

APK-500 Programming Software for the Alinco DJ-500

	DJ-500 Programmer - DJ-500 Sample 🗕 🗖 🗙																							
Eile	<u>E</u> dit <u>C</u> omm	unications	Settings Wind	dow <u>H</u> e	elp																			
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1	DJ-500 Sam	ole ×																						
	Receive Frequency	Transmit Frequency	Offset Frequency [Offset Direction	Channel Spacing	Name	Tone Mode	CTCSS	Rx CTCSS	DCS Rx DCS	DCS Polarity	Optional Signaling	Optional Code	Squeich Ta Mode Pow	er Skip	Step	DTM PTT I	F 5Tone D PTTID	Scrambler Switch	Busy Channel Lockout	Company	ler	_	-
0	1551.000	155.00000		mplex	25 kHz		None	127.3 Hz	127.3 Hz	023 023	Both N	Off	1	Carrier High		12.5 kHz	O#	Off		Off			-	7
1	155.01250	155.01250			25 kHz		None	127.3 Hz	127.3 Hz		1000		~han	nol Eur	otion	•		Off		Off			_	
2	155.02500 155.03750	155.02500 155.03750		mplex	25 kHz 25 kHz		None	127.3 Hz 127.3 Hz	127.3 Hz 127.3 Hz	1	viem	ory C	Lnan	nel Fun	CUOI	15		Off		Off Off		_		
4	155.05000	155.05000		mplex	25 kHz		None	127.3 Hz	127.3 Hz			((left to	right)				Off	H	01	H			
5	155.06250	155.06250		mplex	25 kHz		None	127.3 Hz	127.3 Hz					0 "				Off		Off				
6	155.07500	155.07500		mplex	25 kHz		None	127.3 Hz	127.3 Hz	Receiv	/e Fre	auenc	v	Optional 3	Signal	inσ		011		Off				
7	155.08750	155.08750	Si	mplex	25 kHz		None	127.3 Hz	127.3 Hz	I NCCCCI		querie	y	optional	Jightai	116		Off		Off				
8	155.10000 155.11250		-	T	2		None	127.3 Hz 127.3 Hz	127.3 Hz 127.3 Hz	Transi	nit Fre	equence	∩v	Optional (Code			Off		Off Off	H	-		
10	155.12500		emory ⁻				None	127.3 Hz	127.3 Hz	indition		quone	<i></i>	optional	0000			Off	H	Off				
11	155.13750	1	(left to rig	zht)	z		None	127.3 Hz	127.3 Hz	Offset	Frequ	lency		Squelch I	Mode			Off		Off				
12				, , ,								-												
13	460.00000	-4 Me	mories		z		None	127.3 Hz	127.3 Hz	Offset	Direct	tion		Tx Power				Off		Off				
14 15	460.01250 460.02500	4 1010	11101103		z		None	127.3 Hz 127.3 Hz	127.3 Hz 127.3 Hz									Off		Off				
16	460.02500	llin	nit Memo	ories	2		None	127.3 Hz	127.3 Hz	Chanr	iel Spa	acing		Skip				Off		Off				
17	460.05000	4		51100	z		None	127.3 Hz	127.3 Hz			0						Off		Off				
18	460.06250	4 VF(0		z		None	127.3 Hz	127.3 Hz	Name				Step				Off		Off				
19	460.07500	4			z		None	127.3 Hz	127.3 Hz						-			Off		Off				
20	460.08750 460.10000	460.10000		mplex	25 kHz		None	127.3 Hz 127.3 Hz	127.3 Hz 127.3 Hz	Tone I	vlode			DTMF PT	I ID		-	Off		Off				
22	460.11250	460.11250			25 kHz		None	127.3 Hz	127.3 Hz	OTOO	`							Off		Off	H H			
23	460.12500	460.1250		mplex	25 kHz		None	127.3 Hz	127.3 Hz	CTCS	>			5Tone PT	ΠD			Off		Off				
24	460.13750	460.13720	Si	mplex	25 kHz		None	127.3 Hz	127.3 Hz	Rx CT	000			Scramble	r Cuuit	ab		Off		Off				
25										RXCI	633			Scrample	SWIL	CH								
Ready	Memori	es 🔟 Limit Me	mories VFU							DCS				Busy Cha	innel L	locko	ut						CA	
										Rx DC	S			Compand	ler									
										DOG														
										DCS F	olarity	/		Commen	t									

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**

	DJ-500 Programmer - DJ-50	00 Sample	- • ×
Eile Edit Communications Settings Window Help			
Beceive Transmit Offset Offset Channel The store BX	DCC Rx DCS Optional Option	nal Squeich Tx chia Char DTM	F 5Tone Scrambler Busy Channel
Frequency Frequency Direction Spacing Name Tone Mode CTLSS CTCSS	DCS Rx DCS Optional Option DCS Polarity Signaling Code	e Mode Power Skip Step PTTI	F STone Scrambler Busy Channel Compander D PTT ID Switch Lockout Off V Dff
P8 445.00000 445.00000 Simplex 25.kHz None 127.3 Hz 127.3 Hz			
PA 145,00000 145,00000 Simplex Date Pa Pa		Aemories	
	(left)	to right)	
	Receive Frequency	Optional Signaling	
	Transmit Frequency	Optional Code	
	Offset Frequency	Squelch Mode	
	Offset Direction	Tx Power	
	Channel Spacing	Skip	
	Name	Step	
	Tone Mode	DTMF PTT ID	
	CTCSS	5Tone PTT ID	
I ← ← ▶ Memories Limit Memories / VF0	Rx CTCSS	Scrambler Switch	
Ready	DCS	Busy Channel Lockout	
	Rx DCS	Compander	
	DCS Polarity	Comment	

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.

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DJ-500 Programmer - DJ-500 Sample – 🗆 🔤 🗠							
LJ-500 Sample X				•			
Receive Transmit Offset Offset Channel Tone Mode CTCSS Rx DCS Rx DCS		Tx Step DTMF STone Scramt Power Step PTTID PTTID Switc	bler Busy Channel Compander	Comment			
VF0 445.00000 V Simplex v 25 kHz None v 127.3 Hz v 023 v 023 v VF0 145.00000 145.00000 Simplex 25 kHz None 127.3 Hz 127.3 Hz 023	v Both N v Off v 1 v Carrier v	High v 2.5 kHz v Off v Off v					
		unctions					
	(left)	to right)					
	Receive Frequency	Optional Signaling	_				
	Transmit Frequency	Optional Code					
	Offset Frequency	Squelch Mode					
	Offset Direction	Tx Power					
	Channel Spacing	Step					
	Tone Mode	DTMF PTT ID					
	CTCSS	5Tone PTT ID					
	Rx CTCSS	Scrambler Switch					
La contra dia Mania 100	DCS	Busy Channel Lockout					
Ready Memories Limit Memories VF0	Rx DCS	Compander		CAP NUM SCRL			
	DCS Polarity	Comment					
	2 CC + Clarity	0011110112					

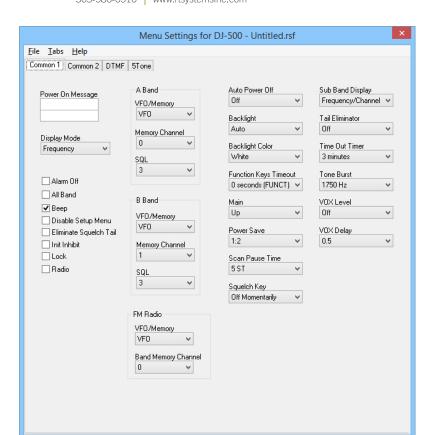
VFO

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.





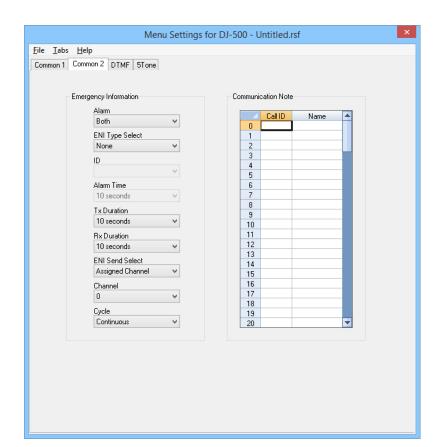
APK-500 Programming Software **Radio Option Setting Screens**



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	×
<u>F</u> ile <u>T</u> abs <u>H</u> elp			
Common 1 Common 2 DTMF	5Tone		
1st Digit	Group Code	Number	
200 ms 🗸 🗸	A 🗸	M1	
Auto Reset	Interval Character	M2	
10.0 seconds 🛛 🗸	× •	M3	
Decode Response	PTT ID Delay	M4 M5	
None 🗸 🗸	Off 🗸 🗸	MG	
Encode Delay	Speed	M7	
200 ms 🗸 🗸	30 ms 🗸 🗸	M8	
Encode Preload		M9	
500 ms 🗸	ANI	M10 M11	
	✓ Side Tone	M12	
		M13	
		M14	
		M15	
Self ID 001		M16	
001		Use E for * and F for #	
PTT ID Start (BOT)			
PTT ID End (EOT)			

DTMF

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

<u>T</u> abs <u>H</u> elp							
mmon 1 Common 2 DTMF 5Tone							
		Decoding R	espo	nse 1s	t Dela	Ŷ	
Decode Standard	Self ID	None		✓ 2	00 ms	~	
ZVEI1 V	12345	Decode Tim	ne	A	uto Re	set Time	
ZVEI1		20 ms		✓ 1	0.0 se	conds 🗸 🗸	
0 2400.0 Hz 8 2000.0 Hz	✓ Side Tone	Decode To	ne Ti	ne P	I DI T	Delay	
1 1060.0 Hz 9 2200.0 Hz 2 1160.0 Hz A 2800.0 Hz		70 ms			secor		
3 1270.0 Hz B 810.0 Hz		Encode Del	ay		op Co		
4 1400.0 Hz C 970.0 Hz 5 1530.0 Hz D 885.0 Hz		200 ms			lff	*	
6 1670.0 Hz E 2600.0 Hz		Encode Pre 500 ms	load		op Tim 00 ms		1
7 1830.0 Hz F 680.0 Hz		500 ms		✓ 2	UU ms	*	
Encode ID		Encode Stand	lard	Encode Time		Name 🛛	•
1 User:12345		ZVEI1	¥	~	_		
2			¥	~	-		
3 4			~	~	_		
5			×	~			
6			Ý	~	-		
7			v	~			
8			¥	~			-
DTT	ID Encode ID		_	Encode Sta	odard	Encode Tim	_
BOT	TD Effeode ID		_	Encode sta	V		~
EOT					~		~
Information ID							
	Decoding Response Jone		n ID	Functi	on Nai	me 🔺	
	lone v						
	lone v						
	lone	1				-	

5 Tone

Set options for a 5Tone paging sytem.



APK-500 Programming Software **Preferences – Version 4.50**

Preferences				
Grid Display	Memory Defaults Font	t Other		
Freeze	1	Mark the columns	to hide.	
		Column	Hide	A
	ernate row	Transmit Frequency		
All	A	Offset Frequency		
		Offset Direction		
		Name		
		Tone Mode		
		CTCSS		
		RxCTCSS		
	Fore Back	DCS		
		TxPower		
		Busy Channel Lockout		
Use Co	mbo for Check box	Skip		
		Clock Shift		
Langua	de:	Battery Save		
English	-	Comment		
Linglisi	· ·			
		ОК	Cancel	Apply

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 printout: hidden columns do not print.
- Use Combo for Check boxes changes the grid to eliminate check box selections that are disabled on some systems.

Preferences		
Grid Display Memory Defaults Font Other		
☑ Open last file when starting programmer.		ency Defaults
Check ShowName Automatically	HF	100 kHz 🔹
Convert Split offsets to standard Plus or	6m	500 kHz 🗸
Minus when avaliable.	2m	600 kHz 🔹
Disable CTCSS, DCS and other Tone	1.25m	1.60 MHz 🔹
columns according to the Tone Mode selection.	70cm	5.00 MHz 🔹
Add and Remove Offsets		
Offset		
1 100 kHz 2 500 kHz Remove		
3 600 kHz To add an offset		
4 1.00 MHz double click "END OF	LIST."	
	ОК	Cancel Apply

Memory Defaults

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



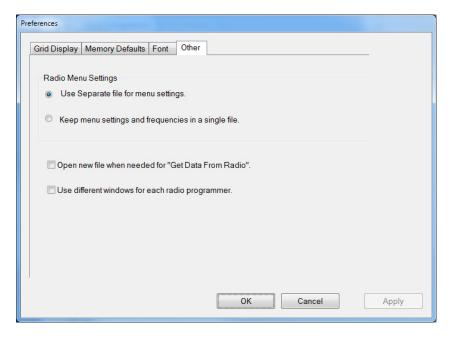
Preferences	A Comment of the second s
Grid Display Me	emory Defaults Font Other
Eont MS Sans S MS Sar MS Ser Ø MS UIC Ø MV Boli Ø MVriad Ø Mvriad Ø Mvriad Ø Nvriad Ø Narkisi Ø Niacara Ø Niacara	In Serif if Sothic ra i Pro Pro Cond Pro Cond Pro Pro Cond Pro Pro Pro Pro Pro Pro Pro Pro
	OK Cancel Apply

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.





Click here to learn more about using Preferences to customize your radio programming experience.