

303-586-6510 | www.rtsystemsinc.com

## WCS-R10 Programming Software for the Icom IC-R10

|   | IC-R         | 10 Program                | mer - IC-R10      | Untitled        | 1 *             |        |              |               |                    |         |   |   | ٢ |
|---|--------------|---------------------------|-------------------|-----------------|-----------------|--------|--------------|---------------|--------------------|---------|---|---|---|
| F | <u>F</u> ile | <u>E</u> dit <u>C</u> omr | munications       | <u>S</u> etting | s <u>W</u> ind  | dow    | <u>H</u> elp |               |                    |         |   |   |   |
|   |              | IC-R10 Unt                | itled1 * ×        |                 |                 |        |              |               |                    |         |   |   | • |
| Γ |              | Receive<br>Frequency      | Operating<br>Mode | Name            | Skip            | Att    | enuator      |               |                    | Comment |   |   |   |
|   | 4-00         | 50:12580                  |                   |                 | Off             |        |              |               |                    | 7       |   |   |   |
| 1 | A-01         | 50.87000                  | FM                |                 | Off             |        | Mama         | w Channa      | LEunstions         |         |   |   |   |
|   | 4-02         | 53.22500                  | FM                |                 | 0#              |        | Memo         | (left to righ | <b>I</b> Functions |         |   |   |   |
|   | 4-03         |                           |                   |                 |                 |        | Destine      | -             |                    |         | _ |   |   |
|   | 4-04         | 118.75000                 |                   |                 | Off             |        |              | Frequency     | Skip               |         | _ |   |   |
|   | 4-05         | 118.77500                 |                   |                 | Off             |        | Operatir     | ig Mode       | Attenuator         |         | _ |   |   |
|   | 4-06         | 146.01000                 |                   | 1               | Off             |        | Name         |               | Comments           |         | _ |   |   |
|   | 4-07         | 147.22500                 | FM                |                 | Off             |        |              |               |                    |         | _ |   |   |
|   | 4-08         |                           |                   |                 |                 |        |              |               |                    |         | _ |   |   |
|   | 4-09         | 370.00000                 |                   | Mor             | nory T          | vno    |              |               |                    |         | _ |   |   |
|   | A-10         | 372.55500                 |                   |                 |                 | ype    | <b>`</b>     |               |                    |         | _ |   |   |
|   | A-11         | 432.40000                 |                   | Men             | nories          |        |              |               |                    |         |   |   |   |
|   | A-12         | 432.43750                 | FM                | VFO             |                 |        |              |               |                    |         | _ |   |   |
|   | A-13         |                           |                   | Ban             | d Scan          |        |              |               |                    |         | _ |   |   |
|   | A-14         | 850.20000                 |                   | Fasy            | Bank            |        |              |               |                    |         | _ |   |   |
|   | A-15         | 850.21250                 |                   | -               |                 |        |              |               |                    |         | _ |   |   |
|   | A-16         | 850.22500                 | FM                | Auto            | Band            |        |              |               |                    |         | _ |   |   |
|   | A-17         | 1005 75000                |                   | -/              |                 |        |              |               |                    |         | _ |   |   |
|   | A-18         | 1295.75000                |                   |                 | Off             |        |              |               |                    |         |   |   |   |
|   | A-19         | 1295.76250                |                   |                 | Off             |        |              |               |                    |         | _ |   |   |
|   | 4-20         | 1295.77500                |                   | Band Sc         | Off<br>an Eas   | u D ai | nk Aut       | o Band        |                    |         | _ |   |   |
| Ľ |              | r wemo                    | illes VFU         | banu so         | ari <u>Ca</u> s | ура    |              | obanu         |                    |         | _ | ► |   |

The WCS-R10 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:

- 1,000 Memory Channels (16 banks of 50) plus 2 banks of 100 program scan skip channels and memory scan skip channels.
- 1 VFO Channel
- 20 Band Scans
- 10 Easy Banks
- 15 Auto Bands

## Other Menu Item Categories Include:

- Common
- Bank Names

The Programmer Is for so Much More than Just Memory Management. With the WCS-R10 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-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-R10 Programming Software **Memory Types** 

| IC-R10 Programmer - IC-R10 Untitled1 *                        | _ <b>O</b> X |
|---|--------------|
| <u>File Edit Communications Settings W</u> indow <u>H</u> elp |              |
| IC-R10 Untitled1 * ×  | -            |
| Receive Operating Mode Step Attenuator Comment                |              |
| VF0 17500000 FM 5 kHz   |              |
|   |              |
| VFO Functions   |              |
| (left to right)   |              |
| Receive Frequency Attenuator                                  |              |
| Operating Mode Comments<br>Step                               |              |
| Jieh  |              |
|   |              |
|   |              |
|   |              |
|   |              |
|   |              |
|   |              |
| Memories VFD Band Scan Easy Bank Auto Band                    |              |

### 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.

| <u>F</u> ile | <u>E</u> dit <u>C</u> om | munications      | Settings          | Window      | <u>H</u> elp |               |            |         |
|--------------|--------------------------|------------------|-------------------|-------------|--------------|---------------|------------|---------|
| ( E          | IC-R10 Un                | titled1 * 🗙      |                   |             |              |               |            |         |
|              | Start<br>Frequency       | End<br>Frequency | Operating<br>Mode | Name        | Step         | Scar<br>Resur |            | Comment |
| 0            | 134.80000                | 146.00000        |                   | ×           |              | ▼ 5 Sec       | <b>v</b> 0 | 7       |
| 1            | 144.00000                |                  |                   |             | 100 Hz       | 5 Sec         | 1          |         |
| 2            | 144.00000                | 146.00890        |                   |             | 100 Hz       | 5 Sec         | 2          |         |
| 3            | 144.00000                | 146.00000        |                   | Dand        | Scan E       | unctio        |            |         |
| 4            | 144.00000                | 146.00000        |                   | Danu        |              |               | 115        |         |
| 5            | 144.00000                | 146.00000        |                   |             | (left to rig | gnt)          |            |         |
| 6            | 144.00000                | 146.00000        | FM                | Start Frequ | ency         | Step          |            |         |
| 7            | 144.00000                | 146.00000        |                   | End Freque  | ncv          | Scar          | n Resun    |         |
| 8            | 144.00000                | 146.00000        | FM                |             | -            |               |            |         |
| 9            | 144.00000                | 146.00000        |                   | Operating N | /lode        | Com           | ments      |         |
| 10           | 144.00000                | 146.00000        |                   | Name        |              |               |            |         |
| 11           | 144.00000                | 146.00000        |                   | -           |              |               |            |         |
| 12           | 144.00000                | 146.00000        |                   |             | 100 Hz       | 5 Sec         | 12         |         |
| 13           | 144.00000                | 146.00000        |                   |             | 100 Hz       | 5 Sec         | 13         |         |
| 14           | 144.00000                | 146.00000        |                   |             | 100 Hz       | 5 Sec         | 14         |         |
| 15           | 144.00000                | 146.00000        |                   |             | 100 Hz       | 5 Sec         | 15         |         |
| 16           | 144.00000                | 146.00000        |                   |             | 100 Hz       | 5 Sec         | 16         |         |
| 17           | 144.00000                | 146.00000        |                   |             | 100 Hz       | 5 Sec         | 17         |         |
| 18           | 144.00000                | 146.00000        |                   |             | 100 Hz       | 5 Sec         | 18         |         |
| 19           | 144.00000                | 146.00000        | FM                |             | 100 Hz       | 5 Sec         | 19         |         |

## Band Scan

Used for Program Scanning. Set upper and lower frequency ranges for scanning. These channels are preprogrammed in the radio and while they can be changed, they cannot be left blank.



303-586-6510 | www.rtsystemsinc.com

|   | IC-R         | 10 Program               | mer - IC-R1      | 0 Untitled1        | k              |              |               |            |         |   |
|---|--------------|--------------------------|------------------|--------------------|----------------|--------------|---------------|------------|---------|---|
| - | <u>F</u> ile | <u>E</u> dit <u>C</u> om | munication       | s <u>S</u> ettings | <u>W</u> indow | <u>H</u> elp |               |            |         |   |
|   | -            | IC-R10 Un                | titled1 * ×      |                    |                |              |               |            |         | - |
| Γ |              | Start<br>Frequency       | End<br>Frequency | Operating<br>Mode  | Name           | Step         | ) Sca<br>Resu |            | Comment |   |
|   | 0            | 0.56800                  | -                |                    | AM BROAD       |              | 💌 5 Sec       | <b>v</b> 0 | 7       |   |
|   | 1            | 88.00000                 |                  |                    | FM BROAD       |              |               | 1          |         |   |
|   | 2            | 118.00000                | 137.00000        |                    | AVIATION       | 10 kHz       | 5 Sec         | 2          |         |   |
| ⊩ | 3            | 144.00000                | 148.00000        |                    | Fas            | v Ban        | k Funct       | ions       |         |   |
|   | 4            | 150.00000<br>156.00000   | 174.00000        |                    | Luo            |              | to right)     |            |         |   |
| ⊩ | 5<br>6       | 225.00000                |                  |                    | Ctart Era      |              | 0 .           | _          |         |   |
| ⊩ | 7            | 440.00000                | 450.00000        |                    | Start Free     |              |               |            |         |   |
| ⊩ | 8            | 450.00000                |                  |                    | End Freq       | uency        | Sca           | n Resume   |         |   |
| ⊫ | 9            | 849.02500                |                  |                    | Operating      | g Mode       | e Con         | nments     |         |   |
|   |              |                          |                  |                    | Name           | ,            |               |            |         |   |
|   |              |                          |                  |                    | Name           |              |               |            |         |   |
|   |              |                          |                  |                    |                |              |               |            |         |   |
|   |              |                          |                  |                    |                |              |               |            |         |   |
|   |              |                          |                  |                    |                |              |               |            |         |   |
|   |              |                          |                  |                    |                |              |               |            |         |   |
|   |              |                          |                  |                    |                |              |               |            |         |   |
|   |              |                          |                  |                    |                |              |               |            |         |   |
|   |              |                          |                  |                    |                |              |               |            |         |   |
|   |              |                          |                  |                    |                |              |               |            |         |   |
|   |              | Mem                      | ories VFO        | Band Scar          | 🚽 Easy Ban     | k Auto       | Band          |            |         |   |
| Ľ | -            |                          |                  |                    |                |              |               |            |         |   |

### Easy Bank

Frequency ranges used for EASY Mode Scanning. Set upper and lower frequency ranges for scanning. These channels are preprogrammed in the radio and while they can be changed, they cannot be left blank.

| - |
|---|
|   |
|   |
|   |
|   |
|   |
|   |
|   |
|   |
|   |
|   |
|   |
|   |
|   |
|   |
|   |
|   |
|   |
|   |
|   |
|   |
|   |
| • |
|   |

### Auto Band

Frequency ranges used for Auto Memory Write Scanning. Set upper and lower frequency ranges for scanning. These channels are preprogrammed in the radio and while they can be changed, they cannot be left blank.



# WCS-R10 Programming Software **Radio Option Setting Screens**

| Menu Settings for IC-R   | 10 - Untitled.rsf                          | X                         |
|--|--|---------------------------|
| <u>File</u> Help<br>Common Bank Names  | ]  |                           |
| C AFC Seep   | Easy Bank                                  | Power Save                |
| <ul> <li>Key lock</li> <li>Message</li> <li>Memory Skip</li> <li>NB/ANL</li> <li>Program Skip</li> </ul> | Memory Bank<br>A<br>Program Scan Bank<br>0 | Scan Delay<br>5 Second: ▼ |
| CI-V Info  | Contrast<br>Med-High ▼                     |                           |
| Address<br>52h ▼   | Light<br>Auto 👻                            |                           |
| Baud Rate<br>9600 ▼  |  |                           |
| V Transceive   | 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.

| Menu Set                | tings for IC-R10 - U | ntitled.rsf | × |
|-------------------------|----------------------|-------------|---|
| <u>F</u> ile <u>H</u> e |                      |             |   |
| Common                  | Bank Names           |             |   |
|                         |                      |             |   |
| A                       |                      | J           |   |
| В                       |                      | к           |   |
| С                       |                      | L           |   |
| D                       |                      | м           |   |
| E                       |                      | N           |   |
| F                       |                      | 0           |   |
| G                       |                      | Р           |   |
| н                       |                      | AMWS        |   |
| 1                       |                      | Skip        |   |
|                         |                      |             |   |

#### **Bank Names**

Enter Bank Names for Memory, AMWS (Q) and skip channels (R).



## WCS-R10 Programming Software **Preferences – Version 4.50**

| Preferences                       |                      |          |       |
|-----------------------------------|----------------------|----------|-------|
| Grid Display Memory Defaults Font | Other                |          |       |
| Freeze 1                          | Mark the columns t   |          |       |
|                                   | Column               | Hide 🛆   |       |
| Alternate row                     | Transmit Frequency   |          |       |
| A                                 | Offset Frequency     |          |       |
| 1 Row1                            | Offset Direction     |          |       |
| 2 Row 2                           | Name                 |          |       |
| 3 Row 3                           | Tone Mode            |          |       |
| 4 Row 4                           | CTCSS                |          |       |
|                                   | Rx CTCSS             |          |       |
| Fore Back                         | DCS                  |          |       |
|                                   | TxPower              |          |       |
|                                   | Busy Channel Lockout |          |       |
| Use Combo for Check box           | Skip                 |          |       |
|                                   | Clock Shift          |          |       |
| Language:                         | Battery Save         |          |       |
|                                   | Comment              |          |       |
| English 👻                         |                      |          |       |
|                                   |                      | <b>T</b> |       |
| I                                 |                      |          |       |
|                                   | 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 | ī.    |
| 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<br>columns according to the Tone Mode   | 1.25m         | 1.60 MHz 🗸    | ]     |
| selection.  | 70cm          | 5.00 MHz 🔹    | ]     |
| Add and Remove Offsets       Offset     Pick an offset frequency       1     100 kHz       2     500 kHz       3     600 kHz       4     1.00 MHz   To add an offset double click "END OF | m the list.   |               |       |
|   | ОК            | Cancel        | Apply |

## Memory Defaults

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



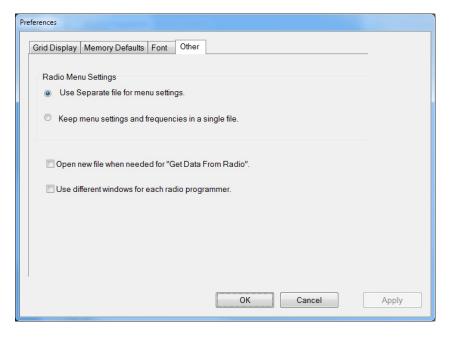
| Preferences   | A Comment of the second s |
|---|--|
| Grid Display Me   | emory Defaults Font Other  |
| Eont<br>MS Sans S<br>MS Sar<br>MS Ser<br>Ø MS UIC<br>Ø MV Boli<br>Ø MVriad<br>Ø Mvriad<br>Ø Mvriad<br>Ø Nvriad<br>Ø Narkisi<br>Ø Niacara<br>Ø Niacara | In Serif<br>if<br>Sothic<br>ra<br>i<br>Pro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