Version V1.0



DP405S

DMR Portable Radio

- Easy to Carry with Rugged Design
- Cost-effective
- Dual Modes(analog & digital)for Smooth Migration
- DMO 2-slot Increases Call Capacity
- User-defined Voice Announcement



DP405S DMR Portable Radio

Key Features and Benefits

- **Voice Annunciation**

  Channel number, zone change will be announced by voice. This helps operation under low visibility. This annunciation can be customized by user.

- **Clear and Loud Voice in Compact Size Device**

  Good audio quality provided by DMR technology and a 1W high-power loudspeaker. Make it possible to hear loud and clear even in noisy environments.

- **Dual-timeslot Communication in DMO Mode**

  Provide Direct Mode Operation in 2 slots increasing channel capacity without increasing channel frequency spectrum.

- **Analog, Digital and Mixed Modes**

  DP405S is able to detect signal type when receiving a call and automatically switch between analog and digital mode. The user can reply during the call hang time using PTT. This feature improves migration from analog to digital.

- **Long Operation Time**

  TDMA technology and power-saving feature enable the battery to work longer. DP405S with standard 2000mAh battery can work up to 15-18 hours in 5-5-90 mode.

- **Digital Encryption**

  DP405S supports ARC 40-bit encryption, which guarantees communication safety and improve communication privacy. Encryption function provide further protection against over-the-air interception.

- **Various Digital Signaling**

  DP405S supports features such as Radio Check, Call Alert, Stun/Revive, Radio Kill, and Remote Monitor, which make the radio management easy.

- **Man Down (optional)**

  DP405S supports Man Down to guarantee user's safety at all times.

- **Pseudo Trunk**

  This feature can improve frequency efficiency by allocating the free slot to a member and helps you to communicate timely in an emergency.

All specifications are tested according to applicable standards, and subject to change without notice due to continuous development.

Specifications

General	
Frequency Range	PMR446MHz
Channel Capacity	256
Zone Capacity	16
Channel Spacing	25kHz/12.5kHz(Analog) ; 12.5kHz(Digital)
Operating Voltage	7.4V DC ±20%
Battery	2000mAH Li-ion(Standard)
Battery Life (5-5-90 Duty Cycle,High TX Power)	Analog:15 hours@2000mAh Digital: 18 hours @2000mAh
Frequency Stability	±1.5 ppm
Antenna Impedance	50Ω
Dimension(H·W·D) (with battery, without antenna)	116mm*54mm*31mm
Weight (with standard battery)	280g(2000mAh)
LCD Display	None

Receiver	
Sensitivity Analog	0.22μV@12dB SINAD
Sensitivity Digital	0.22uV@BER5%
Selectivity	60dB@12.5kHz,70dB@25kHz(TIA-603) 60dB@12.5kHz, 70dB@25kHz(ETSI)
Spurious Response Rejection	60dB@12.5kHz, 70dB@25kHz(TIA-603) 60dB@12.5kHz, 70dB@25kHz(ETSI)
Inter-modulation	70dB@12.5kHz/25kHz(TIA-603) 65dB@12.5kHz/25kHz(ETSI)
Hum and Noise	40dB@12.5KHz, 45dB@25KHz
Rated Audio Power Output	0.5W@ 16Ω
Rated Audio Distortion	≤3%(typically)
Audio Response	+1~-3dB
Conducted Spurious Emission	-57dBm@<1GHz,-47dBm@>1GHz

Transmitter	
RF Power Output	0.5W
FM Modulation	11KΦF3E@12.5kHz;16KΦF3E@25kHz
4FSK Digital Modulation	7K6ΦFXD@Data;7K6ΦFXW@Data+Voice
Modulation Limiting	±2.5kHz@12.5KHz; ±5kHz@25kHz
Radiated Spurious Emission	-36dBm < 1GHz, -30dBm > 1GHz
FM Hum & Noise	40dB@12.5kHz, 45dB@25kHz
Adjacent Channel Power	60dB@12.5kHz, 70dB@25kHz
Audio Response	+1~-3dB
Audio Distortion	3%
Digital Vocoder Type	AMBE+2™
Digital Protocol	ETSI-TS102 361-1,-2,-3

Environment Specifications	
Operating Temperature	-30℃~ +60℃
Storage Temperature	-40℃~ +85℃
ESD	IEC61000-4-2(Level4) ±4kV(Contact) ±8kV(air)

Standard Accessories


Adaptor


Single Unit Charger


Battery


Belt Clip


Antenna


Strap

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