

## SHP-55+ Handportable

All features PC programmable

High capacity battery - 1550mAh

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 SHP55, the SHP55+ is packed with features that provide immediate benefits to any organisation using portable radio equipment to maximise operational efficiency.

The design is both compact and stylish so the radio is easily carried and the high capacity rechargeable battery pack ensures continued performance throughout the working period. The rugged construction of the radio makes it a reliable tool in any environment.

The radio has all the features expected of a high quality professional radio including scanning, CTCSS, synthesised channels, programmable output power and battery save modes. Additionally it comes with an enhanced audio accessory connector for greater flexibility and reliability when using the wide range of available audio accessories. The SHP55+ offers a level of flexibility, robustness and cost effectiveness seldom seen throughout the world today.

The future never sounded so good

# Technical Specification

# SHP-55+

## Hand Portable

<b>GENERAL</b>	
Performance Specifications	CE0168 R&TTE Directive 1999/5/EC
Band	VHF (V2): 146-174MHz UHF (U1): 400-430MHz UHF (U2): 440-470MHz
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 <2.4A transmit @ 5W RF output
Battery life	>18 hrs @ 1W, 10 hrs @ 5W, with 1550mAh battery pack Intermittent 90:5:5 (standby: RX:TX)
Weight	443g with standard battery and belt clip
Physical Dimensions	140(H) x 57(W) x 40(D)
<b>TRANSMITTER</b>	
RF output power	1-5W (programmable hi/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) 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
<b>RECEIVER</b>	
Receiver sensitivity	UHF: Better than -117dBm VHF: Better than -118dBm
Adjacent channel selectivity	12.5KHz: Better than 60dB 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	12 pin connector with screw lock
<b>ENVIRONMENTAL</b>	
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%)
<b>STANDARD MODULES</b>	
VP10	Voice inversion scrambler
SOP55-01	Fixed encode / ANI selcall module
DM8000	Digital encryption (25KHz only)

Figures shown 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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