**XL Series Portable Radios**

** QUICK GUIDE **

**14221-1800-1000**

Rev. E, June 2020

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L3Harris Technologies

Sample Idle Front Display

<table>
<thead>
<tr>
<th>Radio Overview</th>
<th>Controls, Indicators, and Connectors</th>
<th>Icons (Cont.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power/Volume Knob</td>
<td>selects groups/channels.</td>
<td>- Receiving Data</td>
</tr>
<tr>
<td>Microphone/Secondary (Microphone)</td>
<td>turn clockwise to power on radio and increase volume of audio from speaker.</td>
<td>- Transmitting Data</td>
</tr>
<tr>
<td>Microphone/Primary (Microphone)</td>
<td>When noise cancellation is enabled, the secondary microphones are used together to form a dual microphone system. When noise cancellation is disabled, only the primary microphone is used.</td>
<td>- Battery Fully Charged</td>
</tr>
<tr>
<td>A/B/C/D Switch</td>
<td>switch switch, by default selects one of four channel banks.</td>
<td>- Battery Level - 75%</td>
</tr>
<tr>
<td>User-Programmable Buttons</td>
<td>need to select emergency used function as an alternative to navigating menus configured using Radio Personality Manager (RPM 2).</td>
<td>- Battery Level - 50%</td>
</tr>
<tr>
<td>Power/On-Off (PTT) Button</td>
<td>Press to select emergency used function as an alternative to navigating menus configured using Radio Personality Manager (RPM 2).</td>
<td>- Battery Level - 25%</td>
</tr>
<tr>
<td>Antenna Connector</td>
<td>Antenna connector.</td>
<td>- Transmit Power Level High</td>
</tr>
<tr>
<td>Emergency Button</td>
<td>Places radio in emergency mode. Can be used in conjunction with a User Programmable Button to Clear Emergencies if configured to do so.</td>
<td>- Transmit Power Level Low</td>
</tr>
<tr>
<td>Microphone (Secondary) Indicator Light</td>
<td>Red = actively transmitting.</td>
<td>- Battery Exhausted RX Only</td>
</tr>
<tr>
<td>Indicator LED</td>
<td>Green = actively receiving.</td>
<td>- Battery Charging</td>
</tr>
<tr>
<td>A/B/C/D Switch</td>
<td>Orange = actively transmitting encrypted.</td>
<td>- Speaker Muted</td>
</tr>
<tr>
<td>User-Programmable Buttons</td>
<td>Need to select emergency used function as an alternative to navigating menus configured using Radio Personality Manager (RPM 2).</td>
<td>- Fault/Self Test</td>
</tr>
<tr>
<td>Power/On-Off (PTT) Button</td>
<td>When noise cancellation is enabled, the primary and secondary microphones are used together to form a dual microphone system. When noise cancellation is disabled, only the primary microphone is used.</td>
<td>- VDOC</td>
</tr>
<tr>
<td>Antenna Connector</td>
<td>Antenna connector.</td>
<td>- RX Mail</td>
</tr>
<tr>
<td>Emergency Button</td>
<td>Places radio in emergency mode. Can be used in conjunction with a User Programmable Button to Clear Emergencies if configured to do so.</td>
<td>- PDT Disabled</td>
</tr>
<tr>
<td>Microphone (Primary)</td>
<td>When noise cancellation is enabled, the secondary and primary microphones are used together to form a dual microphone system. When noise cancellation is disabled, only the primary microphone is used.</td>
<td>- Scanning Enabled</td>
</tr>
<tr>
<td>Microphone (Secondary)</td>
<td>Microphone (Primary)</td>
<td>- TX Disabled</td>
</tr>
<tr>
<td>Power/Volume Knob</td>
<td>Microphone (Secondary)</td>
<td>- Alert(s) Present</td>
</tr>
<tr>
<td>Microphone/Secondary (Microphone)</td>
<td>Microphone (Primary)</td>
<td>- Wi-Fi Network Connecting</td>
</tr>
<tr>
<td>Microphone/Primary (Microphone)</td>
<td>Microphone (Secondary)</td>
<td>- Wi-Fi Signal Strength Indicator</td>
</tr>
<tr>
<td>A/B/C/D Switch</td>
<td>Power/On-Off (PTT) Button</td>
<td>- OTAR Register</td>
</tr>
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<td>User-Programmable Buttons</td>
<td>Power/On-Off (PTT) Button</td>
<td>- OTAR Disabled</td>
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<td>- Wi-Fi Signal Strength Indicator</td>
</tr>
<tr>
<td>Microphone (Secondary)</td>
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<td>- Wi-Fi Clients Connected</td>
</tr>
<tr>
<td>Indicator Light</td>
<td>Indicator Light</td>
<td>- VDOC</td>
</tr>
</tbody>
</table>

**Radio Icons**

- Trunked Signal Strength
- Bluetooth Enabled
- TX Power
- Bluetooth Connected
- Receive Signal Strength
- Encryption Enabled
- Channel idle
- Global Encryption
- Transmitting Encrypted
- GPS Tracking
- Nuisance Channel
- Monitor On
- Emergency
- Type 99 Enabled
- Wi-Fi Clients Connected
- Fire Speaker Mic Attached

**Note:** Change battery fully before first use. For more detailed information as comprehensive operating instructions, refer to Operator’s Manual 14221-1800-2000 online at https://www.harris.com/harris/14221-0500-bio-way-portsable-radio.
Primary versus Secondary Microphone (Cont.)

With a Speaker Microphone Attached:
When a speaker microphone is attached, the radio electronically switch the microphone to a top-left microphone as secondary. The microphone on the attached speaker microphone becomes primary.

Enable Noise Cancellation
To enable Noise Cancellation:
1. Press the Menu/Select button to access the menu. Press or until the UTILITY menu is displayed.
2. B: AUDIO SETTINGS and press the Menu/Select button.
3. Press or to highlight NOISE CANCELLATION. Toggle Noise Cancellation ENABLED/DISABLED using the Menu/Select button.

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, and with authority.
- Ensure the primary and secondary microphones are not covered.
- In very noisy environments, it is o.k. to yell into the radio. The radio can handle loud input levels.

Primary versus Secondary Microphone (Cont.)

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Figure 1: Using the Noise Cancellation Feature

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.

Primary versus Secondary Microphone
The primary microphone is located on top of the radio and the secondary microphone is located on the radio (see Radio Overview for microphone locations).

Select Group/Channel and Bank
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