

Maxon SL55 HANDPORTABLE

maxon



FEATURES

- **Meets Military Standards**
- **Simple Operation**
- **Full Scanning Features**
- **Rugged Construction**
- **All Features PC Programmable**
- **Moulded polycarbonate case**
- **Wide range of Accessories**
- **Voice Privacy Upgrades**

Designed with the professional users in mind, the rugged SL55 is packed with features which give immediate benefits to any organisation using portable radio to maximise operational efficiency.

The design is both compact and stylish so the radio can easily be carried by anyone. A high capacity battery as standard ensures continued performance throughout today's longer working shifts.

The SL55 is controlled by a sophisticated microprocessor which makes the radio remarkably simple to use. However, simplicity does not mean featureless - the SL55 retains all the features expected of a high quality professional radio such as scanning, CTCSS, synthesised channels, programmable output power and battery save modes.

GENERAL

Performance Specifications

CE0168

Band	R&TTE Directive 1999/5/EC VHF (V1): 136-162 MHz VHF (V2): 146-174 MHz UHF (U1): 400-430 MHz UHF (U2): 440-470 MHz
Number of Channels	16
Channel Spacing	12.5kHz, 20kHz, 25kHz (Programmable per channel)
Operation	Half Duplex
Antenna Impedance	50 Ohm, Stud
Tone Sets	CTCSS/DCS encode/decode
Power Supply	7.5V dc nominal
Current Consumption	OFF: <10mA <30mA Standby (muted) with battery save ON <65mA Standby (muted) with battery save OFF <500mA Unmuted with 100% AF power
Battery Life	<2.4A Transmit@5W RF Output >10.5 hrs @ 1W with 1200mAh battery pack Intermittant 90:5:5 (Standby: RX: TX)
Weight	450g with standard battery
Physical Dimensions	159(H) x 62(W) x 45(D)

TRANSMITTER

RF Output Power	1-5W (Programmable hih/low)
Spurious and Harmonics (conducted):	Below 1GHz: Better than -36dBm Below 4GHz: Better than -30dBm
Modulation	G3E (PM)
Hum and noise (residual modulation):	12.5kHz: Better than 40dB (with PSOPH)
Microphone sensitivity	13mV +/- 7mV p-p @1kHz peak system deviation
Transmitter Audio distortion	<8% nominal
Load Stability	No oscillation at 10:1 VSWR No damage at 20:1 VSWR
Adjacent Channel Power:	12.5kHz: Better than 60dB 20kHz: Better than 70dB 25kHz: Better than 70dB nominal
Frequency error:	VHF: Better than 0.5kHz UHF: Better than 0.75kHz

RECIEVER

Receiver Sensitivity	UHF: Better than -117dBm VHF: Better than -118dBm
Adjacent channel selectivity:	12.5kHz: Better than 60dB 20kHz: Better than 70dB 25kHz: Better than 70dB
Spurious response rejection:	Half IF response: Better than 70dB
Intermodulation response rejection:	+/- 25/50kHz: 65dB +/- 50/100kHz: 65dB
RX Spurious Emissions (conducted):	9kHz - 1GHz: Better than -57dBm 1GHz - 4GHz: Better than -47dBm
Audio Power Output:	450mW max (8 Ohm external speaker) 800mW min <10% THD @1W 2ohm internal speaker
Interface Connector:	Dual 3.5mm / 2.5mm jack

ENVIRONMENTAL

Operating Temperature Range	-15 to +35 deg C (nominal) -20 to +55 deg C (extreme)
Robustness:	Approved to Mil Std 810 C procedures I, II & V, D & E
Protection against ingress of dust and water:	IEC 529 IP54
EMC	EMC Directive 89/336/EEC May 89
Humidity	EIA/TIA 603 (95%)

Figures above are typical and measured under normal operating conditions. As such they will not form part of any contract. Our policy is one of continuous improvement and we reserve the right to change product specifications without notice.

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