

ALERT TONES

Type of Tone	Name	Explanation
3 Short High-Tones (after requesting a busy channel) upon pressing the PTT button)	Automatic Call Back or Talk Permit	Channel is available for previously requested transmission. System is accepting your transmission.
Low-Pitched Tone (upon pressing the PTT button during Transmit) (Operation Error)	Talk Prohibit/ Out-of-Range or Time-Out Timer or Illegal Mode	Out of trunked radio system range or system is out of service. Present transmission will soon be disabled. You have entered a mode where normal system traffic will be missed, or you attempted something that is not allowed. (See examples below.)
High-Pitched Tone every 10 seconds in unmuted receive condition	Failsoft	System central controller failure. The radio reverts from trunked operation to operation similar to a conventional repeater. Others may share the channel.

SmartZone Backup Operations

A) .Radio operation in Site Trunking

Site trunking occurs when a site is not longer able to participate in wide-area calls controlled by the zone controller. Radios operating in site trunking can only communicate with other radios at that site.

The radio will of course always be looking for a wide-area trunking site to lock onto if it roams into range of one.

1. When a site goes into site trunking, the radio will receive this indication and will display

"SITE TRUNKING"

2. The display will alternate between the current trunked mode and the site trunking display for as long as the radio remains in site trunking.
3. Users should have a pre-determined backup Tower site when the System is in Site Trunking.

Tower prefixes

HO = Houston Tower
HU = Huffman Tower
TO = Tomball Tower
CL = Clodine Tower
AL = Alvin Tower
TM = Tamina Tower

Harris County ITC

**Spectra
Mobile Radio**

USER GUIDE

**Law Enforcement Model
Smart Zone - Smartnet
Radios**



Harris County Regional Radio Center
2500 Texas ave
Houston, Texas
77003

Phone: 713-755-6037
Fax: 713-755-8941

BASIC OPERATION

Turn the Radio On and Off

Press the PWR button once.

Set the Volume and Squelch

- 1 Hold the Vol rocker switch down to increase or decrease volume as desired, then release. The display shows volume levels from 0 to 15.
- 2 On conventional modes with Private-Line or Digital Private-Line, press **Mon** or remove the microphone from the hang-up clip to defeat the coded squelch.
- 3 Press **Mon** again, or replace the microphone on the hang-up clip to return to coded-squelch operation.
- 4 To adjust squelch level, hold **Mon** until a tone sounds.
- 5 Press the **Mode** rocker switch to select squelch level.
- 6 Press **HOME**.

Change Modes

Press the **Mode** rocker switch to select the desired mode

OR

Press **HOME** to access the preprogrammed Home mode.

Transmit

- 1 Press and hold the microphone PTT button.
- 2 When the transmit light comes on solid and no alert tones sound (or a talk-permit tone or ID sidetone sounds), speak into the microphone in a normal voice.
- 3 State your FCC call sign at the beginning of each transmission.

Activate Scan

1. Press **Scan** to start a scan. If no activity exists, the display shows your selected mode. When a scanned channel or talkgroup becomes active, the display shows the active mode name. The **PRI** and **NPRI** indicators show priority.
2. Press **Scan** again to stop scanning.

Program a Scan List

1. Hold **Scan** until a tone sounds and the scan indicator blinks.
2. Press the **Mode** rocker switch to select the mode you want to program.
3. Press the **Sel** button as indicated in the table below to add or remove the displayed mode from the scan list.
4. Repeat the previous steps to continue editing the list.
5. Press **HOME** or **Scan** to exit.

Press the **HOME** button to access the preprogrammed Home mode. (channel)

Press Sel Mode Indicator

- First time Non-Priority **NPRI** lit
- Second time First Priority **PRI** blinks
- Third time Delete from List No indicator

Spectra Radio General Operations

Radio On/Off and Volume Control

Turns the radio on/off by depressing this Button.

• **Home Button**

Returns you to the Assigned Home Channel from any Talk Group or Zone.

• **RSSI Button**

Displays the Received Signal Strength of the current signal. (SZ-only)

• **PHON**

SITE BUTTON (SZ-only)

• **H/L Button**

BLANK

• **MON Button**

BLANK

• **DIM Button**

This Button will dim the Back Lighting on the Display and buttons.

(4- display levels.)

• **SEL Button**

Pressing the SEL Button will select the currently displayed item.

• **DIR Button**

To talk direct (mobile to mobile) used when in Conventional Mode (ITAC-5)

Other Notes:

Time Out Timer

All spectra models have a standard **Time Out** if Mic is keyed up for more than 60 seconds.

To Activate Scan Functions:

Press the Scan button ONCE, the Scan Triangle will appear in the display.

ZONES

SZ and SmartNet Radios are programmed with a single Zone. All modes (channels) are Programmed into that single zone.

