



Unity® XG-100P
Full-Spectrum Multiband Radio



Radio Overview

- Antenna
- Emergency Button
- Indicator LED
Red = Transmit
Green = Receive
Orange = Encrypted TX
- Top Display
Contains channel, channel name, system/zone name, scan status, emergency status, battery meter
- Speaker
- Primary Microphone*
- Front Display
- Soft-Key Displays
- Soft Keys
- Select/Shortcut Button
- Navigator
Use to highlight and select a menu item
- Keypad
- Home Key
- Channel Knob
- Power/Volume Knob
- Programmable Switch
O=Encrypted or TX Disabled,
O=Unencrypted or TX Enabled
- Secondary Microphone*
- Bank Selector
- User-Programmable Button (Top Side)
- PTT Button
- User-Programmable Button (Middle Side)
- User-Programmable Button (Bottom Side)
- Battery

*Dual Microphone System used for noise cancellation

Select Channel and Bank

- Select channel.
- Select bank.

For detailed operating information, refer to Operator's Manual 10515-0372-4200, available at www.pspc.harris.com.

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Main Display Overview

STATUS AREA:
See the "Icons" table for a description of the icons displayed in the status area.

* Harris logo displays if GPS has not acquired after power up.

ACTIVITY AREA:
See the "Status Message" table for a complete list of messages displayed by the radio.

Encryption Banner or Missed Call Banner. Refer to the Operator's Manual for more information.

2 SOFTKEY LABELS

Main Menu

Use the navigator to highlight and select a menu item.

Press 1 - 9 on the keypad for direct access to menu items. Refer to operations manual (10515-0372-4200) for complete menu descriptions, including SEC (3), MSG (8), and UTIL (9).

Icons

	Trunked Signal Strength		Bluetooth On
	TX Forward Power		Bluetooth Paired
	Receive Signal Strength		Secure Traffic
	Channel Idle		Global Encryption
	Transmitting Encrypted		GPS Tracking
	Failsoft		Monitor On
	Nuisance Channel		OTAR Disabled
	Receiving Data		OTAR Registered
	Transmitting Data		OTAR Registering
	Virtual Site		OTAR Rekeying
	Battery Level		Talkaround Enabled
	Low Battery		Transmit Power
	Very Low Battery		RX Only
	RX Mail		Noise Cancellation Enabled
	Battery Exhausted		Speaker Muted
	Battery Charging**		VDOC
	Battery Fully Charged**		Vote Scanning
	TX Disabled		Scanning Enabled
	Tones Disabled		Alert(s) Present
	PTT Disabled		Emergency

** Smart Battery Only.

Icons (Continued)

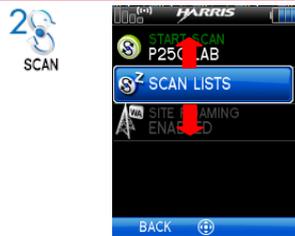
	Unselected Emergency		Unit Selected
	Selected Emergency		Unit Unselected

Select Zone



Select **ZONE** from main menu and scroll up and down to select zone using .

Scan Configuration



Select **SCAN LISTS**. From the **SCAN LISTS** screen, you can select **VIEW/EDIT** or **START SCAN**.

Select **VIEW/EDIT**→**OPTIONS** to access **SET PRI1**, **SET PRI2**, **REMOVE PRI**, **DELETE GROUP/CHAN**, or **ADD CHAN**. Select **NUISANCE** while scanning to remove a channel from the list.

Available options are based on programming selections made in Radio Personality Manager (RPM). If RPM is set to fixed, these options will not be available.

Enable Noise Cancellation

To enable Noise Cancellation:

1. Select **SETTINGS** → **AUDIO SETTINGS**.
2. Highlight and enable **NOISE CANCELLATION** using . See "Adjust Settings" for sample menu screens.

How to Use the Noise Cancellation Feature

- Verify **NOISE CANCELLATION** is enabled (see above).
- Talk within 2 inches of primary microphone (see Figure 1).
- Speak clearly, loudly, and with authority.
- If possible, face the noise source when talking into the radio (see Figure 1).
- Ensure the primary and secondary microphones are not covered. See "Primary versus Secondary Microphone" for more information.

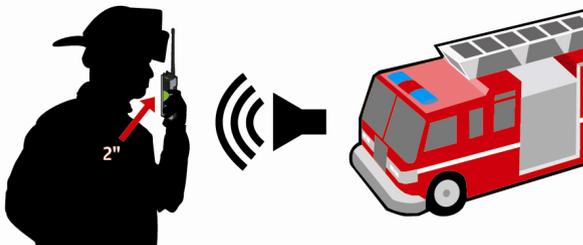


Figure 1: Using the Noise Cancellation Feature

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Primary versus Secondary Microphone

Without a Speaker Microphone Attached:

The primary microphone is located on the front of the radio and the secondary is on the back of the radio. See "Radio Overview" for the location of these microphones.

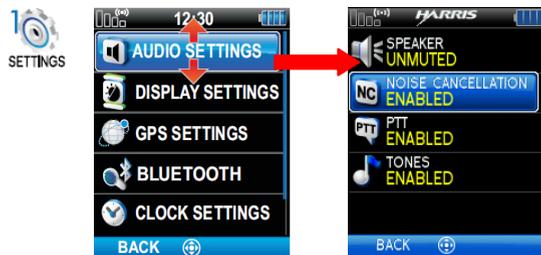
With a Speaker Microphone Attached:

When a speaker microphone is attached, the radio electronically switches over to use the radio's front microphone as secondary. The microphone on the attached speaker microphone becomes primary (see Figure 2 below).



Figure 2: With Speaker Microphone Attached

Adjust Settings



Select a setting to adjust. Inaccessible menu items are grayed out.

Status Messages

MESSAGE	DESCRIPTION
PTT DENIED	P25 Trunked - The radio or talkgroup is not authorized to operate on the selected system and/or talkgroup.
CALL QUEUED	P25 Trunked - The system has placed the call in a request queue.
SYSTEM BUSY	P25 Trunked - The system is busy, no channels are currently available, the queue is full, or an individual call is being attempted to a radio that is currently transmitting.
SCANNING	Indicates the radio is scanning.
TX EMERGENCY	P25 modes only - An emergency call is being transmitted.
RX EMERGENCY	P25 modes only - An emergency call is being received.
WIDE AREA SCAN	P25 Trunked - Indicates the radio has entered the Wide Area Scan mode to search for a new system.
INVALID TALKGROUP	P25 Trunked - The current talkgroup is not valid for the current system.
INVALID UNIT	P25 Trunked - The current unit is not valid for the current system.
REGISTERING	P25 Trunked - The radio is performing a registration on a P25 trunking site.
CTRL CHANNEL SCAN	P25 Trunked - The control channel is lost and the radio has entered Control Channel Scan to search for the control channel (usually out of range indication).
BAND SCANNING	P25 Trunked only - Only displayed if the P25T system is configured for "EnhancedCC" mode of operation. When the radio cannot find a Control Channel in either the trunked frequency set or the list of discovered adjacencies, the radio is able to perform a full spectrum frequency scan to find a new Control Channel.

Individual or Group Call



From the **CALL** menu, select **INDIVIDUAL CALL** or **CHANGE TLKGRP**.

For Individual Calls, select a predefined unit from the list, or enter select **<KEYPAD ENTRY>** to enter the Unit ID directly.

The "PTT" field on the main display shows the call information.

Individual and group calls must be on a digital channel.

Emergency Operation

Press and hold  on top of the radio to declare an emergency. Length of time to hold is programmable.

- For digital channels, the radio transmits the talkgroup or radio ID to the dispatch console or receiving radio.
- The radio goes through transmit and receive cycles, if configured.
- Speak into the microphone while the radio is transmitting or press PTT to talk.
- To exit emergency, power cycle the radio or select **EXIT EMERGENCY** from the **CALL** menu.
- When receiving an emergency on a digital channel, the Unit ID appears in the activity area.

Activate Mission Plan



From the **PROGRAM** menu, highlight and select a mission plan.

Select **ACTIVATE PLAN**, **VIEW PLAN INFO**, or **EXIT** on the pop-up menu.

Scan Channels



From the **Scan** menu, select **SCAN LISTS** to configure the scan list. Select **START SCAN** to start scan.

Activity message appears noting that the radio is scanning.