

SST Series

SST-150
SST-450

150-160 MHz
450-470 MHz

PATRIOT[®]
BY RITRON

ULTRA COMPACT SIZE

At only 4.75 inches tall and weighing just 11.5 oz. with the battery, the Patriot SST radio is one of the smallest portable two-way radios in the world.

LOW PROFILE PUSH BUTTON CONTROLS

Easy-to-locate controls on the top and side make operation efficient and simple.

BUILT-IN CODED SQUELCH CAPABILITY

Includes Ritron's Quiet Call feature, giving the radio the ability to block out other users on the channel.

2 CHANNEL/MULTIPLE MODE OPERATION

Can be programmed in a variety of configurations to meet a wide range of communication needs.

SYNTHESIZED, FIELD PROGRAMMABLE

Enables quick dealer programming of channel frequencies, Quiet Call privacy codes (CTCSS) and other characteristics of the radio.

LOW DISTORTION CONDENSER MICROPHONE

Provides high-quality transmitted audio.

RUGGED CONSTRUCTION

"Uni-Body" design and tough, impact resistant polycarbonate housing provide excellent durability.

VERSATILE AUDIO ACCESSORY JACKS

Allows use of optional audio accessories for use in high-noise environments or other special applications. Accessories include remote speaker/microphones, headsets or an earphone.

PROTECTIVE COVER FOR AUDIO ACCESSORY JACKS

Seals audio accessory jacks from dust and dirt when not in use.

HIGH-EFFICIENCY SPEAKER

Delivers excellent received audio quality and clarity with plenty of volume for noisy environments.

2 WATT TRANSMITTER

Plenty of talk power for portable-to-portable and/or repeater system applications.



**THE ULTRA COMPACT SST TWO-WAY RADIO.
WHEN YOU'RE SMALL YOU GOTTA BE TOUGH.**

FEATURES

STANDARD ACCESSORIES. Each Patriot SST radio comes with an 800 mA/H rechargeable battery, 6" antenna and detachable 2" belt clip.

SMALL AND LIGHTWEIGHT. Unique ergonomics, extremely small size and very light-weight work together to create a radio that is comfortable to hold, operate and carry.

DESIGNED TO WITHSTAND SHOCK AND VIBRATION. The Patriot SST radio has been subjected to rigorous controlled tests simulating years of heavy use.

2 CHANNEL/MULTI-MODE CAPABILITY. The VHF radio may be programmed with 2 simplex channels or 1 repeater channel and talk-around. The UHF radio may also be programmed with 2 simplex channels or a maximum of 2 repeater channels with talk-around for each. Both models will accept up to 2 Quiet Call codes.

FREQUENCY CAPABILITY. The radio may be programmed to operate on any 2 of the 18 specific frequencies stored in its microcontroller memory. The radio may also be PC programmed to any other 2 frequencies within the operating band and channel spacing of the radio.

EASY FIELD PROGRAMMING. Programming is easy using either a PC compatible computer and Ritron Programming Software or via the PTT button.

PROGRAMMABLE FEATURES. Channel TX/RX Frequencies. Quiet Call Codes. Transmit Time-Out Timer. Battery Saver. Quiet Call Encode Only. Transmit Activate Beep. Local/Distance Squelch. Monitor Lockout. TX Inhibit. 4 Hour Inactive Turn-off.

CONTROLS. Low Profile, push button controls increase reliability while practically eliminating damage from bangs or drops. Fast and efficient operation is ensured by providing the user with positive tactile and/or audible feedback upon proper activation of each of the controls.

BATTERY SAVER FEATURE. Microcontroller temporarily turns off certain circuits of the radio when they are not in use to extend the time between charging.

DEAD BATTERY ALERT. Radio automatically alerts user with a short beep when battery requires charging and turns the radio off.

WEATHER SCAN (VHF ONLY). The VHF radio will scan all U.S. National Weather Service frequencies to enable monitoring of the latest forecast and current weather conditions.

VARIETY OF CHARGERS. For convenient drop-in charging a single well, dual rate 1 hour smart charger is available. For standard rate overnight charging only, a wall charger is available which plugs directly into the radio.

ACCESSORIES



REMOTE SPEAKER/MICROPHONES

Remote/speaker microphone with lapel clip.

EARPHONE

Features a 6 foot cord and right angle plug.

HEADSETS

A single or dual ear headset with boom microphone and in-line PTT allows use of the radio without removing it from the belt.

CARRYING HOLSTERS

Durable holster with belt loop protects the radio and provides carrying convenience.

SINGLE UNIT FAST CHARGER

1 Hour Smart Charger. 3 color LED indicates fast charging, charging complete or trouble. Available in 110V or 220V.

ANTENNAS

Optional low profile 3" antennas are available for both VHF and UHF. For best coverage the standard 6" antenna is recommended.

BELT CLIP

Tough, injection molded 2" belt clip. Comes standard with each radio.

SPECIFICATIONS

GENERAL	VHF	UHF	TRANSMITTER	VHF	UHF
Model No.	SST-150	SST-450	RF Power Output:	2.25 Watts Typical, 2.0 Watts Minimum	2.0 Watts Typical, 1.75 Watts Minimum
FCC ID:	AIERIT01-150	AIERIT01-450	Modulation:	16KOF3E +/-5KHz Deviation	Same
FCC Rule Parts:	22, 74, 90	22, 74, 90, 95	Spurious & Harmonics:	-55 dB	Same
Frequency Range:	150 to 155 MHz 155-160 MHz Optional	460-470 MHz 450-460 MHz Optional	Audio Response:	Meets FCC & EIA Requirements.	Same
Frequency Separation:	5 MHz Maximum	10MHz Maximum	FM Hum Noise:	Better than -40 dB	Same
RF Channels:	2 TX/RX Channels	2 TX/RX Channels & 5 MHz repeater for each	Audio Distortion:	< 3%	Same
Frequency Steps:	5 KHz	12.5 KHz	Time-Out Timer:	Can be programmed for fixed 30 seconds.	
Frequency Stability:	+/- 5 ppm (-30 C to + 60 C)	Same	RECEIVER	VHF	UHF
Code Signaling	CTCSS (Quiet Call) 51 Codes		Receiving System:	Dual conversion, super heterodyne	
Power Supply:	7.5 VDC, Rechargeable Battery Pack, 800 mA/H		I.F. System:	10.7 MHz/455 KHz	21.4 MHz/455 KHz
Battery Drain:			L.O. Injection:	Low Side	Same
Standby:	50 mA	Same	Sensitivity (12 db SINAD):25µV Maximum	.30µV Maximum
Standby w/ Battery Saver:	8 mA	Same		.20µV Typical	.25µV Typical
Receive:	125 mA	Same	Selectivity (EIA):	-65 dB @ 30 KHz	-65 dB @ 25 KHz
Transmit:	950 mA	800 mA	Spurious Rejection (EIA):	-65 dB	Same
Battery Life (650 mA/H pack):	11.5 Hours with Battery Saver at 90-5-5 duty cycle	12.9 Hours with Battery Saver at 90-5-5 duty cycle	Image Rejection (EIA):	-50 dB	-35 dB
Dimensions:	4.75"H x 2.2"W x 1.43"D	Same	Intermodulation (EIA):	-65 dB	Same
Volume:	14.94 cu. in.	Same	Modulation Acceptance:	+/- 7.5 KHz Maximum	Same
Weight:	11.5 ounces (with battery pack)	Same	Audio Output:	750 mW into 8 Ohms with <5% THD	
Earphone Jack:	3.5 mm, disconnects internal speaker for external earphone, speaker/microphone or headset. Also provides cable connection for PC programming.		YOUR LOCAL DEALER IS:		
Mic/PTT/Charge Jack:	2.5 mm, for external speaker/microphone, headset or RITRON wall charger.				
Push Button Controls:	On/Volume Up, Volume Down/Off, PTT, Channel				
Enclosure Materials:	Lexan Polycarbonate	Same			
Warranty:	One Year	Same			



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*Radio on front is shown with optional low profile UHF antenna.

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