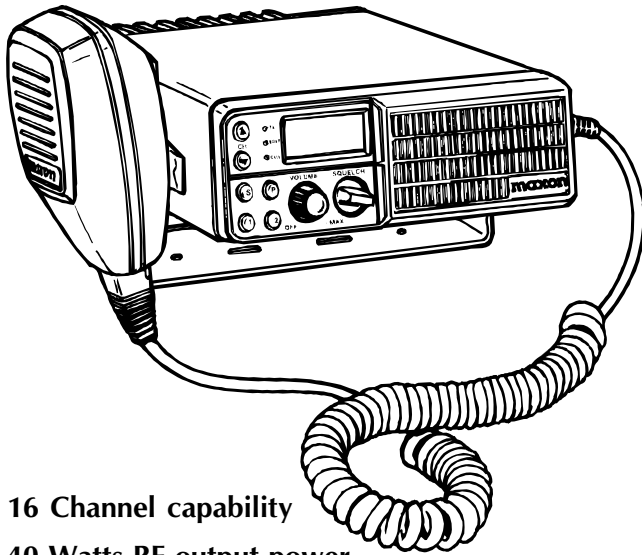


SM-4000 SERIES SCANNING MOBILES



- **16 Channel capability**
- **40 Watts RF output power**
- **Channel scan and dual level priority scan modes**
- **Last channel and options recall** automatically returns radio to previous settings and last channel used
- **Channel delete** allows easy modification to scan list
- **Vacuum fluorescent channel display and LED radio status indicators**
- **Time-out timer** prevents repeater lock-up and excessive radio transmissions
- **CTCSS/DCS Tone signaling** provides private radio conversations
- **Narrow CTCSS bandwidth** improves clarity of message and reduces adjacent channel noise
- **Illuminated front-mounted buttons** permit channel selection and advise user of active radio functions
- **Designed to meet MIL-STD 810 C, D, and E specifications**

The SM-4000 Series synthesized scanning mobile 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

AA-1470	Heavy duty remote speaker
MA-4472	Heavy duty mobile microphone
MB-4000	Base station microphone
MS-0730	Power supply (110V AC, 10 Amp, 50% duty)

SPECIFICATIONS

	VHF MODEL SM-4150	UHF MODEL SM-4450
GENERAL		
Frequency Range	M: 150-165 MHz H: 160-174 MHz	C: 450-470 MHz
Channels	16	16
Channel Spacing	25 kHz (Programmable in 5 kHz steps)	25 kHz (Programmable in 6.25 kHz steps)
Frequency Stability (-30° C to +60° C)	+/- 0.0005%	+/- 0.0005%
Standard Signaling Formats	CTCSS, DCS Encode & decode (selectable by channel)	
Power Source	13.8V DC Negative ground	
Current Drain	.15 A Standby; 0.5 A receive; 8 A transmit	
Circuit Protection	10 Amp fuse	10 Amp fuse
Operating Temperature	-22° F to +140° F (-30° C to +60° C)	
Dimensions (H x W x D)	2" x 6" x 8.25" (51 x 152 x 210 mm)	
Weight (with microphone)	4 lbs., 3 oz. (1.9 Kg)	
Case Material	Die-cast aluminum	
FCC Compliance	Parts 15, 22, 74, 90	Parts 15, 22, 74, 90, 95
FCC Identifier	M: F3J9QLSM4150 H: F3JSM415H	C: F3JSM445C
IC Certification Number	M: 153 193 331I H: 153 193 492I	C: 153 194 100I

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

RF Output	40 Watts (adjustable)	
RF Output Impedance	50 Ohms	50 Ohms
Channel Spread	10 MHz	20 MHz
Spurious and Harmonic Emissions	-70 dB	-70 dB
Modulation	16K0F3E	16K0F3E
FM Hum and Noise	-45 dB Nominal	-45 dB Nominal
Audio Distortion	<3% at 1 kHz	<3% at 1 kHz

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

RF Input Impedance	50 Ohms	50 Ohms
Sensitivity (3 dB degradation at band edges)		
12 dB SINAD	.30 µV	.35 µV
20 dB Quieting	.50 µV	.50 µV
Selectivity	-80 dB	-80 dB
Channel Spread (13 MHz with < 3 dB degradation)	10 MHz	10 MHz
Intermodulation	-75 dB	-75 dB
Modulation Acceptance Bandwidth	±7.5 kHz	±7.5 kHz
Spurious and Image Rejection	≤80 dB	≤80 dB
Audio Output (@< 10% distortion into 4 Ohm load)	5 Watts	5 Watts
FM Hum and Noise	-45 dB Nominal	-45 dB Nominal

Specifications are subject to change without notice.

The SM-4000 Series Mobiles 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.

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: 680-120-0057 Rev. B