



DP990/995

DMR PORTABLE RADIO

A DMR product with ergonomic design and all round digital functions, DP990/995 helps to improve management efficiency and responsiveness in emergency situations.



**Kirisun DMR Solution
Delivers Significant Benefits**

DP990

DP995

DP990/995 DMR PORTABLE RADIO

KEY FEATURES AND BENEFITS

- **1.8" Graphic Dot-matrix True Color Display**

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

- **Rugged&Reliable**

DP990/995 is designed based on IP68 standards and meets MIL-STD-810 C/D/E/F/G, allowing use in harsh environments.

- **Battery Life**

2000mAh battery is supplied in the standard package, and operates up to 40% longer in digital mode compared to analog mode. 3400mAh high capacity battery is optional.

- **Extended Development Port**

DP990/995 reserves option board interface on radio for any third party to further develop desired functions (such as recording, encryption). The option board can be assembled on aluminum shell without disassembling the radio.

- **Transmit Interrupt**

Enables users to interrupt another radio call to deliver critical communication exactly when and where it's needed.

- **Integrated Bluetooth(Optional)**

Built-in bluetooth for DP990/995 enables users to communicate with others through a bluetooth earpiece, and wireless & immediate data sharing is made possible between devices.

- **GPS Location (Optional)**

Integrated GPS enables real time tracking of mobile working team.

- **Versatile Voice Calls**

Enhanced digital voice call feature facilitates call management between team members, and ensures communication privacy.

- **Secure Communication**

DP990/995 provides basic and enhanced encryption capability, including ARC4, DES, and 256 bits AES encryption algorithm. It ensures secure communication on voice call and data transfer between team members.

- **Rich Signaling**

Multiple advanced analog signaling, including MDC1200, DTMF, 2-Tone and 5-Tone, providing higher expansion capacity in current communication systems.

- **Migrate at Your Own Pace**

Keeping the current communication system running during migration from analogue to digital is vital to any business, DP990/995 operates in both analogue and digital mode, which allows the change at your pace.

- **Vibration**

Vibration alert reminds reception of message and call in noisy environment .

- **Versatile Data & Emergency Services**

In addition to conventional communication service, DP990 /995 provide rich data service 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 free slot to a member and helps you to communicate timely in emergency.

- **Roaming**

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

- **Software Upgradable**

The advanced features can be upgraded on your current DP990 /995 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 IP68

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



Professional Wireless Communication System Solution Supplier

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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) ,3400mAh Li-ion(optional) |
| Dimension(with battery and without antenna) | 131.5mmx63.5mmx35.5mm |
| 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: 7K60F1D&7K60FXD, 12.5kHz Voice: 7K60F1E&7K60FXE Combination of 12.5kHz Voice and Data: 7K60F1W |
| FM Modulation | 12.5KHz: 11K0F3E, 25KHz: 16K0F3E |
| Digital Protocol | ETSI TS 102 361-1, -2, -3, -4 |
| Digital Vocoder Type | AMBE ++ |

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 notice due to technical improvement.

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



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Shenzhen Kirisun Communications Co.,Ltd.

FC CE ISO9001: 2015 Accredited Designer & Manufacturer

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