

Specifications

General Specification	
Frequency Range	UHF:400-480MHz PMR446
	VHF:136-174MHz
Channel Capacity	256CH
Channel Spacing	Analog : 12.5KHz/25KHz Digital : 12.5KHz
Operation Temperature	-25°C ~ +60 °C
Operation Voltage	7.5VDC
Antenna Impedance	50Ω
Microphone Impedance	2.2KΩ
Frequency Stability	±1.5 ppm
Battery Capacity	Li-ion DC7.4V 1600mAh
Dimension	108.4mm*53.6mm*31.6mm
	(20.2*10.7*6.3inch)
Weight	130.25g(radio body)
	220.4g(with battery and antenna)
IP rate	IP54

Receiver	
Sensitivity(12dB SINAD)	≥121dBm @25kHz ≥121dBm @12.5KHz
SNR(Signal-To-Noise Ratio)	≥45 dB @25KHz ≥40 dB @12.5KHz
Adjacent Channel Selectivity	≥65 dB @25KHz ≥60 dB @12.5KHz
Intermodulation	≥60 dB @25KHz ≥55 dB @12.5KHz
Spurious Response Rejection	≥65 dB
Audio Output Power	≥1000 mW
Sensitivity(digital)	0.1μV/BER5%
Rated Audio Distortion	≤5%

• All specifications are subject to change without notice due to continuous development.

Transmitter	
RF Power	H: UHF 4W/VHF:5W L:1.5W
	PMR446 : 0.5W
FM Modulation	25K/16K0F3E 12.5K/8K0F3E
4FSK Digital Modulation	12.5KHz Data/7K60FXD
	12.5KHz Data and Voice 7K60FXW
Digital Vocoder Type	AMBE++
Digital protocol	ETSI-TS102 361-1,-2
Harmonic	≥70 dB
SNR (Signal-to-Noise Ratio)	25Ks:45 dB 12.5Ks:40 dB
Rated Radio Distortion	≤5%
Max.Frequency Deviation	25Ks:5 kHz 12.5Ks:2.5 kHz



A420T Commercial DMR Radio

- Super High Cost-Effectiveness
- Super Long Stand-by Time
- Super Reliable for Daily Use



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Dealer Area



Application



Shopping mall



Property management



Hotel



Cafeteria



Construction



Manufacturing

Technical Highlights

Dual mode: digital & analog (smooth transition)

Supports both digital and analog modes, compatible with existing analog systems, ensuring a smooth transition from analog to digital products.

Ultra long battery life

Ultra-long standby time, no need to charge or replace battery frequently. 76 hours standby time, by 5-5-90 duty, usage time - analog: 15.9 hours, digital: 24.9 hours.

Voice encryption function

Provides voice encryption functions for the privacy of business users' calls.

Voice announcements

Support voice broadcast of channel number, power, battery capacity, etc., easy for users to understand the current channel and aware of low power, timely charge.

Channel scan

Supports analog and digital channels scanning individually or with each other.

Emergency alarm

Various alarm modes: siren only (local alarm), normal (remote alarm) and secret alarm (no local siren, remote alarm secretly).

DMR mode

Support group call, individual call.

Transmit authority

The same frequency group can set the transmitting authority by choosing channel free, color code free, or sub-tone free (i.e., the channel is busy and transmitting is not allowed during the reception period, so you need to wait) to improve the efficiency of the call.

Standard Accessories



Charger Base
BC-51



Power Adapter



Li-ion battery
AB-L1642 1600mAh



Belt clip



Antenna



Hand strap
AR-255-01

Optional Accessories



6-Way Power Supplier
6BC-51



Earphone
AE-HS-TG02



Short Antenna



Speaker Microphone
AM-MS-T