



DP405

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



DP405 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

DP405 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. DP405 with standard 2000mAh battery can work up to 15-18 hours in 5-5-90 mode.

• Digital Encryption

DP405 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

DP405 supports features such as Radio Check, Call Alert, Stun/Revive, Radio Kill, and Remote Monitor, which make the radio management easy.

• Man Down (optional)

DP405 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	136-174MHz, 350-400MHz, 400-470MHz, 400-520MHz
Channel Capacity	256
Zone Capacity	16
Channel Spacing	25kHz/12.5kHz(Analog) ; 12.5kHz(Digital)
Operating Voltage	7.4V DC \pm 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	\pm 1.5 ppm
Antenna Impedance	50 Ω
Dimension(H·W·D) (with battery, without antenna)	116mm*54mm*31mm
Weight (with standard battery)	280g(2000mAh)
LCD Display	None

Receiver	
Sensitivity Analog	0.22 μ V@12dB SINAD
Sensitivity Digital	0.22 μ V@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	1W@16 Ω
Rated Audio Distortion	\leq 3%(typically)
Audio Response	+1~-3dB
Conducted Spurious Emission	-57dBm@<1GHz, -47dBm@>1GHz

Transmitter	
RF Power Output	VHF: 1W/5W; UHF: 1W/4W
FM Modulation	11K Φ F3E@12.5kHz; 16K Φ F3E@25kHz
4FSK Digital Modulation	7K6 Φ FXD@Data; 7K6 Φ FXW@Data+Voice
Modulation Limiting	\pm 2.5kHz@12.5kHz; \pm 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 $^{\circ}$ C~+60 $^{\circ}$ C
Storage Temperature	-40 $^{\circ}$ C~+85 $^{\circ}$ C
ESD	IEC610000-4-2(Level4) \pm 4kV(Contact) \pm 8kV(air)

Standard Accessories



Adaptor



Single Unit Charger



Battery



Belt Clip



Antenna



Strap



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