



OpenSky® M7200 Mobile Radio

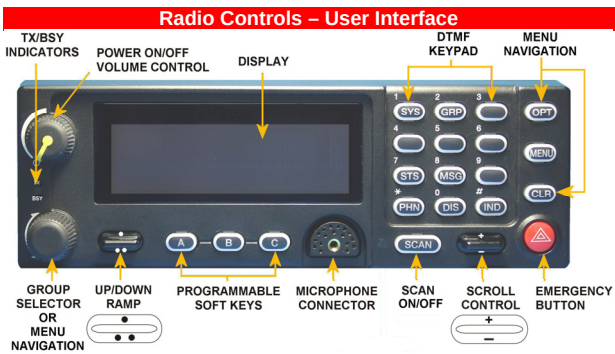


Figure 1: System Model Control Head



Figure 2: Scan Model Control Head

M7200 Display and Status Indicators

		Line 1 - Selected Talk Group Line 2 - Caller ID/Alias
	Radio successfully registered to the network.	
	Volume bars – indicates relative volume level.	
Secure Call	Alternates with the Alias during a manual or OTAR (Network) encrypted call.	

Keypad Lock/Unlock

1. Press the **MENU** button.
2. While the **MENU** button is pressed, within one second press the **OPTION** button.
3. A brief message will be displayed on the 2nd line of the display (Kypd Lck, Kypd Unlck).

M7200 Radio Controls

Note that button function may vary depending upon radio programming.

Power/ Volume Dial	Twist clockwise to power on radio and increase volume. The Voice Group is displayed on line two of the display until the Caller ID/Alias is received. Twist counter-clockwise to decrease volume and power off radio.
Microphone Connection	Connect hand-held, hands-free speaker-mic, or headset.
Emergency Button	Pre-programmed to declare an emergency.
	While in the dwell display, scrolls through available voice groups. Scrolls through selections within the active menu (available voice groups, pre-programmed speed dial numbers, canned alert messages, etc.).
	If enabled via programming , While in the dwell display, scrolls through available voice groups. Scrolls through selections within the active menu (available voice groups, pre-programmed speed dial numbers, canned alert messages, etc.). or Increases/decreases display brightness.

M7200 Radio Controls (Continued)

MENU Button	Activate current selection. Also exits Stealth Mode.
	If enabled via programming , scrolls through available menu items.
OPTION CLEAR	Scrolls through available menu items.
0 – 9	Used to place telephone interconnect and individual (unit-to-unit) calls. Functions as a telephone keypad. Also used to enter passwords for logging into the OpenSky network (if not pre-configured for automatic registration at power-up).
SCAN	Toggles the Scan Mode ON/OFF.
Pre-Set Buttons	These buttons are used to store and recall user-selectable parameters. Preset button C can be configured via programming to reboot the radio into a particular application mode.

Enable/Disable Volume Side Tone

1. Power off the radio.
2. Press and hold the **B** button while turning the radio back on.

Changing Operating Mode

1. Cycle through the menu until the "App Mode" appears in the bottom line of the display.
 2. Use to choose an available mode. Press **MENU** and confirm (Y/N) with and press **MENU** again.
 3. Press the **MENU** button to confirm.
- or
Preset button C can be programmed to reboot the radio into a particular application mode.
or
1# will transition the radio to ECP mode. If ECP mode is not loaded in the radio, the radio displays "No App".

M7200 Radio Scan Modes

Scan Mode	Explanation
No Scan	Eliminates distractions. Full communications (transmit and receive) on selected voice group. No calls received from other voice groups.
Normal (Default)	The user can scan all voice groups in the active profile that are not locked out as long as there is demand on the site. Priority (P1 and P2) groups are user selectable. Receive calls from more than one voice group, if available from the current site. Allows dragging of the selected voice group, P1, P2, and default emergency voice group. The default emergency voice group, as well as any emergency-enabled voice groups, is only dragged if it is in emergency mode.
Fixed	Functions the same as Normal Scan Mode, except the priority groups are fixed to the selected profile's pre-defined P1 and P2 groups (configured via the UAS). In this mode, P1 and P2 groups CANNOT be locked out.

Refer to the Operator's Manual (MM23016), available online at www.pspc.harris.com, for detailed operating instructions.

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M7200 Alert Tones	
Name	Description
Deny Tone	3 short tones. Release the Push-to-Talk button and re-key the PTT to make another call request.
Queued Tone	1 low tone/2 high tones - indicates the call has been placed in a queue. Release PTT at this point.
Grant/Go-Ahead Tone	1 short beep - sounds when resources become available for a call request placed in the queue. If radio roams to another site while transmitting, a second grant tone sounds to let user know they have roamed.
Removed Tone	A single long low-pitched tone, notifies the user that access to the channel has been lost.
Emergency Cleared Tone	When an emergency call has been initiated, the initiator of the call can clear the call by pressing and holding the emergency button until the emergency cleared tone (1 long low-pitched) sounds.
Priority Bump	1 short tone; stopped current incoming call in favor of higher-priority incoming call.
Volume	1 short tone that reflects current volume level.
Emergency Tone	3 long tones - sound when an emergency is declared.
Selective Call Ring Tone	Ringling tone similar to that of a telephone repeated every four seconds.

M7200 Alert Tones (Continued)	
Name	Description
Selective Alert Received	4 tones (low, high, low, low), played once to indicate a selective alert has been received.
Roam Tone	2 quick tones (high-low) sound when the radio transitions from one radio base station site to another.
PSTN Ring	The radio generates this single medium-pitch reiterative tone when there is an incoming or an outgoing telephone call.
Out of Range	If enabled via programming, a tri-tone beep sounds at a programmable interval while the radio is in a state of persistent deactivation.

M7200 DTMF Keypad Functions	
*0	Log-off command: *0## (Logs the user off the system.)
*1	Manual log-in command: *1<User ID> #<Password> ## (Required for encryption.)
*2	Status Message: *2 <0...9> #.
*4	Enter Scene of Incident (SOI) Mode: *4#<ccc>#<bb># where ccc is the SOI channel number and bb is the number assigned to each frequency band. Press *40# to exit SOI Mode.
*5	RTT Message: *5 <0...9> #.
*7	Initiate Selective Alert command: *7<Target ID>#[Choose Message]#.
*8	Radio-to-Radio Call command: Selective call number # (PTT to dial.)
*9	Public Switched Telephone Network (PSTN) Call command. (See Operator's Manual.)
*32	Begin Manual Encryption command: *32<Pre-determined Encryption Key>#.
*33	End Manual Encryption command: *33#. The radio displays "Unsecure" to indicate that manual encryption has ended.

Quick Buttons	
1#	Transition to ECP Mode.
2#	Stealth Mode On/Off.
3#	Scan Mode On/Off.
4#	RX/TX LEDs and Tones On/Off.

Change The Active Profile

- Scroll through menu until "Profile Menu" appears in the second line of the display. The name of the currently active profile appears in the top line.
- Use  to scroll through the list of available profiles.
- Press the **MENU** button to activate the selected profile.

Change The Selected Voice Group

- Scroll through the menu until "TalkGrpMenu" is displayed.
- Use  to scroll through the available list of voice groups in the active profile.

or

From the dwell display, use the Group Selector knob or  to scroll through the available list of voice groups in the active profile.

Receive a Voice Call

No action is required to receive a voice call.

A radio receiving a System All Call displays "All Call" instead of the User Alias. A radio not transmitting on a voice group in emergency status will drop all other calls to scan into an All Call.

Transmit a Voice Call

- Select the desired voice group on which to transmit.
- Depress and hold the Push-To-Talk button on the handheld microphone. If programmed by the administrator, a grant tone will sound.

Transmit a Voice Call (Continued)
3. Begin speaking into the microphone in a normal voice. For maximum clarity, hold the microphone approximately 1½ inches from the mouth.
4. Release the PTT button when finished speaking.

Adjust Side Tone Audio Level

- Use  to cycle through the menu until the "Side Menu" appears in the bottom line of the display.
- Use  to change to the desired level (Off, Low, Medium, High). To turn side tones completely off, use the "Off" setting.

Transmit a Selective Call

Manually Dialing a Selective Call

- Enter *8, the User ID number of the user being called, and the # key (no dashes or spaces). This feature must be enabled by the administrator.

*8<destination user id>#PTT

A shortened User ID number can be dialed using the following guidelines:

- If the radio being called is in the same region and agency – enter only the last four digits.
- If the radio being called is in the same region, but a different agency – enter the last seven digits.
- If the radio being called is in another region or if the area is unknown – enter all ten digits.

- Press PTT (and release) to ring the user being called.

Selective Call Using Speed Dial

- Scroll through the Menu options until "Speed Dial" appears in the second line of the display.
- Using , scroll through the pre-programmed speed-dial numbers until the desired number appears in the display and press the PTT button.

Receive a Selective Call
Press up or down using  to accept an incoming selective call or press (-) using the  button to reject an incoming selective call.

Terminate a Selective Call

Press (-) using the  button or # to terminate selective call.

Declaring an Emergency

- Press the red emergency button on the radio to enter emergency mode. Emergency is raised after the Emergency Raise Delay (default is 1 second).
- The microphone is hot (open mic) for a programmed amount of time in order to send your voice out on the emergency voice group.
- All of the radios in the emergency voice group hear your call and the display will alternate between "EMERGENCY" and whatever is selected to be displayed on the 2nd line of the dwell display.

Clearing an Emergency

Check with the system administrator to ensure that the radio is programmed to allow an emergency to be cleared.

- Press and hold the **CLR/CLEAR** button and simultaneously press the emergency button.
- Release both buttons after the emergency cleared tone sounds.

Stealth Mode

- Scroll through the menu until "StealthMenu" appears.
- To immediately turn Stealth Mode on, press up or down with .
- To turn Stealth Mode off, press the **MENU** button on the radio's front panel.

Or

On System Model control heads, the 2# command can be used to enable and disable Stealth Mode.