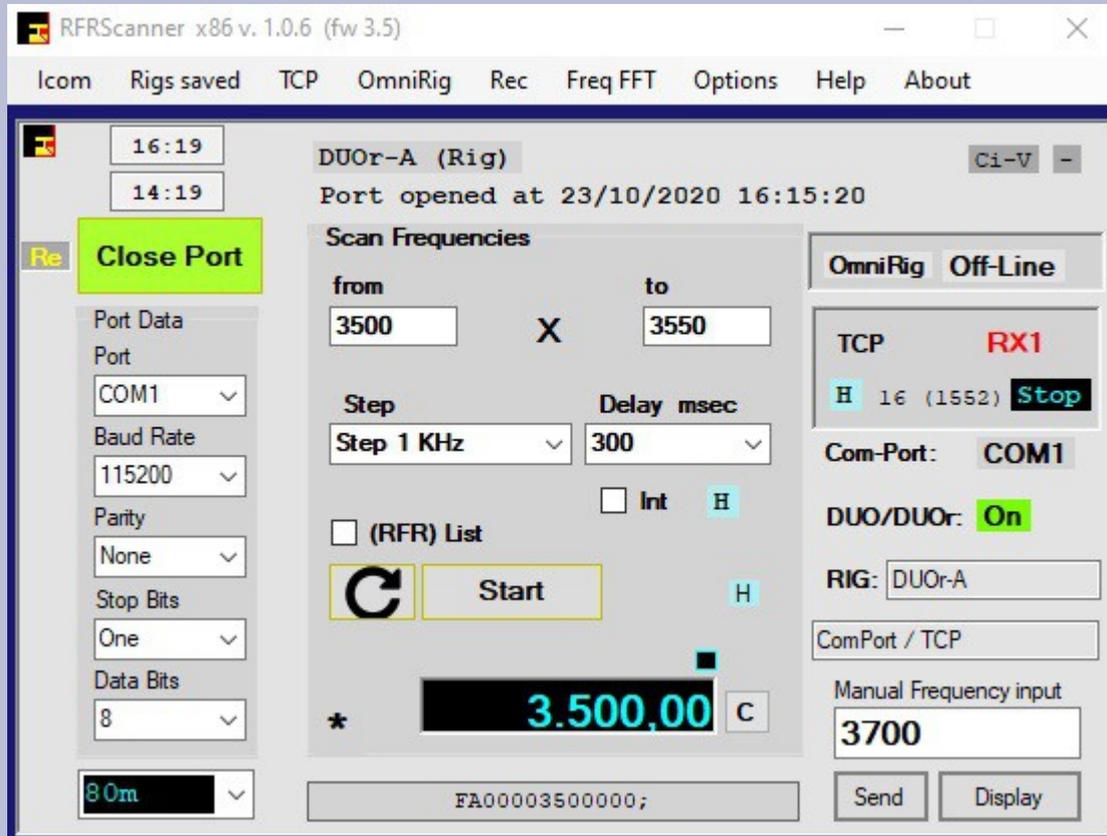


© by  
Intrasystem

## RFRScanner – version 1.1.4 – NOV/2023

<http://www.intrasystem.it/Frequency/Frequency.html>



RFRScanner replaces all previous RadioFrequency programs.

Included:

The dBase Converter

New Frequency Analyzer.

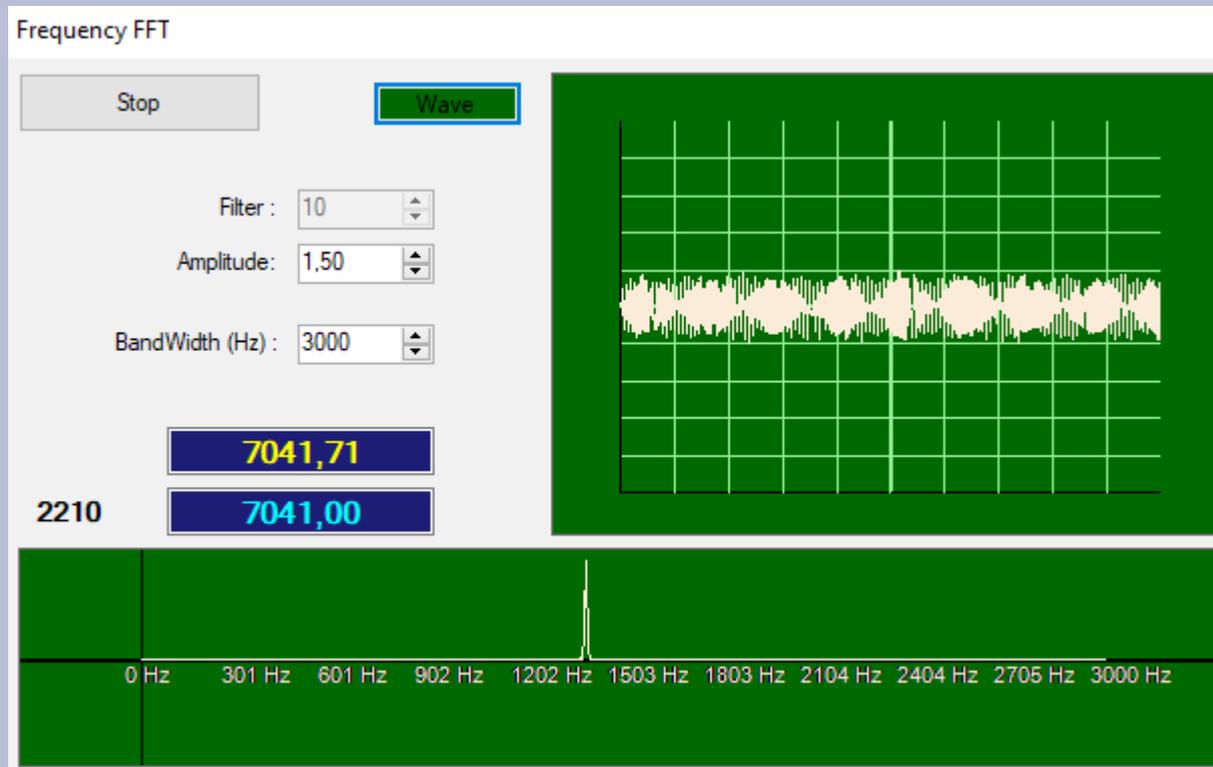
Rig-Cat Control Editor

- dB, dBase = Database Elad Rig user: SW2-Menu > [Remote Ctrl] > Enable OmniRig + TCP
- RFR = RFRScanner Each View remains in the position where you left it.
- Read the Tooltips  [Re]fresh Com-Ports
- Read the [H]elp Labels

The new BackGround View: [BackGround](#)

# The Frequency Analyzer v 1.0.0

1/5



Bandwidth: 1000 to 20000 Hz – Default 3000 Hz

Amplitude: 1,50 Default value

[2210] Mouse-Pointer Hz position

[7041,71] Mouse-Pointer Hz position = Frequency 10Hz precision  
Mouse-Click, tune the Radio to this Frequency.

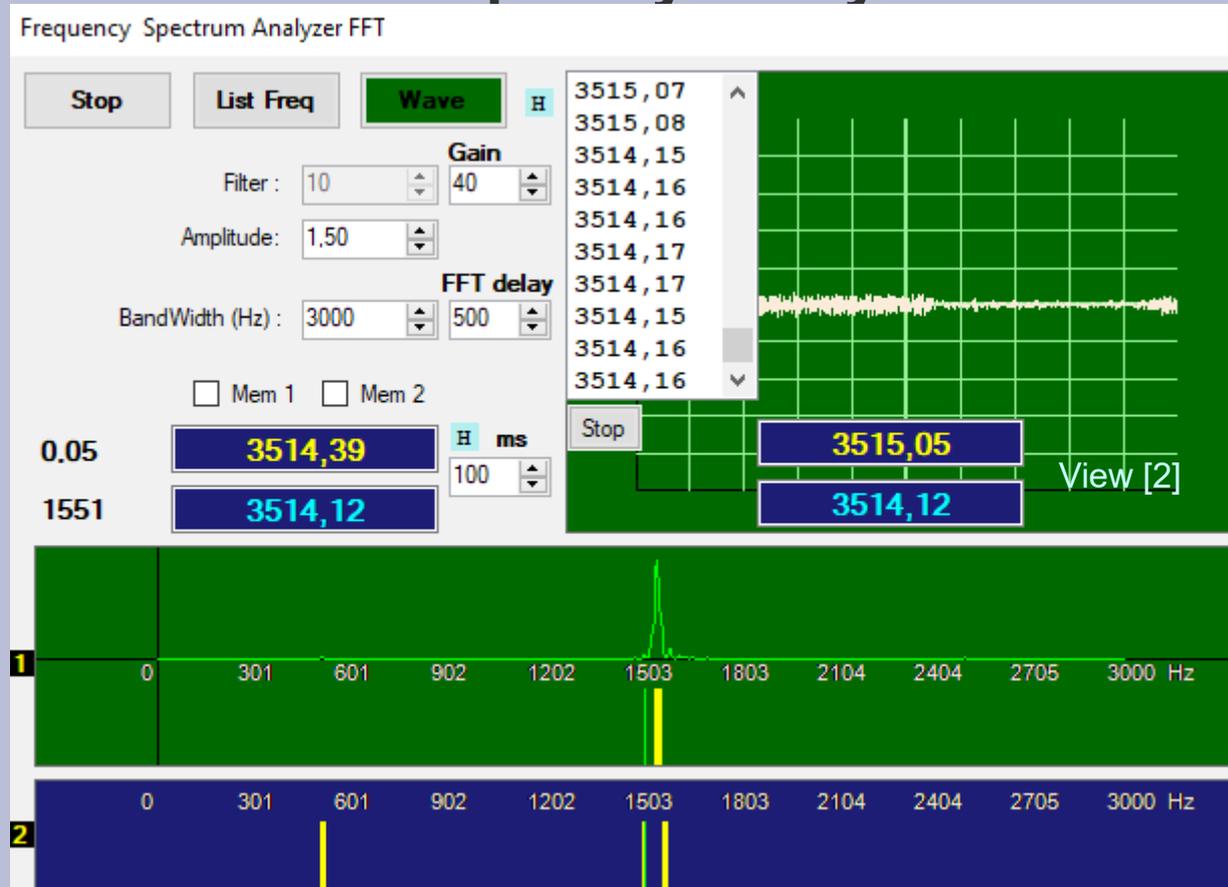
[ 0,71 ] Frequency deviation in Khz. +/- You can use it as Frequency Scanner.

[7041,00] actual tuned Radio frequency

Next >>>

# The new Frequency Analyzer v 1.1.0

2/5



**Gain** increment = Increment Signals.

**FFT delay** Important setting.

**ms** – Read speed Find best selection for lower PC's.

Waterfall image fixed.

The Band Scope image. (a different waterfall) Signal width = the Signal strength.

[40] = Gain Response (0..55). 0..increment. Default = 6.

[500] = FFT delay in ms. (Default)

[ ]Mem 1 + 2 = save a Frequency + Set a Frequency. R/L-click.

[ ms ] Read speed in ms . Default = 100 ms.

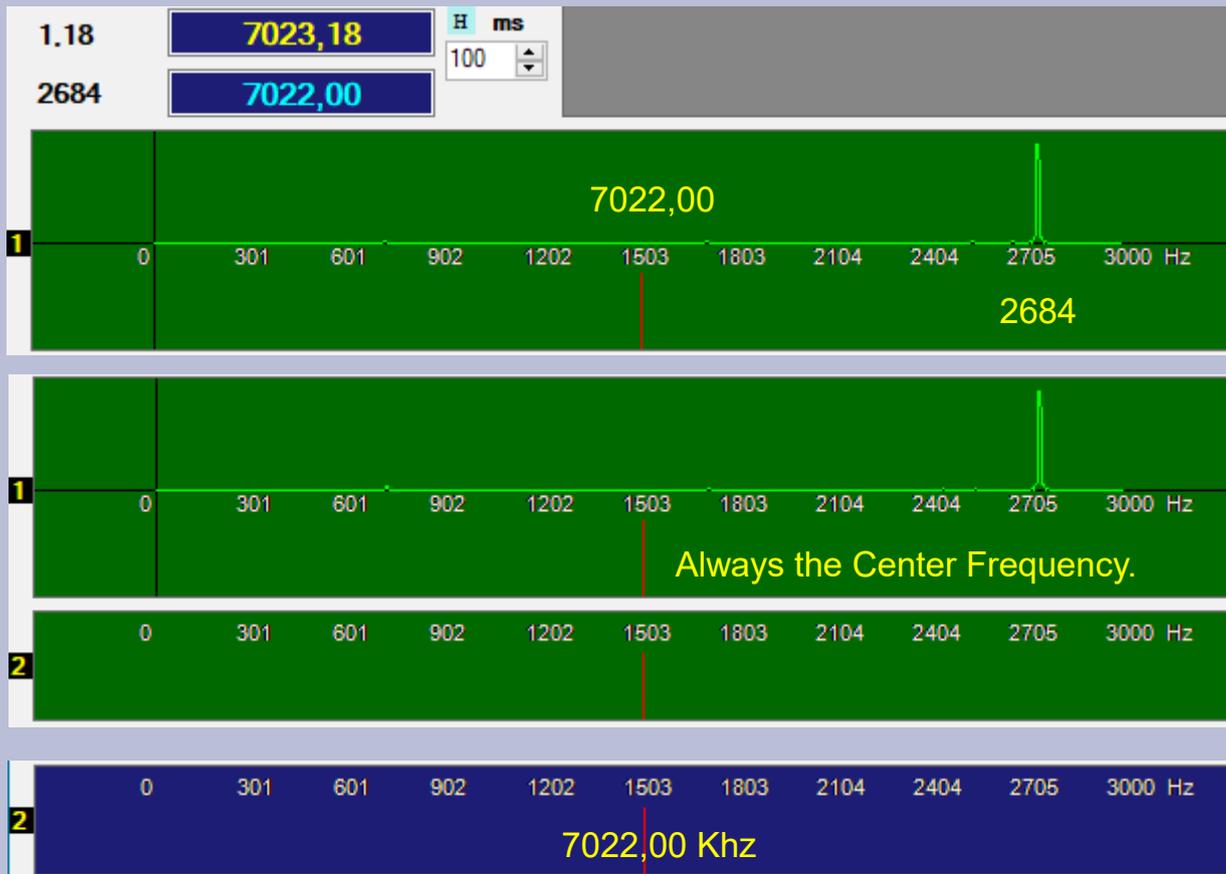
**Next >>>**

[ 1 ] Band Scope + Waterfall [ 2 ] Waterfall selected as fixed Image + frequencies

# The new Frequency Analyzer v 1.1.0

## Band Scope + Waterfall

- **A single signal** is always the real tuned frequency = the Center Frequency 7022,00 Khz.
- The **red** Vertical Center-Signal is indicating only 1 Signal present. No yellow Waterfall signal visible.
- With more than 1 Signal the Center-Signal is assuming the Color "Lime".
- When you click on the Center Signal you tune to the actual Radio Frequency. The yellow Band Frequency is "Red".
- Move the Mouse-Pointer to any other position and select/click. The correct "yellow" frequency is tuned.
- The same applies to the listed frequencies. Menu > [ List Freq ]
- The Waterfall Image view [ 2 ] is showing the same signals until you Fix the Image. (not with the final FFT version 1.1.1)



Band Scope + Waterfall

Only 1 Signal  
No waterfall Signal is shown.

When you click on Band-Position 2684  
you tune the frequency 7023,18 (yellow).

Band Scope.

Waterfall.

Waterfall image Not fixed.

Waterfall image fixed.  
1 Signal. Red Color.

View [1] and View [2] are independent.

# The new Frequency Analyzer v 1.1.0 + 1.1.1

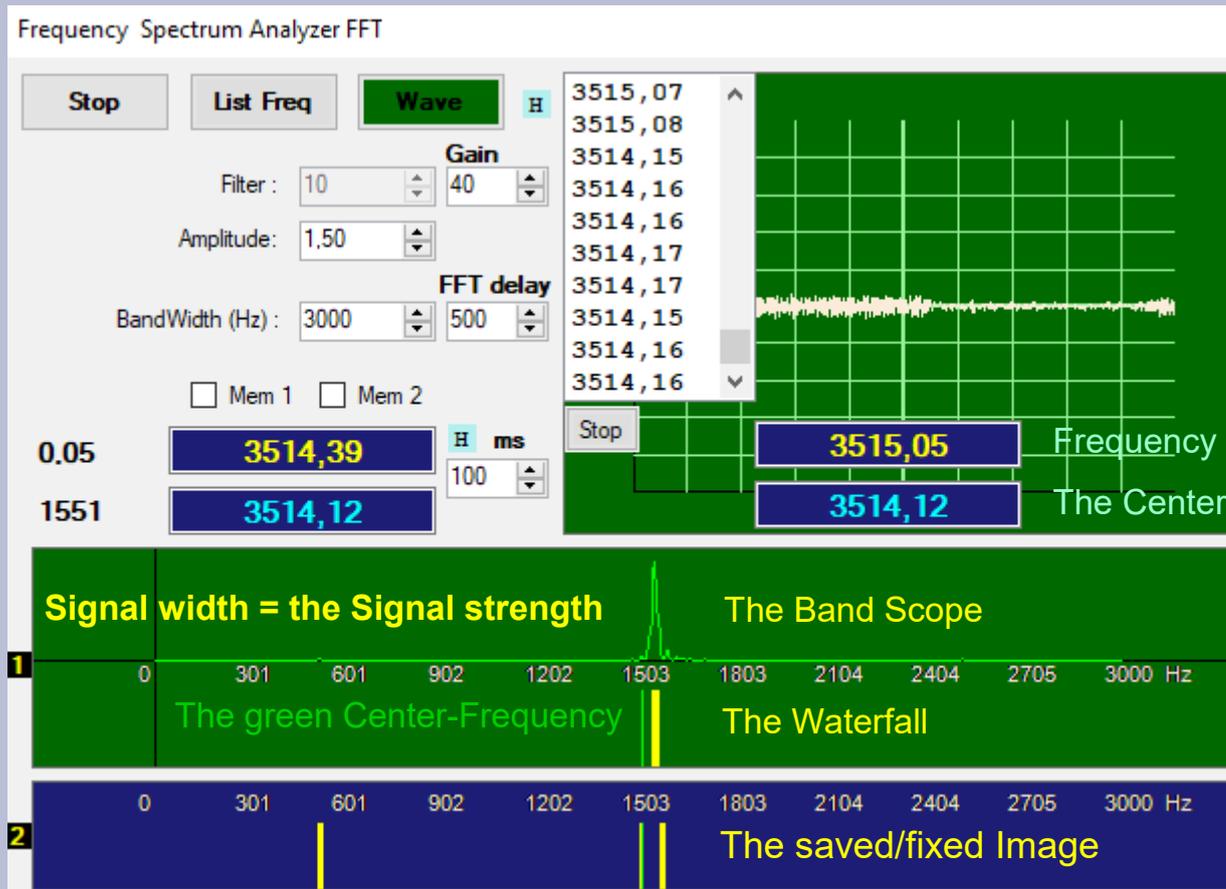
## The Waterfall Image – CW example

- Move the Mouse-Pointer into the [ 2 ] Waterfall Image.
- R-click and Fix the [ 1 ] Waterfall image.
- R-click again and close the Image. The entry-frequency is 3514,12 and **your Radio is returning to this frequency!**
- Mouse-Move, the Peak in Hz is indicated. Here,1551 and only the yellow Frequency indication is changing (3515,05)
- Click on a Signal (yellow) or any other position. The relative Frequency (yellow) is tuned.
- All positions and frequencies are Fixed and not changing if you select and tune a different Frequency.

The Final Analyzer FFT Image v 1.1.1 has a Different Mouse-Click behaviour! (see 5/5)

While the Image is open you could change the Frequency or Band and return to the Image. Often used during all Tests.

The choice of the FFT-delay determines the time/moment the Waterfall image is copied.



By adjusting the "Gain" (increase) less strong signals are read. **Follow the Band-Scope.**

Before fixing an image make sure that the signals are stable at least for the time of the FFT-delay.

Do not forget to adjust the Radio AF Gain volume.

Frequency the Mouse-Cross is on. (Image)

The Center-Frequency the Image is starting.

While the Image is open the View [1] is reading the Band Spectrum. You can click/select any Signal-Frequency.

The Image does not change.

There are 3 CW Signals on the Image.

1 is on top of the green center-frequency.

When you close the Image the Frequency is returning to the start-Frequency 3514,12

# The new Frequency Analyzer v 1.1.1 + 1.1.2

## The Waterfall Image – RTTY example

Increasing the Gain is increasing QRM. Use DSP filters or your Radio Filters.

Here the **Gain** has a high value otherwise we could not receive / see the weaker signals.

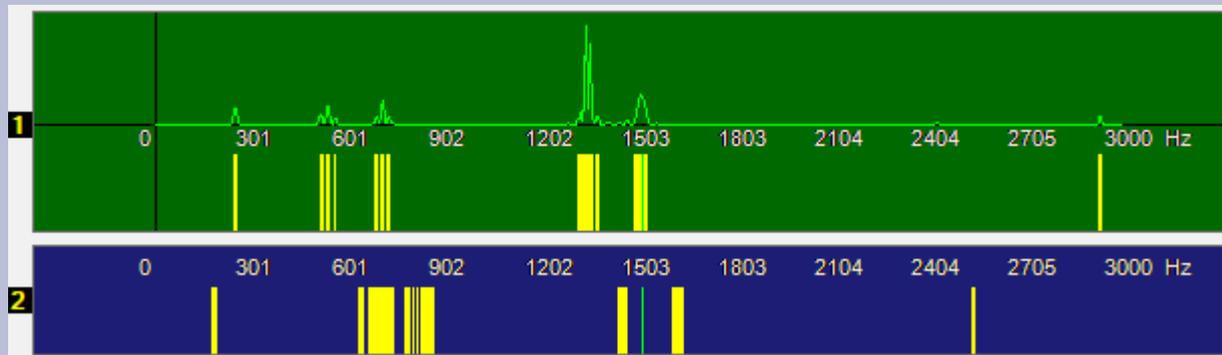
### Final FFT Image

Click behaviour

V 1.1.1

New Image [ 2 ]

ShortCut: F8



The actual Band Scope and Waterfall.

The fixed Image.

Repeat with half sec interval. Stop F8 = the last [ 1 ] Waterfall. Image is copied + copy is confirmed with the Red copy-label. While you use the F8 ShortCut the Red copy-label is white.

### A word about frequency listing.

[List Freq] is opening and starting the Frequency listing for any Waterfall-Signal received. You can [Stop] the listing and selecting / tuning the frequencies.

On Re-Start the List is empty. Closing the List View [List Freq] the list is empty.

After 1000 items the list is empty and re-starting. (final FFT version 1.1.1)

The Frequency List is sorted. There are no repeated frequencies. (final FFT version 1.1.1)

When you just tune your Radio it is suggested to stop the frequency listing.

Exit Image [ 2 ]

R-MouseClick

While the Image is open you can change Frequency or Band and return to the Image Frequency and Band. Often used under Test.

Frequency Spectrum Analyzer FFT

Receiving RTTY. Frequency jumping.

Stop List Freq Wave H

Gain 53

Filter: 10

Amplitude: 1,50

BandWidth (Hz): 3000

FFT delay 500

Mem 1  Mem 2

0.37 7046,71 H ms

1866 7047,10 100

Stop 215

### List Nr of frequencies

List Freq 50

The final FFT version 1.1.1 is opening the: Listing-Limit selection. Minimum: 50 Maximum: 1000 Step: 50

# The new RIG Editor

## CAT Control x any Rig

CAT Control for any RIG

**PC control commands - SerialPort (RS-232)**

**SET Frequency Command**

Invert  
 Frequency as BCD-String ? 5 Byte Standard  
 Frequency as BCD-String ? 4 Byte Example: IC-735

Rig Name:  Rig Type:  >> **Operating Mode**

**Alphabetical Start-Command**

**CI-V Radio Address number**

**Address + Command N°**  **Set Command**

**Frequency Mask**  
 11 >

**Char Terminator**

Baud Rate:  **H**

Transmission type:  **H** Select:  9

**Set Frequency Command**

**Clear Fields** **Load Files** **H** **Save**

Simulate Receiver

**Get Receiving Frequency**

**Alphabetical Start-Command**

Address	CI-V	Command
<input type="text" value="E0"/>	<input type="text" value="66"/>	<input type="text" value="03"/>

**Frequency Mask**  
 11

**BCD Mask**  
 14

Char Terminator

---

**Receiver answer**

Read Frequency Byte Digit:

> **Get Freq**

**Get Frequency** **Read Start**

**Prefix in answer** Digit:

**Confirm Data** **H**

**Operating Mode Controls x single Rig's**

Any Operating Mode is using 3 commands. Set, Read, Answer.  
 You supply the Set, Read and Answer Parameters.  
 The Read command is returning the Answer.

Ready examples: **Kenwood\_ts990 IC-7300 IC-R8500 DUO/r**

Comment:   Char Terminator  **Rig Name**

**Set**

Prefax	P1	P2
<input type="text" value="FE_FE_66"/>	<input type="text" value="_E0_"/>	<input type="text" value="01:USB&lt;br/&gt;02:AM&lt;br/&gt;03:CW&lt;br/&gt;04:RTTY&lt;br/&gt;05:FM&lt;br/&gt;07:CW-R&lt;br/&gt;08:RTTY-R"/>

+

**Read**

Prefax	P1	P2
<input type="text" value="FE_FE_66_E0"/>	<input type="text" value="_04_"/>	<input type="text"/>

+

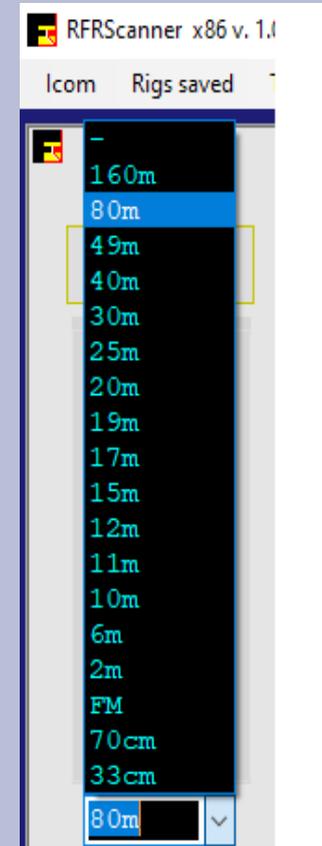
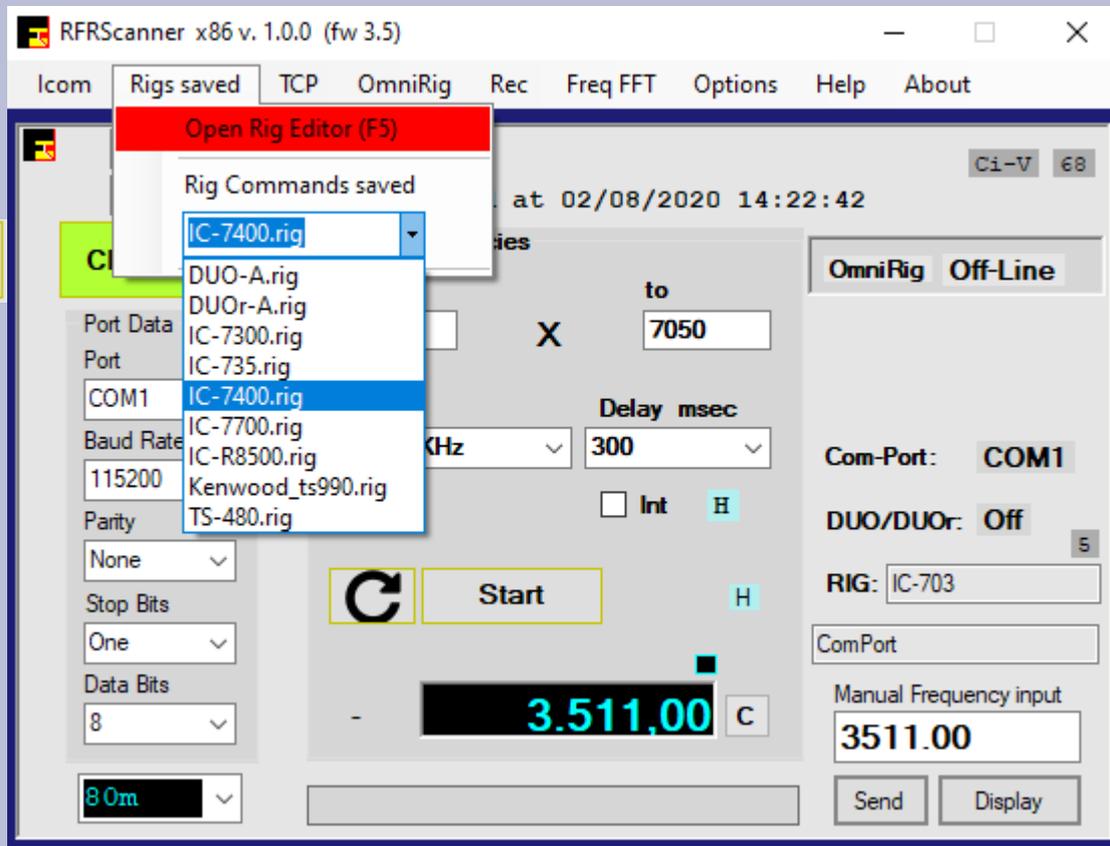
**Answer**

Prefax	P1	P2	Length
<input type="text" value="FE_FE_E0_66_"/>	<input type="text" value="04_"/>	<input type="text" value="01:USB&lt;br/&gt;02:AM&lt;br/&gt;03:CW&lt;br/&gt;04:RTTY&lt;br/&gt;05:FM&lt;br/&gt;07:CW-R&lt;br/&gt;08:RTTY-R"/>	<input type="text" value="20"/>

+

**Clear Fields** **H**

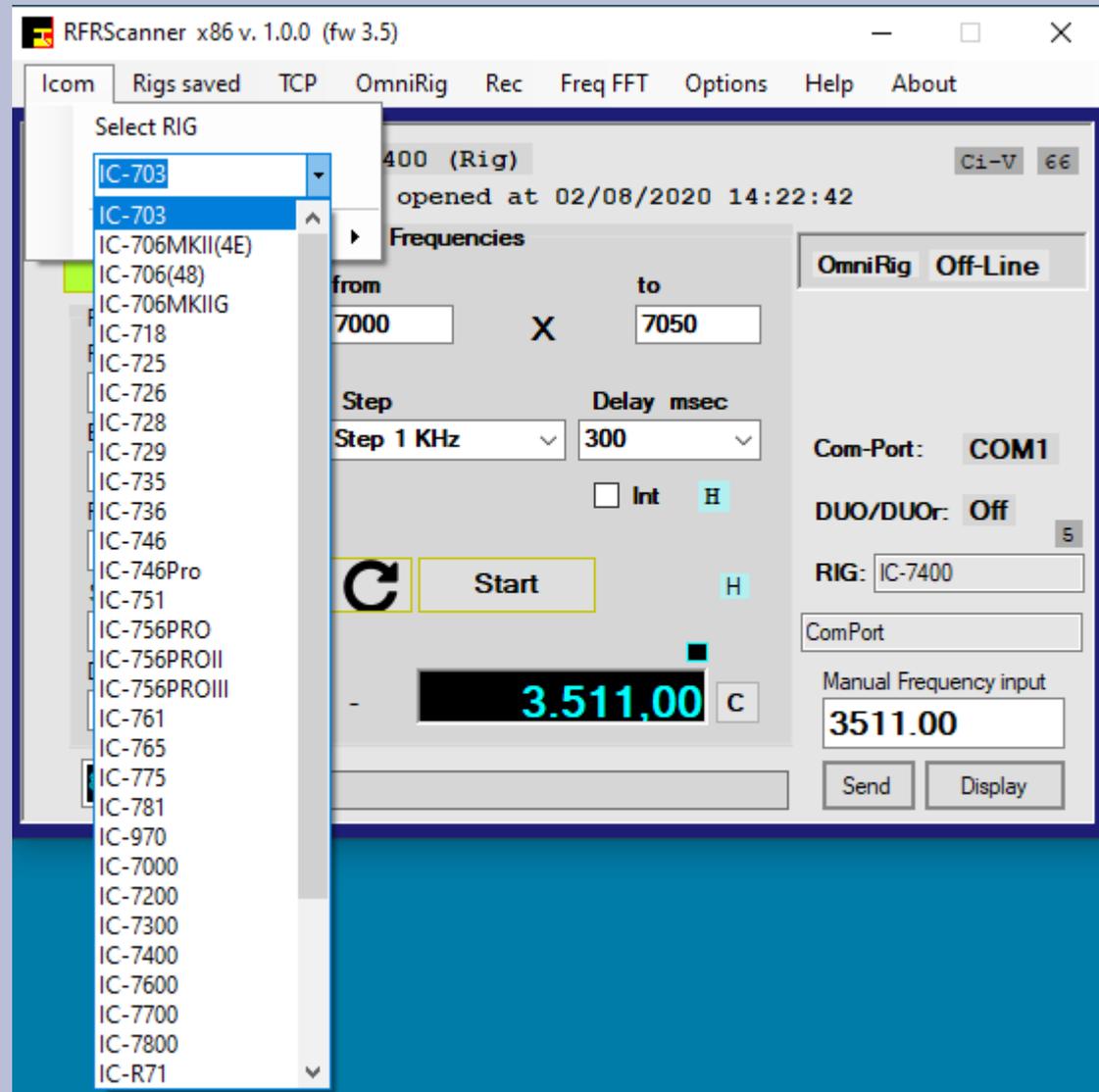
# Rigs Cat control added. You can add any Rig with the **RIG Editor**.



The Frequency Band Selection is tuning the Radio to the Start-Frequency.

Band Selection is changing the Scan from...to frequencies.

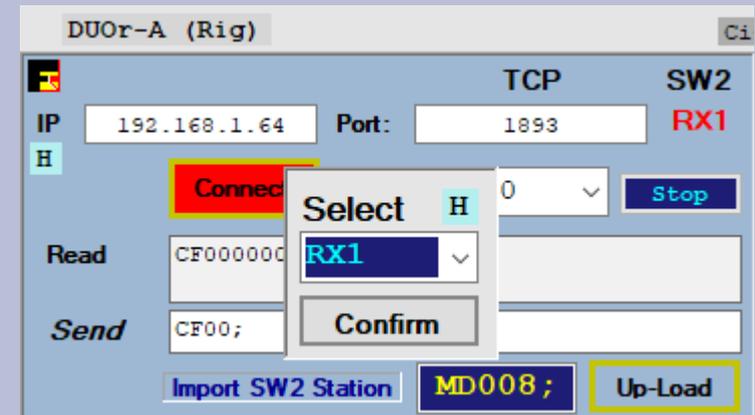
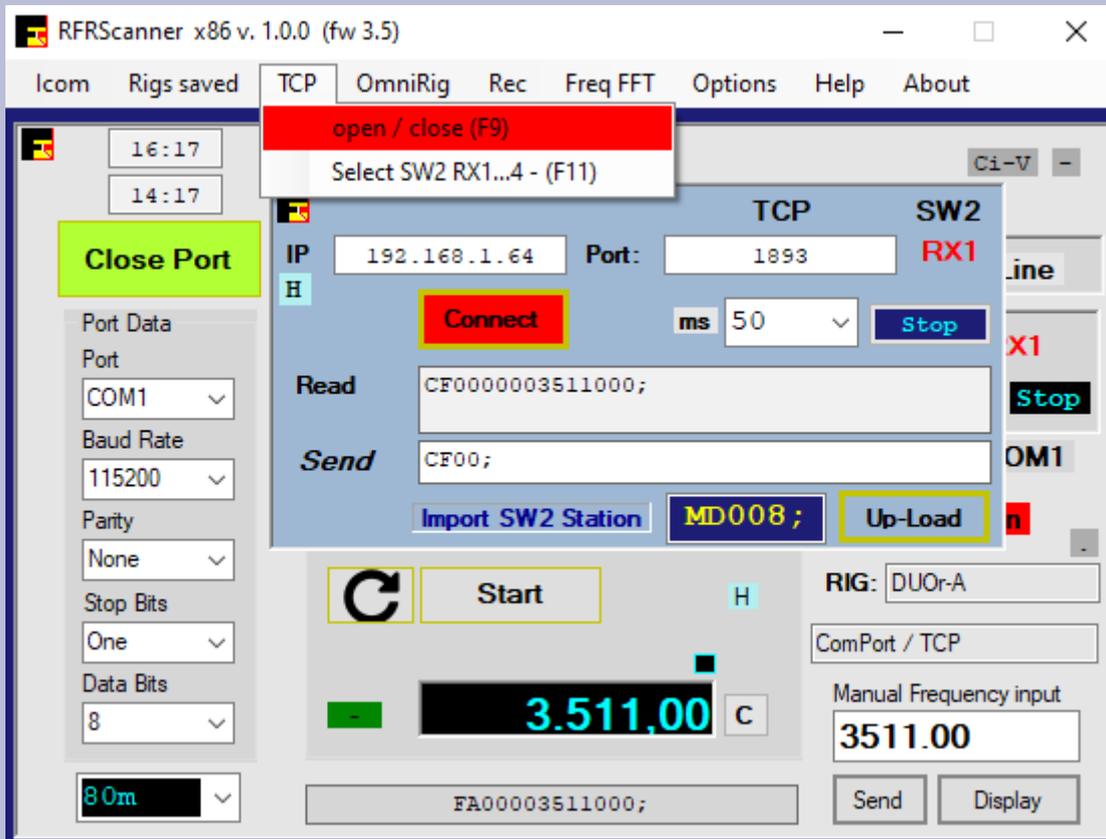
# Icom Rigs Cat control included



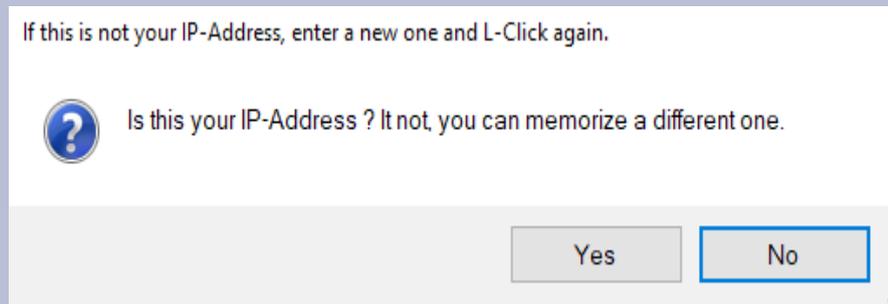
37 Icom Rig's are included. (Frequency + Mode)  
The Rig's Editor is including Icom Radios as example only.

The examples are useful in case the Mode-Parameters are different from the general Icom parameters.

# Import/Download SW2 Stations Memory into RFRScanner Frequency dB (SW2) you connect any Rig with SW2



Only the xml-File SW2 is using is imported!



Import SW2 Frequencies + UpLoading to SW2 Station Memory is automatic.  
Import SW2 xml-file

When downloading a SW2 \*.xml Station File the RFRScanner **(SW2) Local Frequency dBBase is replaced !**  
(Backup is done in automatic)

When the download procedure is terminated **check the CHECKSUM.**  
If you download 140 records the final message must state: 140/140.  
In case of Error: Repeat the procedure.

If you want a different xml file, NOT the one SW2 is actually using, you must first load that file into the SW2 Station Memory.  
Download is only reading the actual xml-file SW2 is using.

**Make sure: TCP interrupted [Stop], Com-Port closed, RFRScanner OmniRig closed !**

Download Records SW2 LIMITATION !

Read the Elad SW2 TCP Bugs explanation > RFRScanner > Help >TCP Bugs

Record start reading at digit 10 MS0000002>>>>> (2 Records)

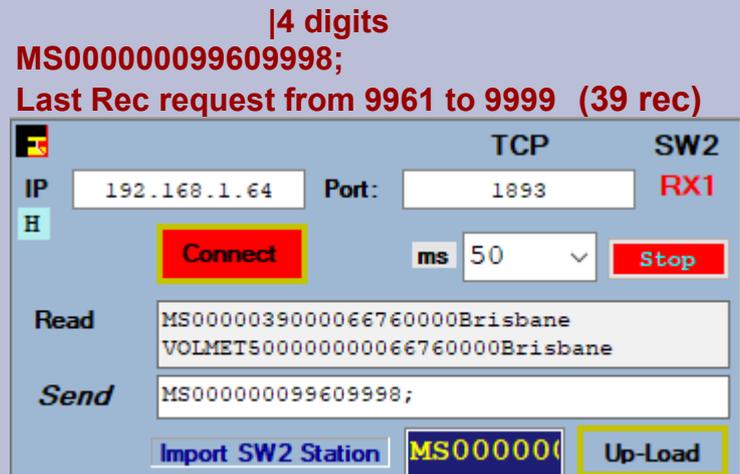
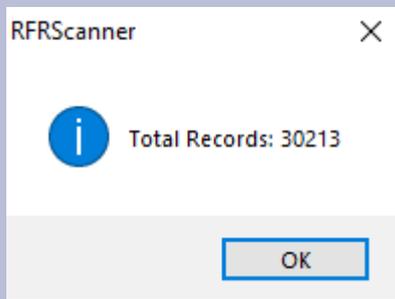
Frequency	digits = 11	'Mask	
Station Name	digits = 16	'00000000000000000000'	Bug
Mode digits	= 6 reserved. Used 1 digit only.	'000000'	Bug

MS0000002 Prefax + Nr. of Records (max. 60 Rec x each request) Max Read-Records = 9999

Get Rec From...To is limited to 4 digits = 9999. SW2 TCP Manual is indicating 99999.

00007646000      Frequency  
 0Deutscher Wette      Station Name (Deutscher Wette)15 digits (with 16 digits BUG/Error) 1 Mask-zero in front.  
 X00000      X = No Mode

You download/import max 9999 records.



If your SW2 xml-file has more then 9999 Records you should use the Converter.

Read the Page: (2) Database Converter. Assuming that the dBase was created with the Converter.

Next >>>

With "Lock to CF" on RX1 TCP/SW2 is NOT Returning the Frequency. (Logical Bug)

## Import/Download

PC / TCP Interference

**TCP Import + Upload is quite sensitive.**

Close other programs.

**RFRScanner does not create any errors!**  
**Hundreds of tests confirm Bug free.**

**The Import procedure is the most sensitive.**

The program executes the request for data from SW2 100 times if the answer is not correct. Only after 100 continuous reading errors the procedure ends with error.

When the procedure starts, a clear message appears:

**Translating .... Wait. Don't Interrupt!**

Only confirm the first "OK" information messages.

The procedure starts automatically.

Now wait and don't use the mouse or keyboard.

Any procedure interruption is due to PC and programs interferences.

Any SW2 data change can compromise the TCP connection for these 2 procedures.

Close RFRScanner + SW2. ReOpen SW2 and RFRScanner .

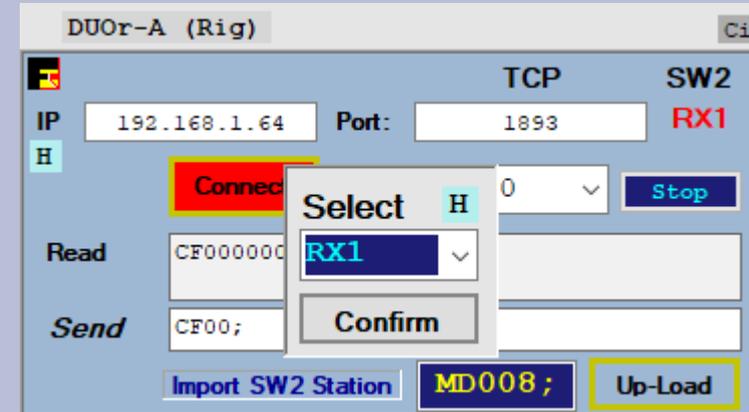
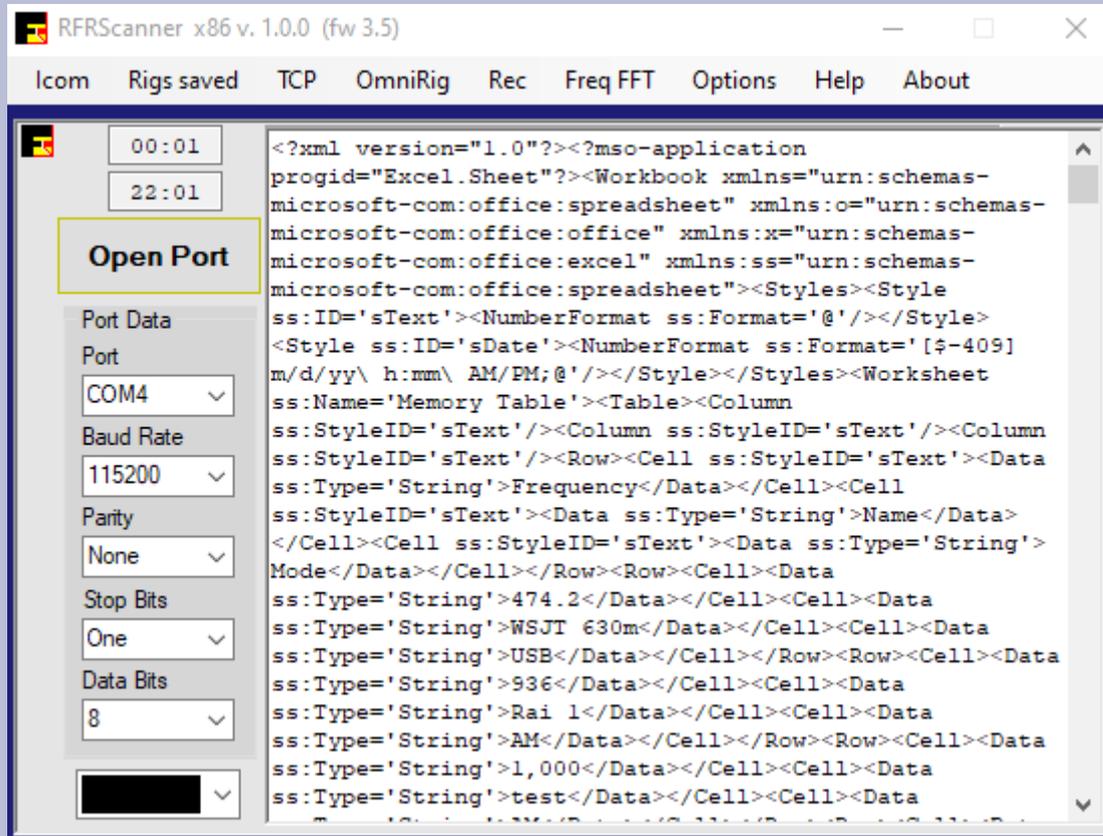
If after a closure and reopening, RFRScanner and the SW2 software, the procedure does not end correctly, it is advisable to do a PC Reboot!

**Make sure: TCP interrupted [Stop], Com-Port closed, RFRScanner OmniRig closed !**

## TCP connection to the Elad SW2

### Upload actual RFRScanner Frequencies to SW2 Station Memory (\*.xml)

New FileName/File or Add records to a existing xml-file.



[ MD008; ] = Input Field

Input the FileName (no extension) only if you create a New xml Database File.

When the Up-Load procedure is terminated  
check the **CHECKSUM**.

If you Up-Load 140 records the final message  
must state: 140/140.

Error: Repeat the procedure.

TCP must be **interrupted**. [Stop] button.

Com-Port should be **closed**.

OmniRig should be **closed**. (local RFRScanner Omnirig)

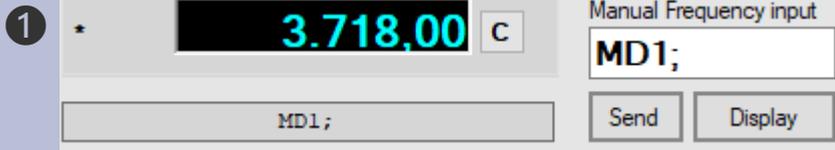
UpLoading the local RFRScanner frequency dbase (SW2).

You can select:

- Add to a existing xml-file (**select Filename**)
- Add to the actual file SW2 is using (**select Filename**)
- Create a new one (**Filename – No extension**)

**Uploading is adding Rec with same Frequencies !**  
**The procedure is running in automatic.**

# TCP SW2 connection S1...S3, DUO, DUOr DUO/DUOr commands

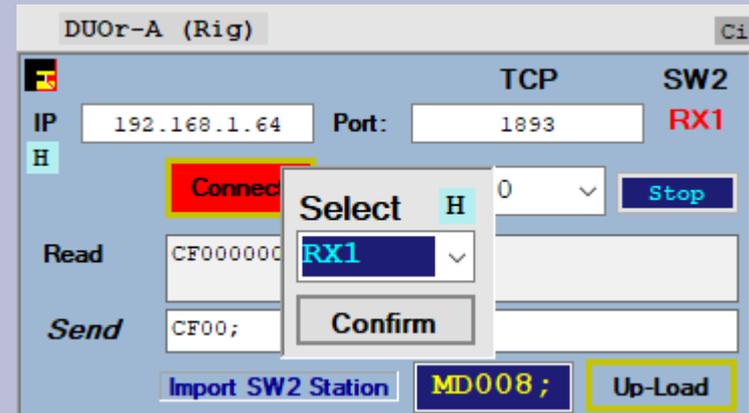


Mode: LSB

Manual Frequency Input Field.  
[ Send ]

DUO/DUOr commands Input Field.

Click here: **1** \*



[ MD008; ] = Input Field

The Input Field x FileNames and TCP commands.

You can simulate the TCP commands.

Input a **command** and then click on the [**Send**] Button.

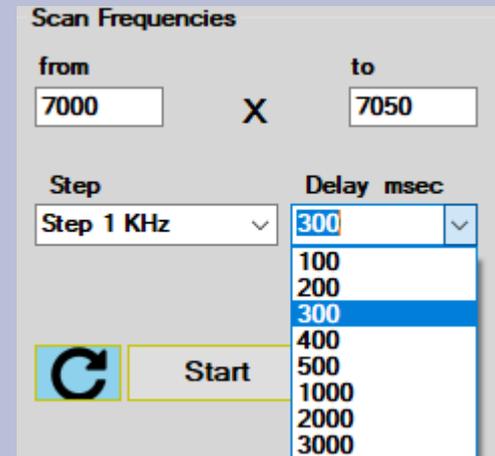
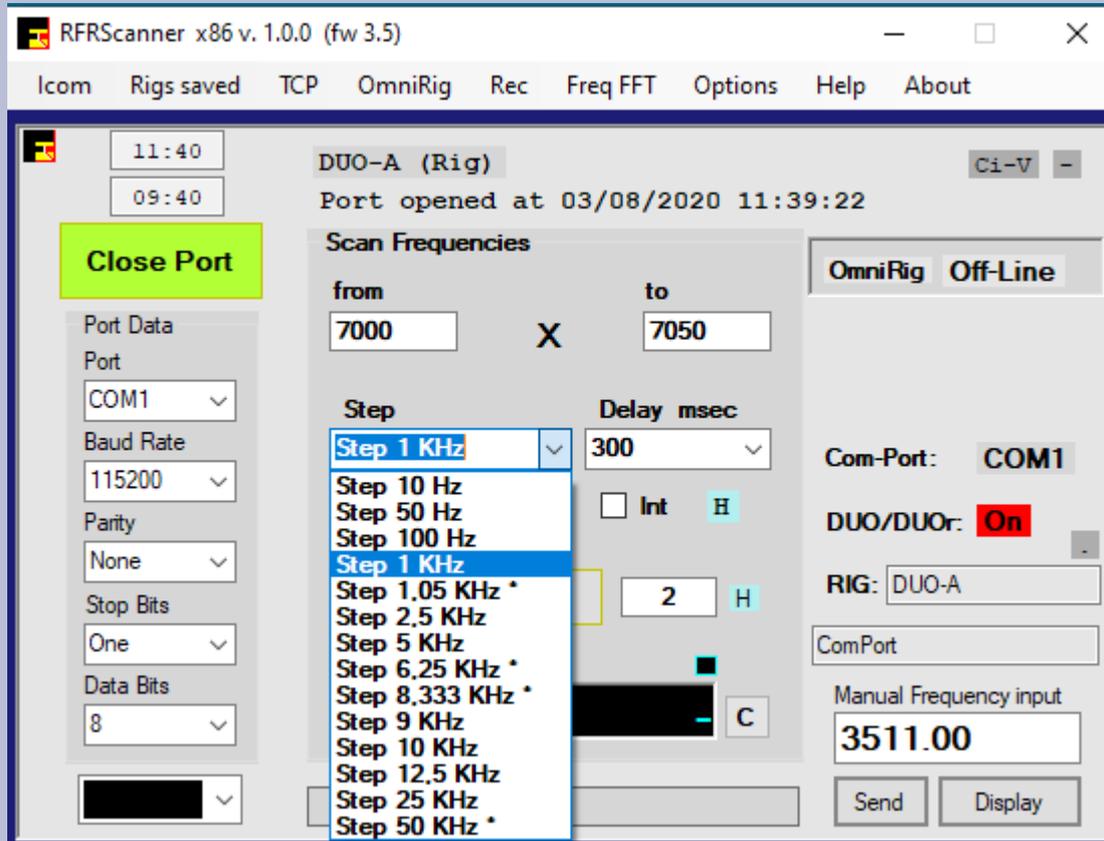
F9 ShortCut TCP View

F11 ShortCut Select RX1..4

# RFRScanner

## Scan Frequencies

Using only internal procedures not the Rig scanner commands.



Repeat 20 times



Stop scanning. Double click 'Stop'.



[x] Int is interrupting

[x] RFR List

Scan the saved Frequencies. (RFR)



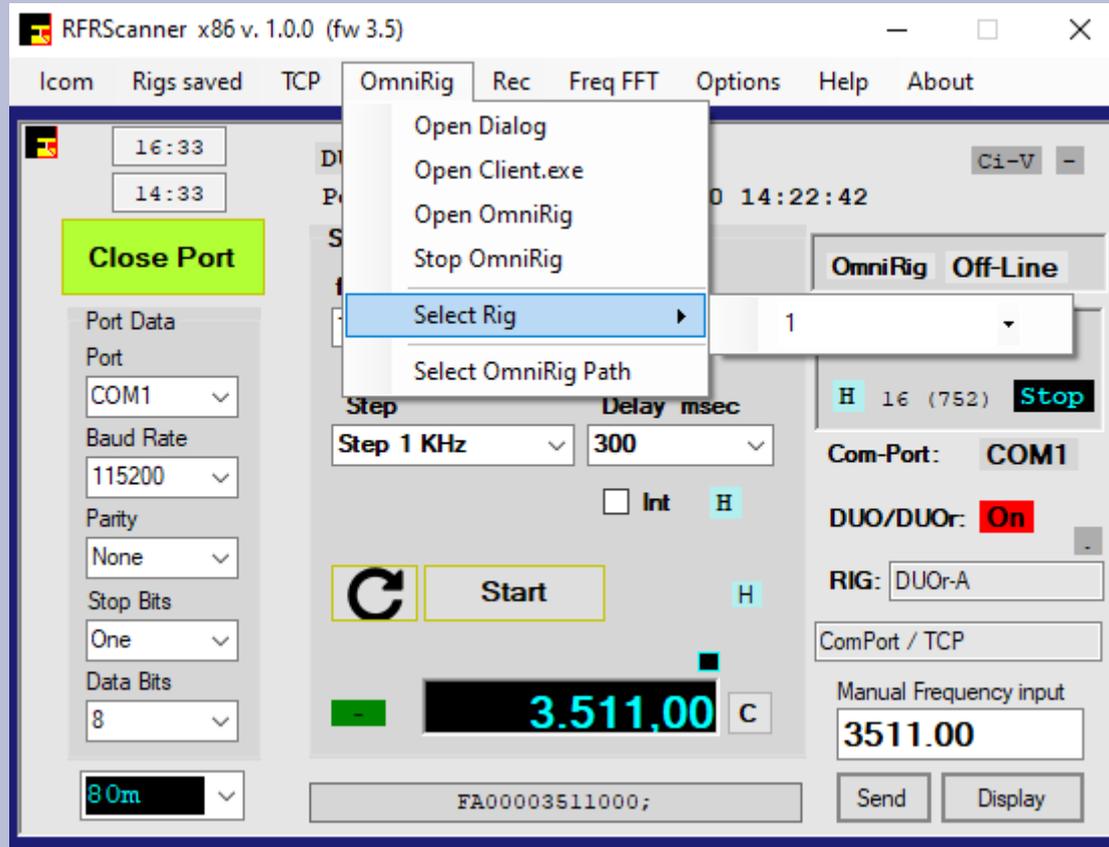
Re Open Port

[Re]fresh Com-Ports

# OmniRig



The Basic connection just between SW2 and Elad Radios is automatic. No settings are requested



< **First Open Client.exe**

**RFR > Elad Radio direct**

The best way is using a existing COM-Port and set it with VSPE. Example: COM1 to Com3. Com3 is used with all other Software.

**Read the page: VSPE virtual Com-Ports**

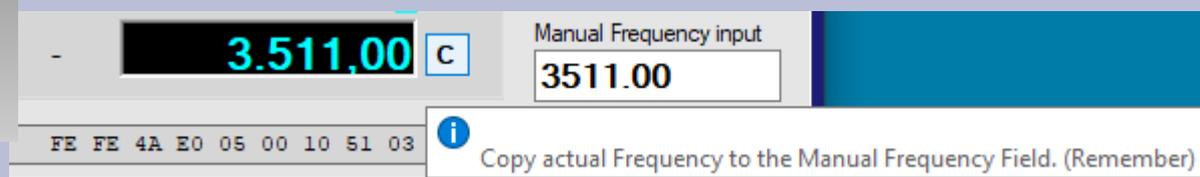
Click 2 x the [Send] button  
Not fast

Or the "Enter Key" if your Mouse Pointer is inside the "Manual Frequency.." Field.

Depending on the SW2 version pay attention to the following SW2 reaction when you connect Omnirig to the RFRScanner.

If the SW2 Frequency is not "stable" then:  
- activate the [ LOCK ]  
- disactivate the [LOCK]  
Now the Frequency is stable.

Why ? One never knows.  
mysterious

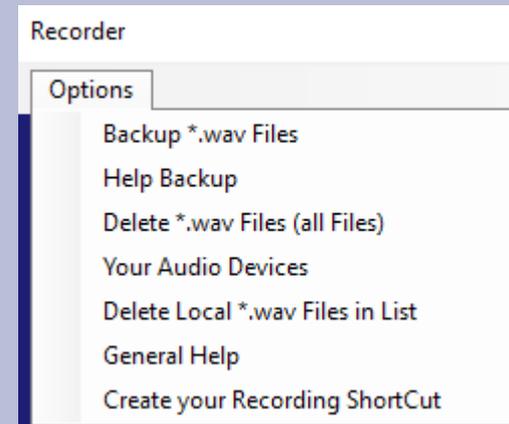
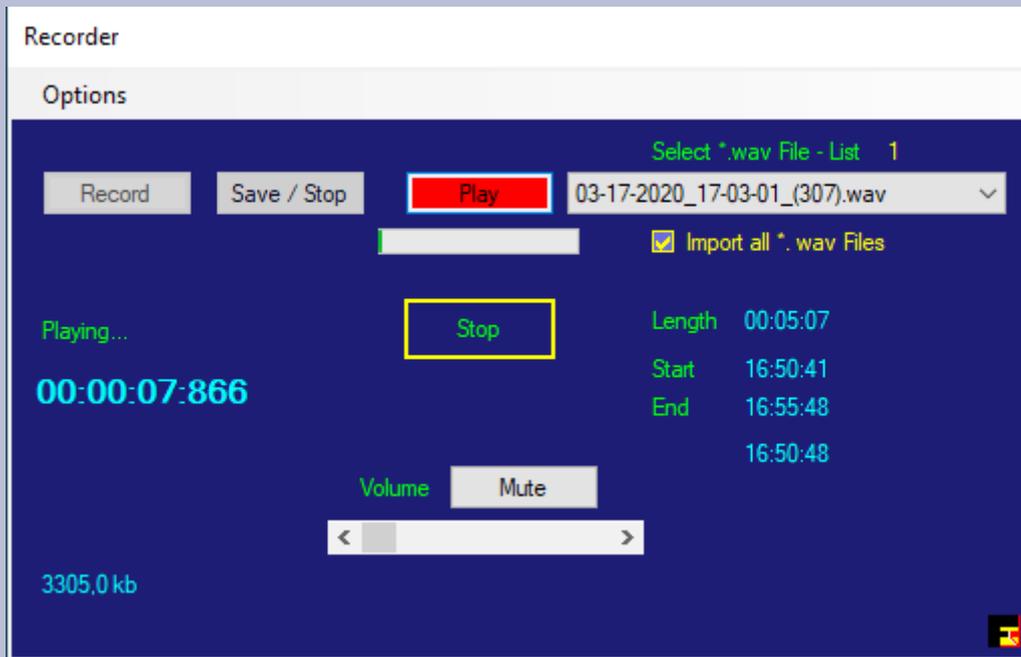


RFR is including the OmniRig DLL procedures and connecting directly. Avoid using the RFR-OmniRig if your Device/Rig/Software is already connected! Example: ELAD SW2 could be connected. RFR OmniRig + RFR [Open Port] device connecting is not allowed.

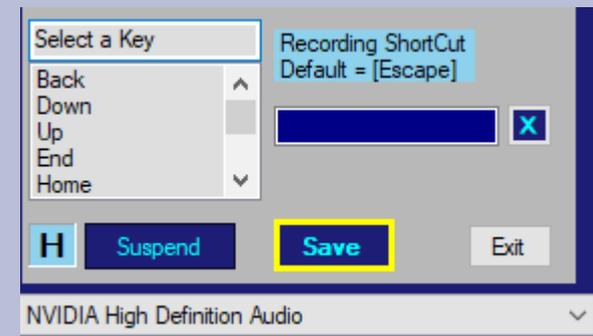
You can use the RFR OmniRig x connecting RFR with any Rig (Icom ecc.) directly. Adjust the OmniRig Dialog accordingly. ComPort, Rig and Baud-Rate. You don't need a ComPort Emulator like Vspe ecc. RFR Rig-Selection is not necessary

# RFRScanner

## Audio Recorder



Select your ShortCut. ESC = Default.



When the Recorder View is closed the "ESC" Key ([Shortcut](#)) is always active.

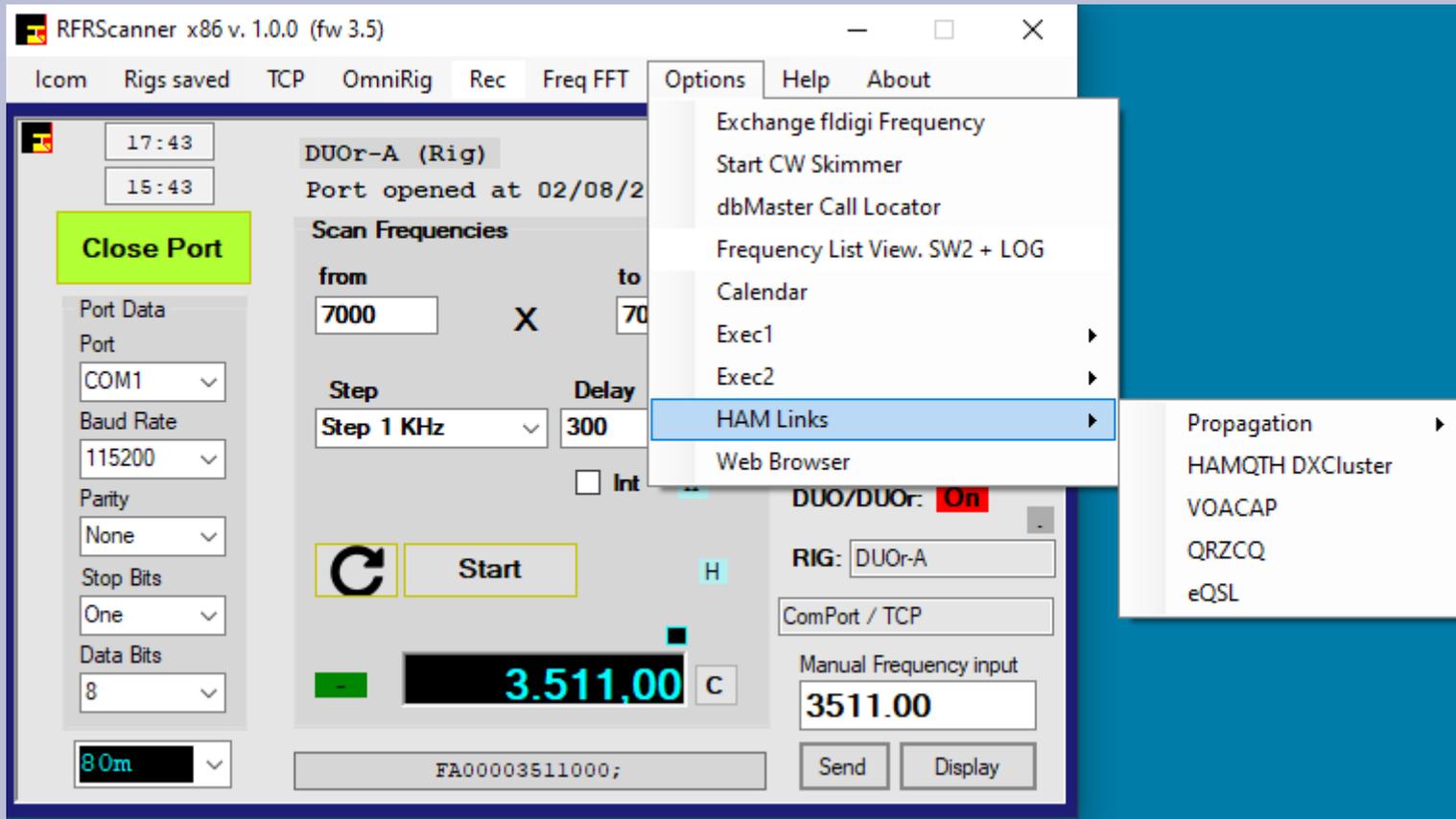
"ESC" is starting the Recorder and pausing. The Menu "Rec" is changing color to 'Red' or 'Green'.

You can quickly switch between 'Rec' and 'Pause'.

To [Stop](#) the registration open the Recorder-View. Click on [ Stop ].

The Audio Recorder can be activated from any View using the Shortcut.

# Menu Options



Input your Web Browser. Default = Internet Explorer.  
Example: Internet Explorer, Firefox, Chrome.

Actual:

CWSkimmer is opening/running in automatic.

Exec1 (2) Run external programs.  
Example: the Converter program

# The dbMaster Callsign database

The dbMaster database is Connected with the Log-Edit/Modify View and the Log-Data Entry View.

dbMaster Callsign + Locator Open > Options > dbMaster Call Locator (F6)

2E0AOZ IO93IQ  
**2E0BPP IO83SS**  
 2E0CEA  
 2E0CEY  
 2E0CNL  
 2E0CON  
 2E0CVN  
 2E0CZE  
 2E0DSQ  
 2E0EMF  
 2E0EMU  
 2E0FCH  
 2E0FFT  
 2E0FPC  
 2E0FQT  
 2E0GBK  
 2E0GEL  
 2E0HAG  
 2E0HCL  
 2E0HES  
 2E0HPI  
 2E0IFC  
 2E0IKM  
 2E0IMD  
 2E0JOF  
 2E0KBL  
 2E0KDN  
 2E0KDT  
 2E0KDT/P  
 2E0KFH  
 2E0KGX  
 2E0KHW  
 2E0KPD  
 2E0KVJ  
 2E0LJZ  
 2E0LKC  
 2E0LPA

Input CallSign x Search. (partial)  
 Input CallSign to Add.

2E0BPP X

Locator Km Nm  
 ? IO83SS 1386 748

Find a Locator.

Search > Next

Add/Save H

Delete

Selected Item  
 Country 2E0BPP IO83SS

My Locator H  
 Loc JN55WJ F6 X

45668

My Locator  
**JN55WJ** Input your Locator

Input CallSign x Search. (partial)  
 Input CallSign to Add.

Locator Km Nm  
 ? X

Calc Distance 2 Char search

2E England G  
 2I Northern Ireland GI  
 2J Jersey GJ  
 2M Scotland GM  
 2U Guernsey and Dependencies GU  
 2W Wales GW  
 3A Monaco  
 3B6 Agalega Is  
 3B7 Cargados Carajos (St Brandon) 3B6  
 3B8 Mauritius  
 3B9 Rodriguez I.  
 3C Equatorial Guinea  
 3C0 Annobon I.  
 3D2 Conway Reef  
 3D2 Republic of Fiji  
 3D2 Rotuma I.  
 3DA0 Swaziland

Selected Item  
 Country 2E0BPP IO83SS

My Locator H  
 Loc JN55WJ F6 X

# Frequencies saved (RFR)

## Elad SW2 Stations imported and added (SW2)

### (SW2) local Frequency dBase

### (RFR) ShortCut (F7) – memorize a Frequency

dbStations + Log-Data

Log Entry Delete Frequencies Help

Frequency	Utc Date Time	Band	Mode	Rig	(RFR)
7022.64	02/08/2020 09:17:03	40m	LSB	DUOr-A	
7022.31	02/08/2020 09:23:03	40m	CW	DUOr-A	
7022.34	02/08/2020 09:37:38	40m	CW	DUOr-A	

R-Mouse-Click > Delete Record.  
F7 = Memorize the actual Frequency.

dbStations + Log-Data **Open > (F4) Frequency List View**

Log Entry Delete Frequencies Help

Frequency	Utc Date Time	Band	Mode	Rig	(RFR)
7022.64	02/08/2020 09:17:03	40m	LSB	DUOr-A	
7022.31	02/08/2020 09:23:03	40m	CW	DUOr-A	
7022.34	02/08/2020 09:37:38	40m	CW	DUOr-A	

R-Mouse-Click > Delete Record.  
F7 = Memorize the actual Frequency.

Frequency	Station	Mode	Band Ham	(140)	(SW2)
474.20	WSJT 630m	USB	-		
936.00	Rai 1	AM	-		R-MC > Delete Record.
1000.00	test	AM	AM		
1000.01	-	RTTY	AM		
1827.45	Saved Frequency	USB	160m		
1836.60	WSJT 160m	USB	160m		
1838.00	-	LSB	160m		
1838.15	-	LSB	160m		
1839.00	WSJT 160m	LSB	160m		

Frequency	Station	Mode	Band Ham	67	(SW2)
474.20	WSJT 630m	USB	-		
1836.60	WSJT 160m	USB	160m		
1839.00	WSJT 160m	LSB	160m		
1840.00	WSJT 160m	LSB	160m		
2500.00	WSJT OOB	LSB	-		
3330.00	WSJT OOB	LSB	-		Search result.
3568.60	WSJT 80m	USB	80m		
3570.00	WSJT 80m	USB	80m		
3572.00	WSJT 80m	USB	80m		

Frequency Station Mode (SW2)

Save

Frequency Station Mode (SW2)

Save

From Freq To Freq Station Text

H Search

From Freq To Freq Station Text **copy to (RFR)**

WSJT  H Search

When the Main-View has Focus the F7 ShortCut is also memorizing the actual Frequency. The Search-Result Frequencies can be copied to the (RFR) List. Re-Call or Scan the (RFR).

# RFRScanner

## LogData **Input** (LOG)

Open > (F4 ) Menu > Contest > Activate Contest Log

dbStations + Log-Data

Log Entry Delete Frequencies

Spotter	Utc Date Time	Band	Frequency	Mode	T-Type (LOG)
DO1RTH	05/10/2020 01:32:10	80m	3520.00	CW	
DO6RV	12/10/2020 22:53:04	80m	3556.70	CW	
F6AGM	21/09/2020 01:08:22	80m	3515.90	LSB	
HA2KMR	29/09/2020 03:35:15	80m	3530.00	LSB	
HA8RM	29/09/2020 04:57:14	80m	3508.16	CW	
LZ1NP	29/09/2020 03:58:02	80m	3522.00	CW	
OL9A	26/09/2020 07:22:17	80m	3588.00	USB	
OM3TBG	12/10/2020 22:34:57	80m	3556.70	CW	

< >

---

(LOG)

Frequency

Spotter

Trans. Type  Q

QSLMsg (16)

Name (10)

km  distance

Save > F7

Transmission **Type** – **Is requested** for the ADI File.  
The Mode Data is only used for Radio tuning.  
Different Modes x different Radios.

AM  
ARDOP  
ATV  
C4FM  
CHIP  
CHIP128  
CHIP64  
CLO  
CONTEST  
CW  
PCW  
DIGITALVOICE  
DOMINO  
DOMINOEX  
DOMINOF  
DSTAR  
FAX  
FM  
FSK31  
FSK441  
FT8  
00,00 HELL  
FMHELL  
FSKHELL  
spotter HELL80  
HFSK  
PSKHELL  
ISCAT  
ISCAT-A

Type

The MODE is registered in automatic.

R-Mouse-Click > Delete Record.

It is suggested to open the dBMaster CallSign dBase (F6). Both are connected.

Next >>>

# RFRScanner

## LogData Input (LOG)

dbMaster Callsign + Locator    Open > Options > dbMaster Call Locator (F6)

Input CallSign x Search. (partial)  
 Input CallSign to Add.

**HA8RM** [X]

Locator                      Km                      Nm

? **JN96UW**                      **627**                      **338**

[Calc Distance]    2 Char search [v]

Selected Item

**Country**    **HA8RM JN96UW**

My Locator

**Loc**    **JN55WJ**                      F6    [X]

45687

- HA8MD
- HA8MT
- HA8MZ
- HA8PK
- HA8QB
- HA8QC
- HA8QZ
- HA8RC
- HA8RM JN96UW**
- HA8RT
- HA8TI
- HA8TKS
- HA8TP
- HA8V
- HA8VK
- HA8VV
- HA8VX
- HA8VZ
- HA8WY
- HA8WZ
- HA8ZB
- HA8ZE
- HA9AX
- HA9MDN
- HA9PP
- HA9RC
- HA9RP
- HA9RT
- HA9SB
- HA9T
- HA9TA
- HB0/DK4YJ
- HB0/DL2JRM
- HB0/DL5SE
- HB0/DL5YM
- HB0/HB9RB
- HB0/IU6AKY

HA Hungary  
 HB Switzerland  
 HB0 Liechtenstein  
 HC,HD Ecuador  
 HC8,HD8 Galapagos Is  
 HE Switzerland HB  
 HF Poland SP  
 HF0 HL5 LUnZx South Shetland Is cont.  
 HG Hungary HA  
 HH Haiti  
 HI Dominican Republic  
 HK HJ Colombia  
 HK0 HJ0 San Andres and Providencia  
 HK0 Malpelo I.  
 HL Korea (Republic of)  
 HP HO Panama  
 HR HQ Honduras

dbStations + Log-Data    Open > (F4) > Log Entry > Activate Log Entry

Log Entry    Delete Frequencies

Spotter	Utc Date Time	Band	Frequency	Mode	T-Type (LOG)
DO1RTH	05/10/2020 01:32:10	80m	3520.00	CW	
DO6RV	12/10/2020 22:53:04	80m	3556.70	CW	
F6AGM	21/09/2020 01:08:22	80m	3515.90	LSB	
HA2KMR	29/09/2020 03:35:15	80m	3530.00	LSB	
<b>HA8RM</b>	<b>29/09/2020 04:57:14</b>	<b>80m</b>	<b>3508.16</b>	<b>CW</b>	
LZ1NP	29/09/2020 03:58:02	80m	3522.00	CW	
OL9A	26/09/2020 07:22:17	80m	3588.00	USB	
OM3TBG	12/10/2020 22:34:57	80m	3556.70	CW	

Frequency **3508,16**

Spotter **HA8RM**

Trans. Type **CW** [Q] [v]

QSLMsg (16) **OM3TBG**

Name (10) [ ]

km

distance [H]

40    **00:34**    Save > F7    [X]

# Contest worked CallSign control

3/4

The screenshot displays the Contest Log software interface. On the left, a 'Contest Log' window shows a single entry for IK0AGU at 1836.00 MHz on 19/11/2020 at 09:11:33. Below this is a 'RadioFrequency' dialog box with an 'OK' button and a note: 'Mouse Right Click = Delete the selected Record.' At the bottom left, there is a 'Save' button.

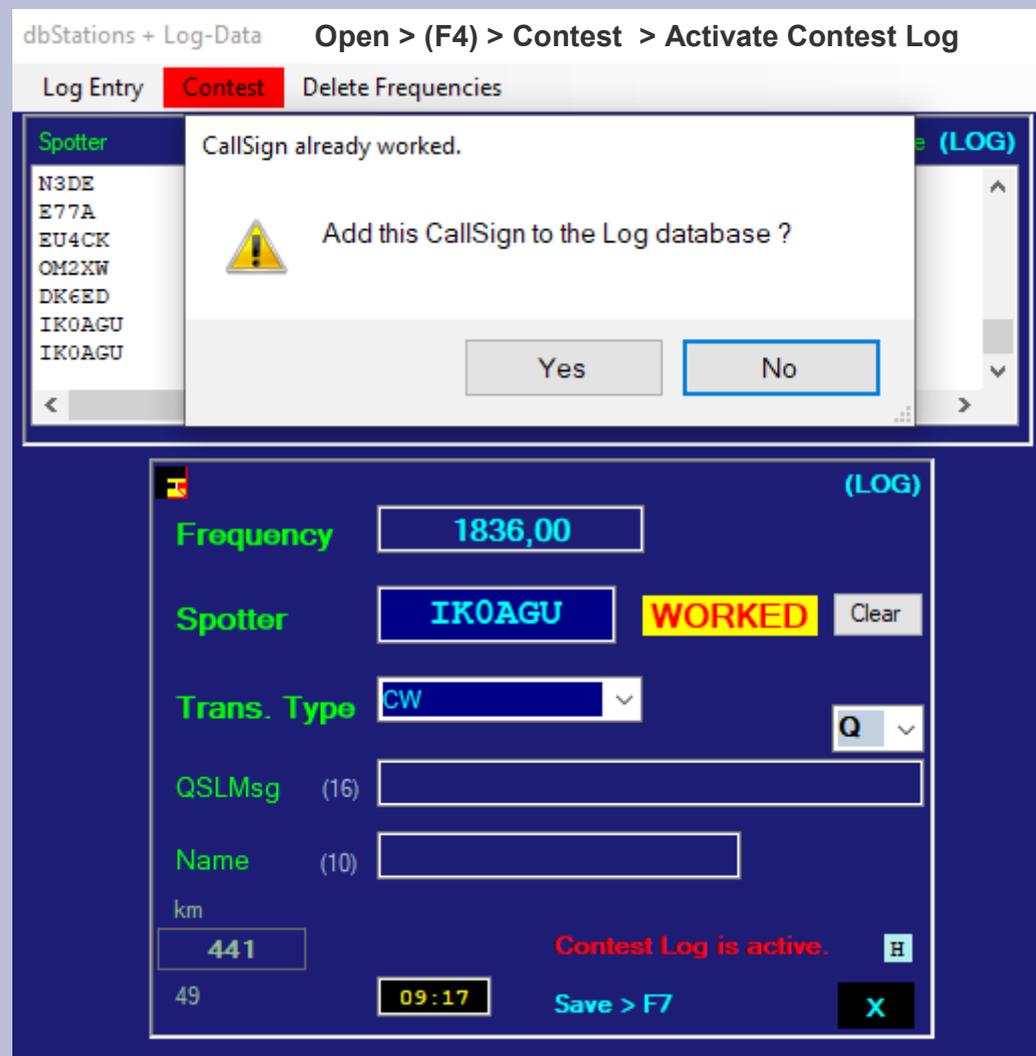
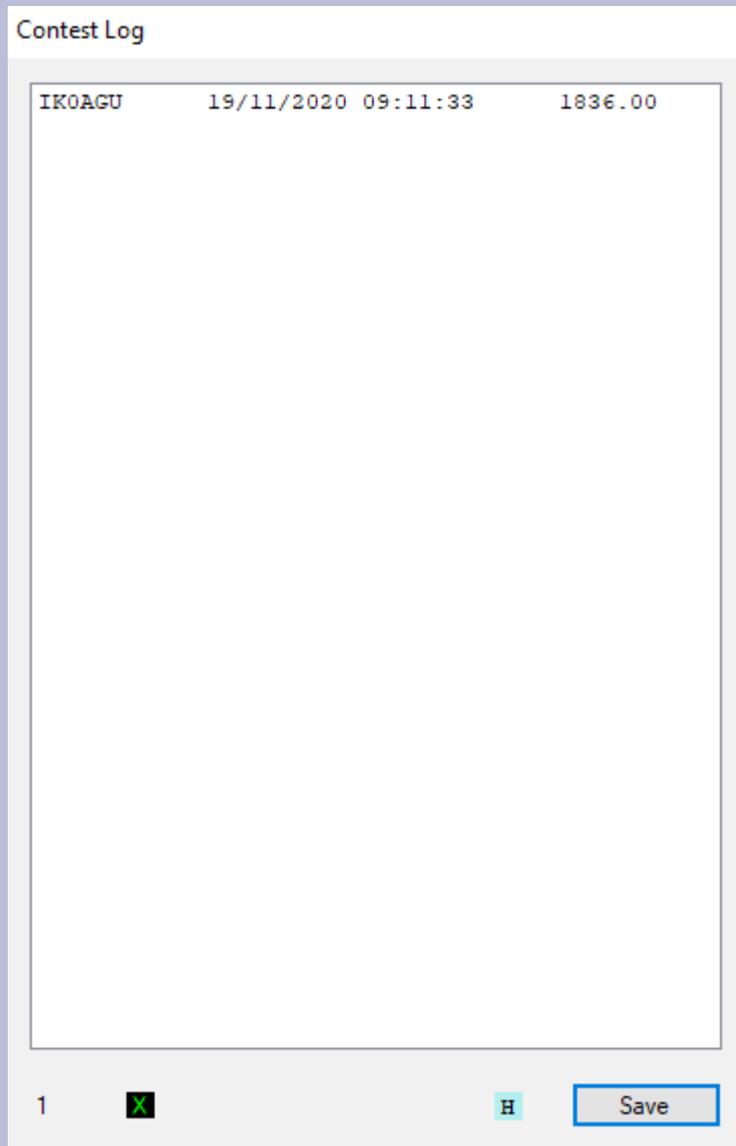
On the right, the 'dbStations + Log-Data' window is open, showing a list of log entries. A context menu is open over the entry for IK0AGU at 1836.00 MHz, with options: 'Activate Contest Log', 'Show Contest Log', and 'Delete Contest Log'. Below the list is a control panel with the following fields:

- Frequency: 1836,00
- Spotter: (empty field)
- Trans. Type: CW
- QSLMsg: (16) (empty field)
- Name: (10) (empty field)
- km: 441
- Time: 09:14
- Status: Contest Log is active.
- Buttons: Save > F7, X

Wrong Contest Contact ? Delete the Contact from the Contest Log List.

# Contest worked CallSign control

4/4



Contest Contact Control checks and verifies if a contest contact already exists. The Contest LOG is a separate List that must be canceled before starting a new / single Contest. Verification is activated when we confirm a contact (LOG Entry - F7).

However, you can validate the contact for the LOG database by confirming the message that appears.

# Edit / Modify LogData / Search

Modify / Edit Log-Data Open > (F4) > Log Entry > Modify / Edit Log

ADI/ADIF

DL7AT 04/11/2020 21:04:40 80m 3728.00 LSB CW 907 \* CQ Contest

80m LSB CW Andreas Name Q C / Q

Spotter	Utc Date Time	Band	Frequency	Mode	Transm. Type	Distance Km	Master Name	Comment	C / Q
9A1AA	16/10/2020 14:05:23	40m	7013.50	CW	CW	507 *	Ivo	-	C
9A5M	29/09/2020 04:03:40	80m	3510.00	CW	CW	520 *	-	-	C
DJ5PM	18/10/2020 20:50:12	80m	3597.00	USB	RTTY	872 *	Horst		
DK8VD	12/10/2020 22:22:51	80m	3556.70	CW	CW	621 *	Dieter		
DL2ASG	05/10/2020 00:29:26	80m	3558.20	CW	CW	607 *	Martin		
DL6DH	18/10/2020 21:18:11	80m	3590.00	USB	RTTY	681 *	Henning		
DL6SFR	18/10/2020 22:10:24	80m	3595.50	USB	RTTY	414 *	Steffen		
DL7AT	04/11/2020 21:04:40	80m	3728.00	LSB	CW	907 *	Andreas	CQ Contest	Q
DO1RTH	05/10/2020 01:32:10	80m	3520.00	CW	CW	576 *	Christoph		
DO6RV	12/10/2020 22:53:04	80m	3556.70	CW	CW	324 *	Stephan		
E77A	29/09/2020 04:44:22	80m	3511.50	CW	CW	491 *	Slaven		
EI2JD	18/10/2020 22:01:07	80m	3595.50	USB	RTTY	1594 *	Thos		
F4EGA	18/10/2020 22:16:14	80m	3595.50	USB	RTTY	845 *	Patrik		
F4HER	18/10/2020 21:21:31	80m	3590.00	USB	RTTY	909 *	Philippe		

42 Print 1 Search by: Spotter Search Save Clear Fields X

Select a Record. Rec-Data is visible in the Input-Fields.

R-Mouse-Click > Delete Record.

346 \*

Distance Km Master

\* = present in Master CallSign dBase

Read the [ H ]elp

Distance is indicated if the Spotter Locator is present.

Editable: Spotter, Band, Mode, Transmission Type, Name, Comment, C/Q

When you Edit or Modify it is suggested to open the:  
dBaseMaster CallSign dBase (F6). Both are connected.

dBaseMaster: Open the "Country" view.

Search by: Spotter

- Spotter
- Band
- Mode
- Date
- Name
- Transmission Type
- Not in dBaseMaster

Next >>>

Modify / Edit Log-Data Open > (F4) > Log Entry > Modify / Edit Log

ADI/ADIF

DL7AT 04/11/2020 21:04:40 80m 3728.00 LSB CW 907 \* Comment / QsIMsg  
CQ Contest

80m LSB CW Andreas Name Q C / Q

Spotter	Utc Date Time	Band	Frequency	Mode	Transm. Type	Distance Km	Master	Name	Comment	C / Q
9A1AA	16/10/2020 14:05:23	40m	7013.50	CW	CW	507	*	Ivo		- C ^
9A5M	29/09/2020 04:03:40	80m	3510.00	CW	CW	520	*	-		- C
DJ5PM	18/10/2020 20:50:12	80m	3597.00	USB	RTTY	872	*	Horst		
DK8VD	12/10/2020 22:22:51	80m	3556.70	CW	CW	621	*	Dieter		
DL2ASG	05/10/2020 00:29:26	80m	3558.20	CW	CW	607	*	Martin		
DL6DH	18/10/2020 21:18:11	80m	3590.00	USB	RTTY	681	*	Henning		
DL6SFR	18/10/2020 22:10:24	80m	3595.50	USB	RTTY	414	*	Steffen		
DL7AT	04/11/2020 21:04:40	80m	3728.00	LSB	CW	907	*	Andreas	CQ Contest	Q
DO1RTH	05/10/2020 01:32:10	80m	3520.00	CW	CW	576	*	Christoph		
DO6RV	12/10/2020 22:53:04	80m	3556.70	CW	CW	324	*	Stephan		
E77A	29/09/2020 04:44:22	80m	3511.50	CW	CW	491	*	Slaven		
EI2JD	18/10/2020 22:01:07	80m	3595.50	USB	RTTY	1594	*	Thos		
F4EGA	18/10/2020 22:16:14	80m	3595.50	USB	RTTY	845	*	Patrik		
F4HER	18/10/2020 21:21:31	80m	3590.00	USB	RTTY	909	*	Philippe		

42 Print 1 Search by: Spotter Search Save Clear Fields X

Search is using 7 [ search-by ] data selections.  
 'Date' + '[x] by Date' opens the Date-Picker. Select.  
 [Search by:] -Date is searching by **one Date only**.  
 [x] by Date + [Search by]-different is **searching x 2 Data items**:  
 Example: Mode (USB) search within a Date-Period.  
 From 03/10/2020 to 27/09/2020 (**inverted**) is accepted.

Select/Click a Record. Rec is **copied** into the Input-Fields.  
 Search is considering '**Search by**' + the related **Field Value**.  
 Search x Spotter: Full CallSign or partial.

Select a Rec or Input a single data into the Rec/Data-Fields.  
 [Search by: ] >>> [Search]

Modify / Edit Log-Data

27/09/2020 80m

domenica 27 settembre 2020 80m

Sp < settembre 2020 >

R7	lun	mar	mer	gio	ven	sab	dom	5
	31	1	2	3	4	5	6	
	7	8	9	10	11	12	13	
	14	15	16	17	18	19	20	
	21	22	23	24	25	26	27	
	28	29	30	1	2	3	4	
	5	6	7	8	9	10	11	

Oggi: 07/10/2020

Search by: "Date". Click on a Item.  
 The Date Selection is opening.

Search by: Spotter

- Spotter
- Band
- Mode
- Date
- Name
- Transmission Type
- Not in dBMaster

Modify / Edit Log-Data Open > (F4) > Log Entry > Modify / Edit Log

ADI/ADIF

04/11/2020 21:04:40 80m 3728.00 LSB CW 907 \* Comment / QslMsg  
CQ Contest

80m LSB CW Andreas Name Q C / Q

Spotter	Utc Date Time	Band	Frequency	Mode	Transm. Type	Distance Km	Master Name	Comment	C / Q
9A1AA	16/10/2020 14:05:23	40m	7013.50	CW	CW	507	Ivo		- C
9A5M	29/09/2020 04:03:40	80m	3510.00	CW	CW	520	-		- C
DJ5PM	18/10/2020 20:50:12	80m	3507.00	USB	RTTY	870	Horst		
DK8VD	12/10/2020 22:22:51	80m					Dieter		
DL2ASG	05/10/2020 00:29:26	80m					Martin		
DL6DH	18/10/2020 21:18:11	80m					Henning		
DL6SFR	18/10/2020 22:10:24	80m					Steffen		
DL7AT	04/11/2020 21:04:40	80m					Andreas	CQ Contest	Q
DO1RTH	05/10/2020 01:32:10	80m					Christoph		
DO6RV	12/10/2020 22:53:04	80m					Stephan		
E77A	29/09/2020 04:44:22	80m					Slaven		
EI2JD	18/10/2020 22:01:07	80m					Thos		
F4EGA	18/10/2020 22:16:14	80m	3595.50	USB	RTTY	845	Patrik		
F4HER	18/10/2020 21:21:31	80m	3590.00	USB	RTTY	909	Philippe		

By Spotter  By Date  Sorted RFO

From Record >>> To Record

1 42 -

Exit H Print 2

42 Print 1 Search by: Spotter H Search Save H Clear Fields X

Read the [ H ]elp

Printing the Log-File and Search results.

Choose [x]-bySpotter (Default) or [ ]-ByDate, [x]-Sorted (Default).

By Spotter or By Date is exchanging the first 2 columns.  
Spotter | DateTime or DateTime | Spotter.

Printing is creating the file "logprint.txt" including all Records or only the Search-Result.

Click on the [ Open File ]-Button. Preview or print it > next page.

Use your own Editor and Printer System. Format A4 "Landscape", Font: Bold, Points: 10.

It is suggested to open the dBMaster CallSign dBase (F6). Both are connected.

Next >>>

# Edit / Modify LogData / Search + Print Panel [Print 1]

[x] Sorted  
 Default = [x] Sorted. Valid x Search + Printing.

Search by [Date]. Only x 1 Date | From Date .. To Date not active.

Utc Date Time	Band	Frequency	Mode	Transm. Type	Distance Km
18/10/2020 20:50:12	80m	3597.00	USB	RTTY	872
18/10/2020 21:18:11	80m	3590.00	USB	RTTY	681
18/10/2020 22:10:24	80m	3595.50	USB	RTTY	414
18/10/2020 22:01:07	80m	3597.00	USB	RTTY	1594
18/10/2020 22:16:14	80m	3597.00	USB	RTTY	845
18/10/2020 21:21:31	80m	3597.00	USB	RTTY	909
18/10/2020 21:53:11	80m	3597.00	USB	RTTY	19
18/10/2020 21:03:36	80m	3597.00	USB	RTTY	872
18/10/2020 20:53:10	80m	3597.00	USB	RTTY	393
18/10/2020 21:29:21	80m	3597.00	USB	RTTY	1492
18/10/2020 20:34:41	80m	3597.00	USB	RTTY	951
18/10/2020 21:24:17	80m	3597.00	USB	RTTY	3584
18/10/2020 21:07:46	80m	3595.50	USB	RTTY	263
18/10/2020 21:00:24	80m	3595.50	USB	RTTY	1144

Search by: Spotter  
 With the Spotter Input-Field empty Search is selecting the whole dBase.

Search by: [Band] or else (not Date) + [x] By Date | Search on 2 Data. By Band (80m) selected + by Date From 16/10/2020 to 18/10/2020.

Date Time	Band	Frequency	Mode	Transm. Type	Distance Km
10/2020 20:50:12	80m	3597.00	USB	RTTY	872
10/2020 21:18:11	80m	3590.00	USB	RTTY	681
10/2020 22:10:24	80m	3595.50	USB	RTTY	414
10/2020 22:01:07	80m	3597.00	USB	RTTY	1594
10/2020 22:16:14	80m	3597.00	USB	RTTY	845
10/2020 21:21:31	80m	3597.00	USB	RTTY	909
10/2020 21:53:11	80m	3597.00	USB	RTTY	19
10/2020 21:03:36	80m	3597.00	USB	RTTY	872
10/2020 20:53:10	80m	3597.00	USB	RTTY	393
10/2020 21:29:21	80m	3597.00	USB	RTTY	1492
10/2020 20:34:41	80m	3597.00	USB	RTTY	951
10/2020 21:24:17	80m	3597.00	USB	RTTY	3584
10/2020 21:07:46	80m	3595.50	USB	RTTY	263
10/2020 21:00:24	80m	3595.50	USB	RTTY	1144
10/2020 23:20:49	80m	3595.42	USB	RTTY	738

## PRINTING [ Print 2 ]

- (1) The inverted Date Input is accepted.
- (2) By Spotter or By Date is exchanging the first 2 columns. Spotter | DateTime or DateTime | Spotter.

The [x]By Date has 2 different uses. Search + Print.

[ Print 1 ] is opening + closing the Print Panel.

Search by: Band

# Edit / Modify LogData / Menu [ ADI/ADIF ] Upload Adi File

Modify / Edit Log-Data

ADI/ADIF

18/10/2020 21:24:17 80m 3590.00 USB RTTY 3584 \* Comment

80m USB RTTY Korkino Name

Spotter	Utc Date Time	Band	Frequency	Mode	Transm. Type	Distance Km	Master	Name	Comment
9A1AA	16/10/2020 14:05:23	40m	7013.50	CW	CW	507	*	Ivo	
9A5M	29/09/2020 04:03:4					20	*		
DJ5PM	18/10/2020 20:50:3					72	*	Horst	
DK8VD	12/10/2020 22:22:9					21	*	Dieter	
DL2ASG	05/10/2020 00:29:3					07	*	Martin	
DL6DH	18/10/2020 21:18:3					81	*	Henning	
DL6SFR	18/10/2020 22:10:3					14	*	Steffen	
DO1RTH	05/10/2020 01:32:3					76	*	Christoph	
DO6RV	12/10/2020 22:53:0					24	*	Stephan	
E77A	29/09/2020 04:44:3					91	*	Slaven	
EI2JD	18/10/2020 22:01:0					94	*	Thos	
F4EGA	18/10/2020 22:16:3					45	*	Patrik	
F4HER	18/10/2020 21:21:3					09	*	Philippe	
F4VSR	25/10/2020 16:16:24	40m	7021.07	USB	CW	818	*	Eesbeek	

File Name: eQslArchive No Extension.

Optional Fields:  UnCheck

Gridsquare: JN55WJ

My Town: Padova  [H]

My CallSign:

Distance:

Save Configuration

Print ADI File

38 Print 1 Search by: Spotter [H] Search Exit search 38 Save [H] Clear Fields X

Default Fields:

- Date
- Time
- Spotter
- Frequency
- Freq Band
- Mode
- Transmission Type
- Comment / QSLMsg

Optional Fields:

- My\_Gridsquare
- My\_City
- My\_CallSign
- Distance in Km

Read the [ H ] help

```
eQslArchive.adi - Blocco note di Windows
File Modifica Formato Visualizza ?
File: eQslArchive.adi
<ADIF_VER:5>2.2.7
<PROGRAMID:10>RFRScanner
<PROGRAMVERSION:5>1.0.6
<EOH>
<QSO_DATE:8>20201016<TIME_ON:4>1405<CALL:5>9A1AA<FREQ:8>7.013500<BAND:3>40m<MODE:2>CW<MY_GRID SQUARE:6>JN55WJ<MY_CITY:6>Padova<DISTANCE:3>507<EOR>
<QSO_DATE:8>20200929<TIME_ON:4>0403<CALL:4>9A5M<FREQ:8>3.510000<BAND:3>80m<MODE:2>CW<MY_GRID SQUARE:6>JN55WJ<MY_CITY:6>Padova<DISTANCE:3>520<EOR>
<QSO_DATE:8>20201018<TIME_ON:4>2050<CALL:5>DJ5PM<FREQ:8>3.597000<BAND:3>80m<MODE:4>RTTY<MY_GRID SQUARE:6>JN55WJ<MY_CITY:6>Padova<DISTANCE:3>872<EOR>
```

FileName is always requested without extension. Optional Fields can be added and the Checkbox x each Field must be Checked.  
 [ Save Configuration ] Save your data for the next Session.  
 [ Print ADI File ] create the File.

You can Filter and search x several different Results. By Mode, Mode + Date, by Transmission Type; From..To ecc...  
 Use [ Search ] and get the Search-Result List. Check the List if it contains what you need.

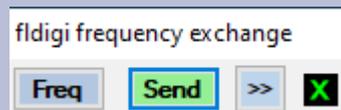
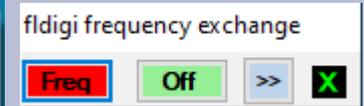
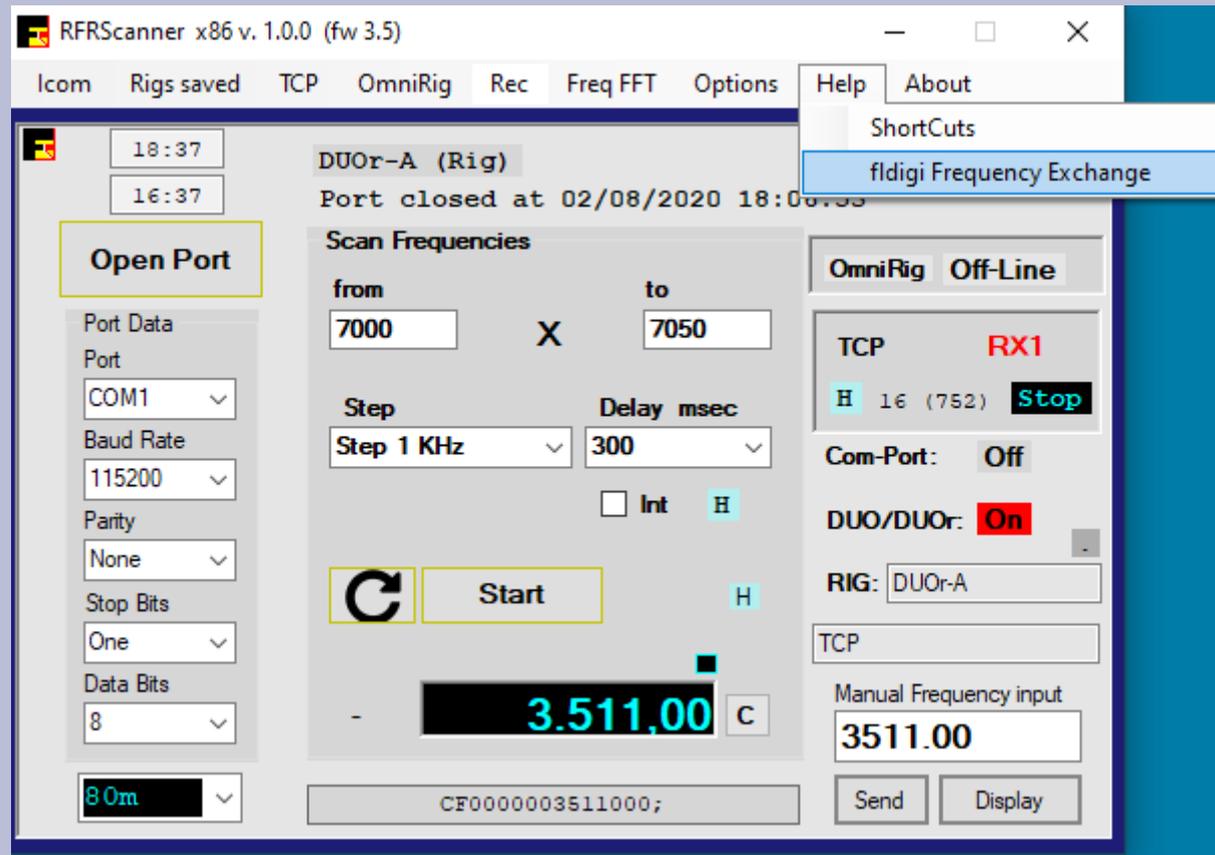
Modify / Edit Log-Data

ADI/ADIF

Open Last ADI File

Start the [ Print ADI File ]

# Fldigi Frequency exchange Semiautomatic



Is doing it in automatic.

## Fldigi Audio history and “casual tuning”

You can temporarily “monitor” a different signal by right-clicking on it.

As long as you hold the mouse button down, the signal under it will be decoded;

as soon as you release the mouse, decoding will revert to the previously tuned spot (where the red marks are).

If you also hold the Control key down before right-clicking, Fldigi will first decode all of its buffered audio at that frequency.

# Database Converter

\*.txt, cvs, eibi ecc... are allText Files, extract + position any field  
create a new database for your application  
convert and translate to \*.xml for the Elad SW2  
test: connect to your Rig using OmniRig  
Tested, ILG db with +30000 Records

1/2

The ...\\Work Folder\\... is including 4 example dBase files with explanation x by\_Position and by\_Delimiter database.

RFRConverter x86 v. 1.0.0 (fw 3.5) - Copyright by Raimund Forstmeier, Padova/Italy

Menu > Help > Connect a RFRScanner dBase...  
Local Converter Help > Read the [ H ]elp

Translate x Elad Save OmniRig Field Position Help About

Frequency	Station	Time	Transmission Data	Place	Transmit >>> (EU AF ...)	Country	Transmission type
212.01	BCY (Thorp Boise C			BCY (Thorp Boise City, OK)		US	
212.01	BCY (Thorp Boise C			BCY (Thorp Boise City, OK)		US	

Select Read by Delimiter or by-Positions

Field Divisor ( . \_ space ecc.. )

By Positions

Local Field	Field Length
6,13	1
22,41	2
81,92	3
	4
22,52	5
	6
18,21	7
	8

Actual Field Pos: 94 / 1

Your Record Fields	Local Fields Translated	Default Field Length	Your Field Length
28230	Frequency	10	10,9,2
IQ8CZ (Catanzaro)	Station	22	22,22,2
	from Time to (Default 0000-2400)	9	9,9,2
	Transmission Data	16	16,16,2
IQ8CZ (Catanzaro)	Place	32	32,32,2
	Transmit to >>> (EU AF ...)	20	20,20,2
I	Country	20	20,20,2
	Transmission Type	20.....	20,20,2

Rec\_Length: 145

FieldPos: 136

Convert Frequency NO DEC Separator

Test Record Field N° 1

Divisor

Add Trans-Mode (8)

Open > base\Work Folder\MW.txt <> Select your dB File Save Session < FileName MW\_Complete > Load Session Test Translate Save

219.00 W7 (Pabok du Roche) W7 (Pabok du Rocher-Perce, QC) CA

Input FileName

Translate "Mode-Type" to RIG-Mode

CLOSE

The dBase Converter, 'Converter.exe' is in Sub Directory Program Path...\\Converter. Create a connection to your Desktop.

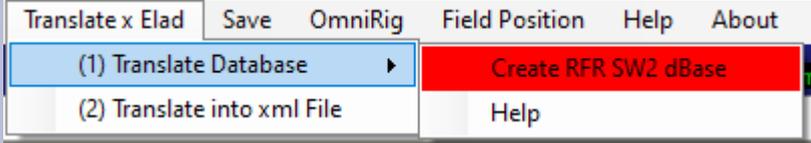
Next >>>

# RFRScanner update v 1.0.3 Database Converter

## Translate any dBase into a RFRScanner dBase (SW2)

Following the latest update v 1.0.2 this update is a logical sequence.  
Read the Help Menu > Help > [Create a RFR SW2 dBase]

1. Select



Useful



(2) Translate for the SW2 Station Memory  
See: TCP Up-Load Local SW2 dBase.

Read the [H]elp

Example:  
\\Work Folder \MW\_Complete.cfg

### 2. Select: (1) Translate Database

Translating Field 1, 2, 8

Before translating and After Translating.

Select Read by Delimiter or by-Positions

Field Divisor ( . \_ space ecc..)

By Positions

Local Field	
1	6,13
2	22,41
3	81,92
4	
5	22,52
6	
7	18,21
8	

H X

Your

Field Length

MaxLe, Le, distance

10,9,2
22,22,2
9,9,2
16,16,2
32,32,2
20,20,2
20,20,2
20,20,2

Default X

Read the [ H ]elp

Select Read by Delimiter or by-Positions

Field Divisor ( . \_ space ecc..)

By Positions

Local Field	
1	6,13
2	22,41
3	
4	
5	
6	
7	
8	

H X

Your

Field Length

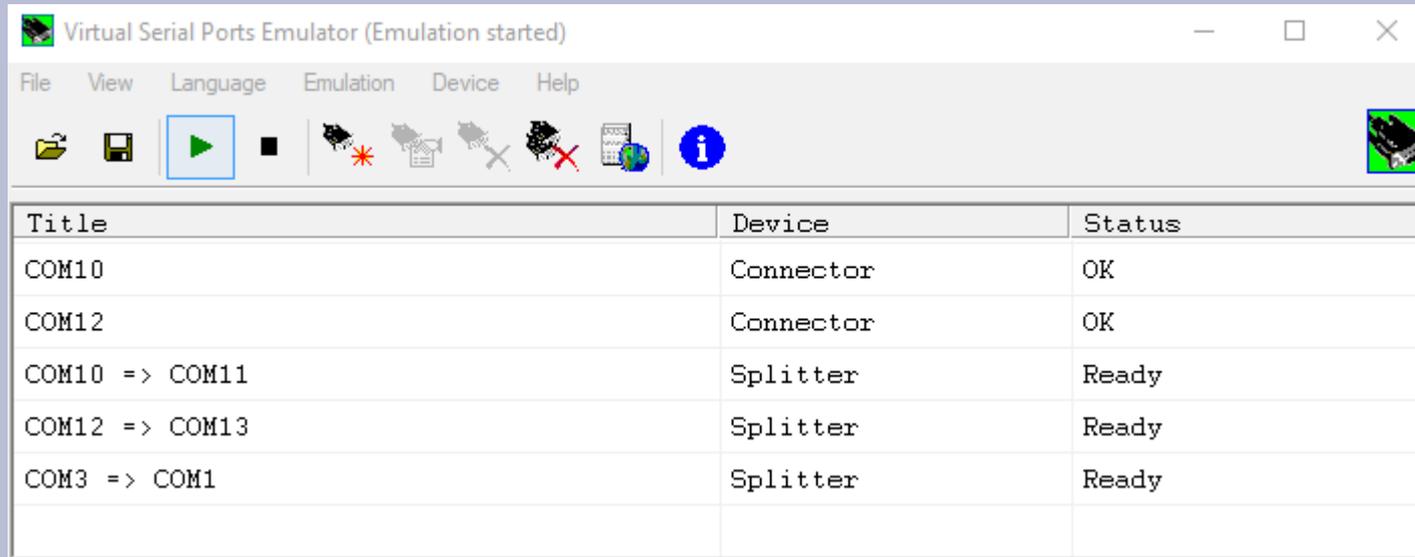
MaxLe, Le, distance

10,9,2
15,15,4
0,0,0
0,0,0
0,0,0
0,0,0
0,0,0
10,10,0

Default X

# Virtual Com-Ports VSPE

**With the ELAD SW2 connected you can use the VSPE just with COM10...COM12 ...  
Example: FDM-SW2 Serial Port >COM10 + fldigi COM11  
Open the SW2. The ELAD Samplers driver must be visible in your "Device Manager" View.**



## **Avoid common troubleshooting**

Make sure that all connected devices are set with the same parameters.  
Com-Port, Baud Rate and Rig where requested like fldigi, CWSkimmer, HRD.

VSPE should be closed and Re-Opened after Com-Port changes.  
Close your Rig and Re-Open it.

Don't forget the right Audio Settings.

If you use HRD, HRD must always be opened first. HRD does not connect if a device is already in use.  
Now you can open the RFRScanner Com-Port.



[Re]fresh (reload) Com-Ports after any ComPort changes.

# Using

## fldigi

### CWSkimmer

### HAM Radio Deluxe

### other...

■ Check and set the right Parameters. Avoid unnecessary complaints.

- Rig
- Device Com-Port
- Baud Rate
- Audio Capture and Playback

fldigi: you can use the RFRScanner “fldigi exchange frequency”.

CWSkimmer: Menu [Options] open SWSkimmer in automatic.

HRD: Always open HRD “first” then other programs.

HRD is not connecting to Com-Port ecc... if a device is already in use.

VSPE: Virtual Com-Port emulator

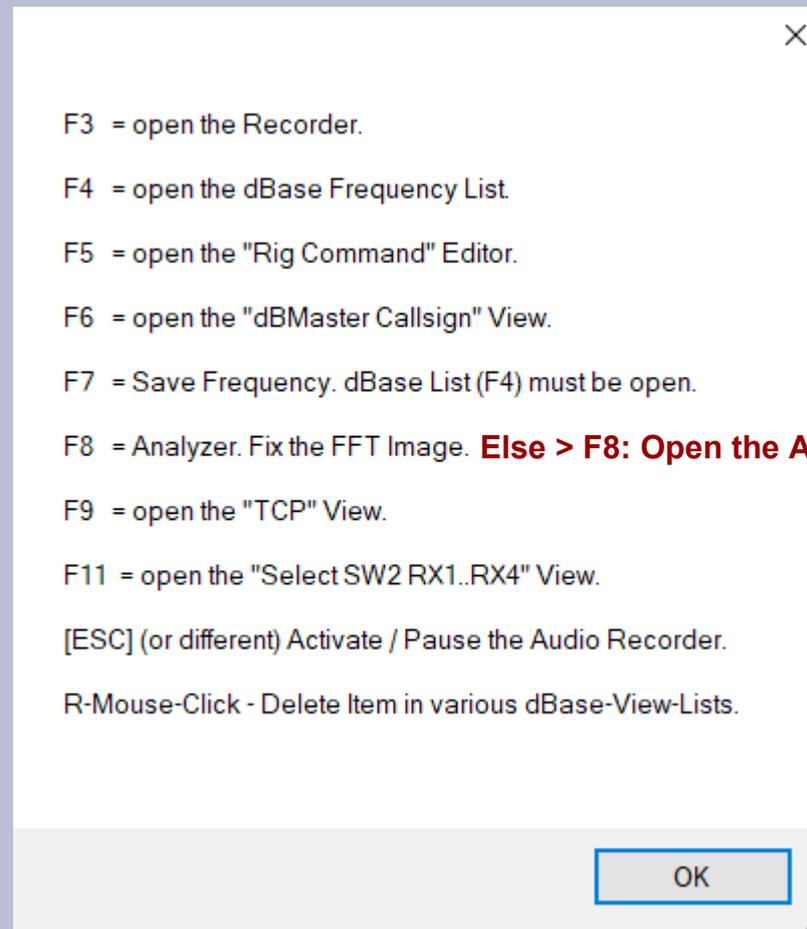
VAC: Virtual Audio Cable

RFRScanner is setting the Baud Rate in automatic

- Icom 19200 default (the included Icom Rig's – hard coded) Menu [ Icom ]
- All saved Rig's (Rig-Editor) are set to the Baud Rate you indicate/input.

# RFRScanner

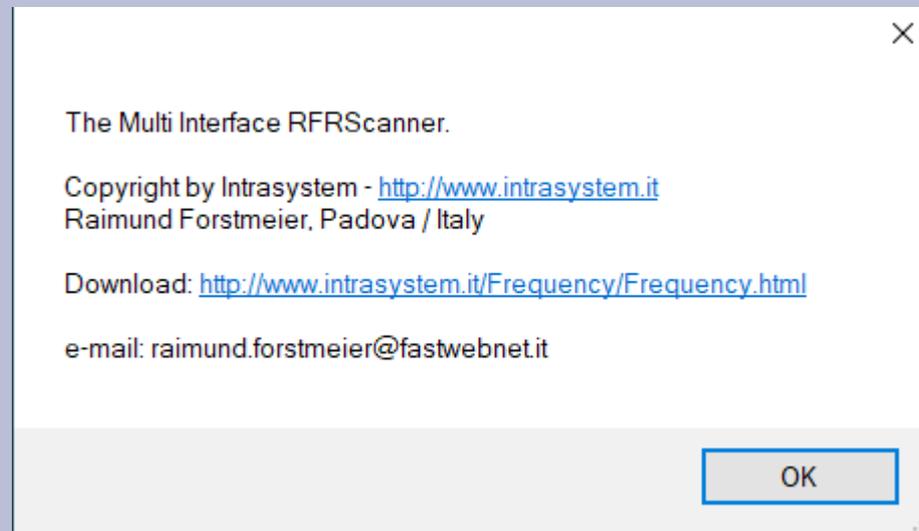
## ShortCuts



# Intrasystem RFRScanner version 1.1.2 OKT/2022

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<http://www.intrasystem.it/Frequency/Frequency.html>



## The BackGround View – 4 colors

RFRScanner Menu > Options > Select BackGround

LightSteelBlue  
MidNightBlue  
DarkGray  
Black

Background

**Select 4 Colors**

**Cover your Desktop behind the  
RFRScanner Views.**

# The specific Help.

## RFRScanner Menu > Help

**Help-Info PopUp: You can Re-Size and change the character Size.**

## Troubleshooting with: Adobe Acrobat Reader \*.pdf

RFRScanner Menu > Help > RFRScanner.pdf

Remember:

Any open error is a internal conflict between Adobe Reader and Windows.

My suggestion is: Reboot

Adobe explanations:

<https://helpx.adobe.com/acrobat/kb/failed-to-connect-to-dde-server.html>