

## Feature/Benefit Analysis – RITRON SLX Series Radio

### **1. SLX-100 5/1 Watt VHF, 136-174MHz and SLX-400 4/1 Watt UHF, 406-470MHz**

*Some systems require the additional power of a portable like the SLX. Not only does the SLX offer high power (5W VHF/4W UHF), but it also delivers it in a small, easy-to-carry, and lightweight package. The standard Lithium-Ion battery pack is extremely light, yet delivers 1800mAh of battery capacity.*

### **2. Wide Frequency Band Operation – Less Stocking SKU's, New Market Opportunities!**

*The SLX offers wide frequency band operation without retuning of the radio. 38MHz @ VHF and 64MHz @ UHF. This capability allows the dealer to stock fewer “SKUs” yet sell to a broader market segment. Those customers operating on frequencies near the band edges are now fair game for Ritron dealers. This wide frequency band operation opens up new opportunities in the Government radio user market sector. For best operation, the antenna for each radio must be cut to a center-frequency that will best serve the user.*

**When antenna is cut to specific frequency it will provide the following performance:**

**VHF: 7.5MHz on each side of center frequency. UHF: 10MHz on each side of center frequency.**

### **3. 60 Channel Capability – New Market Segments!**

*More than enough channels for most business and industrial users. The extra capacity needed to go after some government and public safety customers.*

### **4. Sealed and Gasketed Construction, IP-54 and MIL-STD 810F Certified**

*Military Durability. The SLX radio meets tough standards for temperature, humidity, acceleration, vibration and shock. It is designed to provide years of reliable service.*

### **5. Ultra Small, only 3.93” H x 1.33” D x 2.2” W**

*About the size of a credit card standing on end (we're working on the thickness dimension). The SLX series shatters the status quo when it comes to a radio's size. The SLX is small and lightweight, and yet it's controls are still easy to use and the audio is loud and clear.*

### **6. Lightweight, Ergonomic - Only 10oz. with “6-Point Capture Off-The-Back” Battery Design**

*You'll notice the difference as soon as you pick one up and so will your customers! Rugged 6-point capture design provides durability and easy “off-the-back” removal of the battery pack.*

### **7. Wide or Narrow Band Selectable by Channel**

*Selectable on a channel-by-channel basis. Allows SLX to be sold to those users on the new narrow band systems, as well as provide backward compatibility to wide band systems.*

### **8. 11-Hour Battery Life with 1800mAh Li-Ion Battery**

*High capacity Li-Ion battery provides long battery life between charging.*

### **9. Dual Slot, Smart Rapid Desk-Top Charger – Standard with every SLX Radio**

*Compact-size LED's indicate charging status of both slots. Charges 2 packs sequentially (Front to Back). Will charge depleted pack in approximately 2½ hours. Automatically begins charging 2nd pack when 1<sup>st</sup> complete.*

### **10. 8-Character Alpha/Numeric LCD Backlit Display**

*For added customer convenience the LED display allows channels to be “tagged” with alpha names and/or numbered – whatever the customer prefers. The display also makes it easy for the customer to access other advanced MENU features of the SLX.*

## 11. 8-Programmable Function Buttons (PFB's a.k.a. Hot Keys)

The PF buttons make accessing a variety of features of the SLX easier and faster. For example...most of the MENU features can be “assigned” to a specific PF button. This makes accessing that feature a one-button operation. Every button on the radio except the PTT button can be programmed to perform any one of the following MENU accessible features/functions.

## 12. “Assignable” Features/Functions and Display “MENU” Mode

All features/functions listed below can be assigned/programmed to any of the up to “8” Programmable Function Buttons. The PFB provides easy, one-button access to a specific feature/function.

If all PF buttons are assigned and additional features/functions are desired, most of the features listed below can also be made accessible/visible via the radios Display MENU mode.

In order to be accessible via the radio's Display MENU mode the feature/function must first be “Enabled” using special programming software by your Ritron SLX Radio Dealer.

1. **No Function Assigned\*** - The key(s) will have no function.
2. **Menu Button\*** - Allows access to MENU “accessible” features.
3. **Up Button\*** –scroll up any list.
4. **Down Button\*** – scroll down any list.
5. **Monitor/Call Cancel** – Toggles radio operation between tone, carrier, and open squelch mode, or will clear the display of any incoming call.
6. **Emergency feature** – Transmits Emergency call code on an assigned frequency.
7. **Backlight\*** – Toggles display backlight **On/Off**.
8. **Squelch Level** – Displays current receiver sensitivity setting and allows user to adjust setting. Smaller number increases sensitivity, allows radio to hear weak/distant signals. Larger number decreases receiver sensitivity - only strong, quiet signals are heard.
9. **“Hands-Free” Capability** – Toggles hands-free operation **On/Off**.
10. **Keypad Lock** – Toggles the keypad **On/Off** to prevent accidental activation of buttons.
11. **Keypad/Radio Tones** – Toggles keypad and radio tones **On/Off** for silent operation.
12. **DTMF ANI** – Turns DTMF ANI encoding **On/Off**.
13. **Scan** – Turns Scan function **On/Off**.
14. **TalkAround** – Causes radio to transmit on the receive frequency on channels where the RX and TX are not the same.
15. **Password** – Turns Password protection feature On or Off.
16. **Call 1, 2, 3, or 4\*** – Transmits a selective signaling code e.g. GateGuard command code... that's been pre-programmed on a per channel basis.
17. **TX Tone Select** – Select CTCSS/DCS encode frequency from a list for the current operating channel.
18. **RX Tone Select** – Select CTCSS/DCS decode frequency from a list for the current operating channel.
19. **TX Power Level** – Toggles transmitter power to High or Low on the current operating channel.
20. **Priority Scan** – Priority Scan operation **On/Off**.
21. **Power Save** – Toggles Power Save **On/Off**.
22. **Group Select** – Select a pre-programmed group of channels.
23. **Contact List** – Select and send from a list of pre-programmed encode codes.
24. **Scrambler** – Toggles scrambling **On/Off** on the current operating channel.
25. **Call Tones Button\*** – Continuously transmits two pre-programmed, alternating tones for a Call Alert as long as the PF button is held down.
26. **Fix Channel\* 1, 2, 3, or 4** – Speed dial for pre-programmed channel selection, eliminates need to scroll to get to a channel.

\*Asterisk features/functions are NOT accessible/visible via the radios Display MENU mode.

### **13. Programmable Emergency Button (Orange) – Enhanced Safety for Radio Users!**

*The Emergency feature allows the radio user to send an Emergency Call to all other radios programmed on the channel. For example, if the radio user should become injured, trapped or is in danger, a simple push of the orange button will activate the Emergency function. The Emergency function is programmable, it includes: sending the alert tone to other radios AND then automatically turning on the transmitter of the sending radio for a specified period of time. This allows any audio present at the sending radio to be transmitted “hands free” to all other radios on the system (e.g. a call for help, the location and/or name of the person in need, reason for Emergency) from the sending radio to be transmitted to all other radios. This Emergency function cycle can be programmed to repeat a number of times and can be cancelled at anytime by pressing the orange button a second time.*

### **14. Lone Worker Feature – Enhanced Safety for Radio Users!**

*This feature is useful in situations where the radio user works alone and is either required or would be helpful to check in at regular intervals. The radio can be programmed to sound a tone to remind the Lone Worker that they must “call in.” If they do not call in within the allowable period of time the radio will automatically send the Emergency code.*

### **15. Rugged Audio Accessory Connector**

*Low-profile, molded, screw-on strain relief keeps audio accessories securely attached to the SLX radio.*

### **16. Channel Scan**

*Allows user to monitor more than one channel at a time without changing channels.*

### **17. Built-in Voice Scrambler – Added Privacy!**

*For those applications requiring added security and privacy, the SLX can be programmed on a channel-by-channel basis to enable the built-in voice scrambler feature. For non-scrambler radios the voice communication is rendered unintelligible.*

### **18. Built-in VOX Capability**

*VOX can be used to answer those applications where hands-free communication is needed. The SLX can be used in VOX mode without an audio accessory (a headset).*

### **19. CTCSS/DCS Signaling**

*Sub-audible signaling and digital coded signaling allow the SLX to be used with virtually any other brand of radio.*

### **20. 2-Tone Encode/Decode by Channel**

*The SLX radio can be used to “remotely control” other things...like the Ritron GateGuard system. The SLX radio can be configured to send different 2-tone codes on a channel-by-channel basis. This can be accomplished by using one of the “programmable function buttons” to access a contact list of pre-programmed gate locations... the user could see a list of gate locations e.g. “South Gate”, “North Gate”, “East Gate”...etc... on the LED display. To send the command code is a simple one-button press.*

### **21. DTMF Encode by Channel**

*The radio can be configured to send different DTMF strings on a channel-by-channel basis. Maximum 16 unique DTMF strings.*

## 22. Low Battery Alert

To alert the user that the battery needs to be recharged, the radio sounds an audible alert tone when the battery reaches a low voltage set point.

## 23. LED Display Icons

To provide additional feedback to the radio user, the LED display has several status icons. Some status icons are “radio wide.” Other icons appear only IF the feature is set to “ON” for the current operating channel.

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Symbol	Name/Function
	Signal Strength Indicator – shows received signal strength of an incoming call. Full circle = strong signal ¾ circle = moderate signal ½ circle = acceptable signal ¼ circle = very weak signal
	H/L - Indicates power (High or Low) setting of individual channel.
	Keypad Lock – Appears when keypad lock is ON.
	Bell – Appears when keypad tones are ON.

Symbol	Name/Function
	Battery Level Indicator: 3 Bars = full charge 2 bars = 66% 1 = bar 33%
	“Hands-Free” VOX Indicator – Appears when Hands-Free feature is ON.
	Scan Indicator – Appears when Channel Scan is ON.
	Scrambler Indicator – Appears when Voice Scrambler is ON.
	Talk Around Indicator – Appears when radio is operating on the Talk Around channel.