

DP990/995 DMR PORTABLE RADIO

DP990 SPECIFICATIONS

General

Frequency Range	136~174MHz, 400~470MHz, 450~520MHz
Channel Capacity	DP990: 1024 DP995: 32
Zone Capacity	DP990: 248 DP995: 2
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)	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, -4
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 notice due to technical improvement.

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



DP990/995
DMR PORTABLE RADIO



Kirisun Communications Co., Ltd.

FC CE ① ISO9001:2008 Accredited Designer & Manufacturer

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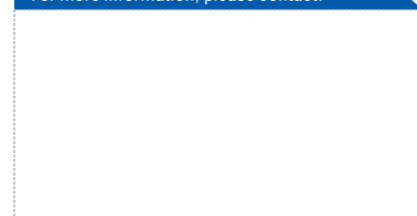
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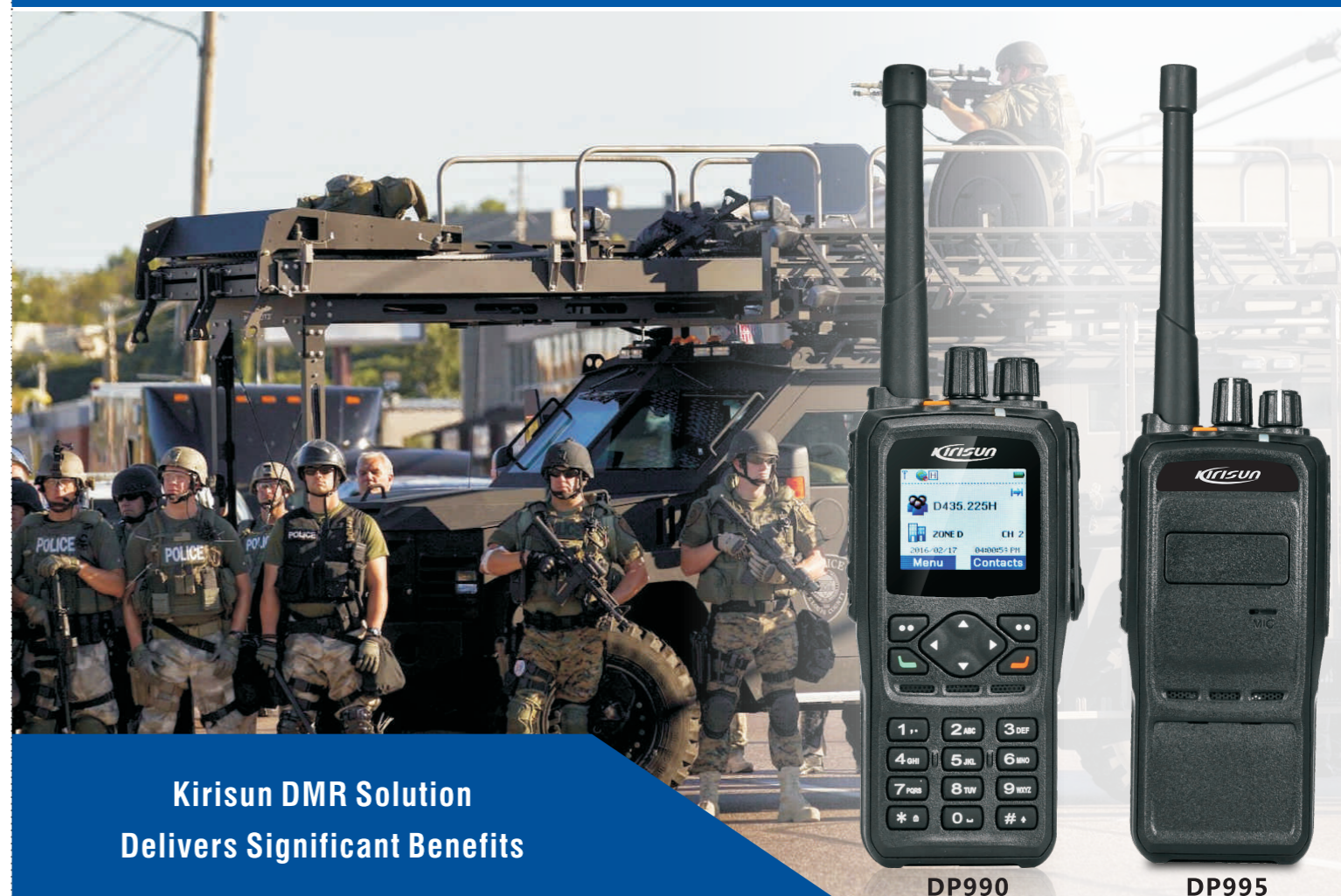
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DP990/995

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 IP67 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 an 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 IP67

MILITARY STANDARDS 810

	810C		810D		810E		810F		810G	
APPLICABLE MIL-STD	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

