maxon

trunking/conventional **SP-150 Series**

VHF / UHF portables

Push, Talk, Listen...

Maxon's SP-150 Series combines the benefits of LTR® trunked operation with a feature-rich, high performance portable.

With multiple scan options, programmable audio levels and a high capacity battery, this reliable radio will make communicating in your World very simple. Just push, talk and listen.

LTR® Trunked / Conventional operation

Up to 16 combined Trunked Systems / Groups
20 Trunked repeater channels / System
16 Conventional channels

Built-in security features

Password protection keeps the radio from being reprogrammed by unauthorized users

Embedded messaging makes it easy to identify a radio if lost or stolen

Programmable ANI encoding and 2-tone decoding

Locking accessory connector

Maintains a secure connection between your radio and the accessory during demanding use

Enhanced audio performance

700 mW Output keeps you in contact, even in high noise environments

Scan list editing

Increases your efficiency by allowing you to add or eliminate channels from the radio scan sequence

Two programmable option buttons

Provide customized radio functions and operation

Flash programming capability

Allows your radio to be upgraded with software and feature enhancements as they become available

SP-150 Series

maxon®

specifications

general

	VHF model SP-150V	UHF model SP-150U
Frequency Range	V2: 148-174 MHz	U2: 440-470 MHz
Channels		
Conventional	16	16
Trunked	Up to 16 systems / combined	
Channel Spacing	30 / 25 / 15 / 12.5 kHz	
PLL Step	5.0 / 6.25 kHz	5.0 / 6.25 kHz
Channel Spread	26 MHz	30 MHz
Antenna Impedance	50 Ω	50 Ω
Operating Voltage	7.2V DC Nominal	7.2V DC Nominal
Battery Life (with 1400 mAh NiMH battery)	>8 Hours @ 5 W (90-5-5 duty cycle)	
Operating Temperature	-22° F to +140° F (-30° C to +60° C)	
Frequency Stability (-30° C to +60° C)	± 2.5 ppm	± 2.5 ppm
Dimensions (H x W x D) (with battery)	5-9/16" x 2-1/4" x 1-7/16" (141 x 57 x 37 mm)	
Weight (with battery, antenna)	1 lb., 5oz. (467 gm)	
FCC Identifier	F3JSP150V2	F3JSP150U2
FCC Compliance	Parts 22, 74, 90 90.210	Parts 22, 74, 80, 90, 90.210, 95A
Canada Certification Number	3772195696A	3772195388

receiver (measurement procedures made per ANSI/TIA/EIA-603)

Sensitivity 12 dB SINAD	.25 μV	.25 μV
Selectivity	>60 dB @ 12.5 kHz; >70 dB @ 25 kHz	
Intermodulation	67 dB @12.5 kHz; 67 dB @ 25 kHz	
Spurious Response	75 dB	75 dB
Audio Output	1W (Int.) @ 16 Ω; 1W (Ext.) @ 16 Ω (Method @ <5% THD level)	

transmitter (measurement procedures made per ANSI/TIA/EIA-603)

RF Output	5 Watts or 1 Watt (programmable per channel)	
Spurious and Harmonic Emissions	65 dB	65 dB
Modulation	16K0F3E,11K0F3E	16K0F3E, 11K0F3E, 16K0G3E
FM Hum and Noise	35 dB @ 12.5 kHz; 40 dB @ 25 kHz	
Audio Distortion	2%	2%

Specifications are subject to change without notice.

features / functions

- LTR Trunked and conventional operation
- Programmable 1 or 5 Watt per-channel RF power
- Built-in password protection and embedded messaging
- 12-Pin locking accessory connector
- Enhanced audio output (700 mW)
- Two programmable option buttons
- High / Low programmable power settings
- Programmable ANI encoding and 2-tone decode per system (Conv.)
- Programmable functions include: wide or narrow channel spacing, multiple scan modes, scan list editing
- CTCSS / DCS Signaling (Conventional)
- Talk-around operation
- Look back channel
- Busy channel lockout
- Busy System queuing
- Time-out-timer
- Tri-color LED
- Meets MIL-STD810C, D and E specifications
- Manufactured under ISO 9002 quality standards
- FCC Certified for use in U.S.A. and its possessions and Canada Approved for sale / use in Canada

BVQi ISO 9002 Certification

Quality assurance program

accessories / options

Battery: 1400 mAh NiMH Battery (MPA-1400H)

Antenna: VHF Antenna, 5-1/2", 150-162 MHz, stud-mount (ACC-101VLB); VHF Antenna, 5-1/2", 162-174 MHz, stud-mount (ACC-101VB); UHF Antenna, 3-1/2", 440-470 MHz, stud-mount (ACC-104UW)

Chargers: 6-Station gang charger assembly kit accepts QPA-1130 or QPA-1135 chargers - sold separately (ACC-405); Vehicular dual slot / dual rate rapid charger (ACC-406); 6-Station gang charger with QPA-1130 chargers (ACC-430); 6-Station gang charger with QPA-1135 chargers (ACC-435); Dual slot / dual rate desktop charger (QPA-1130); Single unit desktop charger (QPA-1135)

Audio: Speaker microphone with locking connector (ACC-701)

Carrying: Leather case with swivel (QPA-1491); Nylon case with belt clip (QPA-1495); Spring loaded belt clip (550-070-2000)

MIL-STD methods / procedures

The SP-150 Series meets the following:

Standard	810C Method / Procedure	810D/E Method / Procedure
Low Pressure	500.1 / Proc. I	500.2/3 / Proc. I
High Temperature	501.1 / Proc. I	501.2/3 / Proc. I
Low Temperature	502.1 / Proc. I	502.2/3 / Proc. I
Temperature Shock	503.1 / Proc. I	503.2/3 / Proc. I
Solar Radiation	505.1 / Proc. I	505.2/3 / Proc. I
Rain	506.1 / Proc. I	506.2/3 / Proc. I
Humidity	507.1 / Proc. II	507.2/3 / Proc. II
Salt Fog	509.1 / Proc. I	509.2/3 / Proc. I
Dust	510.1 / Proc. I	510.2/3 / Proc. I
Vibration	514.2 / Proc. VIII	514.3/4 / Proc. I CAT.10
Shock	516.2 / Proc. I	516.3/4 / Proc. I, IV

For more information, contact:

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