

System requirements

To use this program, the following hardware and software are required:

- Microsoft® Windows® 95/98/Me/XP/Vista
- IBM® PC/AT compatible computer
- RS-232C serial port/USB Port
- At least 800 × 600 pixel display
- OPC-478/U/UC CLONING CABLE
- OPC-592 ADAPTOR CABLE

Software installation

NOTE: Depending on your Windows system files, the PC may require rebooting. In this case, repeat the installation from the beginning.

Getting started

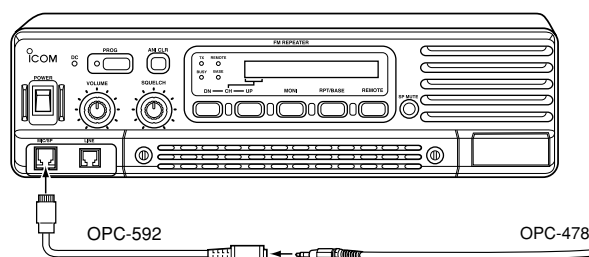
- ◇ This cloning software is designed to perform data setting and cloning for the IC-FR3000/IC-FR4000 series VHF/UHF FM REPEATER.
- ◇ **HELP WINDOW:** CS-FR3000 has a help window to describe functions and operation.

Installation

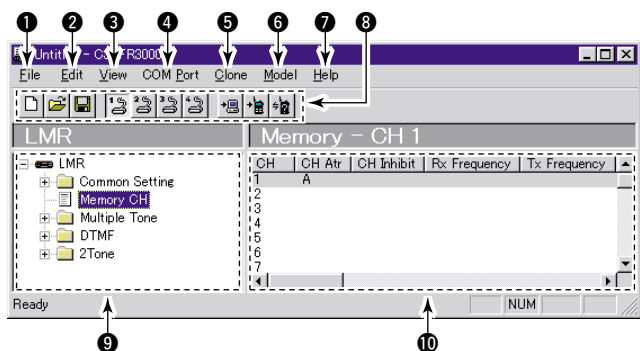
- ① Boot up Windows.
 - Quit all applications when Windows is running.
- ② Insert the CD into the appropriate CD drive.
- ③ Select 'Run' from the [Start] menu.
- ④ Type the setup program name with full path name, then press the [Enter] key. (e.g. D:\Csfr3000\Disk1\Setup.exe [Enter])
- ⑤ Follow the prompts.
- ⑥ Enter the product ID number with following manner.
 - ID number: 244301-(6 digit number, e.g. 123456)
- ⑦ Program group 'CS-FR3000' appears in the 'Programs' folder of the start menu.

Connections

All cloning operations are performed from the computer's mouse or keyboard—the operation required on the receiver side is; Turning power ON the repeater.



Screen description



1 FILE MENU [File]

Used for saving memory channel contents, printing the preprogrammed information or quitting the program, etc.

2 EDIT MENU [Edit]

Edits each memory channel information (Prio A, Emergency, Emergency OFF, etc.) via the Edit menu.

3 VIEW MENU [View]

Turn the Toolbar/Status Bar ON or OFF.

4 COM PORT MENU [COM Port]

Selects the COM port.

NOTE: 'Communication failed' dialog box appears when the COM port is not set correctly.

5 CLONING MENU [Clone]

Click to display cloning menu and cloning information dialog box.

6 MODEL MENU [Model]

Click to select the proper model type from LMR (2Tone) or PMR (5Tone).

7 HELP MENU [Help]

Click to display help contents and cloning software revision information.

8 TOOLBAR

Shortcut key appears on the toolbar when clicking the toolbar function in the [View] menu.

9 TREE VIEW screen

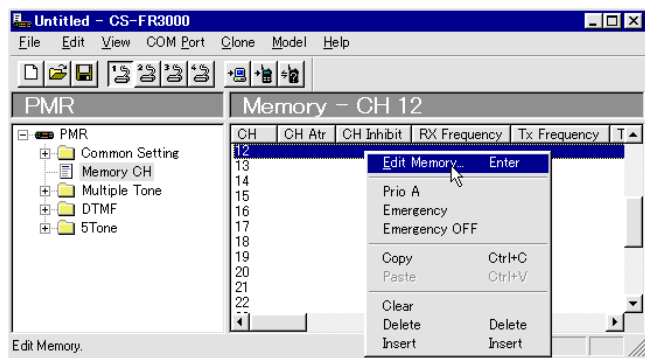
Click the folder icon which you want to edit.

10 MEMORY CH screen

Display the Memory CH (channel or editable item) information.

■ Programming information

- Read all the repeater cloning data into the PC before starting editing with this software. Otherwise the frequency data may not be cloned properly to your repeater.
- Edit Screen



- Double left-click on the desired memory channel, or right-click and then click [Edit Memory... Enter] to enter the memory channel program screen.
 - You can edit it directly.
 - You can click the pull down menu to select and change the channel setting depends on the item.
- Right-click on the desired memory channel and then select the item.
 - You can set the channel setting as Prio A, Emergency channel.
 - You can Copy, Paste, Clear, Delete and Insert the memory channel.

■ Common Setting

◇ Key & Display

Set Prio A, Prio A (Rewrite), Disp Select, Lock, High/Low, etc. for the programmable key assign, and set Opening Text, RF Power Selection, MR/Code Display (PMR) and Beep condition for the display assign.

◇ Common

Commonly set items such as Clone Comment (1)/(2), User Password, PWR ON Password in the Common 1 screen, Auto Reset Timer A/B, Scrambler Type, Group Code in the Common 2 screen, RPT TOT Timer, Penalty Timer, Hang ON Timer in the Common 3 screen.

◇ Expert

Expertly set items such as TX/RX DTCS Inverse, the Low/High beep tone frequencies in the Expert 1 screen, REG Unit TEMP, PA Unit TEMP, TEL Code, TEL Code Times, Backup condition in the Expert 2 screen.

■ Memory CH

The 'Memory CH' window allows you to edit the channel information. Editable items such as RX/TX Frequency, Text, RX/TX C.Tone, BASE/RPT TOT, Hang ON, Wide/Narrow, RPT/BASE, RF PWR, Lockout, Auto Reset, BASE/RPT Log, Scrambler OFF/ON/Inhibit, Scrambler Code.

■ Multiple Tone

Set a continuous tone frequency for RX or TX mode or check the Simplex's check-box to use the same tone frequency as TX mode to RX mode.

■ DTMF

◇ RX Code CH

Program DTMF code of up to 24 digits, Text, LCD Blink, Beep, SP Mute and Code MR conditions.

◇ TX Code CH (Autodial)

Program DTMF code of up to 24 digits.

◇ RX System Code

Program DTMF code of 4 digits in the System Password, System Control Exit, Repeat Start/Stop, TX Start/Stop, etc.

◇ TX System Code

Program DTMF code for response of 4 digits in the System Password OK ACK, System control Exit ACK, OK ACK, and NG ACK.

◇ DTMF Setting

Set DTMF Timer, 1st Timer, Header Tone, De-limiter Tone, etc.

■ 2Tone

◇ RX Code CH

Set 1st/2nd tone frequencies, Group Call, Text, ANS, Beep, Auto TX and Stun.

◇ RX Code Setting

Set Notone Timer, Group Timer and Auto TX Timer.

◇ TX Code

Set Code Type, 1st/2nd Tone Frequency and Period.

■ 5Tone

◇ RX Code CH

Set RX Code, Text, ABC, Aud Mode, Emer, Beep, etc.

◇ RX Code Setting

Set Link A Timer, Compare Digit, ID Decode Timer and Auto TX Timer.

◇ TX Code CH

Set TX Code, Text, Input Digit, Update, ABC condition, and Sel.

◇ TX Code Setting

Set Long Tone Timer, Link R/1/2 Timer, Lead Out Delay Timer, ABC Decode Timer, etc.

◇ Format

Set the Tone Period for a tone encoder, Notone Timer and Tone Length.

◇ User Tone

Set the encode tone frequency, the lower and higher edge of the tone decode frequency range. And check the 'Auto' check-box to recommended decode frequencies are automatically set.

NOTE: The above instructions are for reference only. Please refer to the HELP file of the cloning software for the function or setting details.

Icom, Icom Inc. and the ICOM logo are registered trademarks of Icom Incorporated (Japan) in the United States, the United Kingdom, Germany, France, Spain, Russia and/or other countries.

IBM is a registered trademark of International Business Machine.

Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries.