



## SP-130 & SP-140 SERIES

**SYNTHESIZED,  
FULLY PROGRAMMABLE,  
SCANNING PORTABLES**

- **SP-130: 4 Channels, SP-140: 16 Channels**
- **5/1 Watts programmable RF power**
- **Meets MIL-STD 810 C, D and E specifications**
- **Wideband frequency operation**  
(VHF: 148-174 MHz, UHF: 440-470 MHz)
- **Multiple scan functions**
- **CTCSS/DCS Signaling**
- **Synthesized and PC programmable**
- **Single printed circuit board design**
- **Battery save circuitry**
- **Busy channel lockout**
- **Time-out timer**
- **Back mount battery pack**
- **Spring-loaded belt clip**

The SP-130 and SP-140 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

<b>MPA-1200</b> <b>CA-2503</b> <b>CA-2506</b> <b>CA-5502</b> <b>CA-5506</b> <b>QPA-1130</b> <b>QPA-1135</b> <b>QPA-1422</b> <b>QPA-1423</b> <b>QPA-1424</b> <b>QPA-1480</b> <b>QPA-1491</b> <b>QPA-1495</b> <b>550-070-2000</b>	1200 mAh Ni-Cd Battery pack VHF Stubby antenna VHF Antenna UHF Stubby antenna UHF Antenna Dual slot/dual rate "smart" desktop charger Pedestal charger Deluxe speaker/microphone 2 Wire palm microphone Coil-cord earphone (for use with QPA-1422) Voice operated/P-T-T mini-VOX control and headset Leather case w/swivel Nylon case Spring-loaded belt clip
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### SPECIFICATIONS

GENERAL	VHF MODEL SP-130V / SP-140V	UHF MODEL SP-130U / SP-140U
FCC Identifier	F3J130-140V2	F3J130-140U2
IC Certification Number	153 195 280A	153 195 281A
FCC Compliance	Parts 22, 74, 80, 90	Parts 22, 74, 90, 95
Frequency Range	148-174 MHz	440-470 MHz
Channels	4 / 16 (Programmable in 5 kHz steps)	4 / 16 (Programmable in 6.25 kHz steps)
Channel Spacing	12.5 or 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	>8 Hours @ 5W	>8 Hours @ 5W
Operating Temperature	-22° F to +140° F (-30° C to +60° C)	
Dimensions (H x W x D) (w/battery)	5-9/16" x 2-1/4" x 1-7/16" (141 x 57 x 37 mm)	
Weight (w/battery)	16.4 oz. (465 gm)	16.4 oz. (465 gm)
Materials	Die cast chassis, polycarbonate case	

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

RF Output	5/1 Watts programmable per channel	
Channel Spread	26 MHz	30 MHz
Spurious and Harmonic Emissions	-60 dBc	-60 dBc
Modulation	16K0F3E, 11K0F3E	16K0F3E, 11K0F3E
FM Hum and Noise	-40 dB	-40 dB
Audio Distortion	<5% at 1 kHz	

#### RECEIVER (measurement procedures made per ANSI/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	-65 dB	-65 dB
Spurious and Image Rejection	-70 dB	-70 dB
Audio Output	450 mW	450 mW
FM Hum and Noise	-40 dB	-40 dB

Specifications are subject to change without notice.

The SP-130 and SP-140 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.

### MIL-STD SPECIFICATIONS

The SP-130 and SP-140 Series has been tested and approved for the following MIL-STD methods and procedures:

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

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**Maxon America, Inc. • Business Radio Division**  
**10828 NW Air World Drive, Kansas City, Missouri 64153**  
**816/891-6320, Ext. 699 • Fax: 816/891-8815**  
**e-mail: market@maxonusa.com • www.maxonusa.com**