

Retevis

RT8

DMR
DIGITAL MOBILE RADIO ASSOCIATION

CE FC RoHS

www.retevis.com

DMR(TDMA) digital technology
Analog and digital combine
Compatible with Mototrbo Tier I & II
Private/Group/All call
Quick text message
IP67 waterproof



MAIN F EATURE

Analog and digital combine	GPS(option)	Enhanced encryption
DMR(TDMA) digital technology	Compatible with Mototrbo Tier I & II	Zone selection via side key
IP67 water proofed	Quick text message	Lone worker
Firmware upgrade	Private/Group/All call	2200mAh Li-ion battery

SPECIFICATION

GENNERAL

Frequency range	VHF:136~174MHz or UHF:400~480MHz	Antenna impedance	50 Ω
Channel	1000 Channels	Audio output power	$\leq 1000\text{mW}@16\Omega$
Channel spacing	12.5kHz	Battery capacity	2200mAh standard
Operating voltage	7.4V		Li-ion battery
Operating temperature	-30°C~+60°C	Dimension(H*W*D)	4.96*2.83*1.46in(126*58*37mm)
Store temperature	-40°C~+85°C	Weight(include battery)	295g/10.4oz

TRANSMITTER

Output power	High: $\leq 5\text{W}$ (HI) Low: $\leq 1\text{W}$ (Low)	Modulation MaximumDeviation	2.5kHz@12.5kHz
Frequency stability	$\pm 1.0\text{PPM}$	Nonactive Slot Power	-57dBm
Adjacent channel power	$\leq -60\text{dB}$	Digital Protocol	ETSI TS 102 361-1 -2 -3
Free Time slot power	TDMA: $\leq 57\text{dBm}$	Vocoder Type	AMBE+2TM
Hum and Noise	-40dB@12.5kHz	Audio Response	+1dB~-3dB
Spurious radiation	Antenna:9kHz~1GHz $\leq -36\text{dBm}/$ 1GHz~12.75GHz $\leq -30\text{dBm}$	4FSK digital mode	12.5kHz (date only):7k60FXD/ 12.5kHz (data+voice):7K60FXE
FM modulation mode	12.5kHz:11K0F3E	Modulation BER (BitErrorRate)	$\leq 5\%$

RECEIVER

Analog sensibility	0.35 $\mu\text{V}/-116\text{dB}$ (20dB SINDA) / 0.22uV/-120dBm (Type)	Rated audio power	1W
Digital sensibility	0.3uV/-117.4dBm (BER 5%) /0.22uV/-110dBm (BER1%)	Audio response	=1dB~3dB
Co-channel Rejection	$\geq -12\text{dB}$	Spurious Radiation	Antenna:9kHz~1GHz ~12.75GHz $\leq -47\text{dBm}$
Adjacent selectivity	TIA603C:-65dB ETSI:60dB	Rated audio distortion	3%(Type)
		Spurious Response	TIA603C:75dB ETSI:70dB

Note: Specifications will be revised without notice due to technical improvement. Thank you

Standard accessories



Adapter



Charger



Li-ion battery



Antenna



Earpiece



Belt clip



User manual



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