rtSYSTEMS

RADIO PROGRAMMING MADE EASY

303-586-6510 | www.rtsystemsinc.com

RPS-9000 Programming Software
for the TYT TH-9000

Memory Types
(left to right)
- Memories
- Limit Memories
- VFO Channels

Memory Channel Functions
(left to right)

Receive Frequency	DCS Polarity
Transmit Frequency	Optional Signaling
Offset Frequency	Optional Code
Offset Direction	Squelch Mode
Channel Spacing	Tx Power
Name	Skip
Tone Mode	Step
CTCSS	Scrambler Switch
Rx CTCSS	Busy Channel Lockout
DCS	Compander
Rx DCS	Comments

The RPS-9000 Programmer is designed to give you the ease and convenience of programming the memories and set menu options of your radio from your PC.

The Programmer works for the VHF, UHF and 220MHz radios. Each file created will be for a specific band just as the radios operate in one band.

Memory Channels Include:
- 200 Memory Channels
- 2 Limit Channels (1 pair)
- 1 VFO Channel

Other Menu Item Categories Include:
- Common Settings 1
- Common Settings 2
- DTMF
- 2Tone

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

With the RPS-9000 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.
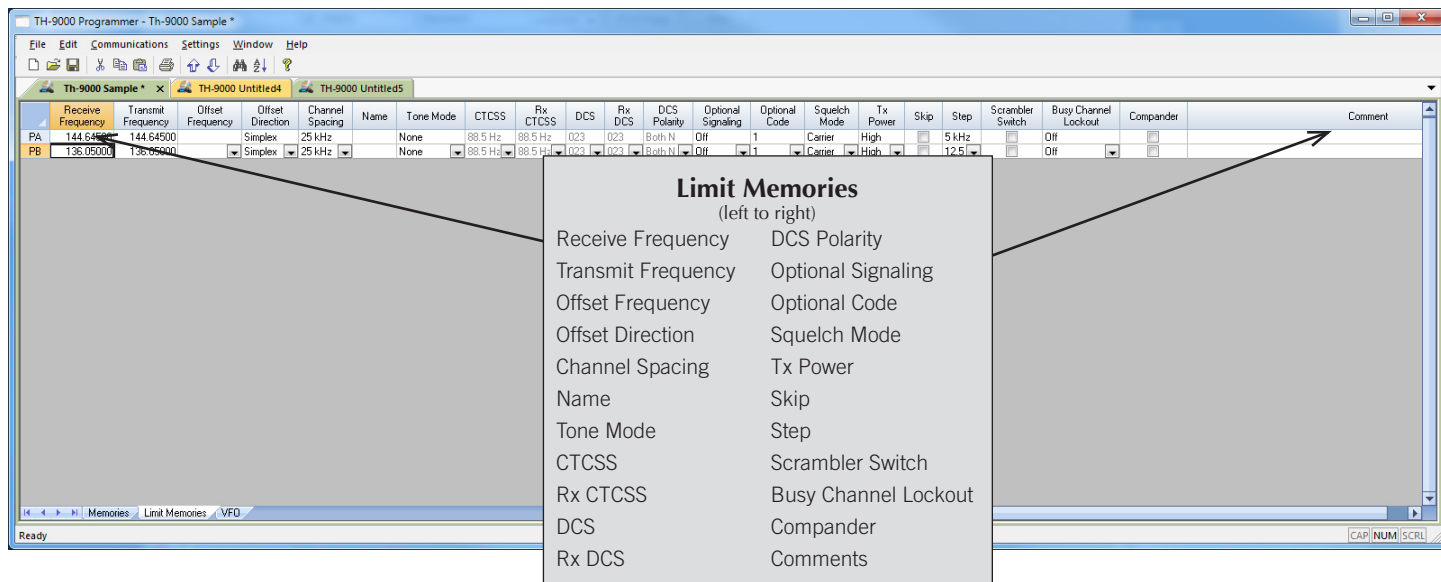
Open more than one file at a time. Memory channel information can be copied from one file to another within the Programmer making it really easy to set up a new file.
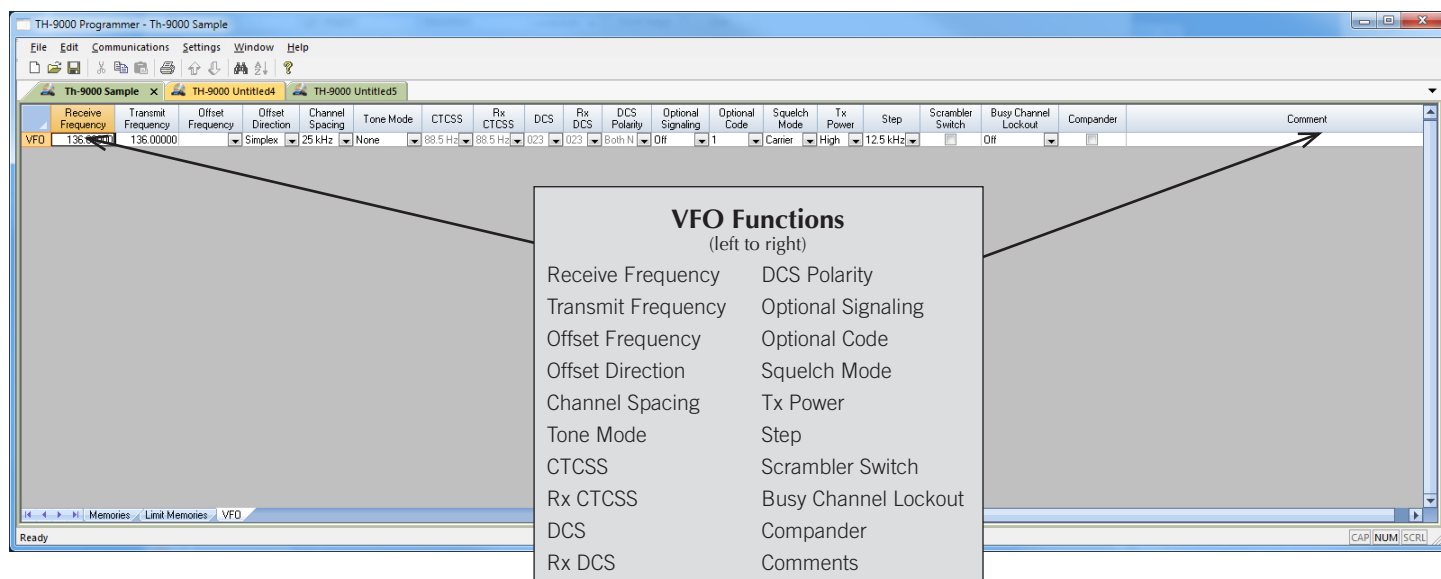
Hardware Requirements:
A PC running Windows XP, Vista, Windows 7 (32 or 64 bit) or Windows 8 (full version). A CD drive (local or network) for installation. A free USB port and RT Systems USB-29A interface cable. The cable connects the radio to the computer from the USB port on the computer to the data jack on the front of the radio.

Limit Memories
(left to right)

Receive Frequency	DCS Polarity
Transmit Frequency	Optional Signaling
Offset Frequency	Optional Code
Offset Direction	Squelch Mode
Channel Spacing	Tx Power
Name	Skip
Tone Mode	Step
CTCSS	Scrambler Switch
Rx CTCSS	Busy Channel Lockout
DCS	Compander
Rx DCS	Comments

Limit Memories

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

VFO Functions
(left to right)

Receive Frequency	DCS Polarity
Transmit Frequency	Optional Signaling
Offset Frequency	Optional Code
Offset Direction	Squelch Mode
Channel Spacing	Tx Power
Tone Mode	Step
CTCSS	Scrambler Switch
Rx CTCSS	Busy Channel Lockout
DCS	Compander
Rx DCS	Comments

VFO

The program makes available the same VFO's as in the radio (usually one per band). Remember this is not a real memory channel 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. This channel will be band specific for your 144 / 440 / 220MHz radio.

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Common 1 and 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.

The settings are not frequency dependant. One settings file can be used with any frequency file.

Menu Settings for TH-9000 - Untitled.rsf

File Tabs Help

Common 1 | Common 2 | DTMF | 2Tone

1st Digit
200 ms

Group Code
A

Auto Reset
10.0 secs

Interval Character
*

Decode Response
None

PTT ID Delay
Off

Encode Delay
200 ms

Speed
50 ms

Encode Preload
500 ms

☐ ANI
☑ Side Tone

Self ID
123

PTT ID Start (BOT)

PTT ID End (EOT)

	Number
M1	
M2	
M3	
M4	
M5	
M6	
M7	
M8	
M9	
M10	
M11	
M12	
M13	
M14	
M15	
M16	

Use E for * and F for #

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

Menu Settings for TH-9000 - Untitled.rsf

File Tabs Help

Common 1 | Common 2 | DTMF | 2Tone

Encode

	1st Tone	2nd Tone	Name
1	321.7	928.1	
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

Tone Duration
1st 0.5 secs
2nd 0.5 secs
Long 1.0 secs

Gap Time
1000 secs

Auto Reset
10.0 secs

☑ Side Tone

Decode
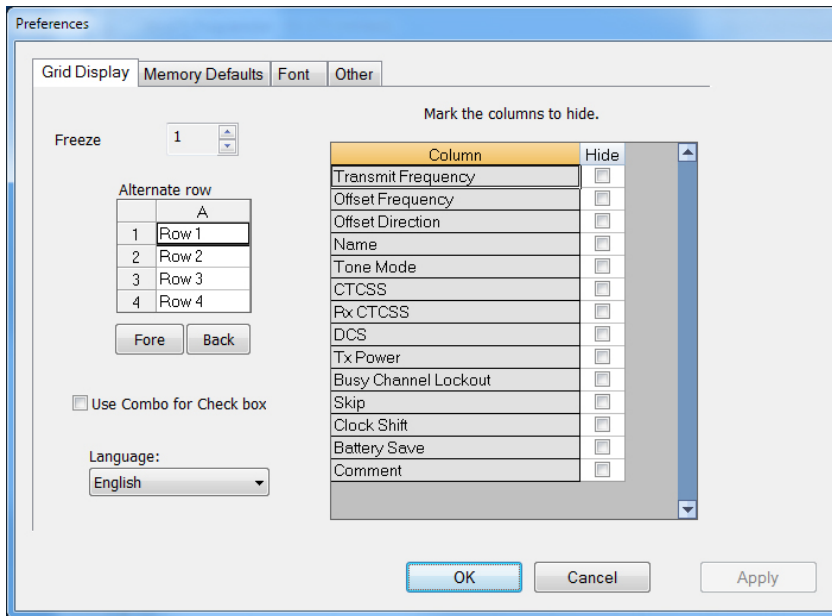
Call Format A-B

Decoding Response None

Tone Frequency

A	321.7
B	928.1
C	626.5
D	2043.8

2Tone
Set up options for 2Tone Paging.

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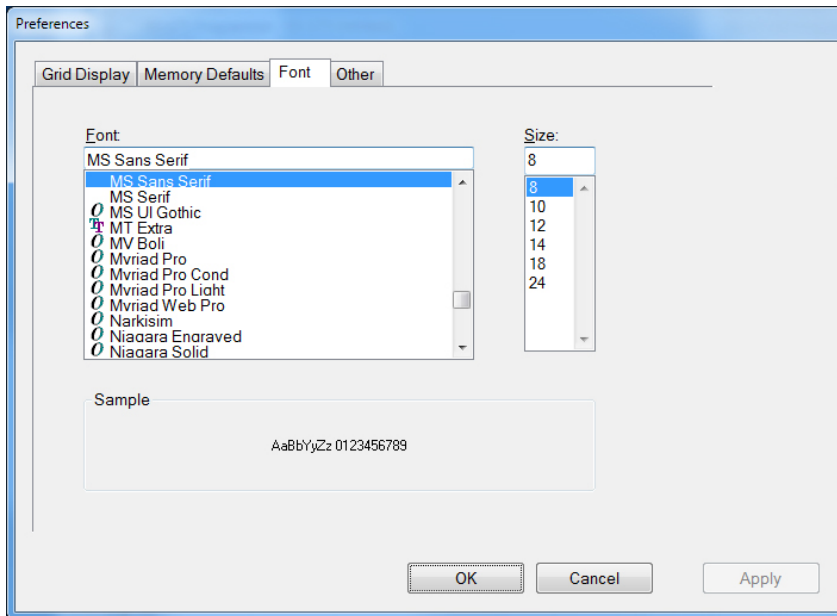- Use Combo for Check boxes – changes the grid to eliminate check box selections that are disabled on some systems.

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

Font

Preferences

Grid Display | Memory Defaults | **Font** | Other

Font:
MS Sans Serif

MS Sans Serif
MS Serif
MS UI Gothic
MT Extra
MV Boli
Myriad Pro
Myriad Pro Cond
Myriad Pro Light
Myriad Web Pro
Narkisim
Niagara Engraved
Niagara Solid

Size:
8

8
10
12
14
18
24

Sample

AaBbYyZz 0123456789

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

Preferences

Grid Display | Memory Defaults | Font | **Other**

Radio Menu Settings

○ Use Separate file for menu settings.

○ Keep menu settings and frequencies in a single file.

☐ Open new file when needed for "Get Data From Radio".

☐ Use different windows for each radio programmer.

OK   Cancel   Apply
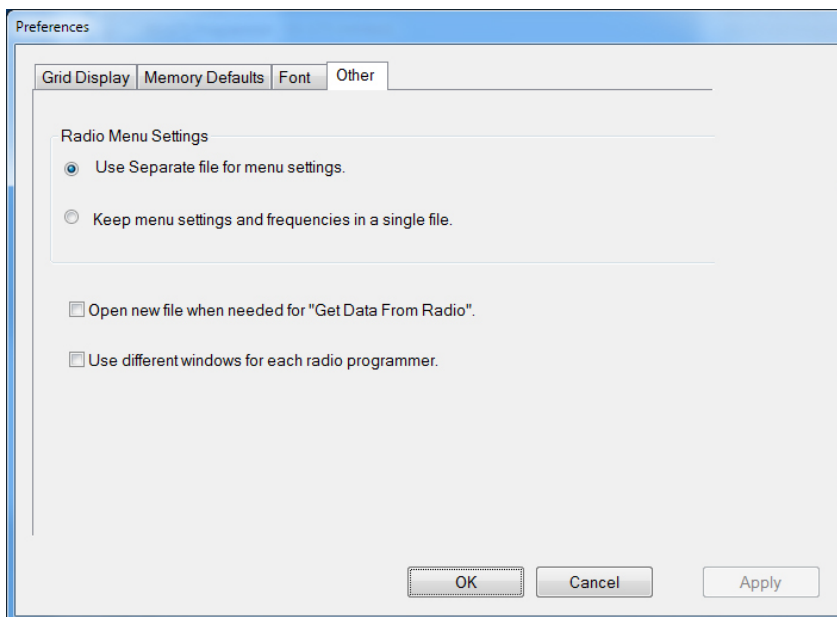
Other
- Set options to control how the programmer handles the global Radio Menu Settings file.
  - Separate (default) handles the global settings of the radio in a "set and forget" fashion. Once you set these up and save the file you won't have to reset them for a new frequency file.
  - Together as one gives you the ability to create files that are complete with frequencies and custom-ized 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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Click here to learn more about using Preferences to customize your radio programming experience.