VFD Kenwood Viking Mobile Quick Reference Guide

Version 1.0   2-15-24

Viking 19 Control Head

| Power On/Of | Zone/Channel Selection | SRS Talk Group Channel Alias | Zone Alias | Volume Up/Down |

CHENEY [iP]
● H ROC Call
H/A/B SRS ROC
RPTR | SCAN | SSRCH | NUDEL

| Tx/Rx LED | Select Button | Soft Keys | Soft Keys Right | Emergency |
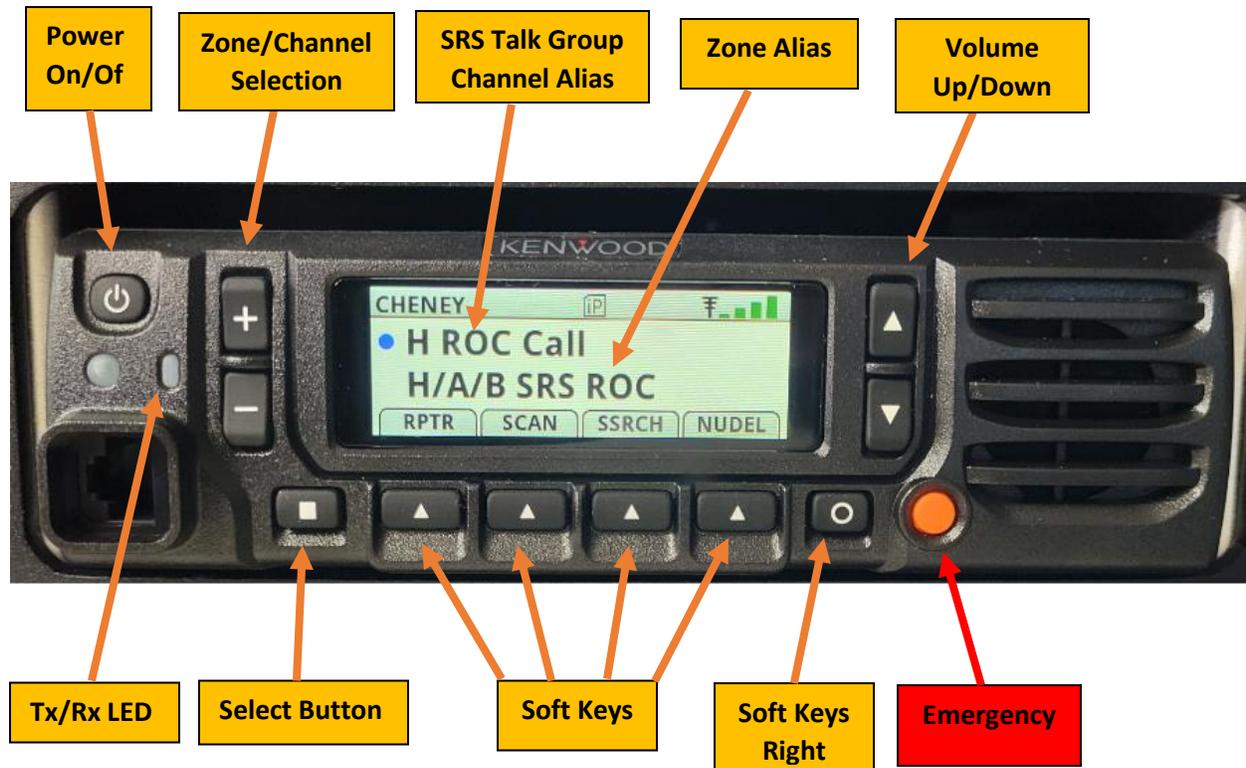
Select Button: Use the Select button to move the BLUE indicator between Talkgroup/Channel alias and Zone alias display lines.

Change Channels: With the BLUE indicator beside the Talkgroup/Channel Alias, use the +/- buttons to scroll through the channels in the currently selected zone.

Change Zones: With the BLUE indicator beside the Zone Alias use the +/- buttons to scroll through the available zones.

Volume: Use the Up/Down arrow keys to increase or decrease the volume level.

Soft Keys: Use the Soft Keys buttons to activate the function displayed above each key. Use the Soft Keys Right button to move to the next page of assigned functions.

Tx/Rx LED: Red: Indicates the radio is transmitting. **Green:** Indicates the radio is receiving.

Emergency: Use to declare an emergency situation.

Display: Trunking Mode

Site Alias
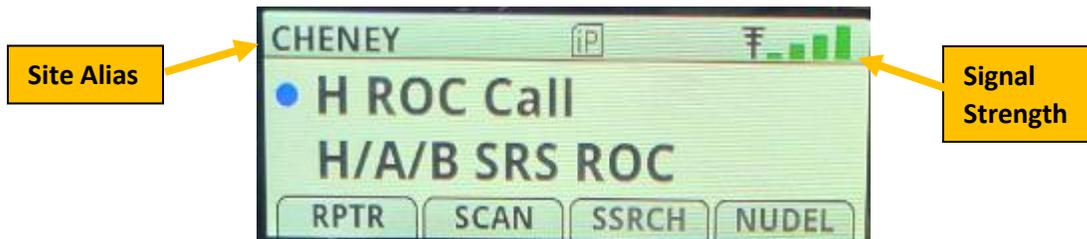
Signal
Strength

Site Alias: Displays the Site Alias or Site Number the radio is currently affiliated on.

Signal Strength (RSSI): Shows the signal level the radio is receiving from the current site.

IP: The radio has an IP registration.

Statewide Interoperable Talkgroup Resources

- **Regional Operations Common (ROC):** ROC talkgroups are available statewide and are monitored by NSP and local PSAP dispatch on a regional basis. The letters (H, A, B, C, D, E) designate the troop area partitioning these talkgroups.

- **ROC CALL** provides a hailing talk group and is monitored by state and local Dispatch. Every local PSAP in the associated troop area will hear ROC Call traffic. **ROC 1** and **ROC 2** are used as tactical talkgroups and are not normally monitored by local dispatch.

- **Events A/Events B:** Event talkgroups can be used to support specific events. Event A M1-M8 talkgroups are designated with an "M" and are monitored by NSP dispatch. Event A 9-10 are unmonitored. Event B talkgroups are F1-F12 and E1-E4 and are unmonitored.

- Use of the Event talkgroups are coordinated by using SRS **Statusboard** website to reserve Event talkgroups for preplanned events. This is to prevent voice traffic collisions between multiple events.

- Event talkgroups can be used in emergency situations without reserving the talkgroup vis Statusboard. An Incident Commander can select an Event talkgroup for emergency use by monitoring the talkgroup to verify it isn't currently being used for a different event.

Emergency Operations

- Press and hold the Emergency button to initiate an **Emergency Call**. Emergency tones will sound, "Emergency" will be displayed and flash Red. A **HOT Mic** condition will be active for the first 10 seconds of the emergency call.

- Once the Emergency situation is past, request **"OK to Clear Emergency"** from Dispatch.

- Once cleared by Dispatch, press and hold (approx. 1.5 seconds) the Emergency button until the tone sounds. This clears the Emergency state on the radio.

Soft Keys

Soft keys allow the radio operator to activate functions or modes by pressing the button directly below the displayed function/mode. The programmed Soft Keys for the radio's trunking mode are listed below. There are 2 "pages" of soft keys programmed. To select the second page, use the "Soft Keys Right" button.

Soft Keys Page 1
- **Repeater:** This button activates/deactivates the Pyramid repeater.
- **Scan:** This activates the Trunking scan mode.
- **SSRCH:** Site Search. This will display the current site and its reported signal level.
- **NUDEL:** Nuisance Delete. The Nuisance Delete feature allows the operator to temporarily mute a specific scanned channel. Press and Hold this function until a beep sounds while the scanned channel is active. The channel will no longer be scan. To reset, toggle Scan On/Off.

Soft Keys Page 2
- **RWS:** Radio Wide Scan mode.
- **SCNED:** Scan Edit. This feature allows channels or talkgroups to be manually added to the scan list. The scan list being edited depends on the current scan mode.
- **RWSED:** Radio Wide Scan Edit. This feature allows channels or talkgroups to be manually added to the RWS scan list.
- **Menu:** Menu is a list of additional features that the operator can manage via the Menu list, such as Backlight and Display Theme settings.
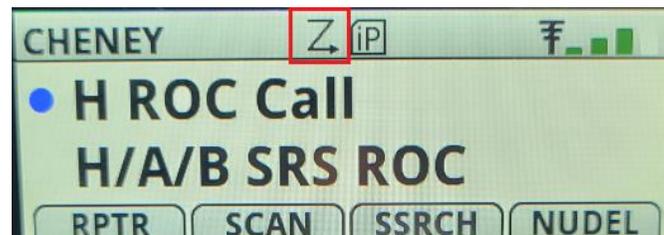
Scan Modes

The Kenwood Viking radio supports three scan modes, Conventional, Trunking and Radio Wide.

Scan Mode: The Scan Mode is determined by the currently selected channel.

- **Conventional Scan Mode:** Used to scan conventional direct and repeater channels. No trunking talkgroups are scanned using this mode.
- **Trunking Scan Mode:** Used to scan talkgroups on the SRS. No conventional channels are scanned using this mode.
- **Radio Wide Scan Mode:** This scan mode allows both conventional channel and trunking talkgroup resources to be scanned from the same scan list.

Trunking and Conventional Scan Icon: Both the Trunking and Conventional Scan modes use the same icon. The scan mode is determined by the currently selected channel mode.
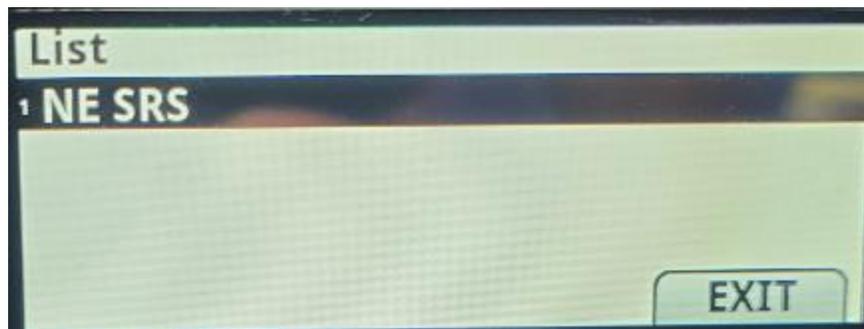

Radio Wide Scan Icon: Radio Wide Scan mode has a specific icon with a "R" designator.
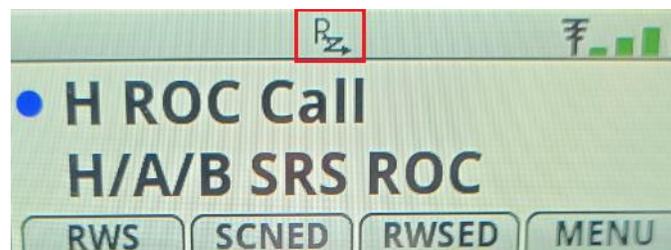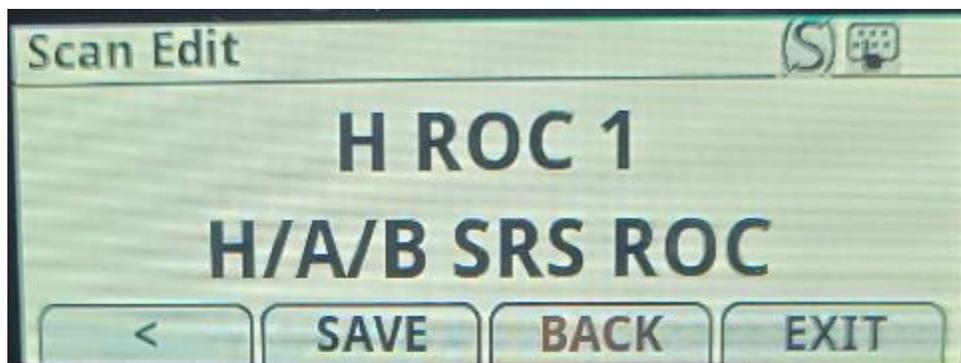
Scan Edit Mode

Scan and RWS Edit modes both follow the same process. Trunking Scan Edit is shown below.

With a trunking talkgroup channel currently selected, press the "SCNED" soft key. A list selection window will be displayed. NE SRS is the only trunking scan list programmed


Press the [image] button to select the NE SRS list.

"Scan Edit" will be displayed in the upper left display. Use the Up/Down arrow keys to scroll through the programmed trunking talkgroups. Once the talk group is selected, press the < key and then the "Save" key. The radio will display "Saving" and the scan list will be updated.

While in Scan Edit mode, pressing the [image] or [image] button will toggle through the channels currently assigned to the scan list. Save. The (S) in the upper right display corner designates the channel has been added to the scan list.

Once the list changes have been made, press the "Exit" soft key to return to main display.

PYRAMID REPEATER
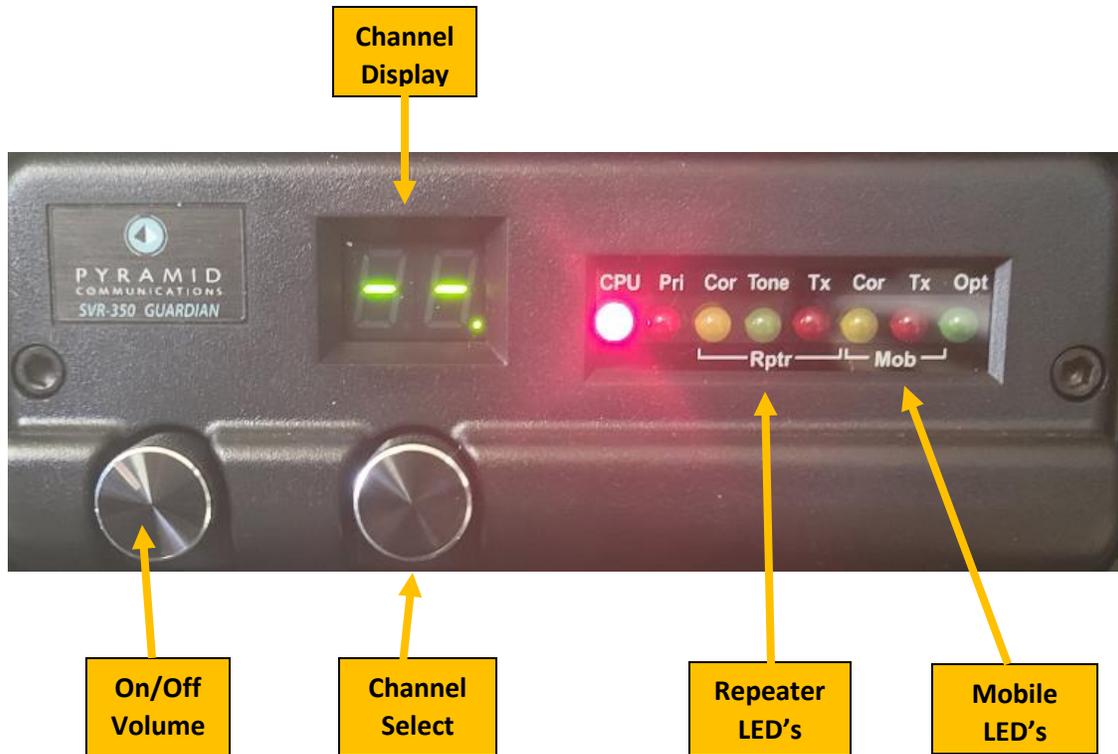
On/Off/Volume: Disabled. These functions are controlled via the mobile radio interface.

Channel Select: Allows channel selection for inbound transmission.

Repeater LED's: Details repeater activity.

Mobile LED's: Details mobile radio activity.

LED Description

- **CPU:** Flashes at a 1 Hz rate to indicate proper operation.
- **PRI:** When lit, indicates the unit will repeat all inbound and outbound transmissions.
- **RCOR (Repeater Carrier Detect):** When lit, the repeater is receiving an inbound transmission from the portable radio.
- **RTONE (Repeater Sub-audible decode):** When lit, it indicates the inbound transmission from the portable radio is being passed to the mobile radio.

- **RTX (Repeater Transmit Indicator):** When lit, it indicates when a transmission received by the mobile radio is being re-transmitted by the repeater.
- **COR:** When lit, a transmission received by the mobile radio is being re-transmitted by the repeater.
- **TX:** When lit, it indicates the mobile is actively transmitting the radio traffic passed via the repeater.
- **OPT:** When lit, it indicates the mobile is transmitting an emergency condition received by the repeater.
- **Decimal Point:** If displayed the repeater is selected to a P25 digital channel.

Repeater Operation

The Pyramid repeater is in stand-by mode until activated by pressing the "RPTR" soft key on the mobile radio. The repeater display will show 2 dashes. The CPU LED will be flashing.

Once the "RPTR" soft key on the mobile radio has been activated, the selected channel number will be displayed. The CPU LED will be flashing, and the PRI LED will be lit.

A portable radio selected to the correct repeater channel can now transmit and receive radio traffic via the repeater. The repeater sends a handshake message to the portable approx. every 30 seconds so that the portable radio knows the repeater is available for use.

When transmitting from the portable radio via the repeater, the repeater "COR" and "Tone" LED's are lit. The mobile "TX" LED is also lit. The outgoing transmission on the mobile will be on the currently selected talkgroup/channel.

When the repeater is transmitting radio traffic received by the mobile radio, the repeater "Tx" LED and the mobile "COR" LED will be lit.

If the portable is not receiving the handshake message from the repeater, it will sound a double beep tone and an "EVRS OOR" message will be displayed on the portable. This could be caused by the portable being out of range of the repeater or the channel selected on the portable radio doesn't not match the selected repeater channel. If a PTT attempt is made in OOR mode, the radio sounds a triple beep tone to indicate that no transmission is possible.