Quick Guide

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OpenSky® XG-75M/M7300
Mobile Radios

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FAST. FORWARD.

Radio Controls – User Interface
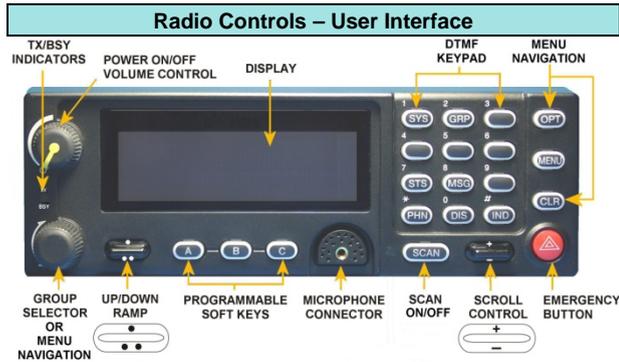
Figure 1: System Model Control Head*

The Scan Model Control Head (not shown) does not have a DTMF keypad.

Radio Icons

Antenna Icon	Indicates data registration.
	Volume bars – indicate relative volume level.
RSSI bars appear to the right of the Antenna icon.	

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).

Radio Controls
Button function may vary depending upon radio configuration.

Power/ Volume Dial	Twist clockwise to power on radio and increase volume. 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.
Group Selector or Menu Navigation	While in the dwell display, scrolls through available talk groups. Scrolls through selections within the active menu (available talk groups, pre-programmed speed dial numbers, canned alert messages, etc.).
	If enabled via programming, functions same as above. or Increases/decreases display brightness.
MENU Button	Activate current selection.
	Depending on 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).

Radio Controls (Con't)

SCAN	Toggles the Scan Mode ON/OFF.
Pre-Set Buttons A/B/C	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.

Radio Scan Modes

Scan Mode	Explanation
No Scan	Eliminates distractions. Full communications (transmit and receive) on selected talk group. No calls received from other talk groups.
Normal (Default)	Scan all talk groups in the active profile that are not locked out as long as there is demand on the site. Priority (P1, P2, and P3) groups are user selectable. Receive calls from more than one talk group, if available from the current site. Allows dragging of the selected talk group, P1, P2, P3, and default emergency talk groups to the site on which the radio is registered. (If other calls are available at the site, they also can be heard but they are not be actively dragged.) The default emergency talk group, as well as any emergency-enabled talk 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).

DTMF Keypad Functions

*0	Log-off command: *0## (Logs the user off the system)
*1	Log-in command: *1<User ID> # <Password> ## (Required for encryption)
*2	Status Message: *2 <0...9> #
*4	Enter Scene of Incident (SOI) Mode: *4#<cc>#<bb># where cc is the SOI channel number and bb is the number assigned to each frequency band. Press *40# to exit SOI.
*5	RTT Message: *5 <0...9> #
*6	Go to default profile
*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#

Quick Buttons

1#	Transition to ECP Mode
2#	Stealth Mode On/Off
3#	Scan Mode On/Off
4#	Lights/Tones On/Off
5#	Set the current active profile to the default profile in the personality as defined in the UAS.
7#	Transmit the RTT Automatic Normal Message to the console.
8#	Transmit the RTT Automatic Priority Message to the console.

Radio Tones

Name	Description
Deny Tone	3 short tones - Radio is out of coverage area or requested talk group is active.
Queued Tone	1 low tone/2 high tones - Call queued for processing.
Grant/Go-Ahead Tone	1 short beep - Sounds when resources become available for a call request placed in the queue.
Removed Tone	Single long low-pitched tone - Access to the channel has been lost.
Emergency Cleared Tone	1 long low-pitched tone – Emergency cleared.
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	Ringing tone similar to that of a telephone repeated every four seconds.

About L3Harris Technologies

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.

Radio Tones (Con't)

Name	Description
Selective Alert Received Tone	4 tones (low, high, low, low) - Played once to indicate a selective alert received.
Roam Tone	2 short tones: 1 high-pitched and 1 low-pitched - The radio transitioned from one base station site to another while transmitting voice.
PSTN Ring	Single medium-pitch reiterative tone - There is an incoming or an outgoing telephone call.
Out of Range	3 brief tones - If enabled via programming, sounds when the radio is not within operational range with base station.
Priority Bump	1 medium mid-pitched tone - The current received call preempted by a higher priority call.
Site Found Tone	3 short high-pitched tones - The selected site found using the Site Lock Menu.
Site Not Found Tone	3 short high-pitched tones - The selected site not found using the Site Lock Menu.

Stealth Mode

1. Scroll through the menu until "StealthMenu" appears.
2. To immediately turn Stealth Mode on, press up or down with ⊖.
3. 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.

Check or Change the Active Profile

The radio can store up to sixteen (16) standard profiles within its personality, one of which is always set as the currently active profile. Each profile can contain up to sixteen (16) talk groups.

If the dwell display is set to "profile," the currently active profile's name appears in the bottom line of the display. Otherwise, to determine which profile is currently active, use the menu buttons to access the Profile Menu. The active profile's name will appear in the top line of the display. To switch to/activate a different profile:

1. Using ⊙, scroll until "Profile Menu" appears in the bottom line of the display. The name of the currently active profile appears in the top line.
2. Use ⊖ to choose the desired profile stored in the radio as established by the OpenSky network administrator.
3. Profile becomes active when selected for longer than 2 seconds, when the **MENU** is pressed, or when the menu is changed using ⊙.

Check or Change the Selected Talk Group

One talk group within the currently active profile is set as the "selected talk group." For the radio user, the selected talk group is typically the focus of most voice transmissions and receptions. There are two ways to change the selected talk group:

First Method:

1. Use ⊙ to scroll through the menu until "TalkGrpMenu" is displayed.
2. Use ⊖ to scroll through the available list of talk groups in the active profile.

Check or Change the Selected Talk Group (Con't)

Second Method:

From the dwell display, use ⊖ to scroll through the available list of talk groups in the active profile.

Receive a Voice Call

No action is required to receive a voice call.

Transmit a Voice Call

1. If not already on, power-up the radio.
2. If required, log-in to the network using a user ID and password.
3. Select the desired talk group on which to transmit.
4. Depress and hold the Push-To-Talk button on the handheld microphone, pause for a moment, and then speak normally. For maximum clarity, hold the microphone approximately 2 inches from the mouth and do <u>not</u> shout or whisper into it. If the call is queued by the network, wait for the grant tone to sound before speaking.
5. Release the PTT button when finished speaking.

Adjust Side Tone Audio Level

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

Change Operating Mode

Change operating mode via the App Mode menu.

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."

Declare an Emergency

1. Press the red emergency button on the radio to enter emergency mode. The emergency is raised after the emergency raise delay [default is one (1) second].

   - If the active profile of the unit initiating the emergency is configured for Emergency Alert, the emergency alert signal is sent to registered alert servers, such as the dispatcher console.
   - If the active profile of the unit initiating the emergency is configured for Emergency Call, the talkgroup is placed into emergency status notifying other radios and the emergency alert signal is sent to the dispatcher console.
   - If the emergency behavior of the active profile is Current, the active, selected voice group becomes the default emergency voice group.
   - If the emergency behavior of the active profile is Default, the radio moves to the default emergency voice group of the profile and this talk group becomes the select talk group.

2. The display will alternate between the emergency voice group name and "EMERGENCY" and declaring User ID to indicate that the emergency has been initiated.

Clear an Emergency

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

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

Refer to the Operator's Manual (*MM-014716-001*), available online at *www.pspc.harris.com*, for more detailed operating instructions.