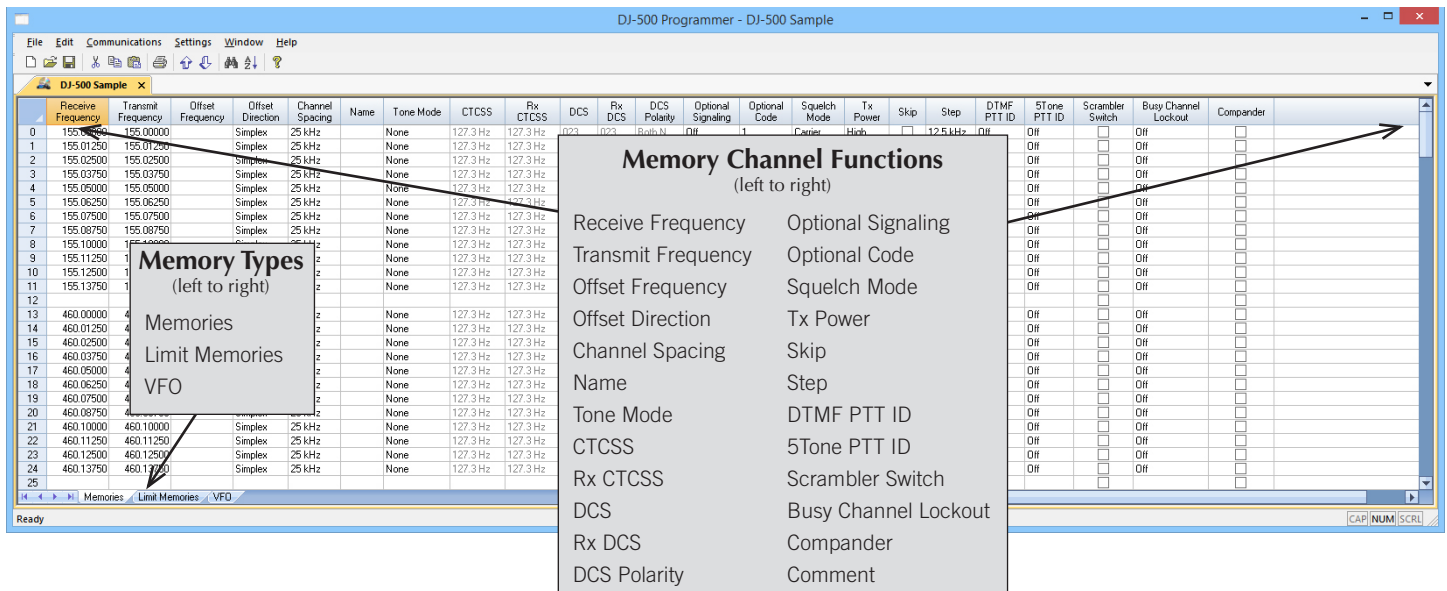


## APK-500 Programming Software for the Alinco DJ-500



The APK-500 Programmer is designed to give you the ease and convenience of programming the memories and set menu options of your radio from your PC.

### Memory Channels Include:

- 200 Memory Channels
- 4 Limit Memories
- 2 VFO Channel

### Other Menu Item Categories Include:

- Common 1
- Common 2
- DTMF
- 5Tone

***The Programmer Is for so Much More than Just Memory Management.***

With the APK-500 Programmer you can begin a new "factory fresh" file into which frequencies and option settings are entered. Or, you can read from the radio, store these details on your computer and make changes. Then, with minimal button pushing, send the new configuration back to the radio.

The Programmer allows you to create and save as many files as you want for your radio. Files can even be shared between users via email or the Internet. Any RT Systems Version 4.50 program can open a file from any other RT Systems Version 4.50 programmer... even from a different radio.

Managing all the options of this radio becomes easy with the Programmer. The cut, copy, paste and insert features of the Programmer make channel management easier than ever.

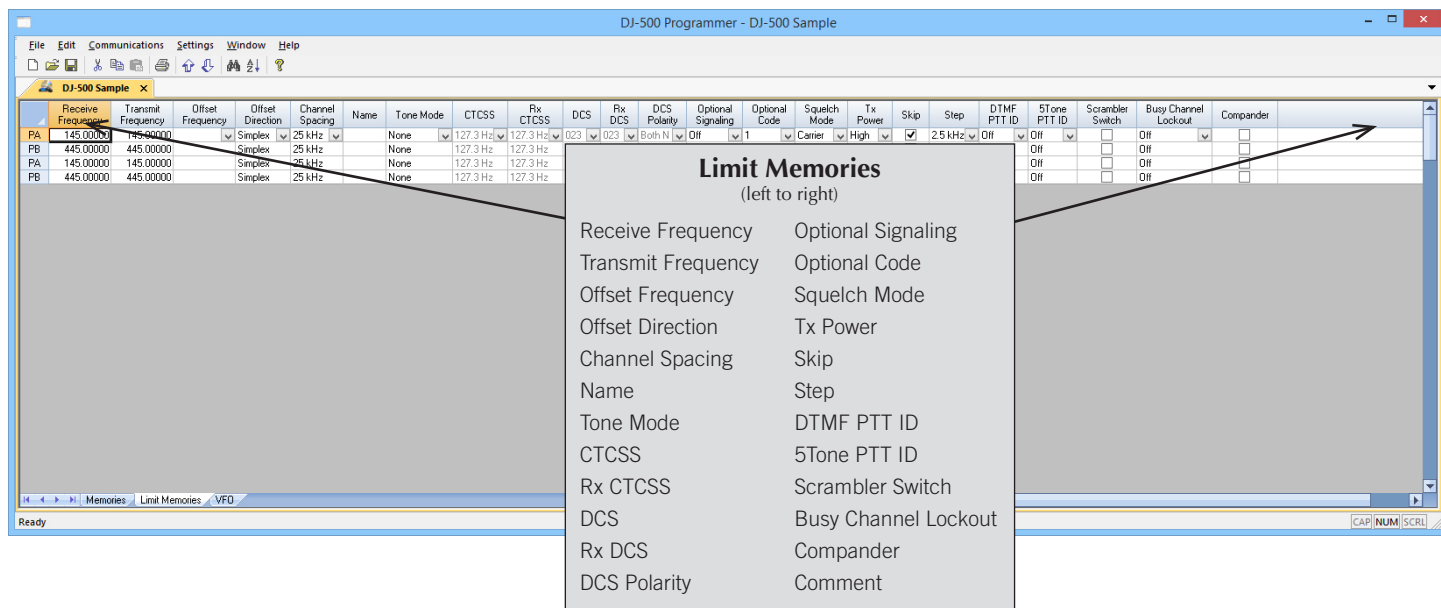
Open more than one file at a time. Memory channel information can be copied from one file to another within the Programmer making it really easy to set up a new file.



### Hardware Requirements:

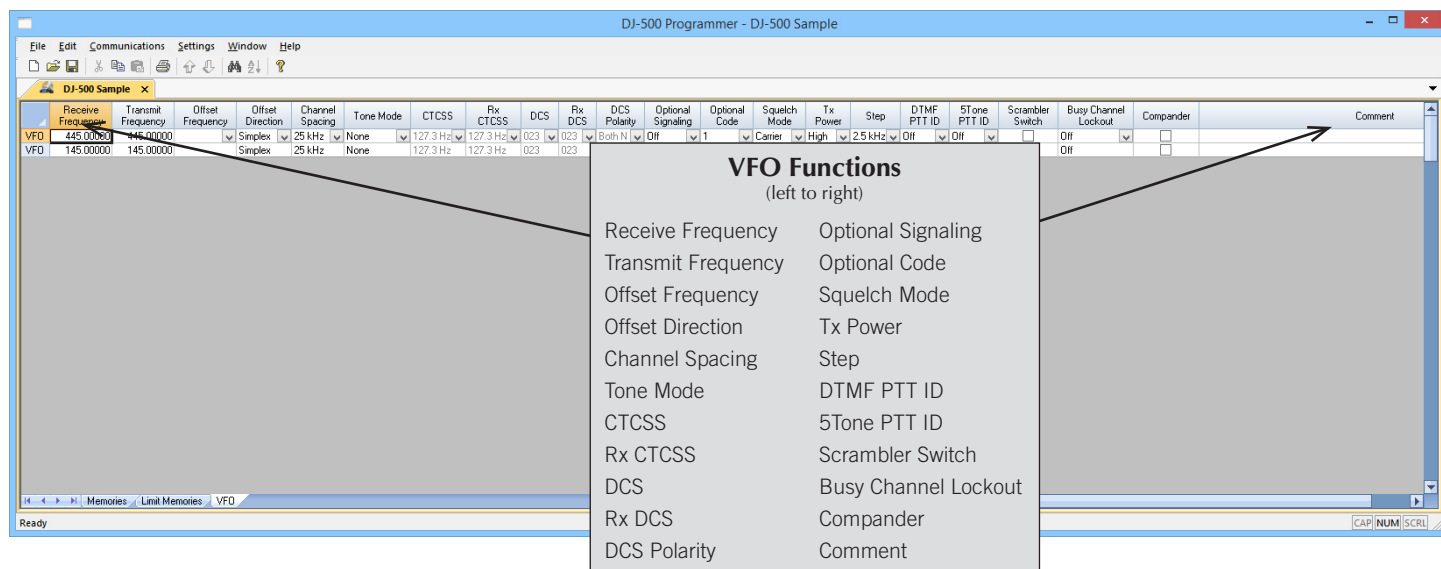
A PC running Windows XP (SP3), Vista, Windows 7 (32 or 64 bit) or Windows 8 or 8.1 (full version). CD drive for installation. Local USB port and RT Systems USB-29A interface cable. The cable connects the radio to the computer from the USB port on the computer to the Data jack on the radio.

## APK-500 Programming Software Memory Types



### Limit Memories

Limit Memories are used by the radio for Program Scan. Program the same details for Limit Memories as for regular memory channels. Many of the Limit Memories are preprogrammed in the radio and while the frequency can be changed to another within the band, they cannot be left blank.



### VFO

The program makes available the same VFOs as in the radio (usually one per band). Remember these are not real memory channels since the details are lost as soon as you tune the radio manually. There is no one button recall for these. You do not need to program into VFO before programming details into a memory channel. These channels are preprogrammed in the radio and while the frequency can be changed to another within the band, they cannot be left blank.

## APK-500 Programming Software Radio Option Setting Screens

Menu Settings for DJ-500 - Untitled.rsf

File Tabs Help

Common 1 Common 2 DTMF 5Tone

Power On Message

Display Mode  
Frequency

☐ Alarm Off  
☐ All Band  
☒ Beep  
☐ Disable Setup Menu  
☐ Eliminate Squelch Tail  
☐ Init Inhibit  
☐ Lock  
☐ Radio

A Band  
VFO/Memory  
VFO  
Memory Channel  
0  
SQL  
3

B Band  
VFO/Memory  
VFO  
Memory Channel  
1  
SQL  
3

FM Radio  
VFO/Memory  
VFO  
Band Memory Channel  
0

Auto Power Off  
Off  
Backlight  
Auto  
Backlight Color  
White  
Function Keys Timeout  
0 seconds (FUNCT)  
Main  
Up  
Power Save  
1:2  
Scan Pause Time  
5 ST  
Squelch Key  
Off Momentarily

Sub Band Display  
Frequency/Channel  
Tail Eliminator  
Off  
Time Out Timer  
3 minutes  
Tone Burst  
1750 Hz  
Vox Level  
Off  
Vox Delay  
0.5

### Common 1 and Common 2

Use these screens to customize other set menu features of the radio. Check boxes toggle features on or off, drop down menus list all selections and blank boxes for personalized entry add to the ease of setting up your radio exactly like you want it.

The entries on the Settings screens are made for you to "Set and Forget". Once settings are customized, you are prompted to save before exiting. The saved settings will be there every time you create a new frequency file.

Menu Settings for DJ-500 - Untitled.rsf

File Tabs Help

Common 1 Common 2 DTMF 5Tone

Emergency Information  
Alarm  
Both  
ENI Type Select  
None  
ID  
Alarm Time  
10 seconds  
Tx Duration  
10 seconds  
Rx Duration  
10 seconds  
ENI Send Select  
Assigned Channel  
Channel  
0  
Cycle  
Continuous

Communication Note

	Call ID	Name
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Menu Settings for DJ-500 - Untitled.rsf

File   Tabs   Help

Common 1   Common 2   **DTMF**   5Tone

1st Digit

200 ms

Auto Reset

10.0 seconds

Decode Response

None

Encode Delay

200 ms

Encode Preload

500 ms

Group Code

A

Interval Character

\*

PTT ID Delay

Off

Speed

30 ms

☐ ANI

☒ Side Tone

Self ID

001

PTT ID Start (BOT)

PTT ID End (EDT)

	Number
M1	
M2	
M3	
M4	
M5	
M6	
M7	
M8	
M9	
M10	
M11	
M12	
M13	
M14	
M15	
M16	

Use E for \* and F for #

DTMF

Enter DTMF memory details and customize options for this function of the radio.

Menu Settings for DJ-500 - Untitled.rsf

File   Tabs   Help

Common 1   Common 2   DTMF   **5Tone**

Decode Standard

ZVEI1

Self ID

12345

☒ Side Tone

Decoding Response

None

Decode Time

20 ms

Decode Tone Time

70 ms

Encode Delay

200 ms

Encode Preload

500 ms

1st Delay

200 ms

Auto Reset Time

10.0 seconds

PTT ID Delay

5 seconds

Stop Code

Off

Stop Time

200 ms

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
ZVEI1	2400.0 Hz	1060.0 Hz	1160.0 Hz	1270.0 Hz	1400.0 Hz	1530.0 Hz	1670.0 Hz	1830.0 Hz	2000.0 Hz	2200.0 Hz	2600.0 Hz	810.0 Hz	970.0 Hz	885.0 Hz	2600.0 Hz	680.0 Hz

	Encode ID	Encode Standard	Encode Time	Name
1	User:12345	ZVEI1		
2				
3				
4				
5				
6				
7				
8				

	PTT ID Encode ID	Encode Standard	Encode Time
BOT			
EDT			

Information ID

	Function Option	Decoding Response	Information ID	Function Name
1	Squelch Off	None		
2	Squelch Off	None		
3	Squelch Off	None		
4	Squelch Off	None		

5 Tone

Set options for a 5Tone paging sytem.

The screenshot shows the 'Grid Display' tab of the Preferences dialog. It includes a 'Freeze' spinner set to 1, an 'Alternate row' table with rows 1-4, 'Fore' and 'Back' buttons, a 'Use Combo for Check box' checkbox, a 'Language' dropdown set to 'English', and a table to 'Mark the columns to hide'.

Column	Hide
Transmit Frequency	<input type="checkbox"/>
Offset Frequency	<input type="checkbox"/>
Offset Direction	<input type="checkbox"/>
Name	<input type="checkbox"/>
Tone Mode	<input type="checkbox"/>
CTCSS	<input type="checkbox"/>
Rx CTCSS	<input type="checkbox"/>
DCS	<input type="checkbox"/>
Tx Power	<input type="checkbox"/>
Busy Channel Lockout	<input type="checkbox"/>
Skip	<input type="checkbox"/>
Clock Shift	<input type="checkbox"/>
Battery Save	<input type="checkbox"/>
Comment	<input type="checkbox"/>

## Grid Display

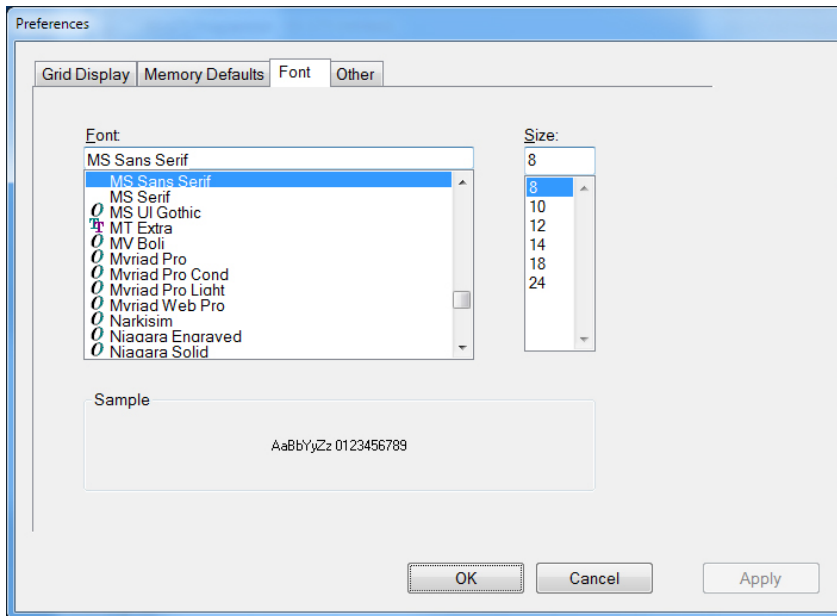
- RT Systems now available in English, French, German, Italian, Spanish, Portuguese and Japanese.
- Set colors for text (Fore) or background (Back) of alternate rows for easier viewing across the columns.
- Freeze columns to keep information on the screen as you scroll to the right of the page.
- Hide columns you don't use. Customize your print-out: hidden columns do not print.
- Use Combo for Check boxes – changes the grid to eliminate check box selections that are disabled on some systems.

The screenshot shows the 'Memory Defaults' tab of the Preferences dialog. It includes checkboxes for 'Open last file when starting programmer', 'Check ShowName Automatically', 'Convert Split offsets to standard Plus or Minus when available', and 'Disable CTCSS, DCS and other Tone columns according to the Tone Mode selection'. It also features 'Offset Frequency Defaults' dropdowns for HF, 6m, 2m, 1.25m, and 70cm bands, and an 'Add and Remove Offsets' table.

Offset
1 100 kHz
2 500 kHz
3 600 kHz
4 1.00 MHz

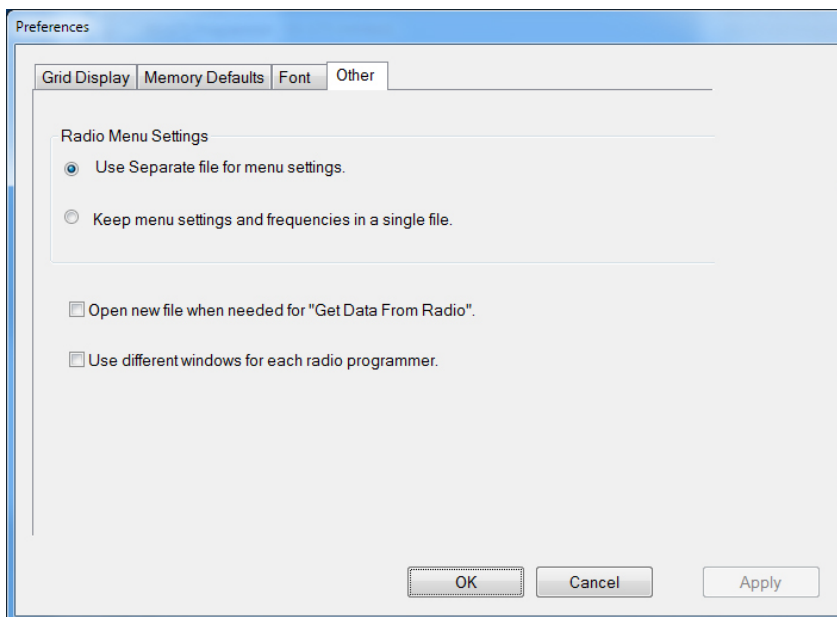
## Memory Defaults

- Set options to control auto fill information for memory channel entries.



#### Font

- Set options to control the font in the column headers of the channel entry screens. Select any font and font size available on your computer.



#### Other

- Set options to control how the programmer handles the global Radio Menu Settings file.
  - Separate (default) handles the global settings of the radio in a “set and forget” fashion. Once you set these up and save the file you won’t have to reset them for a new frequency file.
  - “Single file” gives you the ability to create files that are complete with frequencies and customized global settings. In this mode, each file begins with factory defaults for every option of the radio.
- Check “Get data from Radio” new file option to prevent data loss when you read from your radio into the programmer.
- Check “different window” option to make the programmer for a different radio run in completely separate window rather than in a separate tab of the same window.

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