UNIDEN PROGRAMMING CONTROL CODES
FOR USE WITH UNIDEN SCANNERS

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7.9. REMOTE COMMAND

【 Remote Communication Format 】

```
   BPS rate        : 9600/19200/38400/57600 bps
   Start/Stop bit : 1 bit, 1 bit
   Data Length    : 8 bit
   Parity Check   : None
   Code           : ASCII
   Flow Control   : None
   Return Code    : Carriage Return only
```

【 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]
   3) Framing error   : FER[¥r]
   4) Overrun error   : ORER[¥r]

4. [¥r] means "to hit the Enter key" or "to send the Return code".

5. Several commands or responses with long format are described like multi-line
   because of the page width but their formats are only single line, actually.

6. In set command, only ",", parameters are not changed.

7. The set command is aborted if any format error is detected.

8. [INDEX] or [xxx_INDEX] is the index of internal memory chain.
   Dynamic Memory Allocation Structure always uses it as a handle to access data
   and to trace forward/reverse or up/down index.
   The range of the index is from 1 to maximum memory block (about 3000).

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9. [FRQ], [BASEx] and [LIMIT_x] are frequency format.
    It is showed by 8digit number without decimal point.
    The order of the digits is from 1 GHz digit to 100 Hz digit.
    ex. 08510125 means 851.0125MHz

10. [NAME] shows each custom name. If user set only space character, the name will
    return to default name.

Remote Command List

	Category	Command	Function	Program Mode Only
1.	Remote Control	KEY	Push KEY	
2.		POF	Power OFF	
3.		QSH	Go to quick search hold mode	
4.		STS	Get Status	
5.	System information	MDL	Get Model Info	
6.		VER	Get Firmware Version	
7.	Programming Mode	PRG	Enter Program Mode	
8.	Control	EPG	Exit Program Mode	
9.	System Settings	BLT	Get/Set Backlight	○
10.		BSV	Get/Set Battery Save	○
11.		CLR	Clear All Memory	○
12.		KBP	Get/Set Key Beep	○
13.		OMS	Get/Set Opening Message	○
14.		PRI	Get/Set Priority Mode	○
15.	Scan Settings	SCT	Get System Count	○
16.		SIH	Get System Index Head	○
17.		SIT	Get System Index Tail	○
18.		QSL	Get/Set System Quick Lockout	○
19.		QGL	Get/Set Group Quick Lockout	○
20.		CSY	Create System	○
21.		DSY	Delete System	○
22.		CPS	Copy System	○
23.		SIN	Get/Set System Info	○
24.		AGC	Append Channel Group	○
25.		DGR	Delete Group	○
26.		GIN	Get/Set Group Info	○

	Category	Command	Function	Program Mode Only
27.	Scan Settings	ACC	Append Channel	○
28.	(Continued from	DCH	Delete Channel	○

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29.	previous page）	CIN	Get/Set Channel Info	○
30.		REV	Get Rev Index	○
31.		FWD	Get Fwd Index	○
32.		RMB	Get Remains of Memory Block	○
33.		MEM	Get Memory Used	○
34.	Search/Close Call	SCO	Get/Set Search/Close Call Settings	○
35.	Settings	GLF	Get Global Lockout Freq	○
36.		ULF	Unlock Global L/O	○
37.		CLC	Get/Set Close Call Settings	○
38.	Custom Search	CSG	Get/Set Custom Search Group	○
39.	Settings	CSP	Get/Set Custom Search Settings	○
40.	Weather Settings	WPR	Get/Set Weather Priority Setting	○
41.		SGP	Get/Set SAME Group Settings	○
42.	Test	WIN	*Get Window Voltage	
43.		BAV	*Get Battery Voltage	

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```
================================================================================
  <COMMAND KEY>
  Push KEY
================================================================================

  Controller → Radio
        ①KEY, [KEY_CODE], [KEY_MODE][\r]


  Radio → Controller
        ①KEY, OK[\r]


        [KEY_CODE]        M        : MENU
                          F        : F
                          H        : HOLD
                          S        : SCAN/SEARCH
                          L        : L/O
                          C        : CAR/LOCK
                          1        : 1/PRI
                          2        : 2/WX
                          3        : 3
                          4        : 4
                          5        : 5
                          6        : 6
                          7        : 7/Rcl
                          8        : 8
                          9        : 9
                          0        : 0/RACE
                          .(dot)   : ./NO/REVERSE
                          E        : E/YES/ATT
                          >        : VFO RIGHT      * Set "P" to KEY_MODE.
                          <        : VFO LEFT       * Set "P" to KEY_MODE.
                          ^        : VFO PUSH
                          P        : POWER/LIGHT


        [KEY_MODE]        P        : Press (One Push)
                          L        : Long Press (Press and Hold a few second)
                          H        : Hold (Press and Hold until Release receive)
                          R        : Release (Cancel Hold state)


        Ex.1) Press MENU KEY
                  →      KEY,M,P[\r]
                  ←      OK[\r]
        Ex.2) Press F + SCAN KEY
                  →      KEY,F,H[\r]        : Hold F KEY
                  ←      OK[\r]
                  →      KEY,S,P[\r]        : Press SCAN KEY (F + SCAN KEY operation)
                  ←      OK[\r]
                  →      KEY,F,R[\r]        : Release F KEY
                  →      OK[\r]
        Ex.3) Press and Hold L/O KEY
                  →      KEY,L,L[\r]
                  ←      OK[\r]


                  The Scanner is not turned off by this command.
```

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==

<COMMAND POF>
Power OFF

==

Controller → Radio
        ①POF[¥r]

  Radio → Controller
        ①POF,OK[¥r]

                Turns off the scanner.
                After this command, the scanner doesn't accept any command.

  ==

<COMMAND QSH>
Go to quick search hold mode

  ==

Controller → Radio
      QSH,[FRQ],[STP],[MOD],[ATT],[DLY],[SKP],[CODE_SRCH],[PGR],[REP][¥r]

  Radio → Controller
        ①QSH,OK[¥r]

        [FRQ]   : Frequency (The right frequency)
        [STP]   : Search Step
                    (0,500,625,750, ... , 5000,10000,20000)
                    0 : AUTO
                    500   : 5k
                    625   : 6.25k
                    750   : 7.5k
                    1000 : 10k
                    1250 : 12.5k
                    1500 : 15k
                    2500 : 25k
                    5000 : 50k
                    10000 : 100k
        [MOD]   : Modulation (AUTO/FM/NFM/AM)
        [ATT]   : Attenuation   (0:OFF / 1:ON)
        [DLY]   : Delay Time   (0-5)
        [SKP]   : Data Skip   (0:OFF / 1:ON)
        [CODE_SRCH] : CTCSS/DCS Search (0:OFF / 1:ON)
        [PGR]   : Pager Screen   (0:OFF / 1:ON)
        [REP]   : Repeater Find   (0:OFF / 1:ON)

        ②QSH,NG[¥r]
                This command is invalid when the Scanner is in Menu Mode,
                during Direct Entry operation, during Quick Save operation.

FUNCTION
        SS specifies arbitrary frequency and changes to Quick Search Hold (VFO) mode.
        Parameter, such as STP, changes the contents of Srch/CloCall option.

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==

<COMMAND STS>
Get Current Status

==

Controller → Radio
        ①STS[¥r]

Radio → Controller
        ①STS, [L1_CHAR], [L1_MODE], [L2_CHAR], [L2_MODE], [ICON1], [ICON2], [RESERVE],
              [SQL], [MUT], [BAT], [WAT][¥r]

        [L1_CHAR]   : Line1 Characters 16char (fixed length)
        [L1_MODE]   : Line1 Display Mode 16char
        [L2_CHAR]   : Line2 Characters 16char (fixed length)
        [L2_MODE]   : Line2 Display Mode 16char
        [ICON1]   : Icon1 Group Display Mode 15char
        [ICON2]   : Icon2 Group Display Mode 17char
        [RESERVE]   : (Reserved area, not used)
        [SQL]   : Squelch Status (0:CLOSE / 1:OPEN)
        [MUT]   : Mute Status   (0:OFF / 1:ON)
        [BAT]   : Battery Low Status (0:No Alert / 1:Alert)
        [WAT]   : Weather Alert Status   0: No Alert
                                                    1: Alert
                                                  $$$: Alert SAME CODE (SAME EVENT CODE)

        NOTE: Line1 or Line2 Characters may include ″,″ as displayed character.

        Display Mode for Line1 or Line2
                (space)   : NORMAL CHAR, _(under bar)   : CURSOR POINT
                    *   : REVERSE CHAR, #   : BLINK CHAR

        Display Mode for Icon1 or Icon2 Group (0:OFF / 1:ON / 2:BLINK)

        ICON1 Group and Order: SYS /1/2/3/4/5/6/7/8/9/0 / ATT / PRI / KEYLOCK / BATT

        ICON2 Group and Order: GRP /1/2/3/4/5/6/7/8/9/0 / AM / N / FM / L/O / F / CC

        Ex)   →   STS[¥r]
                   ←   System A   ,   ,
                          ″ 851.0125MHz   ″,################,
                          112011111111000, 11111110000011000,
                          1,0,0,0[¥r]

                          ┌─────────────────────┐
                          | System A |
                          | ″851.0125MHz ″ | (L1:BLINK)
                          | SYS 12 4567890 ATT | (2 :BLINK)
                          | GRP 1234567   NFM |
                          └─────────────────────┘

                                                Scan Mode
                                                Squelch OPEN
                                                Mute OFF
                                                No Battery Alert
                                                No Weather Alert

                    Returns current scanner status.

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==
```
<COMMAND MDL>
Get Model Info
```
==
```
Controller → Radio
        ①MDL[¥r]


Radio → Controller
        ①MDL,SC230[¥r]


                Returns Model Information.
```

==
```
<COMMAND VER>
Get Firmware Version
```
==
```
Controller → Radio
        ①VER[¥r]


Radio → Controller
        ①VER,VR1.00[¥r]


                Returns Firmware Version.
```


==
```
<COMMAND PRG>
Enter Program Mode
```
==
```
Controller → Radio
        ①PRG[¥r]


Radio → Controller
        ①PRG,OK[¥r]


        ②PRG,NG[¥r]
                This command is invalid when the Scanner is in Menu Mode,
                during Direct Entry operation, during Quick Save operation.

                The Scanner goes to Program Mode.
                The Scanner displays "Remote Mode" on upper line
                 and "Keypad Lock" on lower line in Program Mode.
                And POWER key and Function key are valid in Program Mode.
```


==
```
<COMMAND EPG>
Exit Program Mode
```
==
```
Controller → Radio
        ①EPG[¥r]


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

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

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```
================================================================================
  <COMMAND BLT>
  Get/Set Backlight
================================================================================
  Controller → Radio
        ①BLT[\r]                    : Get Backlight Setting
        ②BLT,##[\r]                 : Set Backlight Setting

  Radio → Controller
        ①BLT,##[\r]
        ②BLT,OK[\r]

                                    ## means Backlight Setting
                                    IF : INFINITE
                                    10 : 10sec
                                    30 : 30sec
                                    KY : KEYPRESS
                                    SQ : SQUELCH

                          Get/Set Backlight Setting.
                          This command is only acceptable in Programming Mode.


================================================================================
  <COMMAND BSV>
  Get/Set Battery Save
================================================================================
  Controller → Radio
        ①BSV[\r]                    : Get Battery Save Setting
        ②BSV,#[\r]                  : Set Battery Save Setting

  Radio → Controller
        ①BSV,#[\r]
        ②BSV,OK[\r]

                                    # means Battery Save Setting
                                    (0:OFF / 1:ON)

                          Get/Set Battery Save Setting.
                          This command is only acceptable in Programming Mode.


================================================================================
  <COMMAND CLR>
  Clear All Memory
================================================================================
  Controller → Radio
        ①CLR[\r]

  Radio → Controller
        ①CLR,OK[\r]

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

        Note) Needs about 10 seconds execute time.
        Only PC Control (Baud Rate) does not become an initial-setting value.
```

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==
```
<COMMAND KBP>
Get/Set Key Beep
```
==
```
Controller → Radio
      ①KBP[¥r]                    : Get Key Beep Setting
      ②KBP,#[¥r]                  : Set Key Beep Setting

Radio → Controller
      ①KBP,#[¥r]
      ②KBP,OK[¥r]

                              # means Key Beep Setting
                              (0:OFF / 1:ON)

                   Get/Set Key Beep Setting.
                   This command is only acceptable in Programming Mode.
```

==
```
<COMMAND OMS>
Get/Set Opening Message
```
==
```
Controller → Radio
      ①OMS[¥r]
      ②OMS,[L1_CHAR],[L2_CHAR][¥r]

Radio → Controller
      ①OMS,[L1_CHAR],[L2_CHAR][¥r]
      ②OMS,OK[¥r]

            Get/Set Opening Message.
            [L1_CHAR]        : Line1 Characters (max.16char)
            [L2_CHAR]        : Line2 Characters (max.16char)

            If only space code is set in character area,
            the message returns default message.
```

==
```
<COMMAND PRI>
Get/Set Priority Mode
```
==
```
Controller → Radio
      ①PRI[¥r]                    : Get Priority Mode Setting
      ②PRI,#[¥r]                  : Set Priority Mode Setting

Radio → Controller
      ①PRI,#[¥r]
      ②PRI,OK[¥r]

                              # means Priority Setting
                              (0:OFF / 1:ON, 2:PLUS ON)

                   Get/Set Priority Mode.
                   This command is only acceptable in Programming Mode.
```

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==

　　<COMMAND SCT>
　　Get System Count

==

　　Controller → Radio
　　　　①SCT[\r]
　　Radio → Controller
　　　　①SCT,###[\r]　　　　　　　: ### (0-200)

　　　　　　　　　　　　　Returns the number of stored System.
　　　　　　　　　　　　　This command is only acceptable in Programming Mode.

==

　　<COMMAND SIH>
　　Get System Index Head

==

　　Controller → Radio
　　　　①SIH[\r]

　　Radio → Controller
　　　　①SIH,[SYS_INDEX][\r]

　　　　　　　　　　　　　Returns the first index of stored system list.
　　　　　　　　　　　　　This command is only acceptable in Programming Mode.

==

　　<COMMAND SIT>
　　Get System Index Tail

==

　　Controller → Radio
　　　　①SIT[\r]

　　Radio → Controller
　　　　①SIT,[SYS_INDEX][\r]

　　　　　　　　　　　　　Returns the last index of stored system list.
　　　　　　　　　　　　　This command is only acceptable in Programming Mode.

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==

<COMMAND QSL>
Get/Set System Quick Lockout

==

Controller → Radio
  ①QSL[¥r]
  ②QSL,##########[¥r]

Radio → Controller
  ①QSL,##########[¥r]
  ②QSL,OK[¥r]

         Returns the System Quick Key L/O status.
           : ########## (each # is 0 or 1)
            0 means unlocked
            1 means lockout
            The Order of Quick Key is as same as LCD Icon.

         This command is only acceptable in Programming Mode.
         It cannot turn on/off the Quick Key that has no System.
         *10th bit(Quick Key 0) is not used and is always 1.

==

<COMMAND QGL>
Get/Set Group Quick Lockout

==

Controller → Radio
  ①QGL,[SYS_INDEX],[¥r]
  ②QGL,[SYS_INDEX], ##########[¥r]

Radio → Controller
  ①QGL,##########[¥r]
  ②QGL,OK[¥r]

         Returns Group Quick Key L/O status of current System.
           : ######### (each # is 0 or 1)
            0 means unlocked
            1 means lockout
            The Order of Quick Key is as same as LCD Icon.

         This command is only acceptable in Programming Mode.
         It cannot turn on/off the Quick Key that has no Group.

==

<COMMAND CSY>
Create System

==

Controller → Radio
  ①CSY,[SYS_TYPE][¥r]

Radio → Controller
  ①CSY,[SYS_INDEX][¥r]

  [SYS_TYPE] : System Type
          CNV : CONVENTIONAL
          RACE : RACING
  [SYS_INDEX] : The Index of Created System

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Creates a system and returns created system index.
The index is a handle to get/set system information.
Returns -1 if the scanner failed to create because of no resource.
This command is only acceptable in Programming Mode.

==
<COMMAND DSY>
Delete System
==

Controller → Radio
①DSY, [SYS_INDEX][¥r]

Radio → Controller
①DSY, OK[¥r]

[SYS_INDEX]   : System Index

This command deletes a System.
This command is only acceptable in Programming Mode.

==
<COMMAND CPS>
Copy System
==

Controller → Radio
①CPS, [SYS_INDEX1], [NAME][¥r]

Radio → Controller
①CPS, [SYS_INDEX2][¥r]

[SYS_INDEX1]   : The Index of Source System
[NAME]   : The Name of Copied System
[SYS_INDEX2]   : The Index of Copied System

Copies a system.
Returns -1 if the scanner failed to copy because of no resource.
This command is only acceptable in Programming Mode.

< SC230 Operation Specification >

==
```
<COMMAND SIN>
Get/Set System Info
```
==
```
Controller → Radio
        ①SIN,[INDEX][¥r]
        ②SIN,[INDEX],[NAME],[QUICK_KEY],[HLD],[LOUT],[RES],[DLY],[SKP],[EMG][¥r]

Radio → Controller
        ①SIN,[SYS_TYPE],[NAME],[QUICK_KEY],[HLD],[LOUT],[RES],[DLY],[SKP],[EMG],
                [REV_INDEX],[FWD_INDEX],[CHN_GRP_HEAD],[CHN_GRP_TAIL],[SEQ_NO][¥r]
        ②SIN,OK[¥r]

        [INDEX]         : System Index
        [SYS_TYPE]      : System Type
        [NAME]          : Name (max.16char)
        [QUICK_KEY]     : Quick Key (1-9,.(dot): means none)
        [HLD]           : System Hold Time (0-255)
        [LOUT]          : Lockout              (0:Unlocked / 1:Lockout)
        [RES]           : Reserved for future use (Not used in the meantime)
        [DLY]           : Delay Time           (0-5)
        [SKP]           : Data Skip            (0:OFF / 1:ON)
        [EMG]           : Emergency Alert      (0:Ignore /1:Alert)
        [REV_INDEX]     : Reverse System Index of the Scan Setting
        [FWD_INDEX]     : Forward System Index of the Scan Settings
        [CHN_GRP_HEAD]  : Channel Group Index Head of the System
        [CHN_GRP_TAIL]  : Channel Group Index Tail of the System
        [SEQ_NO]        : System Sequence Number (1-200)

                Get/Set System Information.
                The scanner returns only ", " to punctuate for parameters which
                are not appropriate the system type.
                In set command, the scanner neglects the parameters that are not
                appropriate the system type.
                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 AGC>
Append Channel Group
```
==
```
Controller → Radio
        ①AGC,[SYS_INDEX][¥r]

Radio → Controller
        ①AGC,[GRP_INDEX][¥r]

        [SYS_INDEX]     : System Index
        [GRP_INDEX]     : appended Channel Group Index

                Append Channel Group to the system.
                Returns -1 if the scanner failed to create because of no resource.
                This command is only acceptable in Programming Mode.
```

< SC230 Operation Specification >

===

<COMMAND DGR>
Delete Group

===

Controller → Radio
  ①DGR,[GRP_INDEX][¥r]

Radio → Controller
  ①DGR,OK[¥r]

  [GRP_INDEX] : Group Index

    This command deletes a Channel Group.
    This command is only acceptable in Programming Mode.

===

<COMMAND GIN>
Get/Set Group Info

===

Controller → Radio
  ①GIN,[GRP_INDEX][¥r]
  ②GIN,[GRP_INDEX],[NAME],[QUICK_KEY],[LOUT][¥r]

Radio → Controller
  ①GIN,[GRP_TYPE],[NAME],[QUICK_KEY],[LOUT],[REV_INDEX],
    [FWD_INDEX],[SYS_INDEX],[CHN_HEAD],[CHN_TAIL],[SEQ_NO][¥r]
  ②GIN,OK[¥r]

  [GRP_INDEX] : Group Index
  [GRP_TYPE] : Group Type (C: Conventional Group / R: Racing Group)
  [NAME]   : Name (max.16char) for Conventional Group
       : For Racing Group, this parameter should meet the
        following format: "[Car#](3 digits)[Blank]
                [Driver Name](12 chars)"
         *If Car# is less than 3 digits, put it from left
          to right. The rest space must fill with Blank.
  [QUICK_KEY] : Quick Key (1-9,0: means 10, .(dot): means none)
  [LOUT]   : Lockout (0:Unlocked / 1:Lockout)
  [REV_INDEX] : Reverse Group Index of the System
  [FWD_INDEX] : Forward Group Index of the System
  [SYS_INDEX] : System Index
  [CHN_HEAD] : Channel Index Head of the Group List
  [CHN_TAIL] : Channel Index Tail of the Group List
  [SEQ_NO]   : Group Sequence Number of the System

    Get/Set Group 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.

< SC230 Operation Specification >

```
================================================================================
  <COMMAND ACC>
  Append Channel
================================================================================
  Controller → Radio
        ①ACC,[GRP_INDEX][¥r]

  Radio → Controller
        ①ACC,[CHN_INDEX][¥r]

        [GRP_INDEX]              : Channel Group Index
        [CHN_INDEX]              : appended Channel Index

                Append Channel to the group.
                Returns -1 if the scanner failed to create because of no resource.
                This command is only acceptable in Programming Mode.


================================================================================
  <COMMAND DCH>
  Delete Channel
================================================================================
  Controller → Radio
        ①DCH,[INDEX][¥r]

  Radio → Controller
        ①DCH,OK[¥r]

        [INDEX]            : Channel Index

                This command deletes a Channel.
                This command is only acceptable in Programming Mode.
```

< SC230 Operation Specification >

==
```
<COMMAND CIN>
Get/Set Channel Info
```
==
```
Controller → Radio
        ①CIN,[INDEX][¥r]
        ②CIN,[INDEX],[NAME],[FRQ],[STP],[MOD],[CTCSS/DCS],[TLOCK],
                [LOUT],[PRI],[ATT],[ALT][¥r]


Radio → Controller
        ①CIN,[NAME],[FRQ],[STP],[MOD],[CTCSS/DCS],[TLOCK],[LOUT],[PRI],[ATT],
                [ALT],[REV_INDEX],[FWD_INDEX],[SYS_INDEX],[GRP_INDEX],[¥r]
        ②CIN,OK[¥r]


                [INDEX]         : Channel Index
                [NAME]          : Name (max.16char)
                [FRQ]           : Channel Frequency
                [STP]           : Search Step
                                  (0, 500, 625, 750, .... , 5000, 10000, 20000)
                                  0     : AUTO
                                  500   : 5k
                                  625   : 6.25k
                                  750   : 7.5k
                                  1000  : 10k
                                  1250  : 12.5k
                                  1500  : 15k
                                  2500  : 25k
                                  5000  : 50k
                                  10000 : 100k
                 [MOD]          : Modulation (AUTO/FM/NFM/AM)
                [ATT]           : Attenuation   (0:OFF / 1:ON)
                [CTCSS/DCS]     : CTCSS/DCS Mode (0-231: see CTCSS/DCS Code List)
                [TLOCK]         : CTCSS/DCS Tone Lockout(0:OFF / 1:ON)
                [LOUT]          : Lockout       (0:Unlocked / 1:Lockout)
                [PRI]           : Priority      (0:OFF / 1:ON)
                [ALT]           : Alert         (0:OFF / 1:ON)
                [REV_INDEX]     : Reverse Channel Index
                [FWD_INDEX]     : Forward Channel Index
                [SYS_INDEX]     : System Index
                [GRP_INDEX]     : Group Inde

                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.
```

< SC230 Operation Specification >

==

<COMMAND REV>
Get Rev Index

==

Controller → Radio
  ①REV, [INDEX][¥r]

Radio → Controller
  ①REV, [INDEX][¥r]

    Returns reverse(backward) index of the index in the memory chain.
    Returns -1 if no more index exists.
    This command is only acceptable in Programming Mode.

==

<COMMAND FWD>
Get Fwd Index

==

Controller → Radio
  ①FWD, [INDEX][¥r]

Radio → Controller
  ①FWD, [INDEX][¥r]

    Returns forward index of the index in the memory chain.
    Returns -1 if no more index exists.
    This command is only acceptable in Programming Mode.

==

<COMMAND RMB>
Get Remains of Memory Block

==

Controller → Radio
  ①RMB[¥r]

Radio → Controller
  ①RMB, ####[¥r]

    Returns the number of idle(free) memory block.
      : #### (0-9999)
    This command is only acceptable in Programming Mode.

==

<COMMAND MEM>
Get Memory Used

==

Controller → Radio
  ①MEM[¥r]

Radio → Controller
  ①MEM, ###[¥r]

    Returns % memory used.
      : ### (0-100%)
    This command is only acceptable in Programming Mode.

< SC230 Operation Specification >

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

Controller → Radio
  ①SCO[¥r]
  ②SCO, [STP], [MOD], [ATT], [DLY], [SKP], [CODE_SRCH], [PGR], [REP], [MAX_STORE][¥r]

Radio → Controller
  ①SCO, [STP], [MOD], [ATT], [DLY], [SKP], [CODE_SRCH], [PGR], [REP], [MAX_STORE][¥r]
  ②SCO, OK[¥r]

```
        [STP]             : Search Step
                            (0, 500, 625, 750, .... ,  5000, 10000, 20000)
                            0     : AUTO
                            500   : 5k
                            625   : 6.25k
                            750   : 7.5k
                            1000  : 10k
                            1250  : 12.5k
                            1500  : 15k
                            2500  : 25k
                            5000  : 50k
                            10000 : 100k
        [MOD]             : Modulation (AUTO/FM/NFM/AM)
        [ATT]             : Attenuation           (0:OFF / 1:ON)
        [DLY]             : Delay Time            (0-5)
        [SKP]             : Data Skip             (0:OFF / 1:ON)
        [CODE_SRCH]       : CTCSS/DCS Search      (0:OFF / 1:ON)
        [PGR]             : Pager Screen          (0:OFF / 1:ON)
        [REP]             : Repeater Find         (0:OFF / 1:ON)
        [MAX_STORE]       : Max Auto Store        (1-256)

                 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.
```

< SC230 Operation Specification >

```
==================================================================================
  <COMMAND GLF>
  Get Global Lockout Freq
==================================================================================
  Controller → Radio
        ①GLF[¥r]

  Radio → Controller
        ①GLF,[FRQ][¥r]
          GLF,-1[¥r]

        [FRQ]    : Lockout Frequency (25.0000-1300.0000)

                   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
        ①ULF,[FRQ][¥r]

  Radio → Controller
        ①ULF,OK[¥r]

        [FRQ]    : Lockout Frequency (25.0000-1300.0000)

                   This command unlocks a Global 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
        ①LOF,[FRQ][¥r]

  Radio → Controller
        ①LOF,OK[¥r]

        [FRQ]    : Frequency (25.0000-1300.0000)

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

< SC230 Operation Specification >

==
  <COMMAND CLC>
  Get/Set Close Call Settings

==
  Controller → Radio
        ①CLC[¥r]
        ②CLC,[CC_MODE],[CC_OVERRIDE],[ALT],[CC_BAND][¥r]

  Radio → Controller
        ①CLC,[CC_MODE],[CC_OVERRIDE],[ALT],[CC_BAND][¥r]
        ②CLC,OK[¥r]

        [CC_MODE]   : Mode   (1:ON / 0:OFF)
        [CC_OVERRIDE]   : Override   (1:ON / 0:OFF)
        [ALT]   : Alert   (N:NONE / B:BEEP / L:LIGHT/ A:BEEP+LIGHT)
        [CC_BAND]   : Band   (5digit #### # means 0 or 1)
                                         (1:ON / 0:OFF)
                          Band Order : VHF LOW / AIR BAND / VHF HIGH / UHF / 800MHz+

              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.

==
  <COMMAND CSG>
  Get/Set Custom Search Group

==
  Controller → Radio
        ①CSG[¥r]
        ②CSG,##########[¥r]   : Status of Each Search Range

  Radio → Controller
        ①CSG,##########[¥r]
        ②CSG,OK[¥r]

                    : ########## (each # is 0 or 1)
                      0 : valid
                      1 : invalid
                      The Order of Range is as same as LCD Icon.

              Get/Set current status of the custom search range.
              This command is only acceptable in Programming Mode.

< SC230 Operation Specification >

==
〈COMMAND CSP〉
Get/Set Custom Search Settings
==
Controller → Radio
  ①CSP, [SRCH_INDEX][¥r]
  ②CSP, [SRCH_INDEX], [NAME], [LIMIT_L], [LIMIT_H], [STP], [MOD], [ATT], [DLY], [SKP][¥r]

Radio → Controller
  ①CSP, [NAME], [LIMIT_L], [LIMIT_H], [STP], [MOD], [ATT], [DLY], [SKP][¥r]
  ②CSP, OK[¥r]

  [SRCH_INDEX] : Index (1-9, 0 means 10)
  [NAME]   : Name (max.16char)
  [LIMIT_L]   : Lower Limit Frequency (25.0000-1300.0000)
  [LIMIT_H]   : Upper Limit Frequency (25.0000-1300.0000)
  [STP]   : Search Step
         (0, 500, 625, 750, ... , 5000, 10000, 20000)
         0   : AUTO
         500 : 5k
         625 : 6.25k
         750 : 7.5k
         1000 : 10k
         1250 : 12.5k
         1500 : 15k
         2500 : 25k
         5000 : 50k
         10000 : 100k
  [MOD]   : Modulation (AUTO/FM/NFM/AM)
  [ATT]   : Attenuation (0:OFF / 1:ON)
  [DLY]   : Delay Time (0-5)
  [SKP]   : Data Skip (0:OFF / 1:ON)

      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.

< SC230 Operation Specification >

==
　〈COMMAND WPR〉
　Get/Set Weather Priority Settings
==
　Controller → Radio
　　　　①WPR[¥r]
　　　　②WPR,#[¥r]

　Radio → Controller
　　　　①WPR,#[¥r]
　　　　②WPR,OK[¥r]

　　　　　　　　　　　　　　# means Weather Priority Setting
　　　　　　　　　　　　　　　　　(0:OFF / 1:ON)

　　　　　　　　　　　　　　Get/Set Weather Priority Settings.
　　　　　　　　　　　　　　This command is only acceptable in Programming Mode.

==
　〈COMMAND SGP〉
　Get/Set SAME Group Settings
==
　Controller → Radio
　　　　①SGP,[SAME_INDEX][¥r]
　　　　②SGP,[SAME_INDEX],[NAME],[FIPS1],[FIPS2],[FIPS3],[FIPS4],[FIPS5],[FIPS6],
　　　　　　　　[FIPS7],[FIPS8][¥r]

　Radio → Controller
　　　　①SGP,[NAME],[FIPS1],[FIPS2],[FIPS3],[FIPS4],[FIPS5],[FIPS6],[FIPS7],[FIPS8][¥r]
　　　　②SGP,OK[¥r]

　　　　[SAME_INDEX]　　　: SAME Index (1-5)
　　　　[NAME]　　　　　　: SAME Group Name (max.16char)
　　　　[FIPS1-8]　　　　: FIPS Code (6digit:000000-999999, or -------- means none)

　　　　　　　　Get/Set SAME Group 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.

< SC230 Operation Specification >

==
```
 <COMMAND WIN>
 *Get Window Voltage
```
==
```
 Controller → Radio
        ①WIN[¥r]


 Radio → Controller
        ①WIN,###,[FRQ][¥r]                : A/D Value (0-255)


        Returns current window voltage and its frequency.
        The order of the frequency digits is from 1 GHz digit to 100 Hz digit.
        This command is for test mode.
```

==
```
 <COMMAND BAV>
 *Get Battery Voltage
```
==
```
 Controller → Radio
        ①BAV[¥r]


 Radio → Controller
        ①BAV,###[¥r]               : A/D Value (0-255)


        Battery Level[V] = (3.3[V] * ### )/255


        Returns current battery voltage.
        This command is for test mode.
```

< SC230 Operation Specification >

CTCSS/DCS CODE LIST

NONE / SEARCH

MODE	CODE	MODE	CODE
NONE	0	**SEARCH**	127

CTCSS

MODE	CODE	MODE	CODE	MODE	CODE
CTCSS 67.0Hz	64	CTCSS 118.8Hz	81	CTCSS 183.5Hz	98
CTCSS 69.3Hz	65	CTCSS 123.0Hz	82	CTCSS 186.2Hz	99
CTCSS 71.9Hz	66	CTCSS 127.3Hz	83	CTCSS 189.9Hz	100
CTCSS 74.4Hz	67	CTCSS 131.8Hz	84	CTCSS 192.8Hz	101
CTCSS 77.0Hz	68	CTCSS 136.5Hz	85	CTCSS 196.6Hz	102
CTCSS 79.7Hz	69	CTCSS 141.3Hz	86	CTCSS 199.5Hz	103
CTCSS 82.5Hz	70	CTCSS 146.2Hz	87	CTCSS 203.5Hz	104
CTCSS 85.4Hz	71	CTCSS 151.4Hz	88	CTCSS 206.5Hz	105
CTCSS 88.5Hz	72	CTCSS 156.7Hz	89	CTCSS 210.7Hz	106
CTCSS 91.5Hz	73	CTCSS 159.8Hz	90	CTCSS 218.1Hz	107
CTCSS 94.8Hz	74	CTCSS 162.2Hz	91	CTCSS 225.7Hz	108
CTCSS 97.4Hz	75	CTCSS 165.5Hz	92	CTCSS 229.1Hz	109
CTCSS 100.0Hz	76	CTCSS 167.9Hz	93	CTCSS 233.6Hz	110
CTCSS 103.5Hz	77	CTCSS 171.3Hz	94	CTCSS 241.8Hz	111
CTCSS 107.2Hz	78	CTCSS 173.8Hz	95	CTCSS 250.3Hz	112
CTCSS 110.9Hz	79	CTCSS 177.3Hz	96	CTCSS 254.1Hz	113
CTCSS 114.8Hz	80	CTCSS 179.9Hz	97		

< SC230 Operation Specification >

DCS

MODE	CODE	MODE	CODE	MODE	CODE
DCS 023	128	DCS 223	163	DCS 445	198
DCS 025	129	DCS 225	164	DCS 446	199
DCS 026	130	DCS 226	165	DCS 452	200
DCS 031	131	DCS 243	166	DCS 454	201
DCS 032	132	DCS 244	167	DCS 455	202
DCS 036	133	DCS 245	168	DCS 462	203
DCS 043	134	DCS 246	169	DCS 464	204
DCS 047	135	DCS 251	170	DCS 465	205
DCS 051	136	DCS 252	171	DCS 466	206
DCS 053	137	DCS 255	172	DCS 503	207
DCS 054	138	DCS 261	173	DCS 506	208
DCS 065	139	DCS 263	174	DCS 516	209
DCS 071	140	DCS 265	175	DCS 523	210
DCS 072	141	DCS 266	176	DCS 526	211
DCS 073	142	DCS 271	177	DCS 532	212
DCS 074	143	DCS 274	178	DCS 546	213
DCS 114	144	DCS 306	179	DCS 565	214
DCS 115	145	DCS 311	180	DCS 606	215
DCS 116	146	DCS 315	181	DCS 612	216
DCS 122	147	DCS 325	182	DCS 624	217
DCS 125	148	DCS 331	183	DCS 627	218
DCS 131	149	DCS 332	184	DCS 631	219
DCS 132	150	DCS 343	185	DCS 632	220
DCS 134	151	DCS 346	186	DCS 654	221
DCS 143	152	DCS 351	187	DCS 662	222
DCS 145	153	DCS 356	188	DCS 664	223
DCS 152	154	DCS 364	189	DCS 703	224
DCS 155	155	DCS 365	190	DCS 712	225
DCS 156	156	DCS 371	191	DCS 723	226
DCS 162	157	DCS 411	192	DCS 731	227
DCS 165	158	DCS 412	193	DCS 732	228
DCS 172	159	DCS 413	194	DCS 734	229
DCS 174	160	DCS 423	195	DCS 743	230
DCS 205	161	DCS 431	196	DCS 754	231
DCS 212	162	DCS 432	197		