

# maxon

## *Professional Two-Way Radio*

***SP-7102 - 5/1 Watt VHF Portable Series***

***SP-7402 - 4/1 Watt UHF Portable Series***

### ***Small Size - Feature Powerful***

#### ***Features:***



- 255 Channel (Dynamic Grouping up to 16)
- 12.5 or 25 kHz Channel Bandwidth
- CTCSS/DCSS Encode/Decode
- 7 Programmable Controls – Up to 13 Separate Functions
- 8 Character Alpha Numeric Display – Channel Alias
- Voice Actuated Transmitter (VOX)
- Compandered Audio
- Inversion Scrambler
- Keypad Lock – Password Protection
- 2-Tone Encode/Decode, 5-Tone Encode/Decode (Selcall)
- DTMF Encode/Decode, ANI
- Call, Emergency Button
- Lone Worker Alert Feature
- Multiple Scan Modes
- 4 Preselect Memory Channel Buttons
- Nuisance Channel Delete
- Repeater Talk Around
- PC Programmable
- Radio to Radio Cloning (Cable or Wireless)
- Busy Channel Lockout
- Time Out Timer/Tx Inhibit
- Battery Power Save, Battery Life 9/12 hr, Hi/Lo Pwr
- Li-Polymer 1500 mAh Battery
- Polycarbonate Cabinet, Aluminum Diecast Chassis
- Locking Accessory Connector
- Meets Mil Std 810F – IP54



# Professional Two-Way Radio SP-7102 and SP-7402 Series

Preliminary Information

## Specifications

### GENERAL

|                    |  |
|--------------------|--|
| SP-7102            | 148-174 MHz  |
| SP-7402            | 400-470 MHz  |
| Channel Bandwidth  | 25/12.5 kHz  |
| PLL Channel Step   | 2.5 kHz, 5 kHz, 6.25 kHz                           |
| Power Requirement  | 7.5 V DC   |
| Current Drain      | Tx Hi: 1.8A, Tx Lo: 1A<br>Rx 250 mA, Stby 120 mA   |
| Battery Life (hrs) | 9@5W, 12@1W  |
| Temperature Range  | -22° to 140° F, -30° to +60° C                     |
| Dimension (H/W/D)  | 4.7 X 2.1 X 1.3 inches                             |
| Weight             | 9.9 oz with battery                                |
| Environment        | Meets Mil Std 810F/IP54                            |
| Construction       | Poly-carbonate Cabinet<br>Aluminum Diecast Chassis |
| Accessory Jack     | Two pin, 3.5mm, 2.5mm                              |

Manufactured to ISO-9001:2000 standard.



### Transmitter

|                     |   |
|---------------------|---|
| Output Power        | 5/1 Watt VHF, 4/1 Watt UHF                        |
| Max. Freq Deviation | 2.5 kHz, 5 kHz                                    |
| Frequency Error     | <3 ppm  |
| Spurious Emissions  | -60 dB  |
| Adjacent Channel    | -60 dB (ETS; 12.5 kHz)<br>-70 dB (ETS; 25/30 kHz) |
| FM Hum & Noise      | -40 dB@12.5 kHz<br>-45 dB@25 kHz                  |
| Harmonic Distortion | <5% @ rated modulation                            |

### Receiver

|                     |                         |
|---------------------|-------------------------|
| Sensitivity         | .25 uV (12dB SINAD)     |
| Adjacent Ch Reject. | -50/60 dB @ 12.5/25 kHz |
| Spurious Response   | -60 dB                  |
| Intermodulation     | -60 dB                  |
| Audio Output        | 500 mW                  |

## Accessories

- Dual unit desktop charger - fast rate
- Li-Polymer 1500 mAh battery
- PC Programming Cable
- Cloning Cable
- Small speaker mic with PTT, audio jack
- Standard speaker mic with PTT, audio jack
- Acoustic ear mic with lapel PTT/mic
- Earhook speaker with lapel PTT/mic
- Earhook speaker w boom mic in-line PTT

### FCC / Industry Canada

|         |           |             |
|---------|-----------|-------------|
| SP-7102 | RXUSP7102 | 153B-SP7102 |
| SP-7402 | RXUSP7402 | 153B-SP7402 |

## Standard Package

Radio Unit with battery, belt clip, antenna.  
Rapid Rate Charger with power supply.

## Contact Information



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