

303-586-6510 | www.rtsystemsinc.com

WCS-U82 Programming Software for the Icom IC-U82

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ile	<u>E</u> dit <u>C</u> omm	unications <u>S</u>	ettings [Star <u>W</u> ind	ow <u>H</u> elp													
-	ic_U82 Samp	le ×																
	Receive Frequency	Transmit Frequency	Offset Frequency	Offset Direction	Offset Reverse	Operating Mode	Name	Tone Mode	CTCSS	Rx CTCSS	DCS	DCS Polarity	Tx Power	Skip	Step	T x Inhibit	Bank	Comment
D	420.2250	420.22500		Simplex		FM	_	None	67.0 Hz	67.0 Hz	023	Both N	Low		25 kHz		None	\rightarrow
1	420.23750	420.23750	~	Simplex		FM					_				25 kHz		None	
2	420.25000	420.25000		Simplex		FM		Memor	v Cha	nnel	Fune	ctions	;		25 kHz		None	
3	420.26250	420.26250		Simplex		FM				to right)					25 kHz		None	<u> </u>
1	420.27500	420.27500		Simplex		FM			(left i	o rigiti)					25 kHz		None	
5							F	Receive F	requen	CV	Rx C	TCSS						
5	432.50000	432.50000		Simplex		FM	_			-					25 kHz		None	
'	432.51250	432.51250		Simplex		FM	T	ransmit F	reauer	ICV	DCS				25 kHz		None	
	432.52500	432.52500		Simplex		FM	_			2					25 kHz		None	
9	432.53750	432.53750		Simplex		FM		Offset Fre	quency		DCS	Polarit	у 📃		25 kHz		None	
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2	400.00000	100.00000					- ()ffset Rev	orco		Skip				05.111			
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}	438.05000	438.05000		01101103			-				_				25 kHz 25 kHz		None	
3	430.06230	430.00230	— Li	mit Men	nories		— T	one Mod	е		Banl	<			20 KH2		NUNE	
,)	450.75000	450.75000	_			Narrow		TOOO			0				12.5 kHz		None	
1	450.75000	450.76250		all Chanı	nel	Narrow		CTCSS			Com	ments			12.5 kHz		None	
2	450.77500	450.77500				Narrow		None	67.0 Hz	67.0 Hz	023	Both N	Low		12.5 kHz		None	
3	450.77500	450.77500		Simplex		FM Narrow		None	67.0 Hz	67.0 Hz	023		Low		12.5 kHz		None	
i –	450.80000	450.80000		Simplex		FM Narrow		None	67.0 Hz	67.0 Hz	023	Both N	Low		12.5 kHz		None	
, ;	450.81250	450.81250		Simplex		FM Narrow		None		67.0 Hz	023		Low		12.5 kHz		None	
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The WCS-U82 Programmer is designed to give you the ease and convenience of programming the memories and set menu options of your radio from your PC including settings for D-Star operations. You can easily set up your D-Star channels with just a few mouse clicks.

Memory Channels Include:

- 200 Memory Channels with D-Star Options*
- 6 Limit Memories (3 pair)
- 1 Call Channel

Other Menu Item Categories Include:

- Common
- DTMF

The Programmer Is for so Much More than Just Memory Management. With the WCS-U82 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 great little 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.

* Icom UT-118 required in radio for D-Star.



Hardware Requirements:

A PC running Windows XP, Vista, Windows 7 (32 or 64 bit) or Windows 8 (desktop version). A CD drive (local or network) for installation. A free USB port. The RT Systems USB-29A interface cable. The cable connects the radio to the computer from the USB port on the computer to the ear/speaker jack on the radio.



WCS-U82 Programming Software **Memory Types**

	nple ×																	
Receive Frequency	Transmit Frequency	Offset Frequency	Offset Direction	Offset Reverse	Operating Mode	Name	Tone Mode	CTCSS	Rx CTCSS	DCS F	DCS Polarity	Tx Power	Skip	Step	Tx Inhibit	Bank	Comment	
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								ceive Fr		-	Rx CT	CSS						
							Tra	nsmit F	requenc	су	DCS							
							Off	set Freq	luency		DCS F	Polarity	/					
							Off	set Dire	ction		Tx Po	wer						
							Off	set Reve	erse		Skip							
							Op	erating l	Mode		Step							
							Na	me			TX Inł	nibit						
							Tor	ne Mode	•		Bank							
							CT	CSS			Comn	ients						
									_	_								

Limit Memories

Limit Memories are used by the radio for Program Scan. Program the same details for Limit Memories as for regular memory channels.

IC-U82 Programmer - ic_U82 Sample				
<u>File Edit Communications Settings D</u> Star <u>W</u> indow <u>H</u> elp				
ic_U82 Sample ×				-
Receive Transmit Offset Offset Offset Offset Oper Frequency Frequency Direction Reverse Mo			CS Tx Step Tx Iarity Power Step Inhibit	Comment
C 440.08069 440.00000 Simplex FM	▼ None ▼ 88.5 Hz		N 🖵 High 🔍 25 kHz 🖵 📃	
	Call Channel F	unctions		
	(left to righ			
	Receive Frequency	CTCSS		
	Transmit Frequency	Rx CTCSS		
	Offset Frequency	DCS		
	Offset Direction	DCS Polarity		
	Offset Reverse	Tx Power		
	Operating Mode	Step		
	Name	TX Inhibit		
	Tone Mode	Comments		
]	
Memories Limit Memories Call Channel			•	

Call Channel

The Home/Call channel is a special memory accessed through one button recall on the radio. This channel is preprogrammed in the radio and while the frequency can be changed to another within the band, it cannot be left blank.





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Show DStar Columns

DStar Calc Simplex 💌

Digital (D-Star) Settings...

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IC-U

Eile -

WCS-U82 Programming Software **D-Star Setings***

* Icom UT-118 required in radio for D-Star.

Memories and D-Star Columns

IC-U82 Programmer - ic_U82 Sample

ic_U82 Sample ×

420.25000 420.25

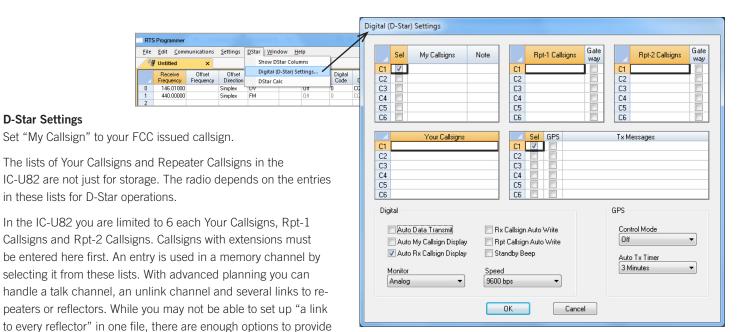
D-Star Settings

<u>File Edit Communications Settings DStar Window Help</u>

Transmit Offset Frequency Frequenc 0 420.22500 0 420.23750

The IC-U82 handles D-Star options in Memories. It is here in the Programmer that the D-Star specifics for each channel are found.

32 Programm	-						-														00	 ×
Edit ⊆omm		Settings [Star Windo	ow <u>H</u> elp						_												
ic_U82 Samp	ole ×																					
Receive Frequency	Transmit Frequency	Offset Frequency	Offset Direction	Offset Reverse	Operatin Mode	Name	Tone Mod	e CTCSS cr	Rx DI	CS DCS Polarity	Tx Power	Skip	STOP Di	igital ode	Digital Tone Mode	Digital Code	Your CallSig	Rpt CallS	1 Rpt-2 ign CallSign	Tx	Bank	
420 SECO	420.22500		Simplex -	nevelse	FM	•	None	■ 67.0 Hz ■ 67.0				25		UUE 01				 Cais C1: 	Uni Calisigni Uni C1: Ini			
420.23750	428.23750		Simplex		FM		None		0Hz 023		Low	25		0	1	0	C1:	C1:	Not Used		None	
420.25000	420.25000	~	Simplex		FM			- 107.011 107.0				500 LOCU		0		0	C1:	C1:	Not Used		None	
420.26250	420.26250		Simplex		FM					DC	c		ť	0		0	<u></u>	C1:	Not Used		None	
420.27500	420.27500		Simplex	100	FM	Mer	norv	/ Chan	nel	D-St	ar S	ettin	Igs	0		0	C1:	C1:	Not Used		None	
432.50000	432,50000		Simplex	(C)	EM		- /		ft to ri				0-	0	1	0	C1:	C1:	Not Used		None	
432.51250	432.51250		Simplex	m m	FM			(iei		igni)			Ŧ	0		0	C1:	C1:	Not Used		None	
432.52500	432.52500		Simplex		FM	-	. –			T D			Ť	0		0	C1:	C1:	Not Used		None	
432.53750	432.53750		Simplex		FM	Rece	it evi	requency	/	Tx Po	ower		ť.	0		0	C1:	C1:	Not Used		None	
432.55000 432.56250	432.55000		Simplex		FM								t.	0		0	C1:	C1:	Not Used		None	
432.06200	432.56250		Simplex	1001	FM	Trans	smit F	requenc	:V	Skip			F	0	7	U	C1:	C1:	Not Used	100	None	
438.00000	438.00000		Simplex		FM				.,	onup			f	0	4	0	C1:	C1:	Not Used		None	
438.01250	438.01250		Simplex			Offco	t Eroc	quency		Step			f	0		0	C1:	C1:	Not Used		None	
438.02500	438.02500		Simplex		FM	Unse	LITE	fuency		Siep			f	0		0	C1:	C1:	Not Used		None	
438.03750	438.03750		Simplex	1111	FM	Offee		ation		D:~:+		, da	ť	0		0	C1:	C1:	Not Used		None	
438.05000	438.05000		Simplex		FM	Offse	t Dire	CLION		Digit	al Mo	ae	Ť.	0		0	C1:	C1:	Not Used		None	
438.06250	438.06250		Simplex	(C)	FM	~ ~ ~							. 1	0	i .	0	C1:	C1:	Not Used		None	
450.75000	450.75000		Simplex	100	FM Nat	Offse	t Rev	erse		Digit	al lo	ne Mo	ode 🛓	0	4	0	C1:	C1:	Not Used		None	
450.76250	450.76250		Simplex		FM Nat					0			i i i	0		0	C1:	C1:	Not Used		None	
450.77500	450.77500		Simplex	[27]	FM Nat	Opera	ating	Mode		Digit	al Co	de	i i	0		0	C1:	C1:	Not Used	[[]]	None	
450.78750	450.78750		Simplex	1111	FM Nat	opon	atin B	mouo		Pigit	u. 00		f	0	ł	0	C1:	C1:	Not Used		None	
450.80000	450.80000		Simplex		FM Nar	Name	0			Vour	CallS	lian	Ť	0		0	C1:	C1:	Not Used		None	
450.81250	450.81250		Simplex		FM Nar	Ivani	5			Tour	Calls	ngn	Ľ.	0		0	C1:	C1:	Not Used		None	
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							~															-
						CTCS	S			Rpt-2	2 Cal	ISign										
						Rx C	TCSS			TX Ir	hibit											
						DCS				Bank	(
						DCS	Polar	ity		Com	ment	-										



Tx messages, name/location/equipment details, etc., scroll on the radio receiving your call. Be sure to turn on the Tx message with the checkbox.

D-Star Calculator:

a great deal of D-Star activity... even worldwide contacts.

The D-Star calculator is not available in this program because of the limitation for Your Callisgns and Repeater Callsigns. You must remain in control of the data to organize it for optimal use.

Gather information from: www.dstarinfo.com/dstar-web-calculator.aspx or www.dstarusers.org/repeaters.php to get started on your file.



WCS-U82 Programming Software **Radio Option Setting Screens**

Menu Settings for IC-U82 -	Untitled.rsf		X
<u>File Tabs H</u> elp			
Common DTMF			
ALC Off •	Busy Channel Lockout Off 🛛 🗸	Monitor Push 🔻	Scan Type
Auto Power Off Off	Dial Function Audio Volume 💌	Power Save Auto 👻	All Resume
Auto Repeater Shift R1 ▼	Function Mode 0 seconds 🔹	Select Speed Auto 👻	T-15 ▼
Backlight Auto ▼	LCD Contrast Auto 🗸	S-Meter Squelch Off 🛛 👻	Weather
Battery Save	Memory Display Frequency	Squelch Delay Short ▼	Channel
Beep Level	Mic Function Normal 1 🛛 🔻	Time Out Timer Off ▼	1 •
Bank Link Enable VAVBVC	V D V E V F V	IG 🖉 H 🗭 I 🗭 J	
Radio Comment			

Common

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.

Settings for IC-U82	- Untitled.rsf		
<u>T</u> abs <u>H</u> elp			
non DTMF			
∠ Sel	DTMF	DTMF Speed 100 ms 🔻	
DO 🔽			
D1			
D2			
D3 🔲			
D4 🔲			
D5 📃			
D6 🔲			
D7 🔲			
D8			
D9 🔲			
DA 🔲			
DB			
DC			
DD 🔲			
DE			
DF 🔲			

DTMF

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



WCS-U82 Programming Software **Preferences – Version 4.50**

Grid Display Memory Defaults Font	Other	
Freeze 1 A	Mark the columns to hide.	
Fleeze	Column Hide 🔺	
Alternate row	Transmit Frequency	
Alternate row	Offset Frequency	
1 Row1	Offset Direction	
2 Row 2	Name 🗖	
3 Row 3	Tone Mode	
4 Row 4	CTCSS	
4 1.000 4	Px CTCSS	
Fore Back	DCS	
	Tx Power	
	Busy Channel Lockout	
Use Combo for Check box	Skip	
	Clock Shift	
Language:	Battery Save	
	Comment 🔲	
English		
	▼	
	OK 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			—
	- Offset Freque	ency Defaults	
Open last file when starting programmer.	HF	100 kHz	•
Check ShowName Automatically Convert Split offsets to standand Plus or	6m	500 kHz	•
Minus when avaliable.	2m	600 kHz	•
Disable CTCSS, DCS and other Tone columns according to the Tone Mode	1.25m	1.60 MHz	•
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			
	ОК	Cancel	Apply

Memory Defaults

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



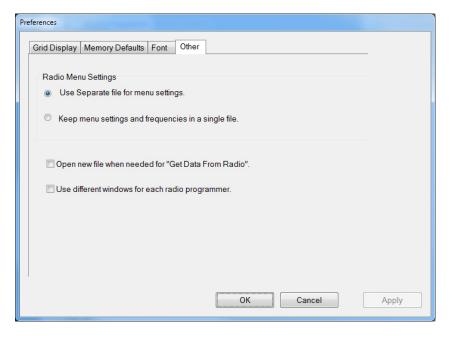
Preferences	A Comment of the second s
Grid Display Me	emory Defaults Font Other
Eont MS Sans S MS Sar MS Ser Ø MS UIC Ø MV Boli Ø MVriad Ø Mvriad Ø Mvriad Ø Nvriad Ø Narkisi Ø Niacara Ø Niacara	In Serif if Sothic ra i Pro Pro Cond Pro Cond Pro Pro Cond Pro Pro Pro Pro Pro Pro Pro Pro
	OK Cancel Apply

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.
 - Together as one 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.