

Specifications

General Specification

Frequency Range	VHF:136-174MHz UHF:350-390MHz 400-480MHz 450-520MHz PMR446
Channel Capacity	256 Channels 16 Zones
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
Battery Capacity	Li-ion DC7.4V 2200mAh
Standby Time	68 hours(2200mAh)
Dimension <small>(height*width*thickness)</small>	132.8mm*53.8mm*32.3mm
Weight	149.4g(radio body) / 279g(with battery and antenna)
IP Rate	IP54

Receiver

Sensitivity(12dB SINAD)	25Ks: 121dBm 12.5Ks: 119dBm
SNR	25Ks:45 dB 12.5Ks:40 dB
Adjacent Channel Selectivity	25Ks:65 dB 12.5Ks:60 dB
Intermodulation	25Ks:60 dB 12.5Ks:55 dB
Spurious Response Rejection	≥65 dB
Audio Output Power	≥1000 mW
Sensitivity Digital	0.3μV/BER5%
Rated Audio Distortion	≤ 5%
Frequency Stability	±1.5ppm

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

Transmitter

RF Power	H : UHF-4W/VHF:5W L : 1.5 W PMR : 0.5W
FM Modulation	25K/16KΦF3E 12.5K/8KΦF3E
4FSK Digital Modulation	12.5KHz Data7K60FXD 12.5KHz Data and Voice 7K60FXW
Digital Vocoder Type	AMBE++or SELP
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%
Frequency Stability	±1.5 ppm
Max.Frequency Deviation	25Ks:5 kHz 12.5Ks:2.5 kHz



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Dealer Area

ABELL[®]
Voice of Abell, Crisp as an Apple



3rd Generation DMR
Easy to use
Louder, Stronger, Longer duration

A580T

- 2200 mAh Li-ion Battery
- Volume increased 100%, super loud and clear
- 1.77" big screen, clock display
- Super long-time recording(Optional)
- Built-in AI Noise cancellation (Optional)



Application



Shopping mall



Security



Event organization



Logistics and warehousing



Manufacturing



Construction

Features

256 Channels 16 Zones

2200mAh, 7.4V large capacity Li-ion battery

IP54 dustproof and waterproof

1.77" big screen, clock display, channel name display, etc.

Short delay, quick response

The new optimized circuit design, A580T go online faster, with lower latency, and fast communication without losing words.

TDMA 2 slots at direct mode

2 slots of 1 frequency can be used to 2 talk groups, reduce user frequency application and usage fees.

High reliability

Full Al-alloy chassis, PC+ABS housing, equipped with a full PC1414 GE formula plastic battery shell, greatly improves the drop and pressure resistance of the radio.

Voice broadcast

Support channel and battery power level announcements, easy to know the current channel number and real-time battery level for timely charging.

Voice encryption

Voice encryption and provide privacy protection for users' calls.

Dual mode (digital & analog)

Smooth transition from analog to digital.

VOX (hands free)

Specific for users who are not available to push PTT key to talk, with the VOX feature user can activate the PTT by voice directly, without pressing PTT key.

Special optional versions

- ① Built-in AI noise cancellation
- ② Long-time lasting recording, support both digital and analog recording, and record playback.

Standard Accessories



Optional Accessories

