



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

| | |
|---------------------|---|
| MPA-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 |
| QPA-1130 | Dual slot/dual rate "smart" desktop charger |
| QPA-1135 | Pedestal charger |
| QPA-1422 | Deluxe speaker/microphone |
| 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-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 | <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 |

maxon®

A World of Communications

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

P/N: 680-120-0075 Rev. A