

## 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

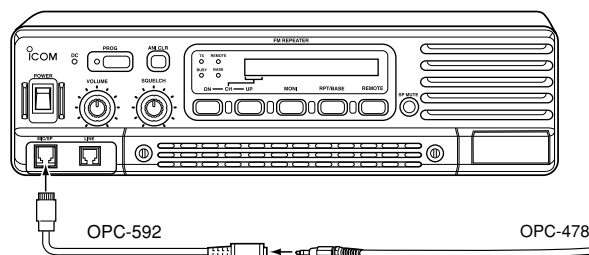
- ◇ This cloning software is designed to perform data setting and cloning for the IC-FR3000/IC-FR4000 series VHF/UHF FM REPEATER.
- ◇ **HELP WINDOW:** CS-FR3000 has a help window to describe functions and operation.

### Installation

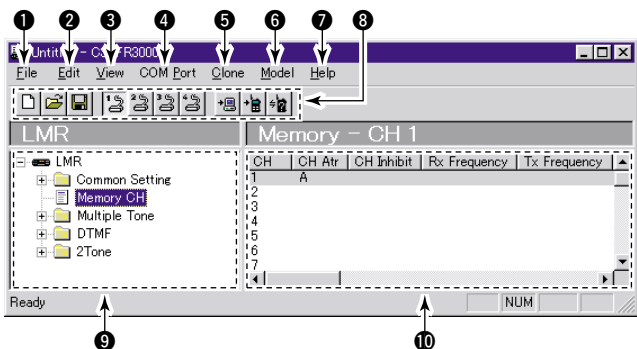
- ① Boot up Windows.
  - Quit all applications when Windows is running.
- ② Insert the CD into the appropriate CD drive.
- ③ Select 'Run' from the [Start] menu.
- ④ Type the setup program name with full path name, then press the [Enter] key. (e.g. D:\Csfr3000\Disk1\Setup.exe [Enter])
- ⑤ Follow the prompts.
- 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

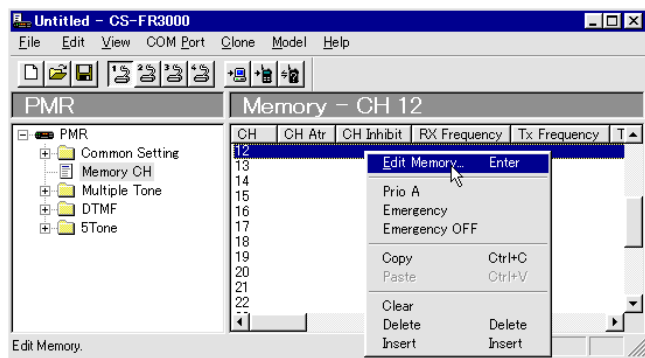
Click the folder icon which you want to edit.

### 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.

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