

## 9 PC programming Command

### 【 FORMAT OF THIS DOCUMENT 】

<COMMAND NAME>

Summary explanation of the function of the command

Controller → Radio

Command format

Radio → Controller

Response format

### NOTE

1. Any command is required to wait a response from the scanner, then, next command will be acceptable.
2. All memory access commands are acceptable in only Program Mode.  
Use PRG command to enter Program Mode, and EPG command to exit.
3. Error message isn't described in this document, but the scanner returns error message to the controller as follows.

- 1) Command format error / Value error : ERR[¥r]
- 2) The command is invalid at the time : NG[¥r]

4. [¥r] means "to hit the Enter key" or "to send the Return code".
5. In set command, only "," parameters are not changed.
6. The set command is aborted if any format error is detected.

### 【 Virtual Serial port setting 】

Buadrate           57600bps  
 Start bit           1bit  
 Stop bit            1bit  
 Data length        8bit  
 Parity             none  
 Flow control       none

| No. | Category                     | Command | Function                           | Program Mode Only |
|-----|------------------------------|---------|------------------------------------|-------------------|
| 1.  | Program Control Mode         | PRG     | Enter Program Mode                 |                   |
| 2.  |                              | EPG     | Exit Program Mode                  |                   |
| 3.  | System Information           | MDL     | Get Model Info                     |                   |
| 4.  |                              | VER     | Get Firmware Version               |                   |
| 5.  | System Settings              | CLR     | Clear All Memory                   | O                 |
| 6.  |                              | BPL     | Get/Set Band Plan                  | O                 |
| 7.  |                              | KBP     | Get/Set Key setting                | O                 |
| 8.  |                              | PRI     | Get/Set Priority Mode              | O                 |
| 9.  | Scan Settings                | SCG     | Get/Set Group Quick Lockout        | O                 |
| 10. |                              | CIN     | Get/Set Channel Info               | O                 |
| 11. | Search / Close Call Settings | SCO     | Get/Set Search/Close Call Settings | O                 |
| 12. |                              | GLF     | Get Global Lockout Freq            | O                 |
| 13. |                              | ULF     | Unlock Global L/O                  | O                 |
| 14. |                              | LOF     | Lock Out Frequency                 | O                 |
| 15. |                              | CLC     | Get/Set Close Call Settings        | O                 |
| 16. | Service Search Settings      | SSP     | Get/Set Service Search Settings    | O                 |
| 17. | Custom Search Settings       | CSG     | Get/Set Custom Search Group        | O                 |
| 18. |                              | CSP     | Get/Set Custom Search Settings     | O                 |
| 19. | Volume Level Settings        | VOL     | Get/Set Volume Level Settings      |                   |
| 20. | Squelch Level Settings       | SQL     | Get/Set Squelch Level Settings     |                   |

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<COMMAND PRG>  
Enter Program Mode

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- Controller → Radio  
① PRG[¥r]  
Radio → Controller  
① PRG,OK[¥r]  
② PRG,NG[¥r]

The scanner goes to Program Mode.  
The scanner displays "PC" and Key lock and PGM icons .

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<COMMAND EPG>  
Exit Program Mode

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- Controller → Radio  
① EPG[¥r]  
Radio → Controller  
① EPG,OK[¥r]

The scanner exits from Program Mode.  
Then the scanner goes to Scan Hold Mode.

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<COMMAND MDL>  
Get Model Info

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- Controller → Radio  
① MDL[¥r]  
Radio → Controller  
① MDL,BC75XLT[¥r]

Returns Model Information.

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<COMMAND VER>  
Get Firmware Version

---

- Controller → Radio  
① VER[¥r]  
Radio → Controller  
① VER,Version 1.00.00[¥r]

Returns Firmware Version.

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<COMMAND CLR>  
Clear All Memory

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- Controller → Radio  
① CLR[¥r]  
Radio → Controller  
① CLR,OK[¥r]

All the memories are set for initial setting.  
This command is only acceptable in Programming Mode.

Note :  
It takes dozens of seconds.

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<COMMAND BPL>

Get/Set Band Plan

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Controller → Radio

- ① BPL[ $\neq$ r]
- ② BPL,[PLAN][ $\neq$ r]

Radio → Controller

- ① BPL,[PLAN][ $\neq$ r]
- ② BPL,OK[ $\neq$ r]

[PLAN] : Band Plan (0:USA / 1:Canada)

This command is only acceptable in Programming Mode.

Band Plan setting affects frequency step. Issue this command before frequency programming.

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<COMMAND KBP>

Get/Set Key setting

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Controller → Radio

- ① KBP[ $\neq$ r]
- ② KBP,[RSV],[LOCK][ $\neq$ r]

Radio → Controller

- ① KBP,[ RSV],[LOCK][ $\neq$ r]
- ② KBP,OK[ $\neq$ r]

[LOCK] : Key Lock status (0:OFF / 1:ON)

This command is only acceptable in Programming Mode.

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<COMMAND PRI>

Get/Set Priority Mode

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Controller → Radio

- ① PRI[ $\neq$ r] : Get Priority Mode Setting
- ② PRI,[PRI\_MODE][ $\neq$ r]

Radio → Controller

- ① PRI,[PRI\_MODE][ $\neq$ r]
- ② PRI,OK[ $\neq$ r]

[PRI\_MODE] : Priority Setting (0:OFF / 1:ON / 2:PLUS ON / 3:DND)

Get/Set Priority Mode.

This command is only acceptable in Programming Mode.

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<COMMAND SCG>

Get/Set SCAN Channel Group

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Controller → Radio

- ① SCG,[ $\neq$ r]
- ② SCG,#####[ $\neq$ r]

Radio → Controller

- ① SCG,#####[ $\neq$ r]
- ② SCG,OK[ $\neq$ r]

##### (each # is 0 or 1) : 0 : valid / 1 : invalid

The Order of Range is as same as LCD Icon (1 – 10).

Get/Set current status of the channel storage bank select.

This command is only acceptable in Programming Mode.

\*It can not set all channel storage banks to "1".

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<COMMAND CIN>  
Get/Set Channel Info

Controller → Radio

- ① CIN,[INDEX][#r]
- ② CIN,[INDEX],[RSV],[FRQ],[RSV],[RSV],[DLY],[LOUT],[PRI][#r]

Radio → Controller

- ① CIN,[INDEX],[RSV],[FRQ],[RSV],[RSV],[DLY],[LOUT],[PRI][#r]
- ② CIN,OK[#r]

|         |   |                      |                          |
|---------|---|----------------------|--------------------------|
| [INDEX] | : | Channel Index(1-300) |                          |
| [FRQ]   | : | Channel Frequency    | ex) 290000               |
| [DLY]   | : | Delay Time           | (0:OFF / 1:ON)           |
| [LOUT]  | : | Lockout              | (0:Unlocked / 1:Lockout) |
| [PRI]   | : | Priority             | (0:OFF / 1:ON)           |

Get/Set Channel Information.  
In set command, only ", " parameters are not changed.  
The set command is aborted if any format error is detected.  
This command is only acceptable in Programming Mode.

<COMMAND SCO>  
Get/Set Search/Close Call Settings

Controller → Radio

- ① SCO[#r]
- ② SCO,[DLY],[RSV],[DIR][#r]

Radio → Controller

- ① SCO,[DLY],[RSV],[DIR] [#r]
- ② SCO,OK[#r]

|       |   |            |                |
|-------|---|------------|----------------|
| [DLY] | : | Delay Time | (0:OFF / 1:ON) |
| [DIR] | : | Direction  | (0:Up / 1:Dw)  |

Get/Set Search/Close Call Settings.  
In set command, only ", " parameters are not changed.  
The set command is aborted if any format error is detected.  
This command is only acceptable in Programming Mode.

<COMMAND GLF>  
Get Global Lockout Freq

Controller → Radio

- ① GLF[#r]
- ② GLF,[\*\*][#r]

Radio → Controller

- ① GLF,[FRQ][#r]
- GLF,-1[#r]
- GLF,OK[#r]

|       |   |                   |                                  |
|-------|---|-------------------|----------------------------------|
| [FRQ] | : | Lockout Frequency | (250000-512000)                  |
| [**]  | : | Don't care        | (to retrieve 1'st L/O frequency) |

This command is used to get Global L/O frequency list.  
You should call this command again and again to get all-global L/O frequency until the scanner returns "-1".  
"-1" means that no more L/O frequency exists.  
This command is only acceptable in Programming Mode.

<COMMAND ULF>

Unlock Global L/O

Controller → Radio

① ULF,[FRQ][¥r]

Radio → Controller

① ULF,OK[¥r]

[FRQ] : Lockout Frequency (250000-5120000)

This command unlocks a L/O frequency.  
 The frequency is deleted from L/O list.  
 This command is only acceptable in Programming Mode.

<COMMAND LOF >

Lock Out Frequency

Controller → Radio

① LOF,[FRQ][¥r]

Radio → Controller

① LOF,OK[¥r]

[FRQ] : Frequency (250000-5120000)

This command locks out a frequency.  
 The frequency is added to L/O list.  
 This command is only acceptable in Programming Mode.

<COMMAND CLC>

Get/Set Close Call Settings

Controller → Radio

① CLC[¥r]

② CLC,[CC\_MODE],[ALTB],[ALTL],[CC\_BAND],[RSV][¥r]

Radio → Controller

① CLC,[CC\_MODE],[ALTB],[ALTL],[CC\_BAND],[RSV][¥r]

② CLC,OK[¥r]

|           |                    |                                |
|-----------|--------------------|--------------------------------|
| [CC_MODE] | : Mode             | ( 0:OFF / 1:CC PRI / 2:CC DND) |
| [ALTB]    | : Alert Beep       | (0:OFF / 1:ON)                 |
| [ALTL]    | : Alert Light      | (0:OFF / 1:ON)                 |
| [CC_BAND] | : Close Call Band  | (5digit ##### )                |
|           | (each # is 0 or 1) |                                |
|           | 0 means OFF        |                                |
|           | 1 means ON         | +--- UHF                       |
|           |                    | +---- 0 (RSV )                 |
|           |                    | +---- VHF HIGH                 |
|           |                    | +----- AIR BAND                |
|           |                    | +----- VHF LOW                 |

Get/Set Close Call Settings.  
 In set command, only "," parameters are not changed.  
 The set command is aborted if any format error is detected.  
 This command is only acceptable in Programming Mode.

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<COMMAND SSP>

Get/Set Service Search Settings

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Controller → Radio

- ① SSP,[SVC\_INDEX][¥r]
- ② SSP,[SVC\_INDEX],[DLY] ,[DIR][¥r]

Radio → Controller

- SSP,[SVC\_INDEX],[DLY] ,[DIR][¥r]
- ① SSP,OK[¥r]

|             |                |
|-------------|----------------|
| [SVC_INDEX] |                |
| 1           | WX             |
| 2           | Police         |
| 3           | Fire/Emergency |
| 4           | Marine         |
| 5           | Racing         |
| 6           | Civil Air      |
| 7           | HAM Radio      |
| 8           | Railroad       |
| 9           | CB Radio       |
| 10          | FRS/GMRS/MRUS  |

[DLY] : Delay Time (0:OFF / 1:ON)  
 [DIR] : Direction (0:Up / 1:Dw)

The set command is aborted if any format error is detected.  
 This command is only acceptable in Programming Mode.

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<COMMAND CSG>

Get/Set Custom Search Group

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Controller → Radio

- ① CSG[¥r]
- ② CSG,#####, [DLY],[DIR] [¥r] : Status of Each Search Range

Radio → Controller

- ① CSG,#####,[DLY] ,[DIR] [¥r]
- ② CSG,OK[¥r]

##### (each # is 0 or 1) : 0 : valid / 1 : invalid

[DLY] : Delay Time (0:OFF / 1:ON)  
 [DIR] : Direction (0:Up / 1:Dw)

The Order of Range is as same as LCD Icon (1 – 10).  
 Get/Set current status of the custom search range.  
 This command is only acceptable in Programming Mode.  
 \*It can not set all Custom Search Ranges to "0".

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<COMMAND CSP>

Get/Set Custom Search Settings

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Controller → Radio

- ① CSP,[SRCH\_INDEX][¥r]
- ② CSP,[SRCH\_INDEX],[LIMIT\_L],[LIMIT\_H][¥r]

Radio → Controller

- ① CSP,[SRCH\_INDEX],[LIMIT\_L],[LIMIT\_H],[¥r]
- ② CSP,OK[¥r]

[SRCH\_INDEX] : Index (1-10)  
 [LIMIT\_L] : Lower Limit Frequency (250000-5120000)  
 [LIMIT\_H] : Upper Limit Frequency (250000-5120000)

Get/Set Custom Search Settings.  
 In set command, only "," parameters are not changed.  
 The set command is aborted if any format error is detected.  
 This command is only acceptable in Programming Mode.

<COMMAND VOL>

Get/Set Volume Level Settings

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Controller → Radio

- ① VOL[✎r]
- ② VOL,[LEVEL][✎r]

Radio → Controller

- ① VOL,[LEVEL][✎r]
- ② VOL,OK[✎r]

[LEVEL] : Volume Level ( 0 - 15 )

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<COMMAND SQL>

Get/Set Squelch Level Settings

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Controller → Radio

- ① SQL[✎r]
- ② SQL,[LEVEL][✎r]

Radio → Controller

- ① SQL,[LEVEL][✎r]
- ② SQL,OK[✎r]

[LEVEL] : Squelch Level (0:OPEN / 1-14 / 15:CLOSE)