



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/Re-vive, 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 | ± 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 | ± 2.5 kHz@12.5KHz; ± 5 kHz@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°C~ +60°C |
| Storage Temperature | -40°C~ +85°C |
| ESD | IEC610000-4-2(Level4) ± 4 kV(Contact) ± 8 kV(air) |

Standard Accessories



Adaptor



Single Unit Charger



Battery



Belt Clip



Antenna



Strap



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