

# Maxon SL55+ HANDPORTABLE

**maxon**



## FEATURES

- All Features PC Programmable
- High Capacity Battery
- Full Scanning Features
- Moulded Polycarbonate Case
- Voice Privacy / Selective Calling Upgrades
- Enhanced Accessory Connector
- Designed to Military Standards
- Rugged Construction

*Building on the success of the SL55, the SL55+ is packed with features which gives immediate benefits to any organisation using portable radio to maximise operational efficiency.*

*The design is both compact and stylish so the radio can be easily carried by anyone. The high capacity rechargeable battery pack ensures continued performance throughout today's working environment and the rugged construction of the SL55+ makes it a powerful tool for any requirement.*

*The SL55+ has all the features expected of a high quality professional radio such as scanning, CTCSS, synthesised channels, programmable output power and battery save modes. Additionally the SL55+ comes with an enhanced audio accessory connector for greater flexibility and reliability when using the wide range of available maxon audio accessories. The SL55+ offers a level of flexibility, robustness, and cost effectiveness seldom seen throughout the world today.*

## GENERAL

### Performance Specifications

CE0168

Band	R&TTE Directive 1999/5/EC 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	438g with standard battery
Physical Dimensions	140(H) x 57(W) x 40(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) 20kHz: Better than 40dB (with PSOPH) 25kHz: Better than 40dB (without PSOPH)
Microphone sensitivity	20mV +/- 15mV p-p @1kHz peak system deviation
Transmitter Audio distortion	<5% nominal <10% extreme (@ 1kHz, without CTCSS)
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

## RECEIVER

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) 900mW min <10% THD @1W 2hm internal speaker
Interface Connector:	12pin connector with screw lock

## ENVIRONMENTAL

Operating Temperature Range	-15 to +35 deg C (nominal) -30 to +60 deg C (extreme)
Robustness:	Designed to Mil Std 810 C procedures D E & F
Protection against ingress of dust and water:	IEC 529 IP54
EMC	EMC Directive 89/336/EEC May 89
Humidity	EIA/TIA 603 (95%)

## STANDARD MODULES

VP10	Voice Inversion Scrambler
SOP55-01	Fixed Encode / ANI Selcall Module

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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