

303-586-6510 | www.rtsystemsinc.com

KRS-471 Programming Software for the Kenwood TM-471

	471 Program			/indow He	In	File Edit Communications Settings Window Help										
-	TM-471 San		<u>settings</u>	<u>indow n</u> e	Ψ ⁱ											
-		·												-		
	Receive Frequency	Transmit Frequency	Offset Frequency	Offset Direction	Offset Reverse	Operating Mode	Name	Tone Mode	CTCSS	Rx CTCSS	DCS	Skip	Step	Tx Step	Beat Shift	Comment
0	440	445.00000	5.00 MHz	Plus		FM		None	88.5 Hz	88.5 Hz	023		25 kHz	5 kHz		7
1	440.01250	445.01250	5.00 MHz	Plus		FM		None	88.5 Hz	88.5 Hz	023		25 kHz	5 kHz		
2	440.02500	445.02500	5.00 MHz	Plus		FM		••					25 kHz	5 kHz		
3	440.03750	445.03750	5.00 MHz	Plus		FM	Me	emory (Chann	el Fur	oction	is	25 kHz	5 kHz		
4	440.05000	445.05000	5.00 MHz	Plus		FM			left to ri				25 kHz	5 kHz		
5										0				T		
6	450.00000	450.00000		Simplex		FM Narrow	Red	eive Freq	luency	CTO	SS	Γ	12.5 kHz			
7	450.01250	450.01250		Simplex		FM Narrow	Tue			Du	CTCSS		12.5 kHz			
8	450.02500	450.02500		Simplex		FM Narrow	Irai	nsmit Free	quency	КX	51033		12.5 kHz			
9	450.03750					FM Narrow	Offset Frequency			DC	DCS		12.5 kHz			
10	450.05000		450.05pnn Simpley			FM Narrow							12.5 kHz			
11	450.06250	450.06 N	1emory	Types		FM Narrow	_ Offs	et Directi	on	Skij)		12.5 kHz			
12	450.07500	100.01	(left to r	ight)		FM Narrow	044	et Revers		Cta			12.5 kHz			
13	450.08750	450.08	(left to i	igiii()		FM Narrow		et Revers	se	Ste)		12.5 kHz			
14	450.10000	450.10 Memories				FM Narrow	One	erating Mo	ode	Tx S	Step		12.5 kHz	5 kHz		
15								0	500							
16	444.25000		imit Men	nories		FM	Nar	ne		Bea	it Shift		25 kHz	5 kHz		
17	444.26250	449.26	/FO			FM	Tom	e Mode		Cor	nment		25 kHz	5 kHz		
18	444.27500	110.21	10			FM	Ton	e wode		Cor	ment		25 kHz	5 kHz		
19	444.28750	449.28 (Call Chan	nel		FM			00.511	00.5.11	000		25 kHz	5 kHz		
20	444.30000	449.30				FM		None	88.5 Hz	88.5 Hz	023		25 kHz	5 kHz		
21	444.31250	449.31200		Flus		FM		None	88.5 Hz	88.5 Hz	023		25 kHz	5 kHz		
22	444.32500 444.33750	449.32500		Plus		FM		None	88.5 Hz	88.5 Hz 88.5 Hz	023		25 kHz	5 kHz		
23		449.33750		Plus		FM		None	88.5 Hz				25 kHz	5 kHz		
24 25	444.35000 444.36250	449.3500		Plus Plus		FM		None	88.5 Hz 88.5 Hz	88.5 Hz	023		25 kHz	5 kHz		
25						FM		None	88.5 Hz	88.5 Hz	023		25 kHz	5 kHz		
	Image: Memories VFD Call Channel Image: Memories Image: Memories															

The KRS-471 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:

- 100 Memory Channels
- 6 Limit Memories (3 pair)
- 1 VFO Channel
- 3 Call Channels

Other Menu Item Categories Include:

- Common
- DTMF

The Programmer Is for so Much More than Just Memory Management. With the KRS-471 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.



Hardware Requirements:

A PC running Windows XP, Vista, Windows 7 (32 or 64 bit) or Windows 8 (full version). A CD drive (local or network) for installation. A free USB port. The RT Systems USB-K5D interface cable. The cable connects the radio to the computer from the USB port on the computer to the mic jack on the front of the radio.





303-586-6510 | www.rtsystemsinc.com

KRS-471 Programming Software **Memory Types**

 -471 Samı										
uency	Transmit Frequency	Offset Frequency	Offset Direction	Offset Reverse	Operating Mode	Name	Tone Mode CTCSS Rx CTCS	S DCS Step	Tx Beat Step Shift	Comment
	~	-	•		•			• • •		
			<u> </u>				Limit Memory I	Functions		
							Receive Frequency	CTCSS		
							Transmit Frequency	Rx CTCSS		
							Offset Frequency	DCS		
							Offset Direction	Step		
							Offset Reverse	Tx Step		
							Operating Mode	Bear Shift		
							Name	Comment		
							Tone Mode			
						L				

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.

TM-471 Programmer - TM-471 Sample	- 0 X
<u>File Edit Communications Settings Window H</u> elp	
TM-471 Sample ×	•
Receive Transmit Offset Offset Offset Operating Tone Mode CTCSS Rx DCS Tx Step Beat Comment	
440 445566900 440.00000 💌 Simplex 🔍 📄 FM 🔍 None 🔍 88.5 Hz 🔍 88.5 Hz 🔍 023 💌 High 🔍 5 kHz 💭 🦳	
VFO Functions	
(left to right)	
Receive Frequency CTCSS	
Transmit Frequency Rx CTCSS	
Offset Frequency DCS	
Offset Direction Tx Power	
Offset Reverse Step	
Operating Mode Beat Shift	
Tone Mode Comment	
H H H H H H H H	

VFO

The program makes available the same VFO's 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.

RADIO PROGRAMMING MADE EASY

303-586-6510 | www.rtsystemsinc.com

	TM-471 Sam									-			-		
F		Transmit Frequency	Offset Frequency	Offset Direction	Offset Reverse	Operati Mode	ng Name	Tone Mode	CTCSS	Rx CTCSS	DCS	Step	Tx Step	Beat Shift	Comment
	440.00000	440.00000		Simplex 🗨 Simplex		FM FM	•	None 💌	88.5 Hz 💌	88.5 Hz 💌	023 🖵		5 kHz 💌 5 kHz		7
	440.00000	440.00000		Simplex		FM	Call	Channe	l Fun	ctions			5 kHz		
								(left to	right)				_		
							Receive	Frequency	y C	TCSS		/			
							Transmit	Frequenc	cy R	x CTCS	s [
							Offset Fr	equency	D	CS					
							Offset Di	rection	St	tep					
							Offset R	everse		x Step					
							Operatin			eat Shif	+				
							Name	B Mode		ommen					
								- I -	0	ommen	۱ I				
							Tone Mo	de							

Call Channel

Home/Call channels are special memories accessed through one button recall on the radio. These channels are preprogrammed in the radio and while the frequency can be changed to another within the band, they cannot be left blank.





KRS-471 Programming Software **Radio Option Setting Screens**

Menu Settings for TM-471 - Untitle	d.rsf	X
<u>F</u> ile <u>T</u> abs <u>H</u> elp		
Common DTMF		
 Auto Brightness Auto Repeater Offset 	Auto Power Off	Scan/Weather Off ▼
🔲 1750 Hz Tone Hold	CALL Key	Squelch Delay
🔲 Busy Channel Lockout	CALL 🔻	Off 🔻
📝 Кеу Веер	Data Speed	Time Out Timer
🔲 Key Lock	1200 bps 🔻	10 min 🔻
Memory Name	Scan Resume	
🔲 Mic Key Lock	Time 💌	
S-Meter Squelch		
🔲 Tune Enable	Mic Key Assignments	
Brightness	PF1	PF2
	MHz 🔻	MR 🔻
Power On Message	PF3 VF0 VF0	PF4 CALL V
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.

Menu S	etting	gs for TM-471 - Untitled.rsf	×
<u>F</u> ile	<u>T</u> abs	<u>H</u> elp	
Comme	on C	TMF	
		DTMF	Lock
	0		Hold
	1		Monitor
	3		
	4		
	5		Delay
	6		500 ms 🔻
	7		Speed
	9		Fast 🔹
	U	se E for * and F for #	
	-		

DTMF

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



KRS-471 Programming Software **Preferences – Version 4.50**

Preferences			
Grid Display Memory Defaults Font	Other		
Freeze 1	Mark the columns to	hide.	
Freeze 1	Column	Hide 🔼	
	Transmit Frequency		
Alternate row	Offset Frequency		
1 Row1	Offset Direction		
2 Row 2	Name		
3 Row 3	Tone Mode		
4 Row 4	CTCSS		
	RxCTCSS		
Fore Back	DCS		
	TxPower		
	Busy Channel Lockout		
Use Combo for Check box	Skip		
	Clock Shift		
Language:	Battery Save		
English	Comment		
Linghon			
	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			— ·	
	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 Pick an offset frequent remove to delete it from remove to delete it f	m the list.		_	
	ОК	Cancel	Apply	

Memory Defaults

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



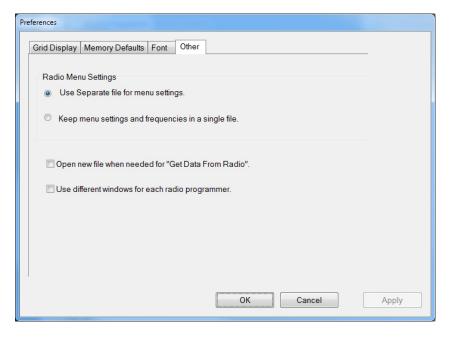
Preferences	A Comment of the second s
Grid Display Me	emory Defaults Font Other
Eont MS Sans S MS Sar MS Ser Ø MS UIC Ø MV Boli Ø MVriad Ø Mvriad Ø Mvriad Ø Nvriad Ø Narkisi Ø Niacara Ø Niacara	In Serif if Sothic ra i Pro Pro Cond Pro Cond Pro Pro Cond Pro Pro Pro Pro Pro Pro Pro Pro
	OK Cancel Apply

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.
 - 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.