Yaesu FT-991 FLDIGI Digital Configuration Ron Standley WR70N 11-14-2016

This configuration reflects my implementation of the Yaesu FT-991 transceiver with the digital applications FLDIGI and EasyPal. This configuration has been tested with these two applications only, other CAT applications may, and probably will, require changes.

This configuration applies to FM operation, and has only been tested on the 2M/440 bands.

Your mileage may vary.







HARDWARE CONFIGURATION

Hardware Used

Yaesu FT-991 transceiver

- 11" MacBook Air (late 2012 version, 1.3ghz Intel Core i5, 4gb memory, 128gb SSD)
- USB A-male to B-male cable

INPU

Audio Level From FT-991 To PC

FT-991 menu #075 controls the audio level to the PC.

The PC Microphone level adjustment controls the input audio level into the PC.

Either/both control will adjust the final level of audio signal at FLDIGI.

Audio Level From The PC to FT-991

The level of audio from the PC to FT-991 can be controlled by the PC speaker control, lower right PC taskbar.

Software Used

- Boot Camp
- Windows 10
- FLDIGI, FLAMP, FLMSG, FLWRAP

FT-991 Menu Settings	
#029 BAUD RATE	38400
#031 CAT RATE	38400
#032 CAT TOT	10ms
#075 FM OUT LEVEL	80

INPUT and OUTPUT AUDIO LEVEL ADJUSTMENT

	Recording Sounds Communications	General Listen Levels Advanced	
].	Headset Microphone Cirrus Logic C54208 (AB 113) Not plugged in	Microphone 50	
4	Internal Microphone Cirrus Logic CS4208 (AB 113) Ready		
	Microphone USB Audio CODEC Default Device	1	
Configu	Set Default V Properties		

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FLDIGI CONFIGURATION

Configure \rightarrow Rig control \rightarrow Rig \rightarrow RigCAT

Settings as shown in the figure. In addition, modify or select a FT-991 rig xml file (Ex. FT-991.xml, available on the web) containing the following changes to the PTTON and PTTOFF commands.

Fldigi configuration	- 🗆 X						
Operator UI Waterfall Modems Rig Audio ID Misc	Web Autostart IO PSM						
firig RigCAT Hamlib XML-RPC Hardware PTT							
⊘Use Rig0	TAT						
Rig description file: ft-991-WR7ON.xml Open	Device: COM3						
Retries Retry interval (ms) 2 500	Baud rate: 38400						
Write delay (ms) Init delay (ms) 5 0	Stopbits 🔴 2						
○ Commands are echoed	CAT command for PTT						
⊖Toggle RTS for PTT	⊖Toggle DTR for PTT						
□RTS +12 v	ODTR +12 v						
	○VSP Enable						
	Initialize						
Restore defaults	Save Close						

The Device: com port is the Enhanced port.

Configure \rightarrow Rig control \rightarrow Audio \rightarrow Devices

PortAudio checked

•••

Select the YAESU enhanced USB Audio CODEC for Capture and Playback.

			1	1				[
- F					Audio	ID	Misc	Web	Autostart	IO	PSM		
Devices	Settir	ngs Right	t channel	Wav									
		OSS							De	evice:		T	
					57			Yae	su USE	3 Co	odec		
				Ca	pture:	Micro	phone	(USB A	udio CODEC	:)		\$	
	Ø	PortAudio		-	(-							
				Play	/back:	Spea	kers (L	ISB Aud	lio CODEC)	8		 \$	
							string						
						erver	suing						
	0	File I/O on	lv.										
		1 10 1/0 01											
		e defaults										Close	1

Configure \rightarrow Rig control \rightarrow ID \rightarrow Video

Transmit video text checked Text: your call, uppercase Chars/row: number of characters in your call

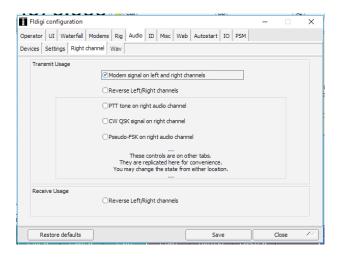
Video Preamble ID		
○Transmit mode ID		Video ID modes
✓Transmit video text	: WR70N	
○Use small font	Chars/Row: 5	
🗍 500 Hz limit		
✓Mode width limit		

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Configure \rightarrow Rig control \rightarrow Audio \rightarrow Right channel

Modem signal on left and right channels checked



Configure \rightarrow Modems \rightarrow Modems \rightarrow MT63

The following fields are checked.

8 bit extended characters Long receive integration Transmit lower start tone Transmit upper start tone 2 second tone duration

Fldigi configuration		1001		×
Operator UI Waterfall Mo CW Dom Feld FSQ IFKP				
	Ø8-bit extended cha			
	Transmit lower star Transmit upper star Transmit upper star	rt tone n (secs)		
Restore defaults		Save	Close	<u>~</u>

Configure \rightarrow Ids \rightarrow ID \rightarrow RsID

Pre-signal tone set to 2.0 seconds

Fl	digi con	figuration											-		×
Opera	tor UI	Waterfall	Modems	Rig	Audio	ID	Misc	Web	Autost	art 1		SM			
RsID	Video	CW													
	Reed-So	olomon ID (R	.x)												
		eceive mode fy only	es		display	y cha	racteri	tion me: stics ar nfigure	ssage co e configu dialog.	ntents ured o	s and n the				
	OSear	ches passba	and			Disable alert dialog									
	☑Mark prev freq/mode														
	Disa	bles detecto	r				Dis	able fre	eq chang	e					
	Mediur	n []•	Allow err			5)		Sq	uelch (open (se	c)		
	Pre-Sign	ial Tone	2.0 Seconds	ÞÞ	Þ			Reed-S	iolomon I	1	·	nit moc nt ID	les		
	Dester	e defaults								Save				Close	1-