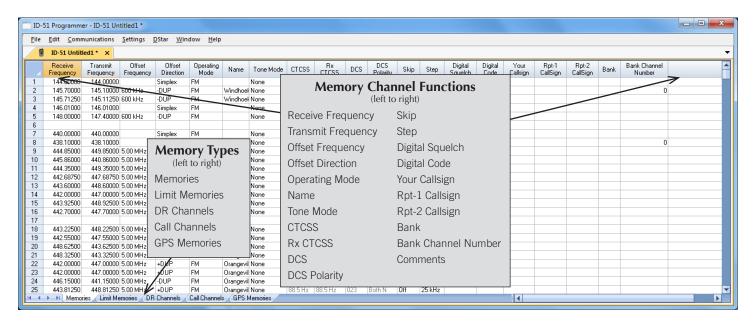


### WCS-D51 Programming Software for the Icom ID-51

303-586-6510 | www.rtsystemsinc.com



The WCS-D51 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. The D-STAR calculator built into the program gives you D-STAR information from all around the world to use. You can easily set up your D-STAR channels with just a few mouse clicks.

#### Memory Channels Include:

- 500 Memories (FM and D-STAR)
- 50 Limit Memories (25 pair)
- 750 DR Channels
- 4 Call Channels
- 200 GPS Memories

#### Other Menu Item Categories Include:

- Common
- DV and Sounds
- GPS
- DTMF and Broadcast

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

With the WCS-D51 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:**

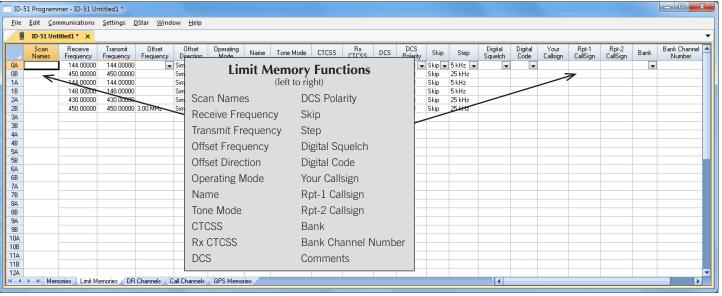
A PC running Windows XP, Vista, Windows 7 (32 or 64 bit) or Windows 8 (full version). A CD drive (local or network) for installation. A free USB port. The RT Systems USB-RTS05 interface cable. The cable connects the radio to the computer from a USB port on the computer to the data jack on the radio.





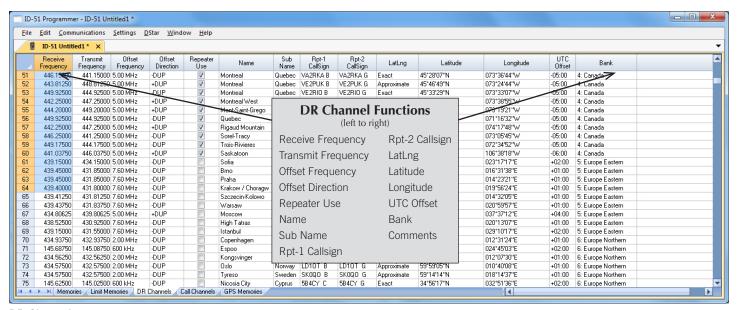
# WCS-D51 Programming Software **Memory Types**

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#### **Limit Memories**

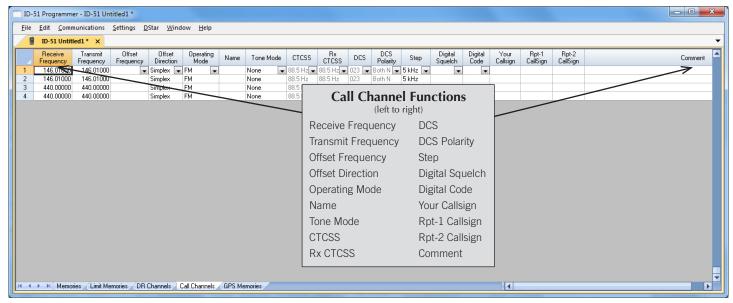
Limit Memories are used by the radio for Program Scan. Program the same details for Limit Memories as for regular memory channels. Many of the Limit Memories are preprogrammed in the radio and while the frequency can be changed to another within the band, they cannot be left blank.



#### **DR Channel**

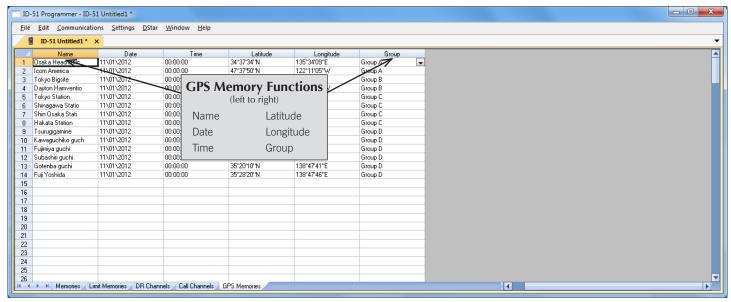
The DR channels are preprogrammed in the radio with D-STAR information for you to use for quick manual channel setup from the radio's face. D-STAR channels do not need to be programmed here. The Programmer has information for repeaters Worldwide to use when updating or changing the DR memories. See the D-Star Calculator section of this Help Guide for more details.





#### **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.



#### **GPS Memories**

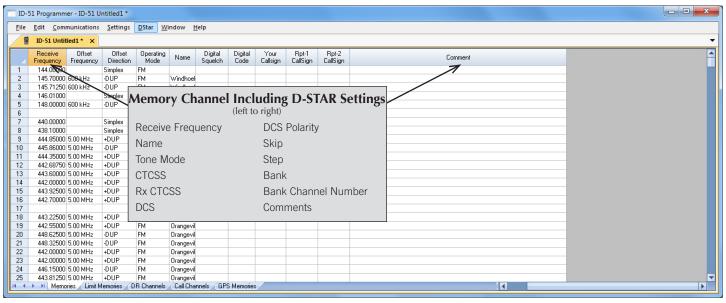
Once stored in the radio during GPS operations, these channels are read from the radio with the other details.

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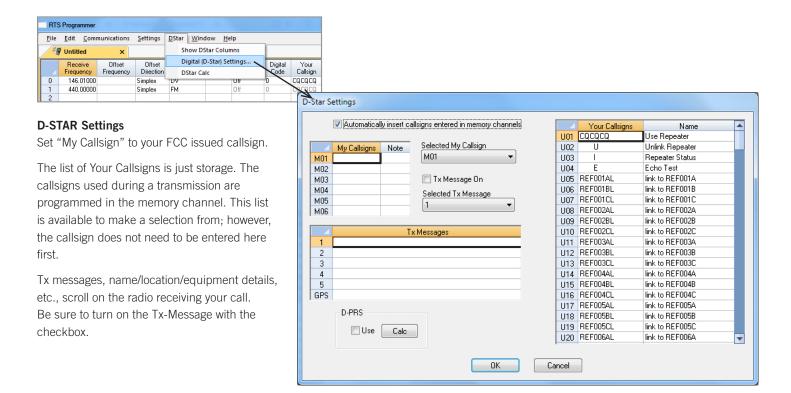
### WCS-D51 Programming Software **D-STAR Settings**

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#### Memories and D-STAR Columns

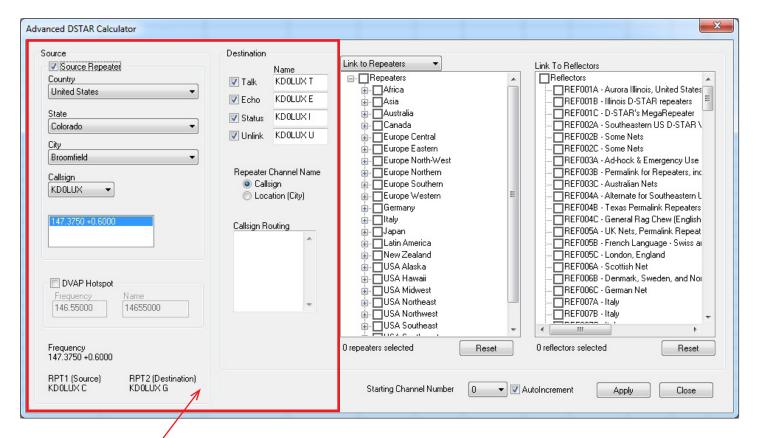
The ID-51 handles D-STAR and FM memories in Memories. It is here in the Programmer that the D-STAR specifics for each channel are found. The D-STAR columns become active once Operating Mode is set to DV.





### **D-STAR Calculator Advanced**

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#### Source and Destination:

The D-STAR Calculator automatically sets up the Talk, Echo, Info and Unlink channels for your "Source" repeater. The "Source" is the repeater you access to begin your adventures. Just like with analog repeaters, you must be able to hit the "Source" repeater.

Talk - the CQ channel for talking with others.

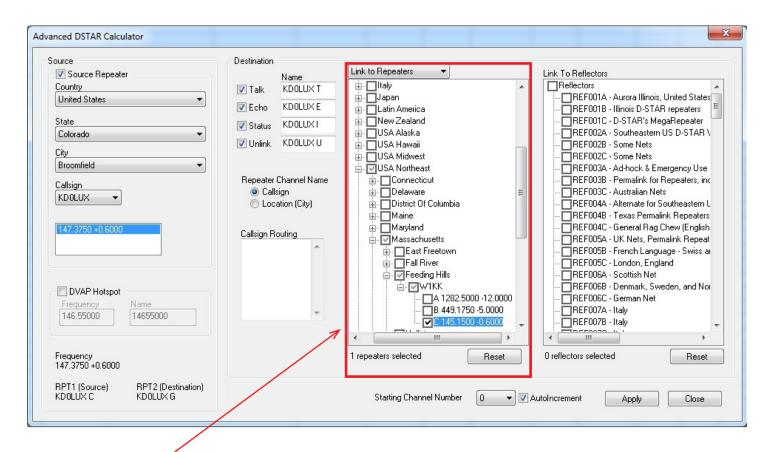
Echo - a test function that repeats your transmission back to you. Good for letting you know that you are, or are not, hitting the repeater.

Info - The function that triggers a status response from the repeater (i.e. linked to "where"... not linked)

Unlink - Disconnects the current link of the repeater (where allowed). More widely used to disconnect a link you establish. Remember... if you link, it's always polite to unlink (hang up the phone) when you're done unless someone has joined you locally. Then you might leave it to them to unlink.

The calculator sets up the same channels for a DVAP hotspot. You enter your frequency only once.

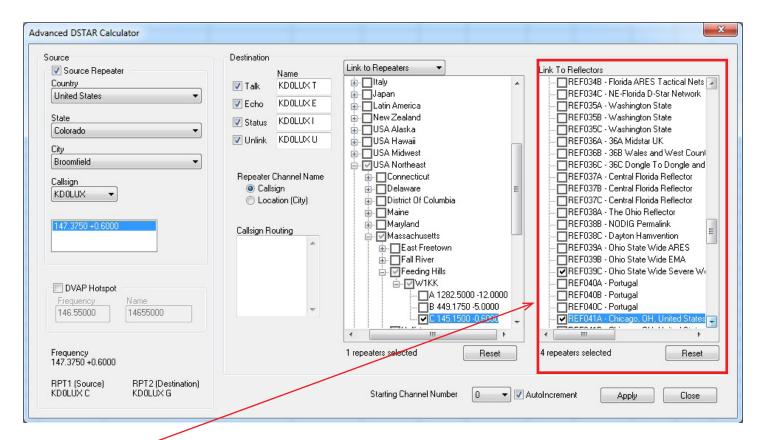




#### Route/Link to Repeaters:

Now that you identified your "Source", let's set up your Destination. In D-STAR you can Link to Repeaters or Route to Repeaters. To set up channels that link or route, use the drop down at the top of the first tree to select your function, then select your repeaters by checking a country, region, state, city or individual repeater. A counter below the list keeps track of how many you have selected.



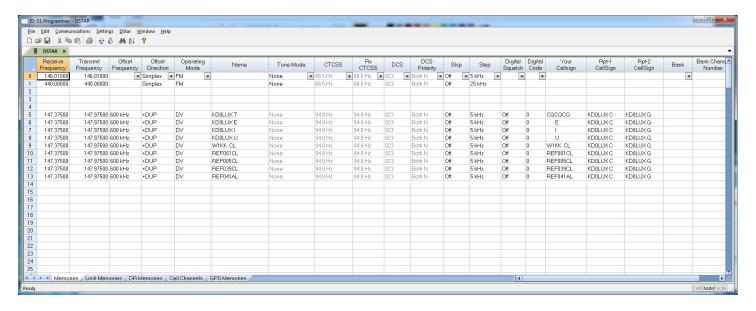


#### Link to Reflectors:

For even more fun, and a great way for a beginner to get started, Link to Reflectors. D-STAR reflectors are a special type of Internet connected gateway that rebroadcasts each signal to all the other linked nodes or repeaters. Remember... EVERYBODY is listening... but that's what makes it fun. You have a whole world to talk to through your local repeater, "Source", linked to a reflector. To set up a channel that links your repeater to a reflector, check the box for that reflector in the Link to Reflector tree.

Click **Apply** once to set up all these channels for the radio.



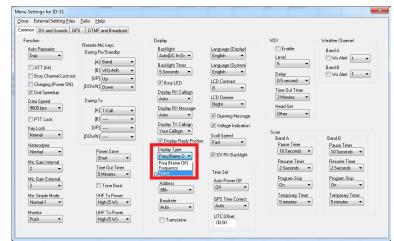


The resulting channels are set up and ready to go.

Your callsign, Rpt 1 Callsign and Rpt 2 Callsign are set automatically... No wondering which suffix goes where, or if it is positioned correctly. That is all done for you.

Name can be edited here to better identify the station. Name is what you see on the radio. It is not part of the D-STAR commands for use of the system. It may be all you have to identify the function of a channel. (Notice the frequency is the same for ALL these channels although they each do something different on the D-STAR network.) Make the Name something you understand.

Note: Be sure to turn ON the name display for the radio to use what you enter in the name field.



#### To Use these Settings for D-STAR Fun:

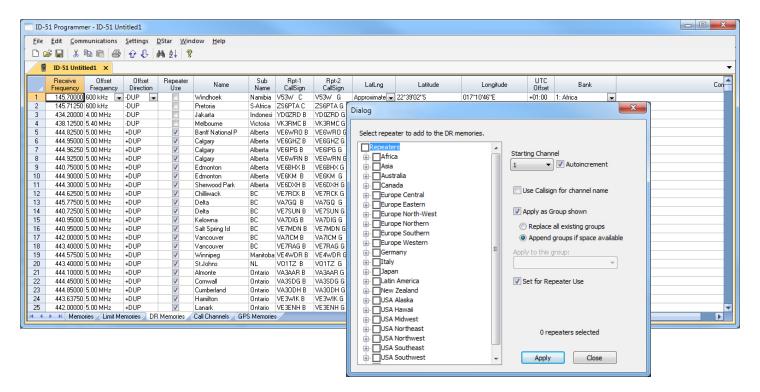
- Save and send the file to the radio.
- Listen on the talk channel.
- Be sure your call sign is registered on the system.
- Check repeater status on info channel.
- Check your connection to repeater on Echo channel.
- Link repeater to a connection of your choice.
- Talk on Talk channel.

Have Fun!



### **D-STAR Calculator Advanced**

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#### **D-STAR Calculator for DR Memories**

D-STAR Calculator for DR Memories lists repeaters worldwide for you to update or customize the list in the radio. Easily customize this list for places you plan to travel or places you want to work using a DR memory as your RPT2 repeater.

All repeater nodes are listed. Those the radio can use to transmit will be set automatically for "Repeater Use".

Latitude and Longitude are included where that info is available from the source and the repeater is marked for use.

Click a country, region, state, city or individual repeater.

Use starting channel to replace or carefully add to your list.

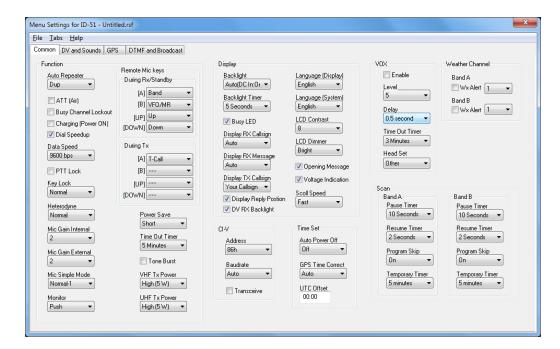
No searching for data, it's all right in the RT Systems Programmer.

The D-STAR calculator is updated automatically with the program. Just "Check for Updates" periodically to be sure you have the latest list.



## WCS-D51 Programming Software **Radio Option Setting Screens**

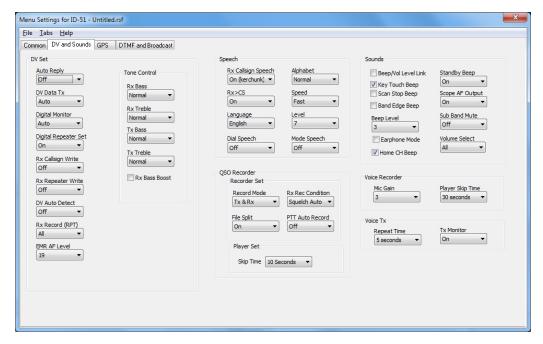
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#### Common

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.



#### **DV** and Sounds

Set up options for Digital Speech and Voice operations.

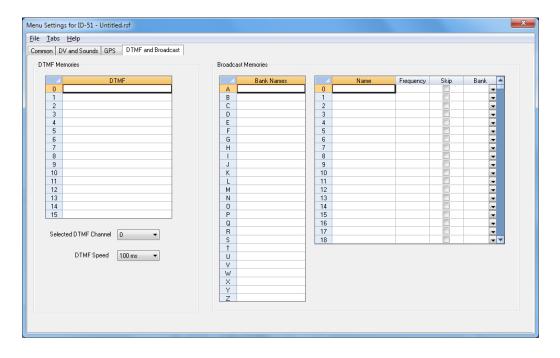
Customize radio sounds including the notes for a User Beep Melody that sounds when User Beep is engaged for Tone Mode on a memory channel.



Menu Settings for ID-51 - Untitled.rsf	x -
<u>F</u> ile <u>T</u> abs <u>H</u> elp	
Common DV and Sounds GPS DTMF and Broadcast	
GPS	GPS Tx Mode
GPS Select Position Format   Off	TX Mode Data Extension Time Stamp Altitude TX Off ▼ Off ▼ Off ▼ Off ▼
Manual Position Logger	Unproto Address
Latitude 00°00'00°N Off ▼	APISI,DSTAR*
Longitude Record Interval 5 seconds ▼	GPS Sentence RMC
Power Save Alarm Area 1 Auto ▼ 00′ 25″	SSID □ ▼
Speed Units Alarm Area 2  mph ▼ Both ▼	Comment
GPS Out Alarm Select  Off    Off   ✓	
Indicator Alarm Group  On   All Memories ▼	GPS Message
GPS Auto Tx Alarm Memory  Off    Off   O	GPS-A Symbol
Altitude/Distance feet/mile ▼	1: /[ Person ▼ 3: /> Car ▼
	2: /b Bicycle

#### GPS

Configure GPS function settings.



#### **DTMF** and **Broadcast**

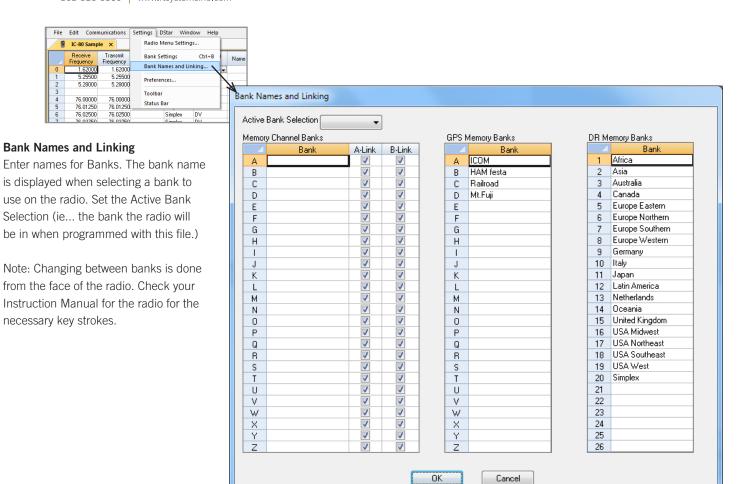
Enter DTMF memory details and customize options for this function of the radio.

Manage names, frequency, skip options and banks for Broadcast memories.



# WCS-D51 Programming Software **Radio Option Setting Screens**

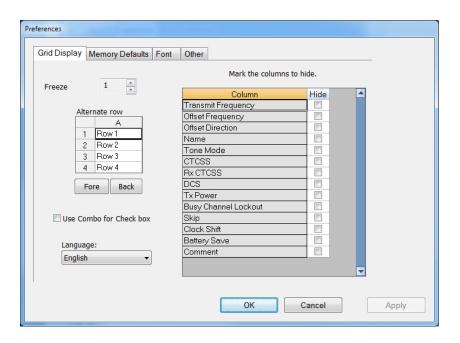
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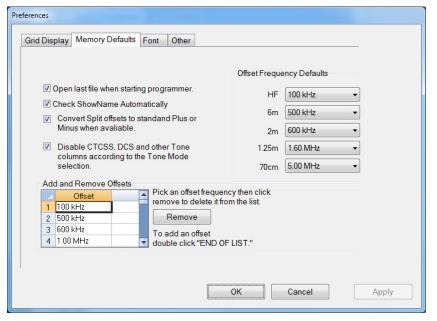
### WCS-D51 Programming Software **Preferences – Version 4.50**

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#### **Grid Display**

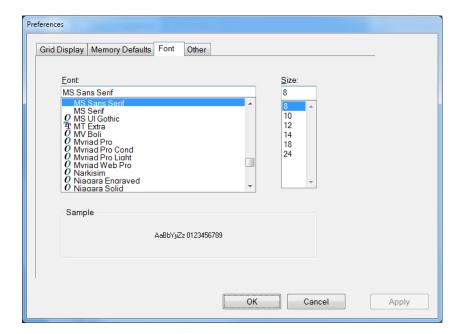
- RT Systems now available in English, French, German, Italian, Spanish, Portuguese and Japanese.
- Set colors for text (Fore) or background (Back) of alternate rows for easier viewing across the columns.
- Freeze columns to keep information on the screen as you scroll to the right of the page.
- Hide 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.



#### **Memory Defaults**

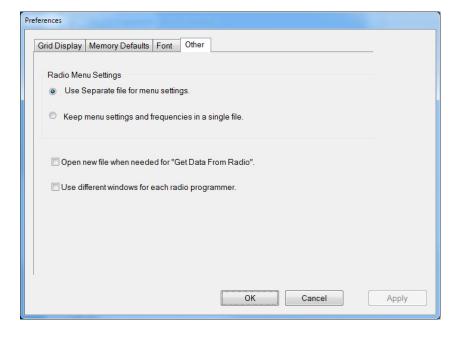
 Set options to control auto fill information for memory channel entries.





#### **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.
  - 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.

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