

**New!  
D-Series**

# PATRIOT®

## Ounce for ounce tougher than any business radio in its class!

Small, Feature Rich, and Rugged—Great for use with on-site repeater systems or portable only systems. A wide range of programmable features makes the D-Series radios compatible with virtually any other two-way radio system.

### SST-144D, SST-446D and SST-444D Features:

- VHF and UHF Models
- Small, Rugged and Lightweight
- High Visibility, Easy-To-Read LED Channel Display
- Up To 10 Channel Capacity
- Built-In Signaling:
  - 2-Tone Paging Decode per channel
  - CTCSS and Digital Coded Squelch per channel
- Channel Scan - Normal and/or Priority
  - NOAA Weather Channel Feature (VHF only)
  - NOAA Weather Alert Feature (VHF only)
  - PC programmable with optional Windows® based software (vs. 9.0)
- Narrow or Wide Band Selectable\* TX only
- Busy Channel Lock-Out
- High/Low Power Selectable
- 2-tone Decode Paging allows the D-Series radios to function both as a compact two-way radio and a pager. The radio can be programmed to "listen" for specific paging tones and alert the user with a distinct ring as well as visual indication via the bright LED display.
- Battery Life up to 11.9 Hours

Each D-Series radio can be tailored precisely for the user's specific needs. For example: each D-Series radio can be programmed to display as few as 1 channel or as many as 10. Features like channel scan, weather scan and weather alert can be turned on or off depending on the need. The SST D-Series radios are powerful and feature rich, yet flexible and cost-effective.

Lightweight, small and easy to carry yet capable of withstanding a 6 foot drop onto concrete. In fact, ounce for ounce the Patriot D-Series radios are tougher than any other professional business radio in its class.



**Talk-back  
Pager with Built-in  
2-tone Decode**



## Special Features Explained

- **Channel Scan** (Normal or Priority) -Channel scan allows you to monitor multiple channels without changing channels.
- **2-Tone Paging Decode** -In systems designed for 2-tone encode paging SST D-Series radios can function as a Pager and a compact 2-way radio. The radio can be programmed to "listen" for specific paging tones and alert the user with a distinct ring as well as visual indication via the bright LED display.
- **NOAA Weather Scan** (VHF models only) -After selecting the NOAA weather frequency for your area you can select this channel and monitor the local NOAA weather broadcast.
- **NOAA Weather Alert** (VHF models only) -After selecting the NOAA weather frequency for your area and turning the Weather Alert feature ON, your radio will automatically look for the Emergency Weather Alert broadcast tone. When the tone is heard, your radio will immediately revert to the NOAA Weather Emergency broadcast.

Each radio includes battery pack, flexible antenna and belt clip. Charger sold separately.

Ritron has a full complement of wireless products for your two-way radio communications.

SPECIFICATIONS		One Year Factory Warranty			
<b>GENERAL</b>					
Model No:	SST-144D	SST-444D	SST-446D		
FCC ID:	AIERIT13-144	AIERIT13-450	AIERIT13-442		
FCC Rule Parts:	22, 74, 90, 95	22, 74, 90, 95 (A), 90.210	90, 90.210		
Frequency Range:	150-162 MHz	450-470 MHz	450-470 MHz		
RF Channels:	12 MHz	20 MHz	20 MHz		
Synthesizer Step Size:	Up to 10 Channels, Independent TX/RX frequencies	Up to 10 Channels, Independent TX/RX frequencies	Up to 10 Channels, Independent TX/RX frequencies		
Frequency Stability:	5 KHz	12.5 KHz	12.5 KHz		
Tone/Code Signaling:	+/-2.5 PPM (-30 to +60 C) TX/RX CTCSS (Quiet Call), DCS (Digital Quiet Call), 2-Tone Sequential Decode, 280 to 2500 Hz, 0.25 to 8.0 sec	+/-2.5 PPM (-30 to +60 C) TX/RX CTCSS (Quiet Call), DCS (Digital Quiet Call), 2-Tone Sequential Decode, 280 to 2500 Hz, 0.25 to 8.0 sec	+/-2.5 PPM (-30 to +60 C) TX/RX CTCSS (Quiet Call), DCS (Digital Quiet Call), 2-Tone Sequential Decode, 280 to 2500 Hz, 0.25 to 8.0 sec		
Power Supply (rechargeable):	+7.2 VDC, 800 mAh NiCd standard +7.2 VDC, 1500 mAh NiMH optional	+7.2 VDC, 800 mAh NiCd standard +7.2 VDC, 1500 mAh NiMH optional	+7.2 VDC, 800 mAh NiCd standard +7.2 VDC, 1500 mAh NiMH optional		
Battery Drain:					
Standby:	57 mA	55 mA	55 mA		
Sleep:	21 mA	18 mA	18 mA		
Avg. Standby w/ Power Saver:	23 mA	21.5 mA	21.5 mA		
Receive:	130 mA	120 mA	120 mA		
Transmit:	1600 mA @ 4 Watt 850 mA @ 1 Watt	1400 mA @ 3 Watt 850 mA @ 1.5 Watt	800 mA @ 2 Watt		
Battery Life @ 90/5/5 Duty Cycle w/ Standard battery pack (800 mAh):	7.4 Hrs, Battery Saver On, TX High Power 11.5 Hrs, Battery Saver On, TX Low Power 5.6 Hrs, Battery Saver Off, TX High Power 7.8 Hrs, Battery Saver Off, TX Low Power	8.3 Hrs, Battery Saver On, TX High Power 11.5 Hrs, Battery Saver On, TX Low Power 6.2 Hrs, Battery Saver Off, TX High Power 7.9 Hrs, Battery Saver Off, TX Low Power	12.0 Hrs, Battery Saver On 8.1 Hrs, Battery Saver Off		
Battery Life @ 90/5/5 Duty Cycle w/ High capacity battery pack (1500 mAh):	14.0 Hrs, Battery Saver On, TX High Power 21.7 Hrs, Battery Saver On, TX Low Power 10.7 Hrs, Battery Saver Off, TX High Power 14.7 Hrs, Battery Saver Off, TX Low Power	15.5 Hrs, Battery Saver On, TX High Power 21.6 Hrs, Battery Saver On, TX Low Power 11.6 Hrs, Battery Saver Off, TX High Power 14.8 Hrs, Battery Saver Off, TX Low Power	22.6 Hrs, Battery Saver On 15.2 Hrs, Battery Saver Off		
Dimensions:	4.75"H x 2.2"W x 1.43"D	4.75"H x 2.2"W x 1.43"D	4.75"H x 2.2"W x 1.43"D		
Weight:	11.5 oz. with battery pack	11.5 oz. with battery pack	11.5 oz. with battery pack		
Enclosure Material:	Lexan Polycarbonate	Lexan Polycarbonate	Lexan Polycarbonate		
Antenna Fitting:	1/4" - 32 x 1/4" threaded	1/4" - 32 x 1/4" threaded	1/4" - 32 x 1/4" threaded		
Earphone Jack:	3.5 mm, disconnects the internal speaker for external earphone, speaker/microphone, or headset. Also provides cable connection for PC programming.	3.5 mm, disconnects the internal speaker for external earphone, speaker / microphone, or headset. Also provides cable connection for PC programming.	3.5 mm, disconnects the internal speaker for external earphone, speaker/microphone, or headset. Also provides cable connection for PC programming.		
Microphone/PTT/Chg Jack:	2.5 mm, for external speaker/microphone, headset or RITRON model BC-A wall charger.	2.5 mm, for external speaker/microphone, headset or RITRON model BC-A wall charger.	2.5 mm, for external speaker/microphone, headset or RITRON model BC-A wall charger.		
<b>TRANSMITTER</b>					
RF Power Output:	Programmable per channel for high or low power	Programmable per channel for high or low power	2 Watt @ +7.2 VDC		
High:	4 Watt @ +7.2 VDC	3 Watts @ +7.2 VDC			
Low:	1 Watt	1.5 Watt			
Emission Designator:	Wide Mode    Narrow Mode 16K0F3E    11K0F3E	Wide Mode    Narrow Mode 16K0F3E    11K0F3E	Wide Mode    Narrow Mode 16K0F3E    11K0F3E		
Deviation:	+/- 5.00 kHz    +/- 2.50 kHz	+/- 5.00 kHz    +/- 2.50 kHz	+/- 5.00 kHz    +/- 2.50 kHz		
FM Hum and Noise:	-46 dB    -40 dB	-40 dB    -37 dB	-40 dB    -37 dB		
Audio Distortion:	< 3%    < 6%	< 2%    < 6%	< 2%    < 6%		
Spurious & Harmonics:	-60 dBc	-55 dBc	-55 dBc		
Audio Response:	Meets FCC and EIA requirements	Meets FCC and EIA requirements	Meets FCC and EIA requirements		
Time-out Timer:	60 seconds, programmable	60 seconds, programmable	60 seconds, programmable		
<b>RECEIVER</b>					
Modulation Acceptance:	Wide band    Narrow band (model SST-144D-N only)	Wide band    Narrow band	Wide band    Narrow band		
Sensitivity: (12 dB SINAD)	+/- 7.0 kHz    +/- 3.75 kHz	+/- 7.0 kHz    +/- 3.75 kHz	+/- 7.0 kHz    +/- 3.75 kHz		
Adjacent Channel (EIA):	< 0.25 uV    < 0.25 uV	< 0.25 uV    < 0.25 uV	< 0.25 uV    < 0.25 uV		
Spurious Rejection:	-70 dB    -60 dB	-65 dB    -50 dB	-65 dB    -50 dB		
Image Rejection (EIA):	-70 dB    -70 dB	-60 dB    -60 dB	-60 dB    -60 dB		
Intermodulation (EIA):	-70 dB    -70 dB	-65 dB    -65 dB	-65 dB    -65 dB		
Noise Squelch Sensitivity:	-65 dB    -60 dB	-65 dB    -65 dB	-65 dB    -65 dB		
Frequency Response:	Programmable per channel, factory set for 12 dB SINAD	Programmable per channel, factory set for 12 dB SINAD	Programmable per channel, factory set for 12 dB SINAD		
Audio Output Receiving:	300 - 3000 Hz, de-emphasized	300 - 3000 Hz, de-emphasized	300 - 3000 Hz, de-emphasized		
System:	1 Watt into 8 ohms, with less than 5% THD @ the earphone jack	1 Watt into 8 ohms, with less than 5% THD @ the earphone jack	1 Watt into 8 ohms, with less than 5% THD @ the earphone jack		
I. F. System:	Dual conversion superheterodyne	Dual conversion superheterodyne	Dual conversion superheterodyne		
L.O. Injection:	1st - 43.65 MHz, 2nd - 450 kHz	1st - 43.65 MHz, 2nd - 450 kHz	1st - 43.65 MHz, 2nd - 450 kHz		
	High side	Low side	Low side		



VHF/UHF Wireless 2-Way Radio Callboxes



VHF/UHF 2-Way Base Station/Wireless Intercom



Compact UHF Liberty Repeater for Enhanced On-site Communications



VHF/UHF Wireless Voice Alarm Reporter Provides 24/7 Monitoring

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Your Ritron Dealer:



Go Beyond Normal Limits...™



visit us at [www.ritron.com](http://www.ritron.com)

Ritron Inc. P. O. Box 1998 Carmel, IN 46082  
800-USA-1-USA (800-872-1-872) • Fax: 317-846-4978  
email: [ritron@ritron.com](mailto:ritron@ritron.com)

©2002 All rights reserved. Ritron, Quiet Call, & Quick Assist are registered trademarks of Ritron, Inc. Quick Talk is a trademark of Ritron, Inc. All specifications subject to change without notice.