



DP580/DP585 DMR Portable Radio

- Compact & Lightweight
- IP66 Water Proof
- Secure Communication
- Advanced Analog Signaling
- Increased Call Capacity with DMO 2-slot Operation



DP580/DP585 DMR Portable Radio

Key Features and Benefits

- **Compact & Lightweight**

The size of DP580 is 115mm*54mm*34mm and weight is 317g.
The size of DP585 is 115mm*54mm*30mm and weight is 305g.

- **Reliable Design**

It is compliant with MIL-STD-810 C/D/E/F/G standards.

- **DMO support**

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

- **Analog, Digital and Mixed Modes**

DP580 and DP585 can 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.

- **Secure Communication (Digital encryption)**

It supports ARC 40-bit encryption, which guarantees communication safety and improve communication privacy. Encryption function provide further protection against over-the-air interception. It also provides AES and DES optionally.

- **Various Digital Signaling**

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

- **Emergency call and Man Down (Optional)**

It supports features including Emergency Call and Man Down to guarantee user's safety at all times.

- **GPS localization(Optional)**

Integrated GPS enables the real time tracking of the mobile working team.

- **Advanced analog Signaling**

It supports multiple advanced analog signaling, including MDC1200, 2-Tone and 5-Tone and DTMF, providing better integration for existing analog radio fleets.

- **Roaming**

Automatic roaming helps you to use the radio freely among all sites on an IP Multi-Site Connect system.

STANDARD ACCESSORIES



Adaptor



Single Unit Charger



Battery



Belt Clip



Antenna



Strap

Specifications

General

Frequency Range	136-174MHz,350-400MHz, 400-470MHz
Channel Capacity	256
Zone Capacity	16
Channel Spacing	Analog:25kHz/12.5kHz, Digital:12.5kHz
Operating Voltage	DC 7.4V±20%
Battery	2000mAh Li-ion(Standard)
Battery Life (5-5-90 Duty Cycle,Hign Tx Power)	Analog:15 hours@2000mAh Digital:17 hours@2000mAh
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Dimensions(H*W*D)	115mm*54mm*34mm DP580 (with standard battery,without antenna)
Weight (with standard battery)	DP580:317g(2000mAh) DP585:305g(2000mAh)

Receiver

Sensitivity	Analog 0.22uV@12dB SINAD Digital 0.22uV@BER5%
Selectivity	60dB@12.5kHz,70dB@25kHz(TIA-603)
TIA-603 ETSI	60dB@12.5kHz,70dB@25kHz(ETSI)
Spurious Response Rejection	70dB@12.5kHz/25kHz(TIA-603)
TIA-613 ETSI	70dB@12.5kHz/25kHz(ETSI)
Inter-modulation	70dB@12.5kHz/25kHz(TIA-603) 65dB@12.5kHz/25kHz(ETSI)
FM Hum and Noise	40dB@12.5kHz,45dB@25kHz
Rated Audio Power Output	1W
Rated Audio Distortion	3%(typical)
Audio Response	+1~-3dB
Conducted Spurious Emission	-57dBm@<1GHz,-47dBm@>1GHz

Transmitter

RF Power Output	VHF:1W/5W,UHF:1W/4W
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°C~ +60°C
Storage Temperature	-40°C ~ +85°C
ESD	IEC61000-4-2(Level4) ±4kV(Contact) ±8kV(air)
American Military Standard	MIL-STD-810-C/D/E/F/G
Dust & Water Protection	IP66 Standard
Humidity	Per MIL-STD-810 C/D/E/F/G Standard
Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard

GPS

Accuracy specs are for long-term tracking 5 satellites visible at nominal -130dBm

TTFF(Time To First Fix) Cold Start	<1 minute
TTFF(Time To First Fix) Hot Start	10 seconds
Horizontal Accuracy	10m



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