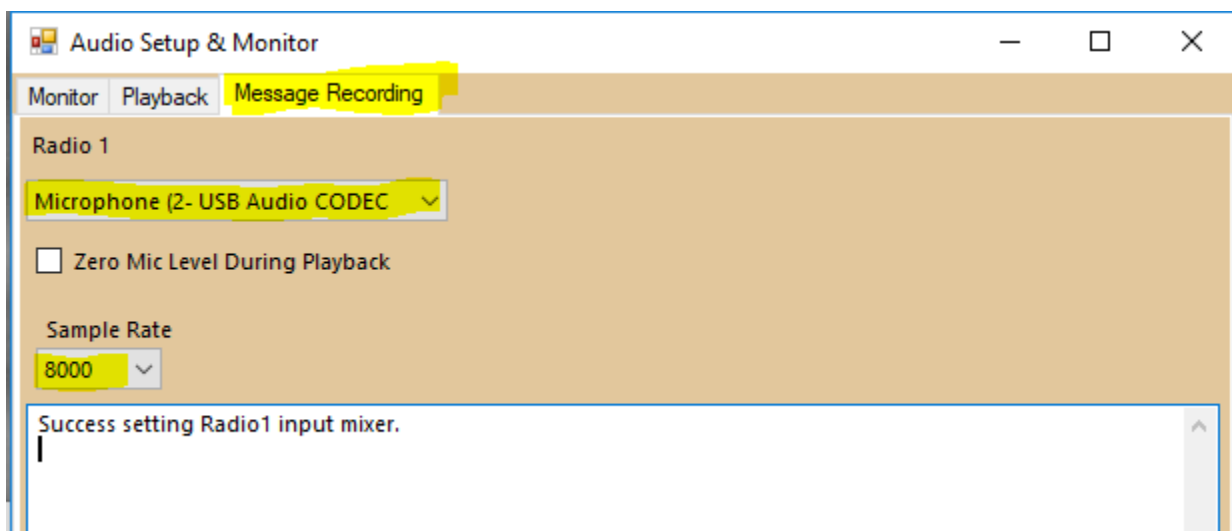
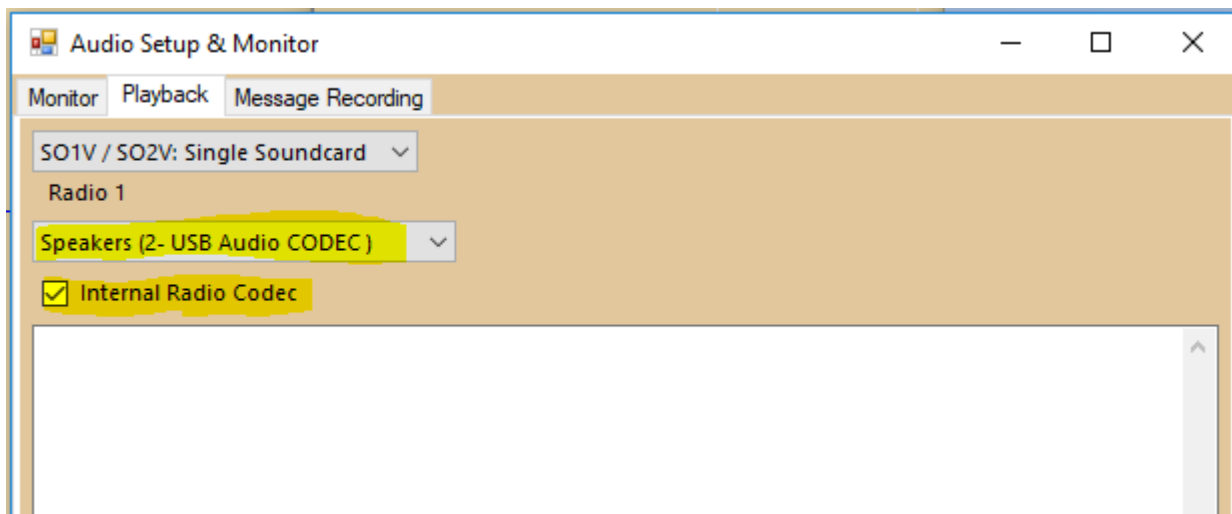
CI-V USB Port = Unlink from [REMOTE]

CI-V USB Baud Rate = 115200 (needed for N1MM Logger+ Spectrum Display)

CI-V USB Echo Back = OFF (Turn ON if using DX4Win)

For CW set BK-IN to SEMI or FULL

Logger+ Audio Config (for SSB voice message recording and playback)



The radio control needs to be configured, see below.


Ctrl+Shift+F4 – starts the recording of the MyCall message.

ESC – ends the recording

F4 plays the voice message

Pay attention to the mode (Run/S&P) when recording the CQ message

Configurer

 Configurer

Hardware

Function Keys

Digital Modes

Other

Winkey

Mode Control

Antennas

Score Reporting

Broadcast Data

Port	Radio	Digi	CW/Other	Details
None	None	<input type="checkbox"/>	<input type="checkbox"/>	Set
COM8	IC-7610	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Set
None	None	<input type="checkbox"/>	<input type="checkbox"/>	Set
None	None	<input type="checkbox"/>	<input type="checkbox"/>	Set
None	None	<input type="checkbox"/>	<input type="checkbox"/>	Set
None	None	<input type="checkbox"/>	<input type="checkbox"/>	Set
None	None	<input type="checkbox"/>	<input type="checkbox"/>	Set
None	None	<input type="checkbox"/>	<input type="checkbox"/>	Set
LPT1			<input type="checkbox"/>	Set
LPT2			<input type="checkbox"/>	Set
LPT3			<input type="checkbox"/>	Set

☒ SO1V ☐ SO2V ☐ SO2R

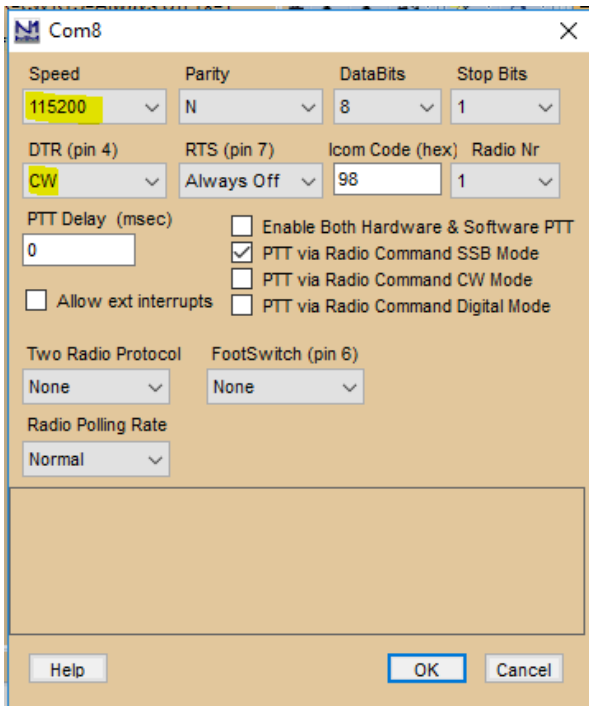
115200,N,8,1,DTR=CW,RTS=Always Off,Tx=1

OK

Cancel

Help

Radio COM port (USB1(A) = COM8) Send CW with internal CW generation

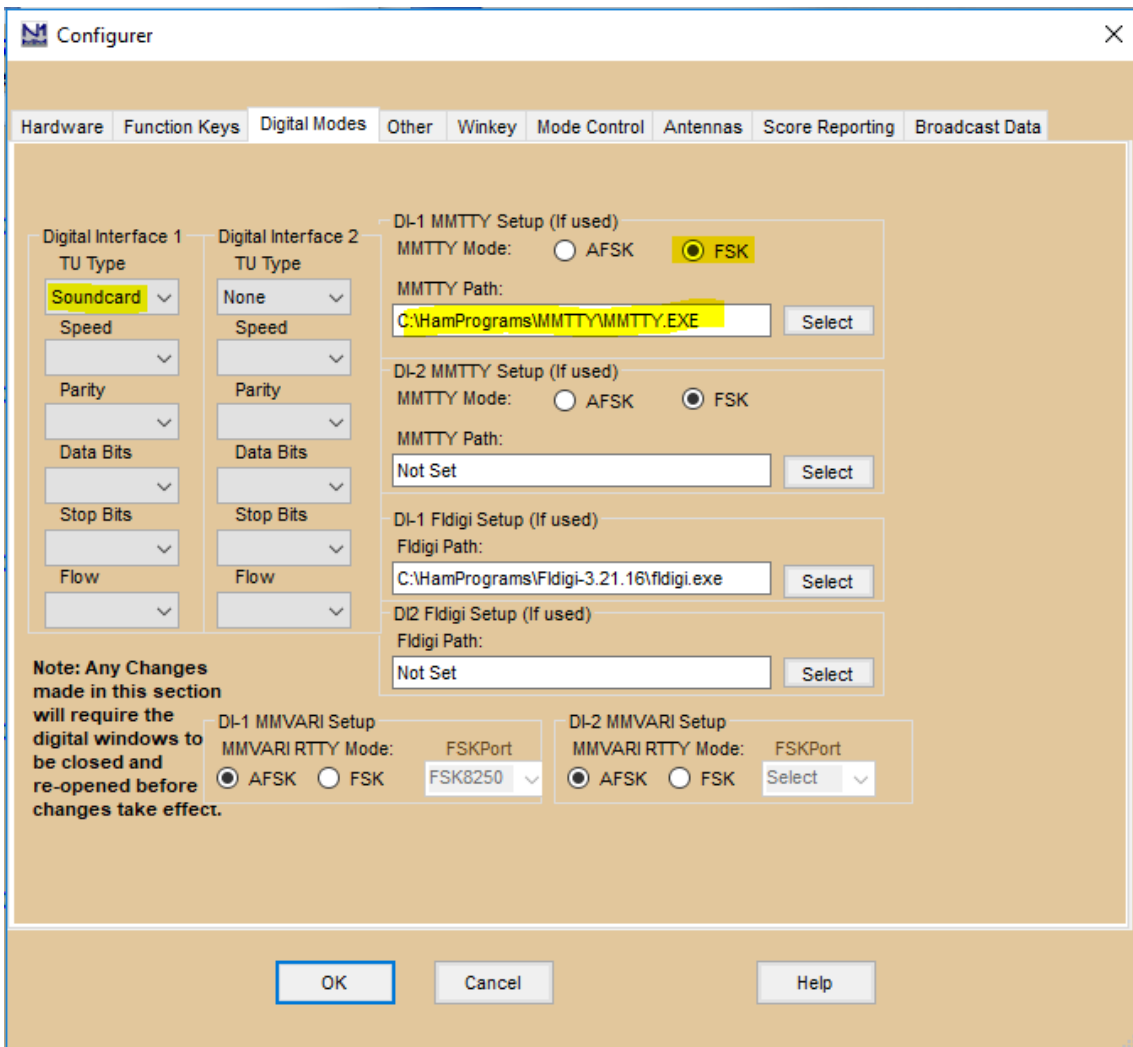


The screenshot shows the 'Com8' configuration window. It has a title bar with a close button. The window contains several settings:

- Speed:** 115200 (highlighted)
- Parity:** N
- Data Bits:** 8
- Stop Bits:** 1
- DTR (pin 4):** CW (highlighted)
- RTS (pin 7):** Always Off
- Icom Code (hex):** 98
- Radio Nr:** 1
- PTT Delay (msec):** 0
- Enable Both Hardware & Software PTT:** ☐
- PTT via Radio Command SSB Mode:** ☒
- PTT via Radio Command CW Mode:** ☐
- PTT via Radio Command Digital Mode:** ☐
- Allow ext interrupts:** ☐
- Two Radio Protocol:** None
- FootSwitch (pin 6):** None
- Radio Polling Rate:** Normal

At the bottom, there are buttons for 'Help', 'OK', and 'Cancel'.

Digital Modes tab (FSK RTTY)



The screenshot shows the 'Configurer' window with the 'Digital Modes' tab selected. The window has a title bar with a close button. The 'Digital Modes' tab is active, showing various settings for digital interfaces and modes.

Digital Interface 1:

- TU Type:** Soundcard (highlighted)
- Speed:** (empty)
- Parity:** (empty)
- Data Bits:** (empty)
- Stop Bits:** (empty)
- Flow:** (empty)

Digital Interface 2:

- TU Type:** None
- Speed:** (empty)
- Parity:** (empty)
- Data Bits:** (empty)
- Stop Bits:** (empty)
- Flow:** (empty)

DI-1 MMTTY Setup (If used):

- MMTTY Mode:** ☐ AFSK ☒ FSK (highlighted)
- MMTTY Path:** C:\HamPrograms\MMTTY\MMTTY.EXE (highlighted) [Select]

DI-2 MMTTY Setup (If used):

- MMTTY Mode:** ☐ AFSK ☒ FSK
- MMTTY Path:** Not Set [Select]

DI-1 Fldigi Setup (If used):

- Fldigi Path:** C:\HamPrograms\Fldigi-3.21.16\fldigi.exe [Select]

DI2 Fldigi Setup (If used):

- Fldigi Path:** Not Set [Select]

Note: Any Changes made in this section will require the digital windows to be closed and re-opened before changes take effect.

DI-1 MMVARI Setup:

- MMVARI RTTY Mode:** ☒ AFSK ☐ FSK
- FSKPort:** FSK8250 (highlighted) [v]

DI-2 MMVARI Setup:

- MMVARI RTTY Mode:** ☒ AFSK ☐ FSK
- FSKPort:** Select [v]

At the bottom, there are buttons for 'OK', 'Cancel', and 'Help'.

Mode Control tab

Configurer

Hardware Function Keys Digital Modes Other Winkey **Mode Control** Antennas Score Reporting Broadcast Data

Mode recorded in log

☒ Use radio mode (default)

☐ Follow band plan

☐ Use contest mode or bandplan

☐ Use contest or radio mode

☐ Always: RTTY

Mode sent to radio

	Radio 1 / VFOA	Radio 2 / VFOB
Mode	RTTY	AFSK
RTTY to	RTTY	AFSK
PSK	AFSK-R	AFSK-R

☒ Always use packet spot mode

MMTTY Options

Demodulator | AFC/ATC/PLL | Decode | **TX** | Font/Window | Misc | SoundCard

DIDDLE

- ☐ NONE
☐ BLK
☒ LTR

- ☐ Random
☐ WaitTimer

TX

- ☒ UOS
☐ Double shift
☐ Disable Wait
☐ Disable Rev
☐ Always fix shift

Digital Output

Char. Wait

Diddle Wait

PTT & FSK

Port **EXTFSK64**

- ☐ Invert Logic

TxBPF/TxLPF

- ☒ Tx BPF Tap
☐ Tx LPF Freq Hz

Setup Ver1.68A

Demodulator | AFC/ATC/PLL | Decode | TX | Font/Window | **Misc** | SoundCard

Sound Card

FIFO
RX 12 TX 4

Priority
☐ Normal ☐ Highest
☒ Higher ☐ Critical

Device Identifiers
RX 0 TX 0

Source
☒ Mono ☐ Right
☐ Left

Clock
11025 Hz Adj
0.00 Hz
Tx offset

Sound loopback
☒ OFF
☐ Int.
☐ Ext.(SAT)

Tx Port
☐ Sound
☐ Sound + COM-TxD (FSK)
☒ COM-TxD(FSK) USB Port

System Font
Window Times New Roman Set 0
Fixed pitch Courier New Set 0
Japanese English

HAM Set Default(Demodulator) ? OK Cancel

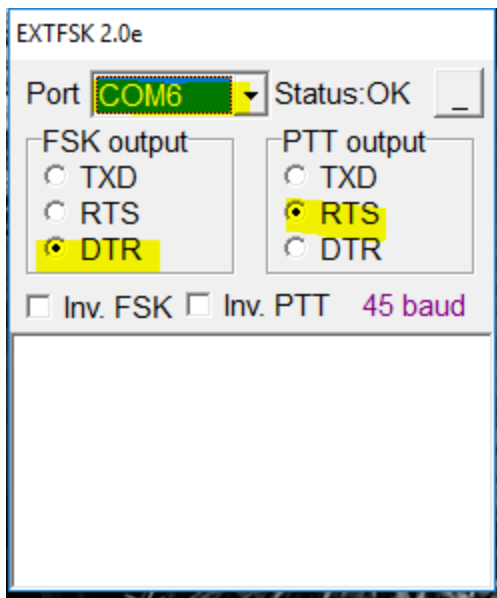
Setup Ver1.68A

Demodulator | AFC/ATC/PLL | Decode | TX | Font/Window | Misc | **SoundCard**

Reception
☒ Microphone (2- USB Audio CODEC)
☐ DAY RESERVED AUDIO TX (FL-16)

Transmission
☒ Speakers (2- USB Audio CODEC)
☐ DAY RESERVED AUDIO RX (FL-16)

The EXTFSK window will be on the Windows Task bar, restore it.



The Status should be "OK". Click the "_" to place it on the Task bar again.

Spectrum Window

Tools, Spectrum Display

Use the radio <MENU2>, REF button to adjust the noise floor of the display.

Place the mouse in the Spectrum Display window and roll it to adjust the threshold (dotted line).

