



SP-120 SERIES

**SYNTHESIZED,
FULLY PROGRAMMABLE,
SCANNING PORTABLE**

- 4 Channels
- 2 Watts RF power
- Multiple scan functions
- Wideband frequency separation
(VHF: 148-174 MHz, UHF: 440-470 MHz)
- Back mount battery pack
- CTCSS/DCS Signaling
- Synthesized and PC programmable
- Single printed circuit board design
- Battery save circuitry
- Busy channel lockout
- Time-out timer

The SP-120 Series synthesized scanning portable radios are manufactured under ISO 9001 quality standards. Maxon's commitment to quality is acknowledged worldwide and is a part of every product we manufacture. Our factory has been awarded the following certifications: ISO 9001, EN 29001 and KS A9001.

ACCESSORIES / OPTIONS

- | | |
|---------------------|---|
| QPA-700 | 700 mAh Ni-Cd Battery pack |
| QPA-1200 | 1200 mAh Ni-Cd Battery pack |
| CA-2503 | VHF Stubby antenna |
| CA-2506 | VHF Antenna |
| CA-5502 | UHF Stubby antenna |
| CA-5506 | UHF Antenna |
| CA-1410C | Wall type charger (110V AC) |
| CA-2510-2 | Wall type charger (220V AC) |
| QPA-1130 | Dual slot/dual rate "smart" desktop charger |
| QPA-1135 | Pedestal charger |
| QPA-1421 | Speaker/microphone with angled connector |
| QPA-1422 | Deluxe speaker/microphone with angled connector |
| QPA-1423 | 2 Wire palm microphone |
| QPA-1424 | Coil-cord earphone (for use with QPA-1422) |
| QPA-1480 | Voice operated/P-T-T mini-VOX control and headset |
| QPA-1491 | Leather case w/swivel |
| QPA-1495 | Nylon case |
| 550-070-2000 | Spring loaded belt clip |

SPECIFICATIONS

GENERAL	VHF MODEL SP-120V	UHF MODEL SP-120U
FCC Identifier	F3JPIOV	F3JPIOU
IC Certification Number	153 203 244	153 203 245
FCC Compliance	Parts 22, 74, 90	Parts 22, 74, 90, 95
Frequency Range	148-174 MHz	440-470 MHz
Channels	4 (Programmable in 5 kHz steps)	4 (Programmable in 6.25 kHz steps)
Channel Spacing	25 kHz (Programmable per channel)	
Frequency Stability (-30° C to +60° C)	± 0.0005%	± 0.0005%
Battery	Ni-Cd 7.5V DC	Ni-Cd 7.5V DC
Battery Life (w/700 mAh battery)	> 8 Hours @ 2W	
(w/1200 mAh battery)	> 14 Hours @ 2W	
Operating Temperature	-22° F to +140° F (-30° C to +60° C)	
Dimensions (H x W x D) (with battery)	5-9/16" x 2-1/4" x 1-11/16" (141 x 57 x 43 mm)	
Weight (w/700 mAh battery)	15 oz. (425 gm)	15 oz. (425 gm)
(w/1200 mAh battery)	17 oz. (482 gm)	17 oz. (482 gm)
Materials	Die cast chassis, polycarbonate case	

TRANSMITTER (measurement procedures made per TIA/EIA-603)

RF Output	2 Watts	2 Watts
Channel Spread	26 MHz	30 MHz
Spurious and Harmonic Emissions	-60 dBc	-60 dBc
Modulation	16KOF3E	16KOF3E
FM Hum and Noise	-40 dB	-40 dB
Audio Distortion	<3% at 1 kHz	<3% at 1 kHz

RECEIVER (measurement procedures made per TIA/EIA-603)

Sensitivity		
12 dB SINAD	.28 µV	.31 µV
20 dB Quieting	.5 µV	.5 µV
Selectivity	>-65 dB	>-65 dB
Channel Spread	26 MHz	30 MHz
Intermodulation	-60 dB	-60 dB
Spurious and Image Rejection	-60 dB	-60 dB
Audio Output	450 mW	450 mW
FM Hum and Noise	-40 dB	-40 dB

Specifications are subject to change without notice.

The SP-120 Series Radios are FCC certified for use in U.S.A. and its possessions and IC approved for sale in Canada. Please ask your Maxon Dealer for additional information.

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A World of Communications

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