

DP990 DMR PORTABLE RADIO

DP990 SPECIFICATIONS

General

Frequency Range	136~174MHz, 400~470MHz,450~520MHz
Channel Capacity	1024
Zone Capacity	248
Channel Spacing	12.5KHz/20KHz/25KHz
Operating Voltage	7.5V DC±20%
Battery	2000mAh Li-ion (standard) ,3000mAh Li-ion(optional)
Dimension(with battery and without antenna)	136mmx63.5mmx39mm
Weight(with battery and antenna)	385g

Transmitter

Frequency Stability	±0.5ppm
Power Output	1W/4W(UHF), 1W/5W(VHF)
Modulation Limiting	±2.5kHz@12.5kHz, ±4.0kHz@20kHz, ±5.0kHz@25kHz
FM Hum and Noise	-40dB@12.5KHz, -45dB@20/25KHz
Conducted/Radiated Emission	-36dBm@<1GHz, -30dBm@>1GHz
Adjacent Channel Power	60dB@12.5KHz, 70dB@20/25KHz
Audio Response	+1~-3dB
Audio Distortion	≤3%
4FSK Digital Modulation	12.5KHz (data only) :7K60FXD 12.5KHz (data+voice) :7K60FXE
FM Modulation	12.5KHz:11K0F3E,25KHz:16K0F3E
Digital Protocol	ETSI TS 102 361-1, -2, -3
Digital Vocoder Type	AMBE +2™

Receiver

Frequency Stability	±0.5 ppm
Analog Sensitivity	0.3 μV(12dB SINAD)
Digital Sensitivity	0.22 μV/BER5%
Intermodulation	TIA603C:70dB ETSI:65dB
Adjacent Channel Selectivity	ETSI: 60dB@12.5KHz, 70dB@20/25KHz
Spurious Response Rejection	TIA603C:70dB ETSI:70dB
Rated Audio Power	1W
Rated Audio Distortion	≤3% (typical)
Hum and Noise	-40dB@12.5KHz, -45dB@20/25KHz
Audio Response	+1~-3dB
Conducted Spurious Emission	-57dBm@<1GHz, -47dBm@1GHz

Kirisun reserves the right to change any specifications without warning due to the technology improvement.

For more information, please visit www.kirisun.com or contact marketing.os@szkirisun.com



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Kirisun Communications Co.,Ltd.

FC CE ① ISO9001:2008 Accredited Designer & Manufacturer

ADD:3-6Flrs, ROBETA Building, No.1,Qimin Road, Song Pingshan Area, Science & Industry Park, Nanshan District, Shenzhen(518057), P.R.China.

Pc: 518057

Tel: +86-755-86096076

Email: marketing.os@szkirisun.com

Http: //www.kirisun.com

For more information, please contact:



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DP990

DMR PORTABLE RADIO

A DMR product with ergonomic design and all round digital functions, DP990 helps to improve management efficiency and responsiveness in emergency situations.

The Kirisun DMR series is the cost effective migration solution from analog to digital which you can do at your own pace.



**Kirisun DMR Solution
Delivers Significant Benefits**

DP990 DMR PORTABLE RADIO

KEY FEATURES AND BENEFITS

• 1.8" Graphic Dot-matrix True Color Display

The large-sized, full color, 5-line display enables the access to desired information easily even under bright sunlight.

• Rugged&Reliable

DP990 is designed based on the IP67 standards and meets MIL-STD-810 C/D/E/F/G, allowing use in harsh environments.

• Battery Life

2000mAh battery supplied in the standard package, operates up to 40% longer in digital mode compared to analog mode. 3000mAh high capacity battery is as an option.

• Further Development Port

DP990 reserves option board interfaces to radio for any third party partner to further develop desired functions (such as record, encryption). The option board can be assembled on aluminum shell without disassembled the radio.

• Transmit Interrupt

Enables a user to interrupt another radio conversation to deliver critical communication exactly when and where it's needed.

• Integrated Bluetooth(Optional)

Built-in bluetooth for DP990 enables users to communicate with others through an bluetooth earpiece, and wireless & immediate data sharing is made possible between devices.

• GPS Localization (Optional)

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

• Versatile Voice Calls

Enhanced digital vocal call feature facilitates the management of the calls between the team members and the working teams, and ensures the privacy of the communications.

• Secure Communication

DP990 provides basic and enhanced encryption capability, including ARC4, DES, and 256 bits AES encryption algorithm. It ensures the secure communication on voice call and data transfer between the team members.

• Rich Signaling

Multiple expanded analog signaling, including MDC1200, DTMF, 2-Tone and 5-Tone, provides more expansion capacity in existing communication systems.

• Migrate at Your Own Pace

Keeping the current communication system running during the migration from analogue to digital is vital to any business, the DP990 operates in both analogue and digital mode, that allows the change at your pace.

• Vibration

Vibration alert reminds the reception of message and call in noisy environment and wherever covert counts.

• Versatile Data & Emergency Services

In addition to conventional communication services, DP990 provide rich data services and selectable functions, including Text Message, Scan, Emergency, Man Down (optional), VOX and Lone Worker.

• Dual-slot 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.

• Roaming

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

• Software Upgradable

The advanced features can be upgraded to your existing DP990 radios by software without purchasing a new one.



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GPS

Accuracy specs are for long-term tracking(95th percentile values >5 satellites visible at nominal-130 dbm signal strength)

TTFF(Time To First Fix)-Cold Start	<60 seconds
TTFF(Time To First Fix)-Hot Start	<10 seconds
Horizontal Accuracy	<5 meters

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30°C ~ +60°C
Storage Temperature	-40°C ~ +85°C
Thermal Shock	MIL-STD-810 C/D/E/F/G
Humidity	MIL-STD-810 C/D/E/F/G
ESD	IEC 61000-4-2
Dustproof & Waterproof	IP67

MILITARY STANDARDS 810

APPLICABLE MIL-STD	810C		810D		810E		810F		810G	
	METHODS	PROC/CAT	METHODS	PROC/CAT	METHODS	PROC/CAT	METHODS	PROC/CAT	METHODS	PROC/CAT
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.4	II
High Temperature	501.1	I,II	501.2	I/A1,II/A1	501.3	I/A1,II/A1	501.4	I/Hot,II/Hot	501.5	I/Hot A1,II/Hot (A1)
Low Temperature	502.1	I	502.2	I/C3,II/C1	502.3	I/C3,II/C1	502.4	I/C3,II/C1	502.5	I/C3,II/C1
Temperature Shock	503.1	-	503.2	I/A1C3	503.3	I/C1A3	503.4	I	503.5	I/C
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I	505.5	I
Rain	506.1	I,II	506.2	I,II	506.3	I,II	506.4	I,III	506.5	I,III
Humidity	507.1	II	507.2	II	507.3	II	507.4	-	507.5	II
Salt fog	509.1	-	509.2	-	509.3	-	509.4	-	509.5	-
Dust	510.1	I	510.2	I	510.3	I	510.4	I	510.5	I
Vibration	514.2	VIII/F,CURVE-W	514.3	I/10,II/3	514.4	I/10,II/3	514.5	I/24	514.6	I/24
Shock	516.2	I,II	516.3	I,IV	516.4	I,IV	516.5	I,IV	516.6	I,IV

STANDARD ACCESSORIES



Adapter



Charger



Battery



Antenna



Belt Clip

