



CE98

PERSONAL PROGRAMMING SYSTEM REFERENCE MANUAL

This Personal Programming System is used to program the HX750/HX760 VHF/FM Floating Marine Transceivers. With this Programming System, you can quickly and easily program the Standard Horizon HX750/HX760 operating channels from your personal computer.

INSTALLING OR REMOVAL OF PROGRAM

Minimum System Requirements

- IBM®-Compatible PC with Pentium processor.
- Windows® XP, Windows® 2000, or Windows® Vista Operating System.
- Up to 20 Megabytes of free hard disk drive space.
- Mouse or other pointing device.
- 256-color display adapter (24-bit color recommended) and monitor with 640 x480 resolution or higher.

INSTALLING THE “PROGRAMMING SOFTWARE”

1. Install the CE98 Programming Software onto your computer’s hard disk drive.
2. Click the “**Start**” button and select “**Run ...**” then browse to where the files were saved on the Hard Drive in step 1 and select “**setup.exe**” and press the [ENTER] key.
3. Follow the directions on your computer screen.

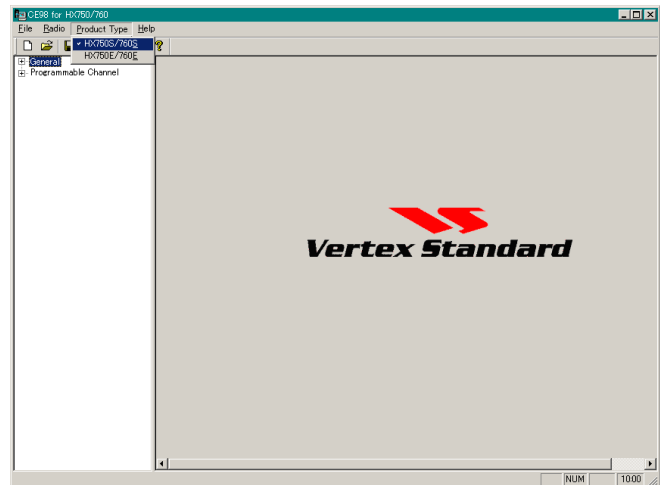
TO REMOVE THE “PROGRAMMING SOFTWARE” FROM YOUR COMPUTER

1. Click the “**Start**” button and select “**Settings**”, then “**Control Panel**”.
2. Select “**Add/Remove Programs**” from the “Control Panel” page.
3. Select “**CE98**” then click “**Add/Remove**” box.

SELECTING THE MODEL TO BE PROGRAMMED

The CE98 Personal Programming System enables programming of the Standard Horizon HX750S/HX760S (US versions) and HX750E/HX760E (EU versions) transceiver. To start, you must select the transceiver to be programmed, using the “**Edit**” menu.

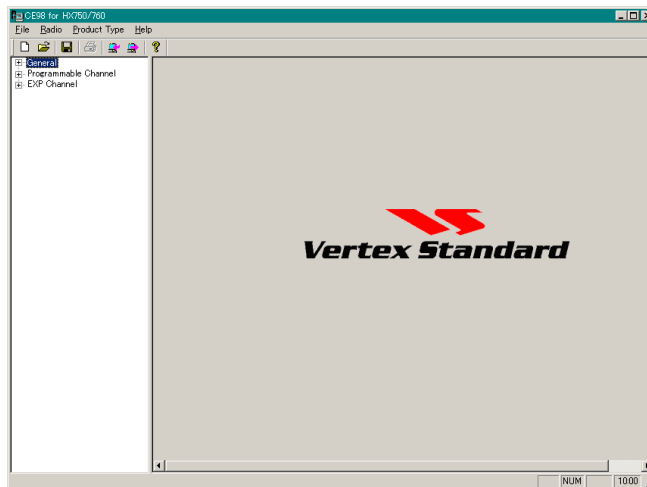
Click on the “**Product Type**” menu tab, then click the left mouse button on the model (“**HX750S/HX760S**” or “**HX750E/HX760E**”) you wish to program.



MAIN SCREEN

The CE98 Personal Programming System consists of two major sections: the “**SYSTEM TREE VIEW**” (left side) and its lower folder (right side).

The “**SYSTEM TREE VIEW**” consists of three categories: the “*General*”, “*Programmable Channel*”, and “*EXP Channel*”. However the the “*Exp Channel*” category, does not appear until the EXP Check box is selected. Refer to the next page for the location of the EXP check box.



“GENERAL” SELECTION

Double click the left mouse button on the “**General**” selection in the left window of the screen to display its lower folder (“**Available CH Group Setup**”, “**Common Setup**”, and “**ATIS Setup**”), then click the left mouse button on the desired folder to display its contents.

AVAILABLE CH (CHANNEL) GROUP SETUP

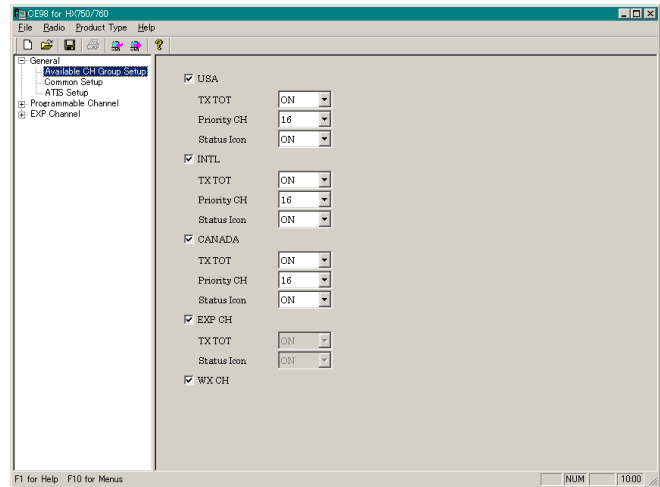
USA / INTL / CANADA / EXP CH/ WX CH:

These parameters determine which of the possible Channel Groups shall be “Used ()” or “Not Used ()” for the radio.

TX TOT:

This parameter toggles the TX Time-Out Timer feature “**ON**” or “**OFF**”.

When this parameter is set to “**ON**”, if you transmit continuously for more than five minutes, the radio will automatically return to the receive mode, and transmission will be inhibited for 10 seconds.



Priority CH (Channel):

This parameter selects the Priority Channel to be used during Priority Scan and Dual Watch operation. Available selections are channels “**09**” and “**16**”, or “**OFF**”.

Status Icon:

This parameter selects whether the Status Icon shall appear “(**ON**)” or not “(**OFF**)” on the display.

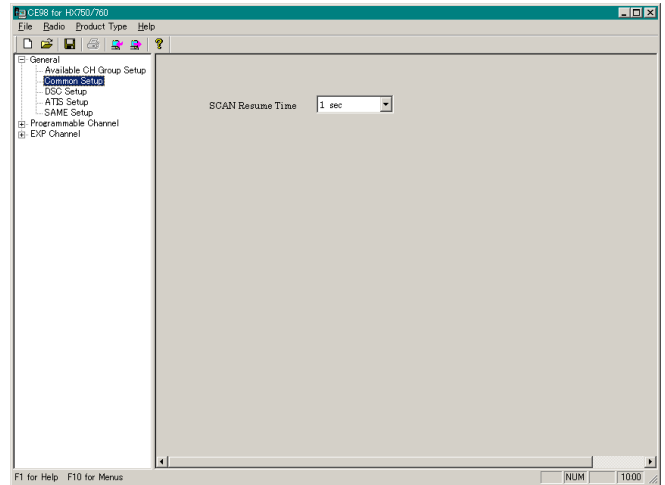
“GENERAL” SELECTION

COMMON SETUP

Scan Resume Time:

This parameter selects the Scan Resume Time. Available values are “1sec”, “2secs”, “3secs”, and “OFF”.

When this parameter is set to “1sec”, “2secs,” or “3secs,” The scanner will hold for the selected period (seconds), then resume whether or not the other station is still transmitting. When this parameter is set to “OFF,” the scanner will stop when a signal is received, and will not restart.



ATIS SETUP

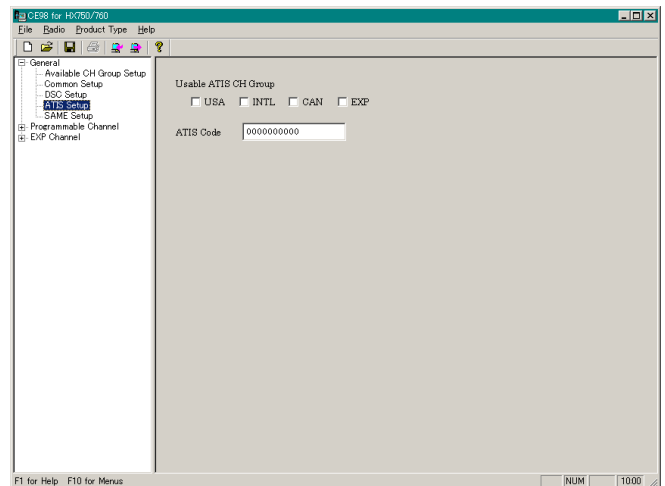
USA / INTL / CAN / EXP:

These parameters define whether the ATIS function shall be Enabled “()” or Disabled “()” for each Channel Group.

ATIS Code:

This parameter allows entry of your (authorized) ten-digit ATIS Code.

To program the User MMSI, click the left mouse button on this parameter to enable programming, then enter the ten-digits ATIS Code. Now, press the [ENTER] key to save the programmed ATIS Code.



Important Notice: Entering the ATIS Code incorrectly will cause trouble and inconvenience to other ATIS users. Be sure to enter the ATIS code accurately.

“PROGRAMMABLE CHANNEL” SELECTION

Double click the left mouse button on the “Programmable Channel” selection in the left window of the screen to display its lower folder (“USA,” “INTL,” “CANADA,” and “Weather”), then click the left mouse button on the desired folder to display the “Program Channel List Table.” The “Program Channel List Table” can not be edited.

“USA”, “INTL”, AND “CANADA” FOLDER

Channel No.:

This line indicates the operating channel number.

RX Freq. [MHz]:

This line indicates the Receive frequency of the channel.

TX Freq. [MHz]:

This line indicates the Transmit frequency of the channel.

Channel No.	RX Freq	TX Freq	Power	Duplex	Scan Memory
01A	156.050	156.050	Normal	Simplex	SKIP
05A	156.250	156.250	Normal	Simplex	SKIP
06	156.300	156.300	Normal	Simplex	SKIP
07A	156.350	156.350	Normal	Simplex	SKIP
08	156.400	156.400	Normal	Simplex	SKIP
09	156.450	156.450	Normal	Simplex	SKIP
10	156.500	156.500	Normal	Simplex	SKIP
11	156.550	156.550	Normal	Simplex	SKIP
12	156.600	156.600	Normal	Simplex	SKIP
13	156.650	156.650	PowerUp	Simplex	SKIP
14	156.700	156.700	Normal	Simplex	SKIP
15	156.750	156.750	TXINH	Simplex	SKIP
16	156.800	156.800	Normal	Simplex	SKIP
17	156.850	156.850	Low	Simplex	SKIP
18A	156.900	156.900	Normal	Simplex	SKIP
19A	156.950	156.950	Normal	Simplex	SKIP
20	161.000	157.000	Normal	Duplex	SKIP
20A	157.000	157.000	Normal	Simplex	SKIP
21A	157.050	157.050	Normal	Simplex	SKIP
22A	157.100	157.100	Normal	Simplex	SKIP
23A	157.150	157.150	Normal	Simplex	SKIP
24	161.800	157.200	Normal	Duplex	SKIP
25	161.850	157.250	Normal	Duplex	SKIP
26	161.900	157.300	Normal	Duplex	SKIP
27	161.950	157.350	Normal	Duplex	SKIP

TX Power:

This line indicates the TX Power Status.

Normal: The TX Power is set to “Normal” according to international standards.

Low: The TX Power is always set to “Low Power.”

Power Up: The TX Power is set to “Low Power.” The User may change the TX Power to “Normal” by pressing the transceiver’s [LOW] key.

TXINH: The TX Power is disabled.

Duplex On/Off:

This parameter indicates whether duplex operation (separate transmit/receive frequencies) shall be Enabled (“Duplex”) or Disabled (“Simplex”).

Scan Memory:

This parameter indicates whether the memory scanning (M-SCAN) shall be Enabled (“SCAN”) or Disabled (“SKIP”).

“PROGRAMMABLE CHANNEL” SELECTION

“WEATHER” FOLDER

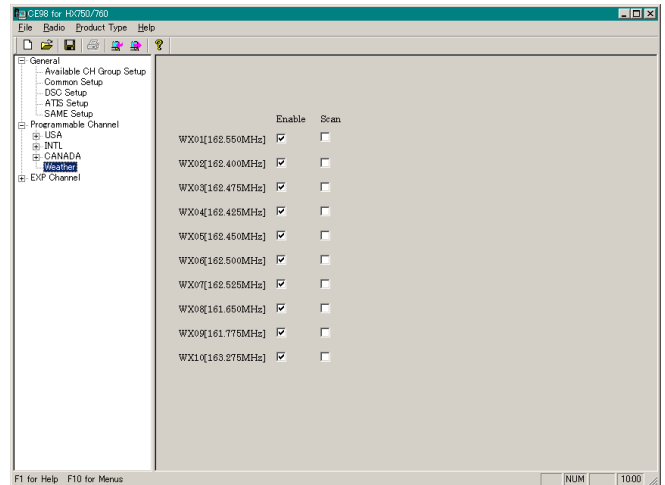
This folder does not appear on the HX750E/HX760E mode from the default setting. To show this folder on the HX750E/HX760E mode, put the check mark (“”) to the Check Box of the “WX CH” parameter on the (“Available CH Group Setup” folder. See page 3 for details.

Enable:

This parameter toggles whether the channel shall be Enabled (“”) or Disabled (“”) for operation.

Scan:

This parameter determines whether scanning of this channel shall be Enabled (“”) or Disabled (“”).



“EXP CHANNEL” SELECTION

Click the left mouse button on the “**EXP Channel**” selection in the left window of the screen to display the “**Program Channel List Table.**” The “**Program Channel List Table**” can not be edited.

Channel No.:

This parameter indicates the operating channel number.

RX Freq. [MHz]:

This parameter indicates the Receive frequency of the channel.

TX Freq. [MHz]:

This parameter indicates the Transmit frequency of the channel.

TX Power:

This parameter indicates the TX Power Status.

Normal: The TX Power is set to “Normal” according to international standards.

Low: The TX Power is always set to “Low Power.”

Power Up: The TX Power is set to “Low Power.” The User may change the TX Power to “Normal” by pressing the transceiver’s [H/L] key.

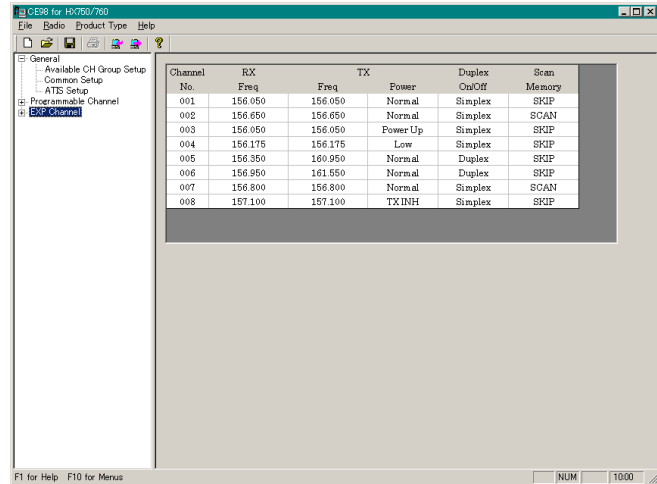
TXINH: The TX Power is disabled.

Duplex On/Off:

This parameter indicates whether duplex operation (separate transmit/receive frequencies) shall be Enabled (“**Duplex**”) or Disabled (“**Simplex**”).

Scan Memory:

This parameter indicates whether the memory scanning (M-SCAN) shall be Enabled (“**SCAN**”) or Disabled (“**SKIP**”).



The screenshot shows a software window titled 'CE98 for H0750/760'. On the left, a tree view shows 'EXP Channel' selected. The main area displays a table with the following data:

Channel No.	RX Freq	TX Freq	Power	Duplex	Scan Memory
001	156.050	156.050	Normal	Simplex	SKIP
002	156.650	156.650	Normal	Simplex	SCAN
003	156.050	156.050	Power Up	Simplex	SKIP
004	156.175	156.175	Low	Simplex	SKIP
005	156.350	160.950	Normal	Duplex	SKIP
006	156.950	161.550	Normal	Duplex	SKIP
007	156.800	156.800	Normal	Simplex	SCAN
008	157.100	157.100	TXINH	Simplex	SKIP

PROGRAMMING CHANNEL WINDOW

This section displays the channel list, and allows selection of the channel on which you wish to make changes to the channel data.

Double click the left mouse button on the each item (“USA”, “INTL”, “CANADA”, and “EXP Channel”) to display its lower folder.

On the lower folder in the left column, click the left mouse button on any channel to open its programming window, so you can program or modify the channel data on that channel.

“USA”, “INTL”, AND “CANADA” WINDOWS

CH Enable:

This parameter toggles whether this channel shall be Enabled (“”) or Disabled (“”) for operation.

CH Display:

This parameter indicates the operating channel number.

This parameter can not be edited.

TX Frequency (MHz):

This parameter allows entry of the channel’s transmit frequency.

This parameter can not be edited.

RX Frequency (MHz):

This parameter allows entry of the channel’s receive frequency.

This parameter can not be edited.

TX Power:

This parameter defines the TX Power Status. The available selections are “Normal,” “Low,” “Power Up,” and “TXINH.”

Normal: The TX Power is set to “Normal” according to international standards.

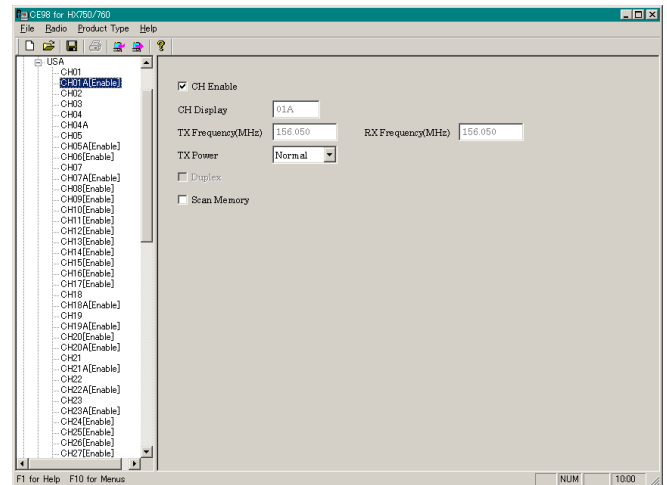
Low: The TX Power is always set to “Low Power.”

Power Up: The TX Power is set to “Low Power.” The User may change the TX Power to “Normal” by pressing the transceiver’s [H/L] key.

TXINH: The TX Power is disabled.

Duplex:

This parameter toggles whether duplex operation (separate transmit/receive frequencies) shall be Enabled (“”) or Disabled (“”).



PROGRAMMING CHANNEL WINDOW

Scan Memory:

This parameter toggles whether memory scanning (M-SCAN) shall be Enabled () or Disabled ()

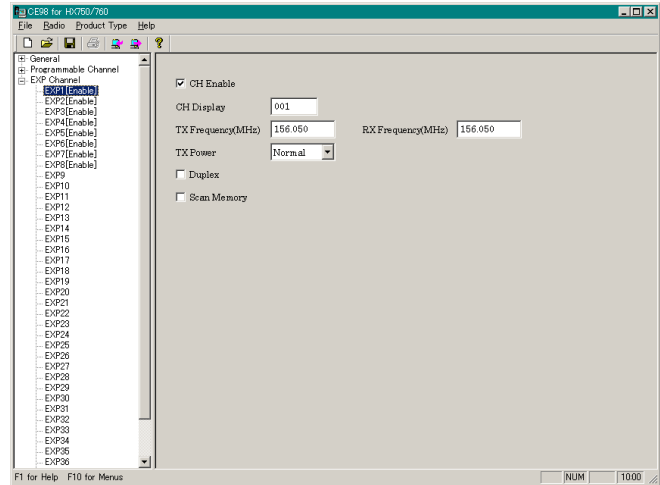
“EXP CHANNEL” WINDOW

CH Enable:

This parameter toggles whether this channel shall be Enabled () or Disabled () for operation.

CH Display:

This parameter allows entry of the operating channel number for the LCD display. The LCD display will accept three characters. Acceptable characters are 0 - 9 and A.



TX Frequency (MHz):

This parameter allows entry of the channel’s transmit frequency. Available frequency range is 155.000 MHz to 163.575 MHz (25 kHz increments).

RX Frequency (MHz):

This parameter allows entry of the channel’s receive frequency. Available frequency range is 155.000 MHz to 163.575 MHz (25 kHz increments).

TX Power:

This parameter defines the TX Power Status. The available selections are “Normal,” “Low,” “Power Up,” and “TXINH.”

Normal: The TX Power is set to “Normal” according to international standards.

Low: The TX Power is always set to “Low Power.”

Power Up: The TX Power is set to “Low Power.” The User may change the TX Power to “Normal” by pressing the transceiver’s [H/L] key.

TXINH: The TX Power is disabled.

Duplex:

This parameter toggles whether duplex operation (separate transmit/receive frequencies) shall be Enabled () or Disabled ()

Scan Memory:


This parameter toggles whether memory scanning (M-SCAN) shall be Enabled () or Disabled ()

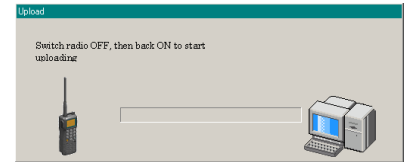
RADIO MENU

This menu performs the Downloading or Uploading information from/to a radio. To Download/Upload data to/from radio, make the proper connections between the computer before selecting the “**RADIO**” menu.

“**UPLOAD**” ITEM


This item uploads the programming data from the radio to the computer.

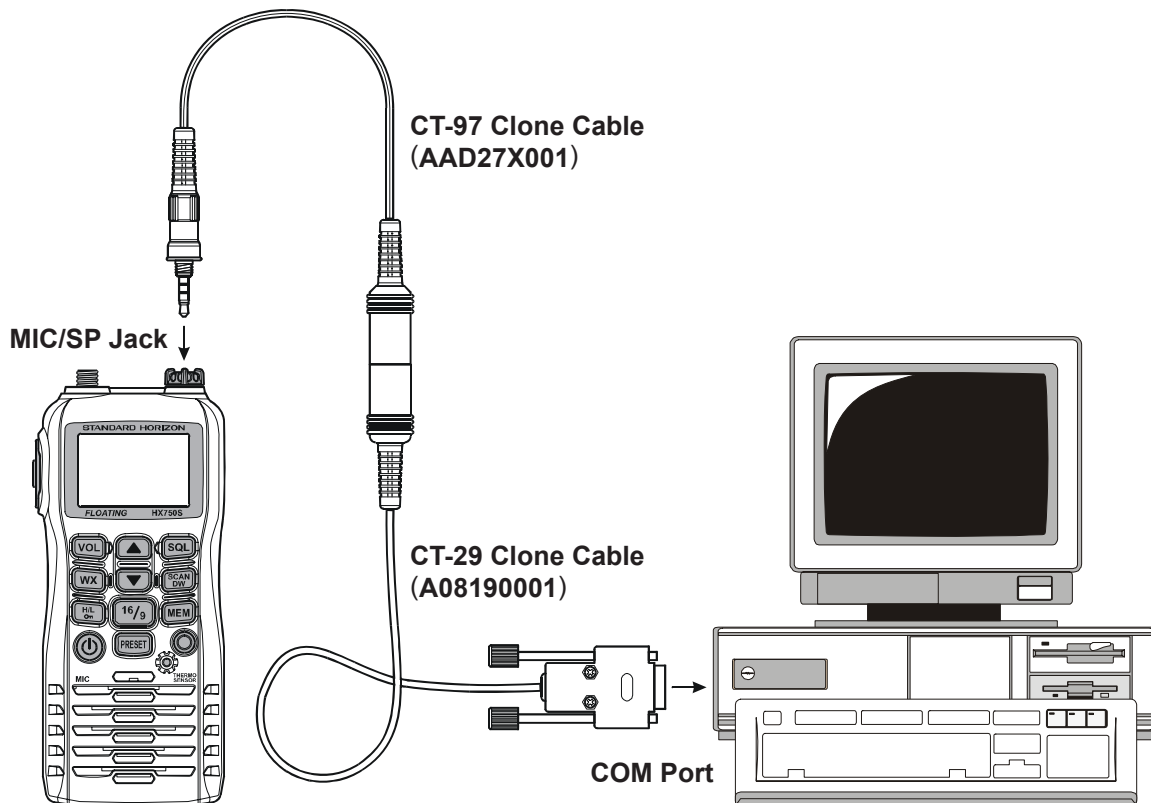
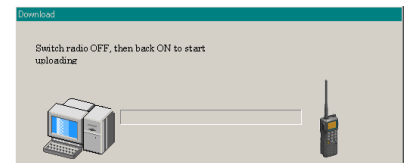
To do this: click the left mouse button on the “**Upload**” item (or the “” icon) to open the pop-up window, then turn the radio “on” to upload the programming data from the radio to the computer.



“**DOWNLOAD**” ITEM

This item downloads the programming data from the computer to the radio.

To do this: click the left mouse button on the “**Download**” item (or the “” icon) to open the pop-up window, then turn the radio “on” to download the programming data to the radio.



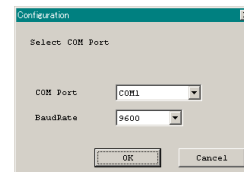
PROGRAMMING SETUP

CONFIGURE MENU

This item allows you to set up the communication port which is connected to the PC Programming cable which is connected to the radio.

“COM PORT” ITEM

This item selects the communication port to the PC Programming cable which is connected to the radio. Click the left mouse button on the communication port which is connected to the PC Programming cable.



“BAUD RATE” ITEM

This item selects the transceiver’s computer-interface circuitry for the Baud Rate to be used. Available selections are “**4800 bps**”, “**9600 bps**”, “**19200 bps**”, and “**38400 bps**”.

CHANNEL LIST (USA)

CH	TX (MHz)	RX (MHz)	S/D	LO PWR	CHANNEL USE
01 A	156.050	156.050	S	—	VTS
05 A	156.250	156.250	S	—	VTS
06	156.300	156.300	S	—	SAFETY
07 A	156.350	156.350	S	—	COMMERCIAL
08	156.400	156.400	S	—	COMMERCIAL
09	156.450	156.450	S	—	CALLING
10	156.500	156.500	S	—	COMMERCIAL
11	156.550	156.550	S	—	VTS
12	156.600	156.600	S	—	VTS
13	156.650	156.650	S	LO	BRG/BRG
14	156.700	156.700	S	—	VTS
15	—	156.750	S	—	COMMERCIAL
16	156.800	156.800	S	—	DISTRESS
17	156.850	156.850	S	LO	SAR
18 A	156.900	156.900	S	—	COMMERCIAL
19 A	156.950	156.950	S	—	COMMERCIAL
20	157.000	161.600	D	—	PORT OPR
20 A	157.000	157.000	S	—	PORT OPR
21 A	157.050	157.050	S	—	CCG
22 A	157.100	157.100	S	—	USCG
23 A	157.150	157.150	S	—	USCG
24	157.200	161.800	D	—	TELEPHONE
25	157.250	161.850	D	—	TELEPHONE
26	157.300	161.900	D	—	TELEPHONE
27	157.350	161.950	D	—	TELEPHONE
28	157.400	162.000	D	—	TELEPHONE
63 A	156.175	156.175	S	—	VTS
65 A	156.275	156.275	S	—	PORT OPR
66 A	156.325	156.325	S	—	PORT OPR
67	156.375	156.375	S	LO	BRG/BRG
68	156.425	156.425	S	—	SHIP-SHIP
69	156.475	156.475	S	—	PLEASURE
70	—	156.525	S	—	DSC
71	156.575	156.575	S	—	PLEASURE
72	156.625	156.625	S	—	SHIP-SHIP
73	156.675	156.675	S	—	PORT OPR
74	156.725	156.725	S	—	PORT OPR
75	156.775	156.775	S	LO	PORT OPR
76	156.825	156.825	S	LO	PORT OPR
77	156.875	156.875	S	LO	PORT OPR
78 A	156.925	156.925	S	—	SHIP-SHIP
79 A	156.975	156.975	S	—	SHIP-SHIP
80 A	157.025	157.025	S	—	SHIP-SHIP
81 A	157.075	157.075	S	—	CCG
82 A	157.125	157.125	S	—	CCG
83 A	157.175	157.175	S	—	USCG
84	157.225	161.825	D	—	TELEPHONE
85	157.275	161.875	D	—	TELEPHONE
86	157.325	161.925	D	—	TELEPHONE
87A	157.375	157.375	S	—	COMMERCIAL
88 A	157.425	157.425	S	—	COMMERCIAL

CHANNEL LIST (INTL)

CH	TX (MHz)	RX (MHz)	S/D	LO PWR	CHANNEL USE
01	156.050	160.650	D	—	TELEPHONE
02	156.100	160.700	D	—	TELEPHONE
03	156.150	160.750	D	—	TELEPHONE
04	156.200	160.800	D	—	INTL
05	156.250	160.850	D	—	INTL
06	156.300	156.300	S	—	SAFETY
07	156.350	160.950	D	—	INTL
08	156.400	156.400	S	—	COMMERCIAL
09	156.450	156.450	S	—	CALLING
10	156.500	156.500	S	—	COMMERCIAL
11	156.550	156.550	S	—	VTS
12	156.600	156.600	S	—	VTS
13	156.650	156.650	S	—	BRG/BRG
14	156.700	156.700	S	—	VTS
15	156.750	156.750	S	LO	COMMERCIAL
16	156.800	156.800	S	—	DISTRESS
17	156.850	156.850	S	LO	SAR
18	156.900	161.500	D	—	INTL
19	156.950	161.550	D	—	INTL
20	157.000	161.600	D	—	PORT OPR
21	157.050	161.650	D	—	INTL
22	157.100	161.700	D	—	INTL
23	157.150	161.750	D	—	INTL
24	157.200	161.800	D	—	TELEPHONE
25	157.250	161.850	D	—	TELEPHONE
26	157.300	161.900	D	—	TELEPHONE
27	157.350	161.950	D	—	TELEPHONE
28	157.400	162.000	D	—	TELEPHONE
60	156.025	160.625	D	—	TELEPHONE
61	156.075	160.675	D	—	INTL
62	156.125	160.725	D	—	INTL
63	156.175	160.775	D	—	INTL
64	156.225	160.825	D	—	TELEPHONE
65	156.275	160.875	D	—	INTL
66	156.325	160.925	D	—	INTL
67	156.375	156.375	S	—	BRG/BRG
68	156.425	156.425	S	—	SHIP-SHIP
69	156.475	156.475	S	—	PLEASURE
70	—	156.525	S	—	DSC
71	156.575	156.575	S	—	PLEASURE
72	156.625	156.625	S	—	SHIP-SHIP
73	156.675	156.675	S	—	PORT OPR
74	156.725	156.725	S	—	PORT OPR
75	156.775	156.775	S	LO	PORT OPR
76	156.825	156.825	S	LO	PORT OPR
77	156.875	156.875	S	—	PORT OPR
78	156.925	161.525	D	—	INTL
79	156.975	161.575	D	—	INTL
80	157.025	161.625	D	—	INTL
81	157.075	161.675	D	—	INTL
82	157.125	161.725	D	—	INTL
83	157.175	161.775	D	—	INTL
84	157.225	161.825	D	—	TELEPHONE
85	157.275	161.875	D	—	TELEPHONE
86	157.325	161.925	D	—	TELEPHONE
87	157.375	157.375	S	—	PORT OPR
88	157.425	157.425	S	—	PORT OPR

CHANNEL LIST (CANADA)

CH	TX (MHz)	RX (MHz)	S/D	LO PWR	CHANNEL USE
01	156.050	160.650	D	—	TELEPHONE
02	156.100	160.700	D	—	TELEPHONE
03	156.150	160.750	D	—	TELEPHONE
04 A	156.200	156.200	S	—	CCG
05 A	156.250	156.250	S	—	VTS
06	156.300	156.300	S	—	SAFETY
07 A	156.350	156.350	S	—	COMMERCIAL
08	156.400	156.400	S	—	COMMERCIAL
09	156.450	156.450	S	—	CALLING
10	156.500	156.500	S	—	COMMERCIAL
11	156.550	156.550	S	—	VTS
12	156.600	156.600	S	—	VTS
13	156.650	156.650	S	LO	BRG/BRG
14	156.700	156.700	S	—	VTS
15	156.750	156.750	S	LO	COMMERCIAL
16	156.800	156.800	S	—	DISTRESS
17	156.850	156.850	S	LO	SAR
18 A	156.900	156.900	S	—	COMMERCIAL
19 A	156.950	156.950	S	—	COMMERCIAL
20	157.000	161.600	D	LO	PORT OPR
21 A	157.050	157.050	S	—	CCG
22 A	157.100	157.100	S	—	USCG
23	157.150	161.750	D	—	INTL
24	157.200	161.800	D	—	TELEPHONE
25	157.250	161.850	D	—	TELEPHONE
26	157.300	161.900	D	—	TELEPHONE
27	157.350	161.950	D	—	TELEPHONE
28	157.400	162.000	D	—	TELEPHONE
60	156.025	160.625	D	—	TELEPHONE
61 A	156.075	156.075	S	—	CCG
62 A	156.125	156.125	S	—	CCG
63A	156.175	156.175	S	—	SHIP-SHIP
64	156.225	160.825	D	—	TELEPHONE
64 A	156.225	156.225	S	—	COMMERCIAL
65 A	156.275	156.275	S	—	PORT OPR
66 A	156.325	156.325	S	LO	PORT OPR
67	156.375	156.375	S	—	BRG/BRG
68	156.425	156.425	S	—	SHIP-SHIP
69	156.475	156.475	S	—	PLEASURE
70	—	156.525	S	—	DSC
71	156.575	156.575	S	—	PLEASURE
72	156.625	156.625	S	—	SHIP-SHIP
73	156.675	156.675	S	—	PORT OPR
74	156.725	156.725	S	—	PORT OPR
75	156.775	156.775	S	LO	PORT OPR
76	156.825	156.825	S	LO	PORT OPR
77	156.875	156.875	S	LO	PORT OPR
78 A	156.925	156.925	S	—	SHIP-SHIP
79 A	156.975	156.975	S	—	SHIP-SHIP
80 A	157.025	157.025	S	—	SHIP-SHIP
81 A	157.075	157.075	S	—	CCG
82 A	157.125	157.125	S	—	CCG
83	157.175	161.775	D	—	CCG
83 A	157.175	157.175	S	—	CCG
84	157.225	161.825	D	—	TELEPHONE
85	157.275	161.875	D	—	TELEPHONE
86	157.325	161.925	D	—	TELEPHONE
87	157.375	157.375	S	—	PORT OPR
88	157.425	157.425	S	—	PORT OPR

CHANNEL LIST (WEATHER CHANNEL)

CH	FREQUENCY	ENABLE/ DISABLE	SCAN	CH	FREQUENCY	ENABLE/ DISABLE	SCAN
WX01	162.550 MHz	Enable	Disable	WX06	162.450 MHz	Enable	Disable
WX02	162.400 MHz	Enable	Disable	WX07	162.525 MHz	Enable	Disable
WX03	162.475 MHz	Enable	Disable	WX08	161.650 MHz	Enable	Disable
WX04	162.425 MHz	Enable	Disable	WX09	161.775 MHz	Enable	Disable
WX05	162.450 MHz	Enable	Disable	WX10	163.275 MHz	Enable	Disable

NOTE

