



FEATURES

Up to 5 Watts, 16 Channels

2200mAh li-ion Battery Standard

Mil-Spec and IP-54

Programmable EMERGENCY BUTTON

2 - Tone Decode

Inversion Scrambling Built in

Remote Stun

Lone Worker Function

Highly Water Resistant

USB PC Programming

Ergonomic Mechanic Design

ATH-150

(VHF TRANSRECEIVER)

ATH-450

(UHF TRANSRECEIVER)

Professional Two Way Radio
Compact, Reliable, Tough



General Specifications

Standard equipment includes 2200mAh Li-Ion battery, Antenna, Rapid Charger and Belt clip

Approvals	CE, FCC
Dimension	103mm (H) x 52mm (W) x 32mm (D)
Weight	250g width 2200 mAh Battery
UHF Frequency range	400 MHz ~ 470 MHz 450 MHz ~ 512 MHz
VHF Frequency range	136 MHz ~ 174 MHz
Channels	16 Channels
Nominal voltage	7.5 Volts DC
Channel spacing	12.5 and 25 KHz programmable
Coverage (open space)	up to 5 mile

Receiver	ATH - 150 (VHF)	ATH - 450 (UHF)
Sensitivity	12dB SINAD: 0.25 uV	12db SINAD: 0.25 uV
Selectivity @ 25 KHz	Better than: 70 dB	Better than: 70 dB
Selectivity @ 12.5 KHz	Better than: 65 dB	Better than: 65 dB
Spurious response	70 dB	70 dB
Audio output power	1 watt @ 16 Ohms	1 watt @ 16 Ohms
Channel spread	34 MHz without tuning	70 MHz without tuning
Battery drain	Stand by: 45mA	Stand by: 45mA

Transmitter	ATH - 150 (VHF)	ATH - 450 (UHF)
RF power	5/2 watt	4/2 watt
Hum & noise @ 25 KHz	45 dB	45 dB
Hum & noise @ 12.5 KHz	40 dB	40 dB
Modulation dist @ 1 KHz	3% max @ 1000 Hz	3% Max @ 1000Hz
Channel Spread	34 MHz without tuning	70 MHz without tuning
Nominal Battery Drain	1.7 Amps at 5 watts	1.7 Amps at 4 watts

Standard	MIL 810 C	MIL 810 D	MIL 810 E	MIL 810 F
	Method Procedure	Method Procedure	Method Procedure	Method Procedure
Low Pressure	500.1 I	500.2 I II	500.3 I II	500.4 I II
High Temperature	501.1 I	501.2 I II	501.3 I II	501.4 I II
Low Temperature	502.1 I	502.2 I II	502.3 I II	502.4 I II
Temperature Shock	503.1 I	503.2 I II	503.3 I II	503.4 I II
Solar Radiation	505.1 I	505.2 I	505.3 I	505.4 I
Rain	506.1 I II	506.2 I II	506.3 I II	506.4 I II
Humidity	507.1 I II	507.2 II III	507.3 II III	507.4 -
Salt Fog	509.1 I	509.2 I	509.3 I	509.4 -
Dust	510.1 I	510.2 I	510.3 I	510.4 I
Vibration	514.2 VIII X	514.3 I	514.4 I	514.5 I
Shock	516.2 I II V	516.3 I IV	516.4 I IV	516.5 I IV

Environmentals	
Parameter	Specification
Operating Temperature	-30°C to + 60°C
Storage Temperature	-55°C to + 85°C
Humidity	95% RH @ 8Hr
ESD	IEC 801 - 2 KV
Water Intrusion	IP 54

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