

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(2400mAh)
Dimension (24x37x89mm)	118.4mm*53.8mm*32.3mm
Weight	149.4g(radio body)/ 279g(with battery and antenna)
IP Rate	IP56

Receiver	
Sensitivity(12dB SINAD)	25K ₂ -121dBm 12.5K ₂ -119dBm
SNR	25K ₂ ≥45 dB 12.5K ₂ ≥40 dB
Adjacent Channel Selectivity	25K ₂ ≥65 dB 12.5K ₂ ≥60 dB
Intermodulation	25K ₂ ≥60 dB 12.5K ₂ ≥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/16K/9F3E 12.5K/8K/9F3E
4FSK Digital Modulation	12.5KHz Data/7K60FXD 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)	25K ₂ -45 dB 12.5K ₂ -40 dB
Rated Radio Distortion	≤5%
Frequency Stability	±1.5 ppm
Max.Frequency Deviation	25K ₂ 5 kHz 12.5K ₂ 2.5 kHz

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



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

A580T(Ex)

- 2400 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)
- Intrinsically Safe certified by CNEX:
Ex ib IIB T4 Gb/Ex ib IIC T120°C Db



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Dealer Area



Application



Fire rescue



Metallurgy and chemical industry



Steel manufacturing



Factory made



Coal transportation



Oil mining

Features

256 Channels 16 Zones

IP56 dustproof and waterproof

Short delay, quick response

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

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 encryption

Voice encryption and provide privacy protection for users' calls.

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.

2400mAh, 7.4V large capacity Li-ion battery

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

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.

Voice broadcast

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

Dual mode (digital & analog)

Smooth transition from analog to digital.

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



Charger
BC-780A



Power Adapter



Li-ion battery
AB-L2452Ex



Belt clip
ABC-520



Antenna
AN-D08-H02



Lanyard
AR-255-01

Optional Accessories



6-Way Multi-Charger



Speaker Microphone
AM-M6-T03



Earphone
AE-HS-TG03



Programming cable
AD-US-E02