STANDARD HORIZON

CE68

PERSONAL PROGRAMMING SYSTEM
REFERENCE MANUAL

This Personal Programming System is used to program the HX270 and HX370 series VHF/FM Marine Handheld Transceivers. With this Programming System, you can quickly and easily program the Standard Horizon HX270 and HX370 series operating channels from your personal computer.

INSTALLING OR REMOVAL OF PROGRAM

Minimum System Requirements

- ❒ IBM-Compatible PC with Pentium processor.
- ❒ 32 bit Operating system such as Windows 98, Windows XP, or Windows 2000.
- ❒ CD-ROM Drive
- ❒ 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 CE68 Programming Software CD into your computer's CD-ROM drive.
2. If your operating system is Windows XP, click the "**Start**" button and select "**Run …**" then type in the drive letter of your CD-ROM drive followed by "CE68.msi" (for example, "D:\CE68.msi"), and press the [ENTER] key.
   Otherwise, click the "**Start**" button and select "**Run …**" then type in the drive letter of your CD-ROM drive followed by "setup.exe" (for example, "D:\setup.exe"), and press the [ENTER] key.
3. Followed the directions on your computer screen.

TO REMOVE THE "PROGRAMMING SOFTWARE" FROM YOUR COMPUTER

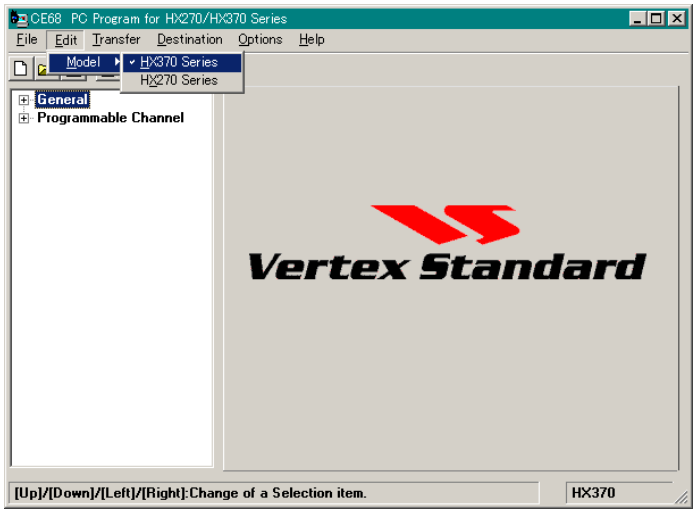
1. Click the "**Start**" button and select "**Settings**," then "**Control Panel**."
2. Select "**Add/Remove Programs**" from the "Control Panel" page.
3. Select "**CE68**" then click "**Add/Remove**" box.

SELECTING THE MODEL TO BE PROGRAMMED

The CE68 Personal Programming System enables programming of the Standard Horizon HX270 and HX370 series transceiver. To start, you must select the transceiver to be programmed, using the "**Edit**" menu.

Click on the "**Edit**" menu tab, then click on "**Model**." Now click the left mouse button on the model (HX270 series or HX370 series) you wish to program.

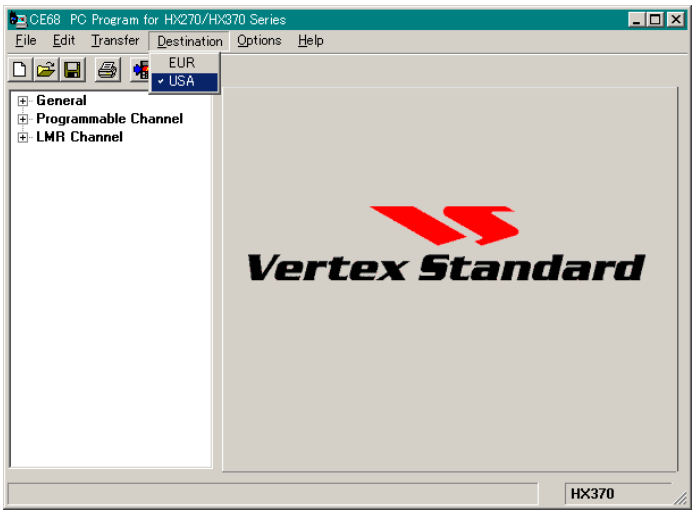
The currently-selected model name will appear in the bottom right-hand corner of the Screen.



SELECTING THE DESTINATION TO BE PROGRAMMED

When you fished the selecting the transceiver to be programmed, next, you select the country to be programmed, using the "**Destination**" menu.

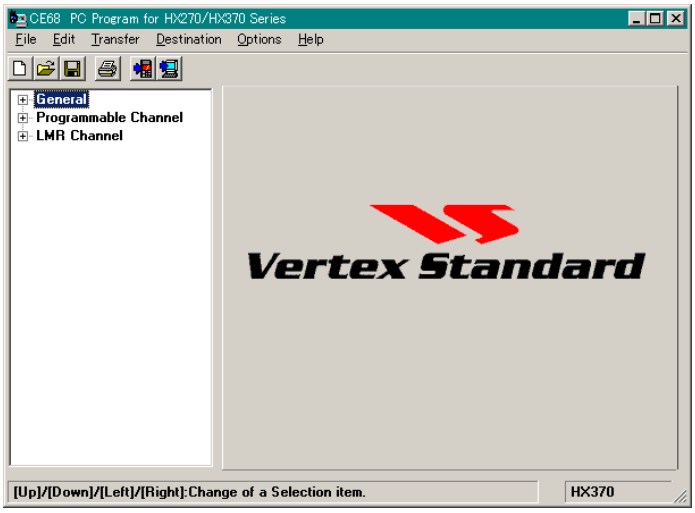
Click the left mouse button on the "**Destination**" menu tab, then click the left mouse button on the country you wish to program.



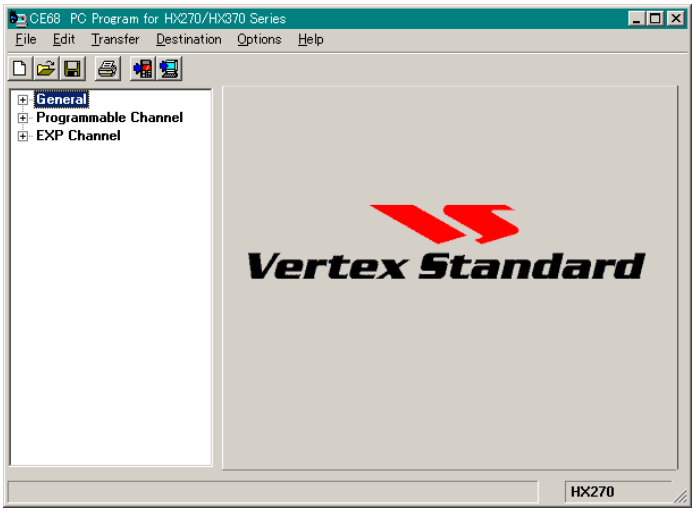
MAIN SCREEN

The CE68 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 "***LMR Channel*** (for HX370 series)" or "***Exp Channel*** (for HX270 series)." However, if you select the country other than USA, dose not appear the "***LMR Channel*** (for HX370 series)" or "***Exp Channel*** (for HX270 series)" category from the CE68 Main Screen.



HX370 series MAIN Screen



HX270 series MAIN Screen

"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 / LMR CH (for HX370 series) or **EXP CH** (for HX270 series):

These parameters determine which of the possible Channel Groups shall be "Used (☑)" or "Not Used (☐)" for the radio.

TX TOT:

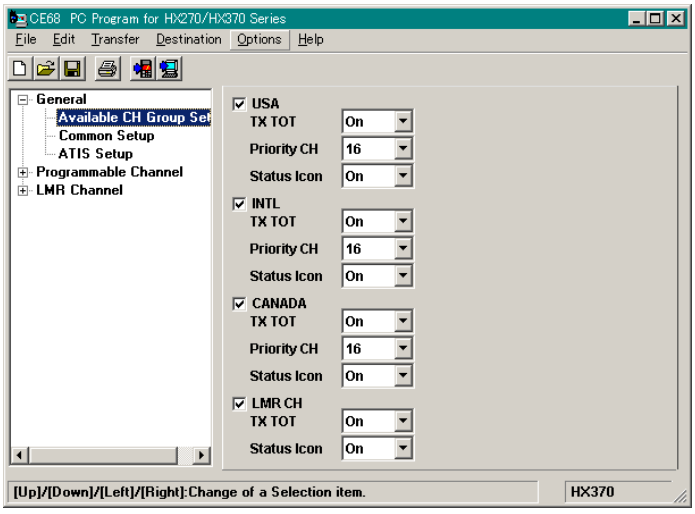
This parameter toggles the TX Time-Out Timer feature "**On**" or "**Off**."
When this parameter is set to "**On**," if you transmit continuously for more than five minutes, the radio will automatically return to the receive mode, and transmission will be inhibited for 10 seconds.

Priority CH (Channel):

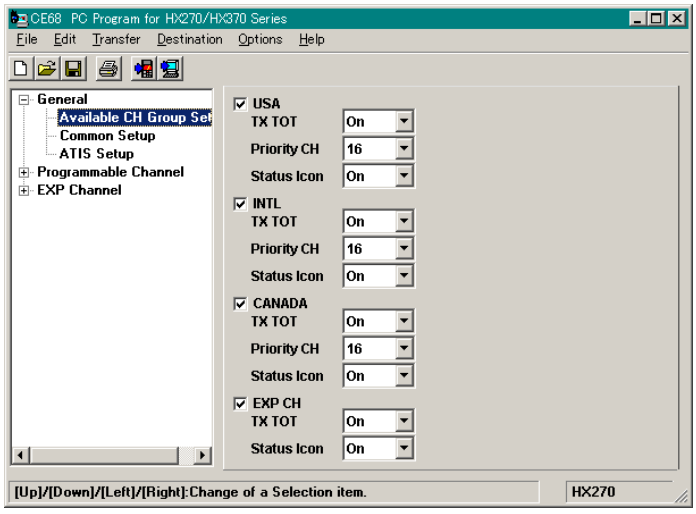
This parameter selects the Priority Channel to be used during Priority Scan and Dual Watch operation. Available selections are channels "09" and "16," or "Off."

Status Icon:

This parameter selects whether the Status Icon shall appear "(**On**)" or not "(**Off**)" on the display.



HX370 series "Available Channel Group Setup" Folder



HX270 series "Available Channel Group Setup" Folder

"GENERAL" SELECTION

COMMON SETUP

Starting TX Mode (TX Po Display):

This parameter sets the TX output power used when the radio is first turned on.

Available selections are:

Lo Po Only: Sets the TX output power to "LO," when the radio is turned on.

Lo Po on Changing CH: Sets the TX output power to "LO," when the radio is turned on or when you switch to a different channel.

Last TX Po: Sets the TX output power to the same setting used when the radio was turned off.

Scanning Function (Scan):

This parameter toggles the Scan feature "**On**" or "**Off**."

Scanning Function (Resume Time):

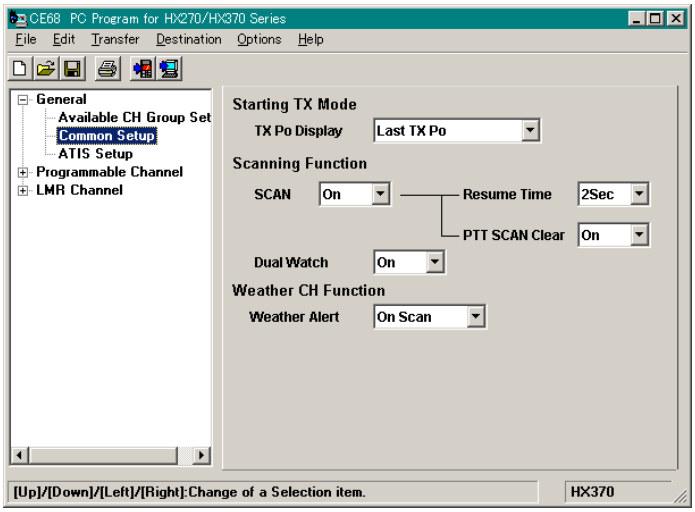
This parameter selects the Scan Resume Time. Available values are "**1Sec**," "**2sec**," "**3sec**," and "**Off**."

When this parameter is set to "**1Sec**," "**2sec**," or "**3sec**," The scanner will hold for the selected period (seconds), then resume whether or not the other station is still transmitting.

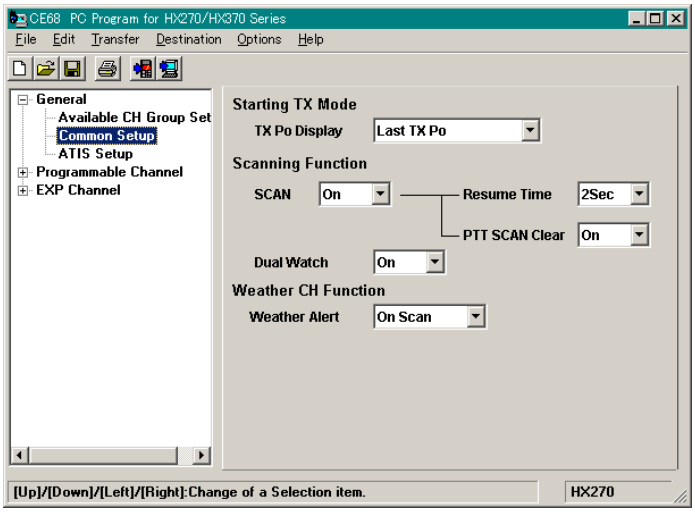
When this parameter is set to "**Off**," the scanner will stop when a signal is received, and will not restart.

Scanning Function (PTT Scan Clear):

This parameter defines whether the Scan function shall be aborted "(**On**)" or not aborted "(**Off**)" when the PTT switch is pressed while Scanning is engaged.



HX370 series "Common Setup" Folder



HX270 series "Common Setup" Folder

"GENERAL" SELECTION

Scanning Function (Scan):

This parameter toggles the Dual Watch feature "**On**" or "**Off**."

Weather CH Function (Weather Alert):

This parameter sets the Weather Alert features. Available selections are:

Off: The Weather Alert feature is not enabled.

On Wx: The Weather Alert feature is enabled while receiving on a Weather (Wx) Channel.

On Scan: The Weather Alert feature is enabled while the Scan feature is activated.

Wx and Scan: The Weather Alert feature is enabled during Weather (Wx) Channel reception, or while Scanning is engaged.

ATIS SETUP

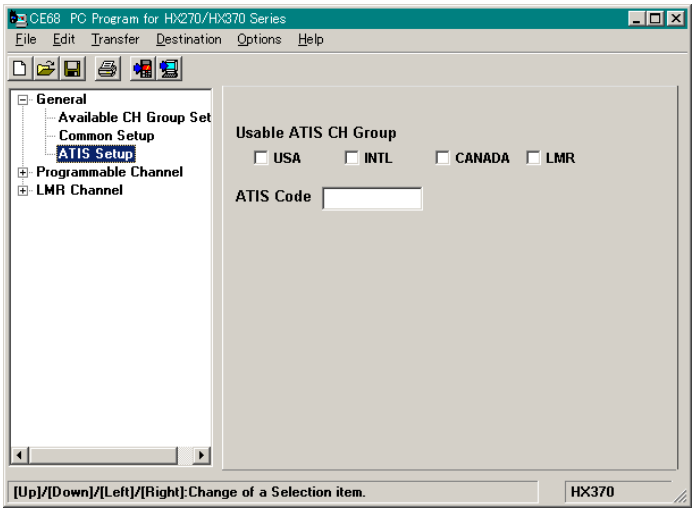
USA / INTL / Canada / LMR (for HX370 series) or **EXP** (for HX270 series):

These parameters define whether the ATIS function shall be Enabled "(☑)" or Disabled "(☐)" for each Channel Group.

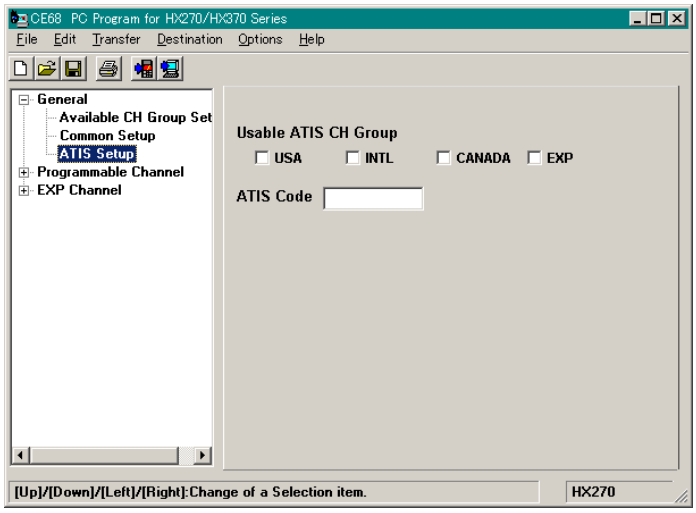
ATIS Code:

This parameter allows entry of your (authorized) nine-digit 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.



HX370 series "ATIS Setup" Folder



HX270 series "ATIS Setup" Folder

"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

CH: *Channel Number*

This parameter indicates the operating channel number.

RX [**MHz**]: *Receive frequency*

This parameter indicates the Receive frequency of the channel.

TX [**MHz**]: *Transmit frequency*

This parameter indicates the Transmit frequency of the channel.

TX: *Enable/Disable the Transmission*

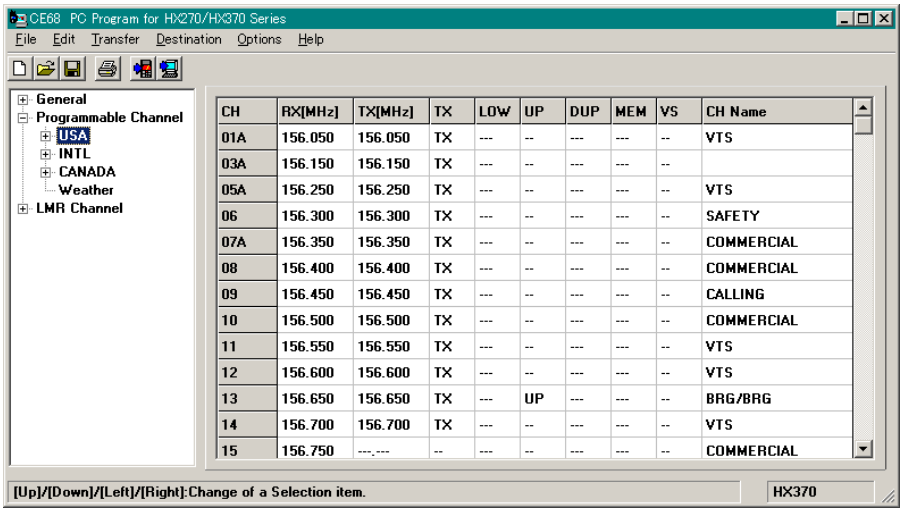
This parameter indicates whether the transmitter shall be Enabled ("**TX**") or Disabled ("**--**") on this channel.

LOW: *Transmitter Power Output*

This parameter indicates the transmitter's power output. Default values are programmed into each channel, according to international standards.

UP: *Transmit Power Selection (User Power)*

This parameter indicates whether transmit power selection capability by the user shall be Enabled ("**UP**") or Disabled ("**--**").



HX370 series "Programmable Channel" Folder

"PROGRAMMABLE CHANNEL" SELECTION

DUP: *Duplex Operation*

This parameter indicates whether duplex operation (separate transmit/receive frequencies) shall be Enabled ("**DUP**") or Disabled ("**---**").

MEM: *Memory Channel Scan*

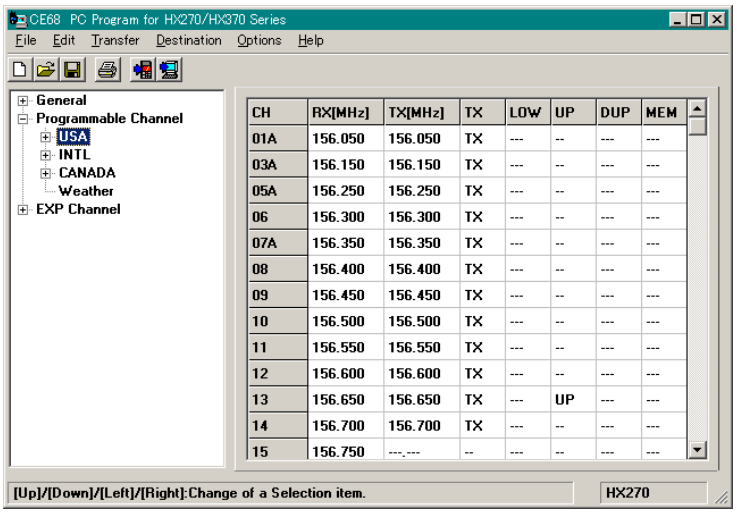
This parameter indicates whether the memory scanning (M-SCAN) shall be Enabled ("**MEM**") or Disabled ("**--**").

VS: *Voice Scrambler* (HX370 series only)

This parameter indicates the Scrambler Code of the optional Voice Scrambler Unit. The available scrambler codes are "0" - "3," and "-- (Off)."

CH Name: *Alpha/Numeric "Tag"* (HX370 series only)

This parameter indicates the Alpha/Numeric "Tag" used to identify the channel.



CH	RX[MHz]	TX[MHz]	TX	LOW	UP	DUP	MEM
01A	156.050	156.050	TX	---	--	---	---
03A	156.150	156.150	TX	---	--	---	---
05A	156.250	156.250	TX	---	--	---	---
06	156.300	156.300	TX	---	--	---	---
07A	156.350	156.350	TX	---	--	---	---
08	156.400	156.400	TX	---	--	---	---
09	156.450	156.450	TX	---	--	---	---
10	156.500	156.500	TX	---	--	---	---
11	156.550	156.550	TX	---	--	---	---
12	156.600	156.600	TX	---	--	---	---
13	156.650	156.650	TX	---	UP	---	---
14	156.700	156.700	TX	---	--	---	---
15	156.750	---.---	--	---	--	---	---

HX270 series "Programmable Channel" Folder

"PROGRAMMABLE CHANNEL" SELECTION

"WX CHANNEL" FOLDER

Enable: *Channel Operation Status*

This parameter toggles whether the channel shall be Enabled ("☑") or Disabled ("☐") for operation.

Scan: *Memory Channel Scan*

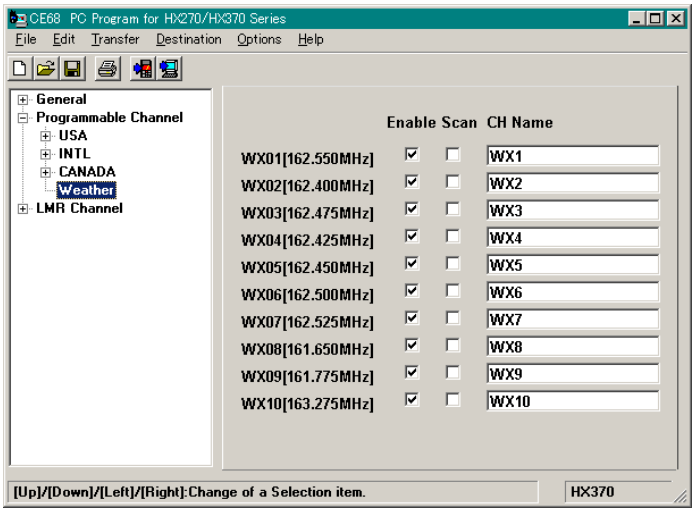
This parameter determines whether scaning of this channel shall be Enabled ("☑") or Disabled ("☐").

CH Name: *Alpha/Numeric "Tag"*

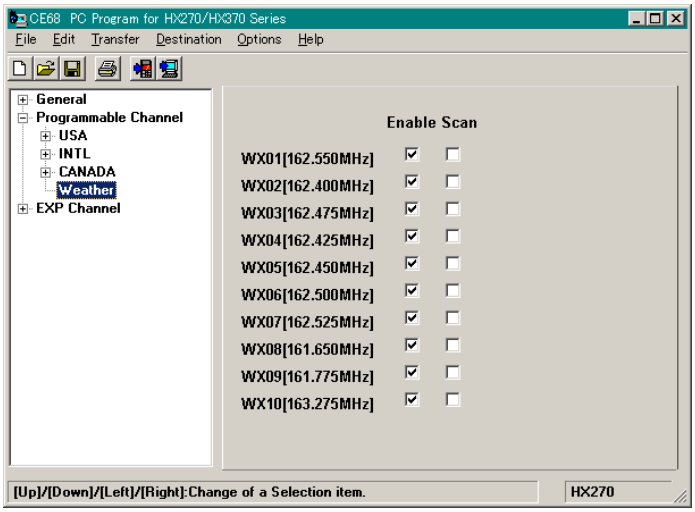
This field allows entry of the 12-character Alpha/Numeric "Tag" used identify the WX channel.

To enter the Alpha/Numeric Tag, click the left mouse button on this parameter to enable programming, then type the characters of the desired Alpha/Numeric Tag, then press the [ENTER] key to save the programmed "Tag."

The charactors to be used include "0 ~ 9," "A ~ Z," "a ~ z," and some charactors.



HX370 "Weather Channel" Folder



HX270 "Weather Channel" Folder

"PROGRAMMABLE CHANNEL" SELECTION

"LMR CHANNEL" OR "EXP CHANNEL" FOLDER

Important Notice:This folder is only appeared, when the Distination menu is set to "USA."

CH: *Channel Number*

This number is used to identify the channel. The channel numbers occur in sequence, and their order cannot be changed.

ENABLE: *Channel Operation Status*

This parameter indicates whether or not this channel can be used for operation.

DISP: *Operating Channel Number*

This parameter indicates the operating channel number.

RX [**MHz**]: *Receive frequency*

This parameter indicates the Receive frequency of the channel.
This field will show "**---.---**" when the channel has not been enabled to allow reception.

TX [**MHz**]: *Transmit frequency*

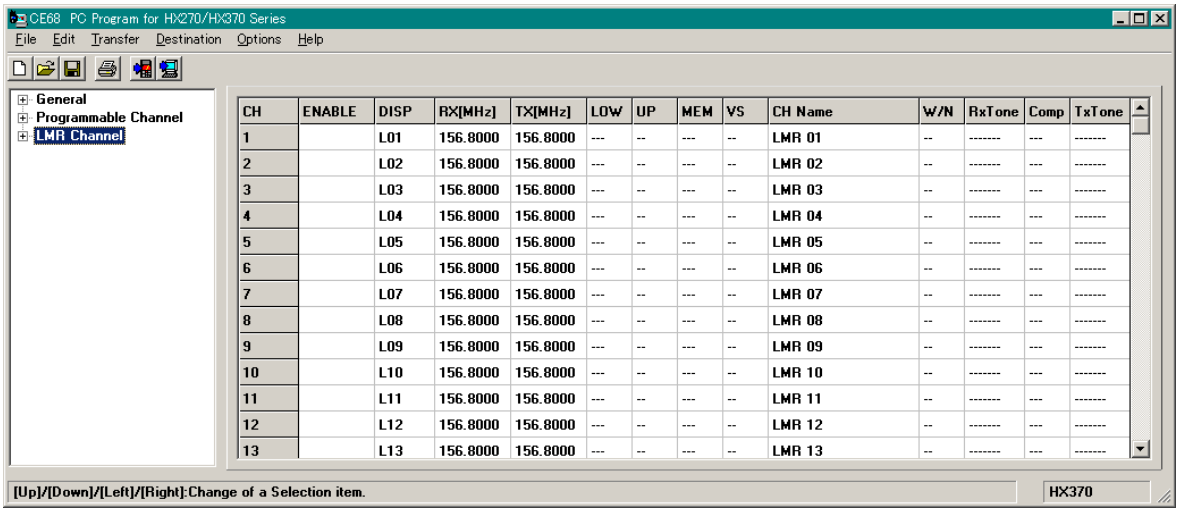
This parameter indicates the Transmit frequency of the channel.
This field will show "**---.---**" when the channel has not been enabled to allow transmission.

LOW: *Transmitter Power Output*

This parameter indicates the transmitter's power output. Default values are programmed into each channel, according to international standards.

UP: *Transmit Power Selection(**U**ser **P**ower)*

This parameter indicates whether transmit power selection capability by the user shall be Enabled ("**UP**") or Disabled ("**--**").



HX370 series "LMR Channel" Folder

"PROGRAMMABLE CHANNEL" SELECTION

MEM: *Memory Channel Scan*

This parameter indicates whether the memory scanning (M-SCAN) shall be Enabled ("**MEM**") or Disabled ("---").

VS: *Voice Scrambler* (HX370 only)

This parameter indicates the Scrambler Code of the optional Voice Scrambler Unit. The available scrambler codes are "0" - "3," and "-- (Off)."

CH Name: *Alpha/Numeric "Tag"* (HX370 series only)

This parameter indicates the Alpha/Numeric "Tag" used to identify the channel.

W/N: *Transmit Deviation Level* (HX370 series only)

These parameters indicates the channel spacing environment. The available selections are "Wide (25 kHz Channel Spacing, ±5 kHz deviation)" and "Narrow (12.5 kHz Channel Spacing, ±2.5 kHz deviation)."

RX Tone: *CTCSS/DCS Decoder* (HX370 series only)

This parameter indicates the Tone Frequency/Code of the CTCSS/DCS Decoder.

Comp: *DCS Code Complement* (HX370 series only)

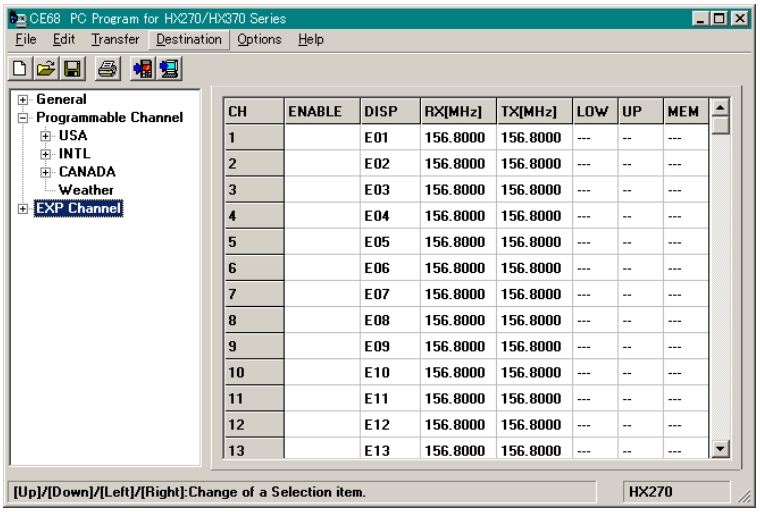
This parameter indicates whether the DCS Code Complement shall be Enabled ("**CMP**") or Disabled ("--").

When this parameter is indicate to "Enabled (**CMP**)," the radio can be decode the "Normal" and "Inverted" DCS code.

TX Tone: *CTCSS/DCS Encoder*

(HX370 series only)

This parameter indicates the Tone Frequency/Code of the CTCSS/DCS Encoder.



HX270 series "EXP Channel" Folder

PRGRAMMING CHANNEL WINDOW

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

Double click the *left* mouse button on the each items ("**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: *Enables/Disables the Channel*

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

CH Display: *Channel Number*

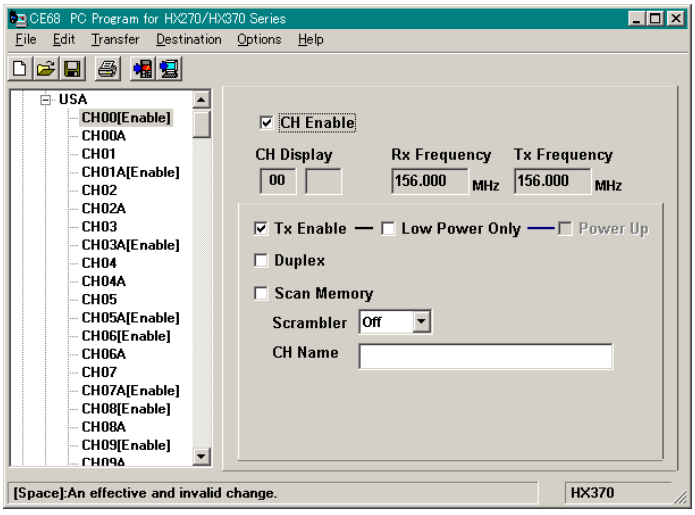
This parameter indicates the operating channel number.
This parameter can not be edited.

Rx Frequency: *Receive frequency*

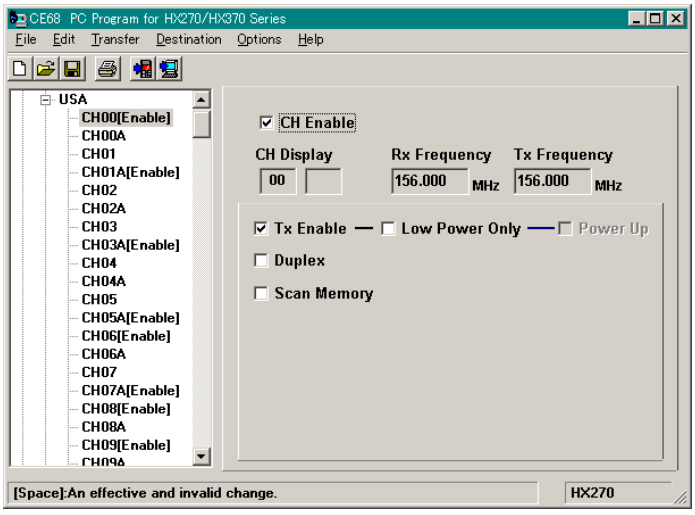
This parameter indicates the Receive frequency of the channel.
This parameter can not be edited.

Tx Frequency: *Transmit frequency*

This parameter indicates the Transmit frequency of the channel.
This parameter can not be edited.



HX370 series "Programmable Channel" Window



HX270 series "Programmable Channel" Window

PRGRAMMING CHANNEL WINDOW

Tx Enable: *Enables/Disables Transmission*

This parameter defines whether the transmitter shall be Enabled ("☑") or Disabled ("☐") on this channel.

Low Power Only: *Transmitter Power Output*

This parameter toggles the transmitter's power output on this channel between HI "(☐)" or Low "(☑)." This parameter is ignored when the "**Tx Enable**" parameter is set to Disabled "(☐)."

Power Up: *Transmit Power Selection Capability*

This parameter toggles whether the transmit power selection by the user shall be Enabled ("☑") or Disabled ("☐"). This parameter is ignored when the "**Low Power Only**" parameter is set to HI ("☐").

Duplex: *Duplex Operation*

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

Scan Memory: *Memory Channel Scan*

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

Scrambler: *Voice Scrambler* (HX370 series only)

This parameter selects the Scrambler Code of the optional Voice Scrambler Unit. The available selections are "0" - "3," and "-- (Off)."

CH Name: *Alpha/Numeric "Tag"* (HX370 series only)

This field allows entry of the 12-character Alpha/Numeric "Tag" used to identify the channel.

To enter the Alpha/Numeric Tag, click the left mouse button on this parameter to enable programming, then type the characters of the desired Alpha/Numeric Tag, then press the [**ENTER**] key to save the programmed "Tag."

The charactors to be used include "0 ~ 9," "A ~ Z," "a ~ z," and some charactors.

PRGRAMMING CHANNEL WINDOW

"LMR CHANNEL" OR "EXP CHANNEL" FOLDER

Important Notice:This folder is only appeared, when the Distination menu is set to "USA."

CH Enable: *Enables/Disables the Channel*

This parameter toggles whether the channel shall be Enabled ("☑") or Disabled ("☐") for operation.

CH Display: *Channel Number*

This field allows entry of the operating channel number for the LCD display.
The left box will accept two characters, and the right box will accept one character.
Acceptable characters are 0 - 9, A, b, C, d, E, F, H, L, n, P, t, and U.

Rx Frequency: *Receive frequency*

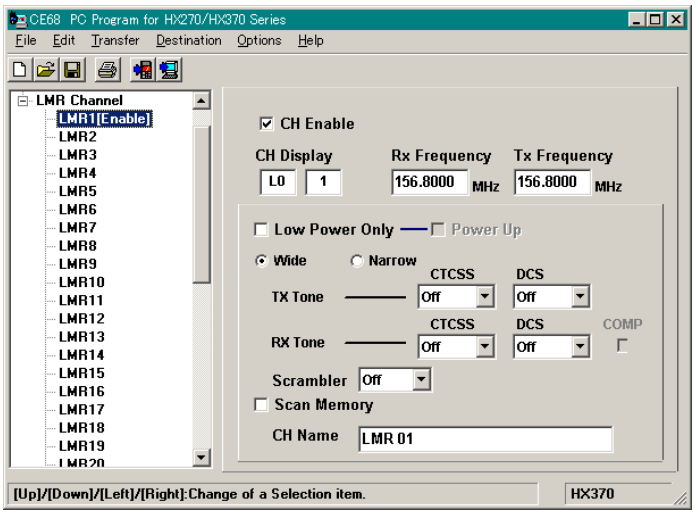
This parameter allows entry of the channel's receive frequency. This field will show "**---.---**" if reception has not been enabled on the channel.

Tx Frequency: *Transmit frequency*

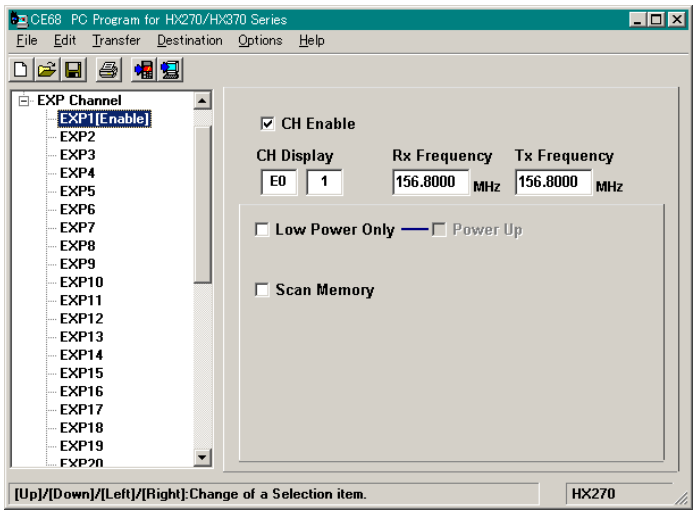
This parameter allows entry of the channel's transmit frequency. This field will show "**---.---**" if transmission has not been enabled on the channel.

Low Power Only : *Transmitter Power Output*

This parameter toggles the transmitter's power output on this channel between HI ("☐") or Low ("☑").



HX370 series "LMR Channel" Window



HX270 series "EXP Channel" Window

PRGRAMMING CHANNEL WINDOW

Power Up: *Transmit Power Capability*

This parameter toggles whether the transmit power selection by the user shall be Enabled ("☑") or Disabled ("☐"). This parameter is ignored when the "**Low Power Only**" parameter is set to Hi ("☐").

Wide/Narrow: *Transmit Deviation Level* (HX370 series only)

These parameters define the channel spacing environment between "Wide (25 kHz Channel Spacing, ±5 kHz deviation)" and "Narrow (12.5 kHz Channel Spacing, ±2.5 kHz deviation)."

TX Tone: *CTCSS/DCS Encoder* (HX370 series only)

This parameter defines the Tone Frequency/Code of the CTCSS/DCS Encoder.

RX Tone: *CTCSS/DCS Decoder* (HX370 series only)

This parameter defines the Tone Frequency/Code of the CTCSS/DCS Decoder.

Comp: *DCS Code Complement* (HX370 series only)

This parameter determines whether the DCS Code Complement shall be Enabled ("**CMP**") or Disabled ("**--**").

When this parameter is set to Enabled ("**CMP**"), the radio will be able to decode both "Normal" and "Inverted" DCS Codes.

Scrambler: *Voice Scrambler* (HX370 series only)

This parameter selects the Scrambler Code of the optional Voice Scrambler Unit. The available selections are "0" - "3," and "-- (Off)."

Scan Memory: *Memory Channel Scan*

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

CH Name*:* Alpha/Numeric "Tag" (HX370 series only)

This field allows entry of the 12-character Alpha/Numeric "Tag" used to identify the channel.

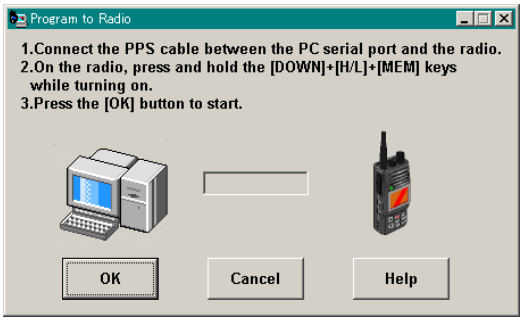
To enter the Alpha/Numeric Tag, click the left mouse button on this parameter to enable programming, then type the characters of the desired Alpha/Numeric Tag, then press the [**ENTER**] key to save the programmed "Tag."

The charactors to be used include "0 ~ 9," "A ~ Z," "a ~ z," and some charactors.

TRANSFER 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 and radio and turn on the radio before selecting the "**TRANSFER**" menu.

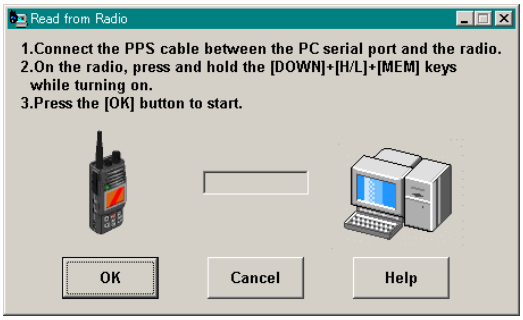
"Program to Radio" Item



The "**Program to Radio**" item downloads the programming data from the computer to the radio.

To do this: click the left mouse button on the "**Program to Radio**" item (or the "  " icon) to open the pop-up window, then click the left mouse button on the "**OK**" box to download the programming data to the radio.

"Read from Radio" Item



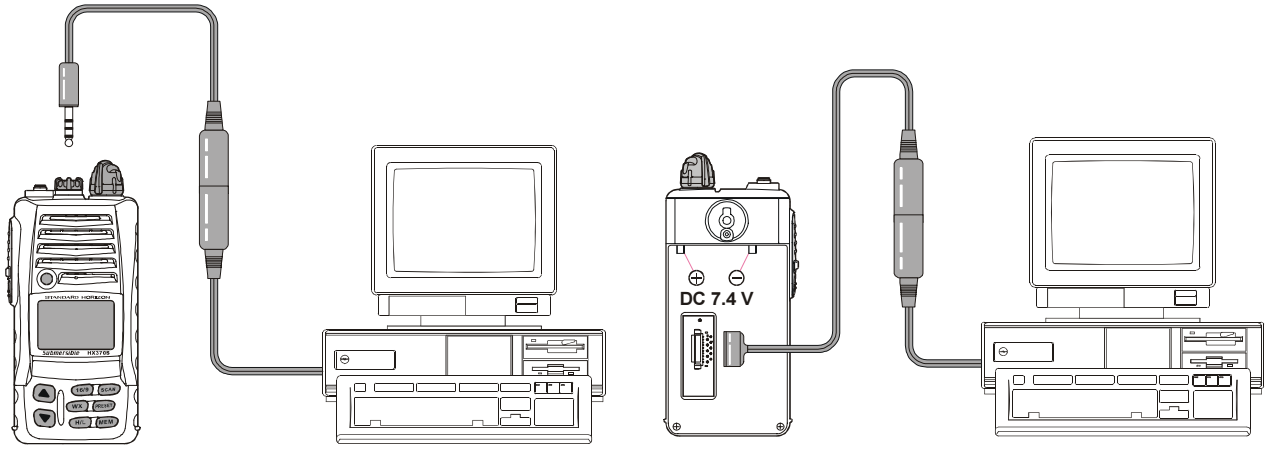
The "**Read from Radio**" item uploads the programming data from the radio to the computer.

To do this: click the left mouse button on the "**Read from Radio**" item (or the "  " icon) to open the pop-up window, then click the left mouse button on the "**OK**" box to upload the programming data from the radio to the computer.

TRANSFER MENU

Programming Setup

1. Turn the transceiver off.
2. If you program the HX370 series, connect the computer's serial port and the transceiver's **RAM MIC/SP** jack using the optional **CT-111** Clone Cable. If you program the HX270 series, connect the computer's serial port and the small connector located in battery nest of the transceiver using the optional **CT-111** Clone Cable, then apply the regulated 7.4 VDC to the battery terniminal.
3. Press and hold in the **[▼]**, **[H/L]**, and **[MEM]** keys while turning the transceiver on to enter the programming mode (then"Edt" notification will appear on the LCD).

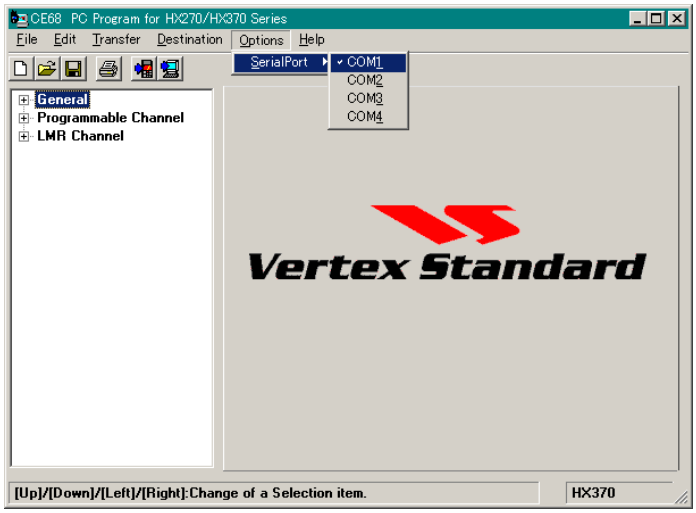


OPTION MENU

This menu allows you to set up the program according to your computer's configuration.

"Serial 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 ("**COM1**," "**COM2**," "**COM3**," or "**COM4**") which is connected to the PC Programming cable which is connected to the radio.



CHANNEL LIST (USA)

CH	TX (MHz)	RX (MHz)	S/D	LO PWR	CHANNEL NAME
01 A	156.050	156.050	S	—	VTS
02	—	—	—	—	
03 A	156.150	156.150	S	—	----
04	—	—	—	—	
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
60	—	—	—	—	
61 A	156.075	156.075	S	—	CCG
62	—	—	—	—	
63 A	156.175	156.175	S	—	VTS
64 A	156.225	156.225	S	—	COMMERCIAL
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
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
87	157.375	161.975	D	—	TELEPHONE
88	157.425	162.025	D	—	TELEPHONE
88 A	157.425	157.425	S	—	COMMERCIAL

CHANNEL LIST (INTL)

CH	TX (MHz)	RX (MHz)	S/D	LO PWR	CHANNEL NAME
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
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	161.975	D	—	TELEPHONE
88	157.425	162.025	D	—	TELEPHONE

CHANNEL LIST (CANADA)

CH	TX (MHz)	RX (MHz)	S/D	LO PWR	CHANNEL NAME
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
63	—	—	—	—	
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
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	161.975	D	-	TELEPHONE
88	157.425	162.025	D	-	TELEPHONE

CHANNEL LIST (WEATHER CHANNEL)

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

NOTE


STANDARD HORIZON