



## DP480 & DP485 DMR Portable Radios

- Digital / Analogue
- Lone Worker / Man Down
- Emergency Button
- DMO 2-slot Operation
- Pseudo Trunk
- Automatic Roaming with IP Multi-Site



## DP480 & DP485 DMR Portable Radios

### KEY FEATURES AND BENEFITS

#### Analog, Digital and Mixed Modes

The DP480 & DP485 can be programmed with digital and/or analogue channels. They can also detect the signal type when receiving a call and automatically switch between analogue and digital modes. The user can reply during the call hang-time using PTT.

#### DMO Support

Provides Direct Mode Operation and achieves 2 single frequency digital channels in a single 12.5kHz channel.

#### Advanced Features

The DP480 & DP485 support features such as Radio Check, Call Alert, Radio Stun/Kill, Radio Revive, and Remote Monitor.

The DP480 can send and receive text messages and report incoming call identity.

The DP480 will show which radios have activated lone worker or man down emergency alarms.

#### Digital Encryption

The DP480 & DP485 features ARC 40-bit encryption for voice and data privacy.

#### Multiple Emergency Alarm Modes

Emergency alarm/call can be sent by pressing the independent emergency button. It also supports lone worker & man down. The DP480 will show which radios have activated lone worker or man down emergency alarms.

#### Roaming

Supports site roaming while using the radio with IP connected digital repeaters.

#### Programmable Keys for Easy Operation

Three programmable keys which users can assign to their most used functions.

#### Pseudo Trunk

Dynamic allocation of slots provides improved channel utilisation when used in conjunction with the DR600 digital repeaters.

### MODELS

DP480V	VHF 136-174 MHz, 5 watt 2000 mAh Lithium-ion(Li-Ion), with LCD & full keypad
DP480U	UHF 400-470 MHz, 4 watt 2000 mAh Lithium-ion(Li-Ion), with LCD & full keypad
DP485V	VHF 136-174 MHz, 5 watt 2000 mAh Lithium-ion(Li-Ion), no LCD or keypad
DP485U	UHF 400-470 MHz, 4 watt 2000 mAh Lithium-ion(Li-Ion), no LCD or keypad

### STANDARD ACCESSORIES

		
Single Unit Charger & Power Adaptor	Battery	Belt Clip
		
Antenna	Strap	

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



Dealer Information

## Specifications

### GENERAL

Frequency Range	136-176MHz, 400-470MHz
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	± 1.5ppm
Antenna Impedance	50Ω
Dimensions (H.W.D)	36.5mm*61.5mm*132mm (DP485) 36mm*61mm*132mm (DP480)
Weight (with standard battery)	290g (DP485), 305g (DP480)

### RECEIVER

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

### TRANSMITTER

RF Power Output	5W/1(VHF) 4W/1W(UHF)
FM Modulation	1KΦF3E@12.5kHz
4FSK Digital Modulation	12.5kHz Data Only:7KΦFXD 12.5kHz Data & Voice:7K6ΦFXW
Modulation Limiting	±2.5kHz@12.5kHz, ±5kHz@25kHz
Radiated Spurious Emission	-36dBm <1 GHz, -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 Temperatures	30°C+60°C
Storage Temperatures	60°C+85°C
ESD	IEC610000-4-2(Level 4) ±4kV (Contact) ±8kV(air)
Dust & Water Protection	IP54 Standard