

ELAD Application Notes AN-002 rev 1.0 Setting FDM-SW2 with external programs: CW Skimmer, FLDIGI

Table of contents:

In	trodu	ictior	۱	2
1	FDI	M-SM	/2 with CW Skimmer	2
	1.1	Req	uirements	2
	1.2	Soft	ware Installation	2
	1.	2.1	VSPE VIRTUAL SERIAL PORT EMULATION installation2	
	1.	2.2	FDM-SW2 CAT operation	
	1.	2.3	CW Skimmer CAT Connection4	
	1.	2.4	Virtual Audio Cable (VAC) Installation6	
	1.	2.5	FDM-SW2 Audio IF Installation6	
	1.	2.6	CW Skimmer Audio7	
	1.	2.7	Setting CW Skimmer as a server cluster10	
	1.	2.8	Setting FDM-SW2 software to view DX Cluster spots10	
2	FDI	M-SW	/2 and FLDIGI installation	14
	2.1	Req	uirements	14
	2.2	Soft	ware Installation	14
	2.	2.1	VSPE VIRTUAL SERIAL PORT EMULATION installation14	
	2.	2.2	FDM-SW2 CAT operation	
	2.	2.3	FLDIGI Connection	
	2.	2.4	FDM-SW2 Audio connection for FLDIGI16	
	2.2	2.5	FLDIGI Audio connection	

Introduction

This application note describe how to setup FDM-SW2 software in connection with CWSkimmer and FLDIGI for decoding CW Spots and messages in digital modes.

1 FDM-SW2 with CW Skimmer

1.1 Requirements

- VSPE Vistual serial port emulator from Eterlogic <u>http://www.eterlogic.com/Products.VSPE.html</u> Freeware for 32 bit systems, shareware for 64 bit operating systems.
- FDM-SW2 running with FDM-S1, FDM-S2, FDM-DUO Hardware or also reading files.
- CW Skimmer software by Afreet Software, Inc. <u>http://www.dxatlas.com/CwSkimmer/</u>

1.2 Software Installation

1.2.1 VSPE VIRTUAL SERIAL PORT EMULATION installation

The VSPE must be installed and configured before running the applications need to use the COM ports that we are going to create, because some of them enumerate the available ports only when they are launched.

This is the screen of the emulator when opening:



To create a link between two programs is necessary to create 2 COM ports so each program can be configured with one of these ports, while these ports are connected together. The method to create is this:

First create a CONNECTOR type device (add new device-> Connector -> Choose com number) for example COM10;

then create a SPLITTER type device linked to COM10 so add new device-> Splitter -> Virtual port = COM11 linked to data source COM10 then finish:

Specify device characteristics	×
Virtual serial port COM11	Data source serial port COM10 Settings Read only Redirect modem registers Initial modem registers state Initial modem registers
< <u>B</u> ack	c Finish Cancel Help

final result like this:

💘 Virtual Serial Ports Emulator (Emulation started)		
File View Language Emulation Device Help		
🖻 🖻 🕨 🕨 🎠 🐂 🛼	0	*
Title	Device	Status
COM10	Connector	OK
COM10 => COM11	Splitter	Ready
Ready		http://www.eterlogic.com

1.2.2 FDM-SW2 CAT operation

Goto SET->ADVANCED

And select CAT MODE on VRX

tup											
uning Step	External HW	Tuning	Audio	Graphics	Demod Settings	Advanced	TMate/TMate2	Station Memory	Recording	Server	About
Device Co	onfiguration	ExtIOmc_	_ELAD_F	DMS2_384k	v3_14.dll FDMS2	- 122.88MHz	, data acquisitior	n frequency 384k	Hz, 307.2kHz	bandwid	th (I 🔻
Show Displa	HW Setup Form y aliasing freq	n At Start uencies	up	Auto-start (ADC DC Off:	demodulation set Correction				Bypass Mo (Exclude P	de reselecto	or)
CAT	CAT M	Node VF	x)		Omnirig	able Omnirig Cont	rol			
RX RX RX RX	1 Serial Port 2 Serial Port 3 Serial Port 4 Serial Port	COM4 COM10 COM1 COM1	• • •	Baudrate Baudrate Baudrate Baudrate	38400 ▼ 38400 ▼ 4800 ▼ 4800 ▼	Pollin	g Time (ms)	20			
Panadap	ter ble Panadapte	r		Load	Config. Save	e Config.		Downconverte	er wnconverter	Load	Config.
IF Tune	AM (Hz)	8.	215.000	<u>^</u> √ S	wapI/Q Level 0	Offset (dB)	28,0 👘			Save	Config.
IF Tune	CW (Hz)	8.	215.000	AOR	AR8600						
IF Tune	LSB (Hz)	8.	215.000	× E	nable Control			Frequency SI	nift (Hz)	80.00	0.000
IF Tune	USB (Hz)	8.	215.000	Seria	l Port E	Baudrate		Level Offset	(dB)		0,0
IF Tune IF Tune	FM (Hz) WFM (Hz)	8.	215.000 215.000	COM	11 👻	9600 👻]	Swap I/C	1		
								ОК	Арр	oly (Cance

Then enable the DVy with the COM part COM10 (boudrate can be indifferent)

1.2.3 CW Skimmer CAT Connection

Launch CW Skimmer program and open the settings panel



Open the CAT TAB	Omni-Rig Setti	ngs	X	l
Settings 🛛	RIG 1 RIG 2	About		
Radio Audio CAT Minc. Operator Teihet Calls CAT Interface C Use Radio 1 Elad-DUD C Use Radio 2 Elad-DUD	Rig type Port	FT-897	•	
Configure	Baud rate	38400	•	
	Data bits	8	•	
	Parity	None	•	
	Stop bits	1	•	
	RTS	High	•	
	DTR	Low	•	
OK Cancel	Poll int., ms	200	\$	
	Timeout, ms	1000	\$	
Click on C		<u>1</u> K	<u>C</u> ancel	onfigure

You will obtain the synchronization in frequency



1.2.4 Virtual Audio Cable (VAC) Installation

Virtual audio cables for audio playback and recording devices must be created. Configuration panels appear as shown below in the Sound and Line 1 properties panels exhibited below:

Eine FDM-DUO Audio Device Default Communications Device	Select the sample rate and bit depth to be used when running in shared mode.
Speakers VIA High Definition Audio Ready	Exclusive Mode
HD Audio HDMI out VIA High Definition Audio Ready	Allow applications to take exclusive control of this device Give exclusive mode applications priority
Virtual Audio Cable Ready	
Virtual Audio Cable Default Device	-
Configure Set Default	Properties Restore Defaults

👻 Sound	😨 🖗 Line 1.48KHz Properties
Playback Recording Sounds Communications	General Listen Levels Advanced
Select a recording device below to modify its settings:	Default Format
VIA High Definition Audio Currently unavailable	Select the sample rate and bit depth to be used when running in shared mode. 2 channel, 16 bit, 48000 Hz (DVD Quality)
Stereo Mix VIA High Definition Audio Ready	Exclusive Mode
Virtual Audio Cable Ready	Give exclusive mode applications priority
Virtual Audio Cable Ready	
Virtual Audio Cable Ready	-
Configure Set Default V Propertie	es Restore Defaults
OK Cancel App	iy OK Cancel Apply

1.2.5 FDM-SW2 Audio IF Installation

In the Setup window Audio Tab check VRX1 Enable AUX Out, Line 1 (Virtual Audio Cable) and Mode IF 48 kHz to feed CW skimmer software in IF mode (*IF-SOftrock*)

x

Funing Step	External HW	Tuning	Audio	Graphics	Demod Settings	Advanced	TMate/TM	Mate2 9	Station Memory	Recording	Server	Abo
AGC Sett	ings											
Fast Atta	ack (ms)	1 ≑	Decay	/ (ms)	1.000 🌲							
Medium /	Attack (ms)	5 🌲	Decay	/ (ms)	2.000 ≑							
Slow Atta	ack (ms)	10 🌲	Decay	/ (ms)	4.000 🌲							
_ Audio Ou	+											
Us/	e Soundcard au	dio out				Volume Gai	n Multiplier	r 1	•			
Main C)utput Device	Speaker	c ()/LA Hi	ah Definiti	ic -	Muta O	n TV or CA	TKeved	status			
		opeaner	2 (11/11)	Burberniter		-			status			
AUX O	utput Device					or CAT	Spectrum Keyed stat	On Mute tus				
							-					
Chan	nel 1 Channel	.2										
VRX	1 📄 Enable A	UX Out	Output	t Device	Line 1 48KHz (Vir	tual Audio	Mode	Audio	-			
					[
VRX	Z 🔽 Enable A	UX Out	Output	t Device	Line 1 48KHz (Vir	tual Audio	Mode	IF 48kH	Hz 🔻			
	3 📝 Enable A	UX Out	Output	t Device	Line 2 (Virtual Au	dio Cable)	Mode	Audio	•			
VRX												
VRX												



OK

Apply

Cancel

7

1.2.6 CW Skimmer Audio

Open Settings in CW Skimmer and set Radio as Softrock-IF as shown below:

AN-001 1.0 03/2015

- 52

Settings	X	
Radio Audio CAT Mi Hardware Type C 3-kHz Radio C SoftRock	sc. Operator Telnet Calls LO Frequency, Hz 7024980 全	On Au
C SoftRock-IF	CW Pitch, Hz	device of Virt
C Perseus	⁵⁰⁰ _ . €	
 48 kHz 		
○ 96 kHz ○ 192 kHz		
	OK Cancel	

On Audio TAB the I/O					
device must be set as Line					
of Virtual Audio Cable $ ightarrow$					

settings											
Radio Audio CAT Misc. Operator Telnet Calls											
Soundcard Driver											
Signal I/O Device											
02 Line 1 (Virtual Audio Cable) 🔹											
Audio I/O Device											
07 Speakers (VIA High Definition A											
Audio Volume Channels											
C Left/Right = Q / I											
Shift Right Channel Data by											
C ·1 sample											
OK Cancel											

After proper CW Skimmer settings are established decoded CW signals display over a 48KHz frequency range.



NOTE: Check alignment of CW skimmer against the FDM-SW2 software display and select options as listed below:

- (1) If your preference for RX1 in FDM-SW2 is SSB (USB or LSB) set the Audio IF in CW Skimmer to 0 (zero)
- (2) If your preference for RX1 in FDM-SW2 is CW the value of pitch set in FDM-SW2 must be the same as the Audio IF in CW Skimmer

Refer to examples exhibited on page 8.

ELAD

AN-001 1.0 03/2015

Setup		Settings	X
Tuning Step Tuning	Audio Graphics Demod Settings Advanced TMate/TMate2 Station Memory Recording Server About	Radio Audio CAT Misc. Operator Telnet Ca	ls
BW Presets	CW Settings	- Hardwara Tupo	
BW (Hz) Enab	ed CW BFO Freq. (Hz) 500 🐡 Default Audio LP Filter (Hz) 2.500 👘	C 3-kHz Radio T024980 €	
200 🔽 300 🔽	USB/LSB Settings E Filter start frequency (Hz) region	SoftBock SoftBock-IF CW Pitch, Hz	
500 V	(DC-remove filter) De-emphasys time constant 50µs •	⊂ SDR-IQ 500 🚖	
1.000	Tuning frequency	C QS1R Audio IF, Hz	
1.250 2		C Mercury 500 €)
1.750 V 2.250 V	Filter start frequency	C Perseus	
2.500 V 2.750 V		Sampling Rate	
Select with "Z"and "X TMate function butte	*keys or ns RTTY Settings RTTY BFO Freq. (Hz) 1.900 (♠	C 96 kHz	
Add		C 192 kHz	
Sort			
Restore Defa		OK Cance	:
	OK Apply Cancel		

1.2.7 Setting CW Skimmer as a server cluster

Check Enable Telnet Server box in skimmer Settings

Settings 🛛 🛋
Radio Audio CAT Misc. Operator Telnet Calls
Port: 8000
Require Password
Password:
☐ Do not send callsigns without "CQ"
Allow SKIMMER commands
Only to/from this User:
OK Cancel

1.2.8 Setting FDM-SW2 software to view DX Cluster spots

Open the FDM-SW2 Station Memory panel. Set Station Memory Source to DX Cluster in the pull down menu. Set Station info display mode to If in frequency range and labels Orientation to Horizontal to show the spots on spectrum. Refer to example on page 9.

Setup	and the second second	and a second second		Internet States			
Tuning Step Tuning Audio Graphics De	emod Settings	s Advanced TMate/TM	Nate2 Station Me	mory Recording Server A	bout		
Default station memory directory	D:\MEMO	RIE				Change	
Station Memory Source DX Cluster	- Pe: [D:\MEMORIE\sked-a14.cs	v			Browse	
	File:	D:\MEMORIE\sked_a14 cs	v			Browse	h
Enable CW Skimmer Telnet Interface	RX Sy	ync with CW Skimmer	RX1 V			5101130	
File	Enabled	Color ^	Freq. (Hz)	Name	Mode	File	*
D:\MEMORIE\Broadcast.xml		ff87ceeb	301.500	CMP Campagnano	AM	D:\	
D:\MEMORIE\Utility.xml		ff87ceeb	702.000	CRI RADIO CHINA INT	AM	D:\	
D:\MEMORIE\STANAG.xml		ff87ceeb	1.170.000	Radio Capodistria	AM	D:\	
D:\MEMORIE\STANAG_2.xml		ff87ceeb	3.965.000	RFI	DRM	D:\	
D:\MEMORIE\NDB_NEst_Italy.xml		ff87ceeb	5.846.000	BBC DRM	DRM	D:\	
D:\MEMORIE\disturbi.xml		ff87ceeb 👻	6.095.000	KVC	AM	D:\	
Load File Unload File	Edit File	New File	6.145.000	DRM RUVR 1A	DRM	D:\	
			7.250.000	Radio Vaticana	AM	D:\	
DV0hates			7.355.000	BBC DRM	DRM	D:\	
DXCluster		-	7.370.000	DRM RUVR 2A	DRM	D:\	
Host 127.0.0.1	Max Contact	Number 10 ≑	7.375.010	The Mighty KBC	USB	D:\	
Port 8000	Expire Timeou	ut 10 min 👻	7.380.000	China Radio International CRI	AM	D:\	
Show Log Time UTC		Show Expire Timeout	7.646.000	DDK7 450/50	RTTY	D:\	Ŧ
Station info display mide If in frequency	range		tion Horizontal	Show labels on Mair	n + IF Spec	trum	•
				ОК	Apply	Cancel	

Close the Setup panel.

Next:

Click on MEM button to set the DX Cluster connection



		Memo	ry Sc	reen Op	oens	
DX Cluste	r Interface					\$ - • x
DXCluster			•			
Host	127.0.0.1	Port	8000 ≑	Connect	Close	Clear
U 3ADL	Sen	d Callsign				
						Send
						Send
						Send
						Send

11

In the memory screen window type HOST 127.0.0.1 (*IP address of local host*) - Verify port number is the same as the Telnet port in CW Skimmer (*in this case 8000*) - When the terminal requests a Callsign type your call in the space provided and click Send Callsign.

Once your call is entered the terminal displays each Callsign recognized by CW Skimmer

D)	X Cl	uster	Inte	rface											_ 🗆 🗙
D>	(Clus	ster							-						
н	ost	[127.	0.0.1			Port	80	00		Cor	inect		Close	Clear
DX	de	IU3Z	ADL-	:	702	5.1	SP9BCH		23	dB	22	WPM	DE	2038Z	^
DX	de	IU37	ADL-	-#:	7020	5.1	II3ICZ		19	dB	23	WPM	CÕ	2040Z	
DX	de	IU37	ADL-	-#:	7020	5.1	DL1JFM		18	dB	23	WPM		2043Z	
DX	de	IU32	ADL-	-#:	7029	5.1	DL6ABB		26	dB	17	WPM	DE	2043Z	
DX	de	IU32	ADL-	-#:	7020	5.0	UXODA		17	dB	24	WPM	DE	2044Z	
DX	de	IU32	ADL-	-#:	7021	1.2	K1WW		15	dB	28	WPM		20442	
DX	de	IU32	ADL-	-#:	7021	1.2	AA3I		15	dB	26	WPM		2046Z	
DX	de	IU32	ADL-	-#:	7025	5.3	G4KJJ		13	dB	17	WPM	CQ	2050Z	
DX	de	1037	ADL-	-#:	7020	5.1	PAOZAV		19	dB	22	WPM	DE	2050Z	
DX	de	1034	ADL-	-#:	7020	5.9	OE4PWW		9	dB	28	WPM		20512	
DX	de	1034	ADL-	-#:	7028	2.2	S54MI		13	dB	17	WPM		20562	
DX	de	1034	ADL-	-#:	7020	5.0	PAIMUC		24	aB	29	WPM	DE	20562	
DX	ae	1034	ADL-	-#:	7021		OE4PWW		18	aB	23	WPM		20562	
DX	de	1034	ADL-	-#:	702:	- 4	N4KW		10	aB	1/	WPM	~~	20572	
DX	ae	1034	ADL-	-#:	/020	5. L	113102		18	aв	23	WPM	υų	20562	-
			_	6			_								
103	SADL				Send (Callsig	IN								
															Send
															Send
															Send
															Send

The same spot will be shown in the Main spectrum of FDM-SW2 display

DX Cluster Interface			
DXCluster	-		
Host 127.0.0.1	Port 8000	Connect	Close Clear
DX de IU3ADL-#: 7025.1 DX de IU3ADL-#: 7026.1 DX de IU3ADL-#: 7026.1 DX de IU3ADL-#: 7026.1 DX de IU3ADL-#: 7026.1 DX de IU3ADL-#: 7027.2 DX de IU3ADL-#: 7027.2 DX de IU3ADL-#: 7027.2 DX de IU3ADL-#: 7027.3 DX de IU3ADL-#: 7026.1 DX de IU3ADL-#: 7026.0 DX de IU3ADL-#: 7026.0 DX de IU3ADL-#: 7026.1 DX de IU3ADL-#: 7026.1 DX de IU3ADL-#: 7026.1 DX de IU3ADL-#: 7026.2	SP9BCH 23 dB II3ICZ 19 dB DL1JFM 18 dB DL6ABB 26 dB WW 15 dB AA3I 15 dB G4KJJ 13 dB PA02AV 19 dB S54MI 13 dB PA1MUC 24 dB N4KW 10 dB	22 WPM DE 23 WPM CQ 17 WPM DE 24 WPM DE 28 WPM DE 26 WPM CQ 3 17 WPM 4 23 WPM 5 24 WPM 5 26 WPM 5 17 WPM 5 23 WPM 5 23 WPM 5 23 WPM 5 23 WPM 5 17 WPM 5 23 WPM	2038Z 2040Z 2043Z 2043Z 2044Z 2044Z 2044Z 2046Z 2050Z 2050Z 2050Z 2056Z 2056Z 2056Z 2056Z 2057Z
DX de IU3ADL-#: 7026.1	II3ICZ 18 dB	23 WPM CQ	20582 Send Send Send Send Send Send

Calls will also be displayed in the Contacts panel. Clicking on spots will tune the FDM DUO to a selected frequency.

13

	C	ontacts			E
		ALL Bands			Ш
		160m	80m	40m	30m
		20m	17m	15m	12m
l		10m	6m		
		Freq.	ID	UTC	Timeou
		7.025.300Hz	G4KJJ	20:50	0:01
		7.026.100Hz	PAOZAV	20:50	0:01
		7.026.900Hz	OE4PWW	20:51	0:03
		7.025.200Hz	S54MI	20:56	0:07
		7.026.000Hz	PA1MUC	20:56	0:07
		7.026.100Hz	OE4PWW	20:56	0:08
		7.025.200Hz	N4KW	20:57	0:08
l		7.026.100Hz	II3ICZ	20:58	0:09
l					

14

2 FDM-SW2 and FLDIGI installation

2.1 **Requirements**

- VSPE Vistual serial port emulator from Eterlogic <u>http://www.eterlogic.com/Products.VSPE.html</u> Freeware for 32 bit systems, shareware for 64 bit operating systems.
- FDM-SW2 running with FDM-S1, FDM-S2, FDM-DUO Hardware or also reading files.
- FLDIGI from W1HKJ downloadable from here http://www.w1hkj.com/Fldigi.html

2.2 Software Installation

2.2.1 VSPE VIRTUAL SERIAL PORT EMULATION installation

See chapter 1.2.1 to create a pair of virtual COM ports. In this example create COM12 as connector and COM13 as splitter

🗞 Virtual Serial Ports Emulator (Emulation started)								
File View Language Emulation Device Help								
🖻 🖬 🕨 = 🐂 🐂 🍢 🇞 🚮 (0							
Title	Device	Status						
COM10	Connector	OK						
COM10 => COM11	Splitter	Ready						
COM12	Connector	OK						
COM12 => COM13	Splitter	Ready						
<pre>(Sunday, March 29, 2015) [COM12] Initialization0K (Sunday, March 29, 2015) [COM11 => COM13] Initialization0K (1) (Sunday, March 29, 2015) [COM12 => COM13] Initialization0K (1)</pre>								
Ready		http://www.eterlogic.com						

2.2.2 FDM-SW2 CAT operation

Same as 1.2.1

Set Receiver number 3 connected to virtual port COM12

ining Step External H	W Tuning Audio	Graphics Demod S	ettings Advanced	TMate/TMate	Station Memory	Recording	Server	About
Device Configuration	ExtIOmc_ELAD_	FDMS2_384k_v3_14.d	III FDM52 - 122.88Mi	iz, data acquisit	ion frequency 384	<hz, 307.2khz<="" td=""><td>bandwid</td><td>th (I 🔻</td></hz,>	bandwid	th (I 🔻
☑ Show HW Setup Formatting The Setup Formatting The Setup Formatting Form	orm At Startup 📄	Auto-start demodula ADC DC Offset Corre	tion ection			Bypass Mo (Exclude P	de reselecto	or)
CAT CA Channel1 Channe	T Mode VRX	•	Omnirig E	nable Omnirig Co	ntrol			
RX1 Serial Po RX2 Serial RX3 Serial Po RX3 Serial Po	ort COM4	Baudrate 38400 Baudrate 4800 audrate 4800	Y Pol	ing Time (ms)	20			
Panadapter Enable Panadapt	oter	Load Config.	Save Config.		Downconvert	er pwnconverter	Load	Config
IF Tune AM (Hz)	8.215.00	0 ↓ V Swap I/Q	Level Offset (dB)	28,0 ÷			Save	Config.
IF Tune CW (Hz) IF Tune LSB (Hz)	8.215.00 8.215.00 8.215.00	AOR AR8600 - O Enable Cor Serial Port	ntrol Baudrate		Frequency S Level Offset	Shift (Hz)	80.00	0.000
IF Tune USB (Hz)	0.075.00	0 4			/I Qbwc			

2.2.3 FLDIGI Connection

Select Configure -> RIG -> HAMLIB tab

Enable Hamlib select RIG Yaesu FT-897 and DEVICE COM13 Initialize and save:

Fldigi configuration	
Operator UI Waterfall Modems Rig Audio ID Misc We	b Autostart
Hardware PTT RigCAT Hamlib XML-RPC	
⊘Use Hamlib	
Rig: Yaesu FT-897 (Beta)	Device: COM13
Retries Retry Interval (ms) 3 200	Baud rate: 38400
Write delay (ms) Post write delay (ms) 0 0	Stopbits 1
⊘PTT via Hamlib command	Sideband: Always USB
ODTR +12	ORTS +12
□RTS/CTS flow control	OXON/XOFF flow control
Advanced configuration:	Initialize
Restore defaults	Save Close

S-Meter 1 3 5 7 9	+20 +40 +60 Lev -92,9dBm	FDM-SW2 ?
Step 1,0kHz SNAP LOCK 14.076.000 H		Noise Blanker
		Notch BW Frequency OH 1 100 ‡ 0 ‡ OH 2 100 ‡ 0 ‡ RX3 RX2 RX3 Mode USB • Filter BW 2.500 ‡
	fldigi - IU3ADL	
	File Op Mode Configure View Logbook Help	
	1407.6.000 Call frequency ktz Op US8 3000 Call frequency ktz Op	01 01 01 01 Az
	 I <aa) C55</aa 	Reading 1299 bytes from logbook.adi Read 6 records in 0.00 seconds > <sk>\$<as>HS<hb>\$(>) <sk>TBS-3HN\$C/I F\$<hb>\$-<bi>\$<as>\$7</as></bi></hb></sk></hb></as></sk>
FFT Res. 22,4Hz/point S0,0kHz/div 14050kHz 14150kHz		
12, SMHz 13, OMHz 13, SMHz 14, OMHz 14	WF (-20) (49) x1 () NORM ((800	
80m 60m 49m 40m 30m 25m 20m 19m		

So now RX 3 frequency will be synch like this:

so now Tuning of RX3 can be done by moving GREEN cursor on spectrum, or from FLDIGI tuning panel

2.2.4 FDM-SW2 Audio connection for FLDIGI

etup								
Tuning Step External HW Tuning	Audio Graphics	Demod Settings	Advanced	TMate/TMat	e2 Station Mem	Recording	Server	About
AGC Settings								
Fast Attack (ms)	Decay (ms) 1.	.000 ≑						
Slow Attack (ms) 10	Decay (ms) 2 Decay (ms) 4	.000 🜩						
Use Soundcard audio out			Volume Gai	n Multiplier	1 🔹			
Main Output Device Speakers	(VIA High Definitic	•	🔽 Mute O	n TX or CAT K	eyed status			
AUX Output Device			Freeze or CAT	Spectrum On Keyed status	Mute			
Channel 1 Channel 2								
VRX1 Enable AUX Out	Output Device	Line 1 48KHz (Virt	tual Audio 🗔	Mode A	udio 👻			
VRX2 📝 Enable AUX Out	Output Device	Line 1 48KHz (Virt	tual Audio 🕞	Mode If	48kHz 👻			
VRX3 📝 Enable AUX Out	Output Device	Line 2 (Virtual Au	dio Cable) 🗖	Mode A	udio 👻			
VRX4 📄 Enable AUX Out	Output Device	Speakers (VIA Hig	h Definitic 🧃	Mode A	udio 👻			
Soundcard Play Buffer Size (ms)	300 🚔		M	ute the VRX r	not selected			
					0	K Ap	ply	Cancel

17

2.2.5 FLDIGI Audio connection

Devices Settings Right channel Wav OSS Device: PortAudio Playback: Speakers (VIA High Definition Audio) PulseAudio Server string: OFile I/O only	
OSS Device: PortAudio Capture: Playback: Speakers (VIA High Definition Audio) PulseAudio Server string: File I/O only File I/O only	
PortAudio Capture: Line 2 49KHz (Virtual Audio Cable) Playback: Speakers (VIA High Definition Audio) PulseAudio Server string: File I/O only File I/O only	
Playback: Speakers (VIA High Definition Audio) PulseAudio Server string:	
OPulseAudio Server string:	\$
□File I/O only	

This is the example with two virtual receivers working, RX2 with Cwskimmer decoding CW, and RX3 decoding PSK-31 with FLDIGI at the same time.



Please notify ELAD of recommended additions or changes to this document.

E-mail to eladit@eladit.com .