



P510

DMR Portable Radio

Easy to Carry with Rugged Design
Cost-effective without Compromise on Quality Dual
Modes (analog & digital) for Smooth Migration
DMO 2-slot Increases Call Capacity
User-defined Voice Announcement



**KIRISUN DMR Solution
Delivers Significant Benefits**

P510

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KEY FEATURES

• Voice Annunciation

Channel number, zone change will be announced by voice. This helps operation under low visibility. This annunciation can be customized by user.

• Clear and Loud Voice in Compact Size Device

Good audio quality provided by DMR technology and a 1W high-power loudspeaker. Make it possible to hear loud and clear even in noisy environments.

• DMO Support

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

• Analog, Digital and Mixed Modes

P510 is able to 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.

• Long Operation Time

TDMA technology and power-saving feature enable the battery to work longer. P510 with standard 2000mAh battery can work up to 15-18 hours in 5-5-90 mode.

• 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.

• Various Digital Signaling

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

• 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.

SPECIFICATIONS

General

Frequency Range	136-174MHz, 350-400MHz, 400-470MHz
Channel Capacity	256
Zone Capacity	16
Channel Spacing	25KHz/12.5KHz(Analog) ; 12.5KHz(Digital)
Operating Voltage	7.4V DC \pm 20%
Battery	2000mAh Li-ion(Standard)
Battery Life	Analog: 15 hours@2000mAh
(5-5-90 Duty Cycle, High TX Power)	Digital: 18 hours @2000mAh
Frequency Stability	\pm 1.5 ppm
Antenna Impedance	50 Ω
Dimension(H*W*D) (with battery, without antenna)	116mm*54mm*31mm
Weight(with standard battery)	280g(2000mAh)
LCD Display	None

Receiver

Sensitivity Analog	0.22 μ V@12dB SINAD
Sensitivity Digital	0.22 μ V@BER5%
Selectivity	60dB@12.5kHz, 70dB@25kHz(TIA-603)
	60dB@12.5kHz, 70dB@25kHz(ETSI)
	70dB@12.5kHz/25kHz(TIA-603)
	70dB@12.5kHz/25kHz(ETSI)
	40dB@12.5KHz, 45dB@25KHz
Spurious Response Rejection	1W@ 16 Ω
	< 3% (typically)
Hum and Noise	+1 ~ -3dB
Rated Audio Power Output	-57dBm@ < 1GHz, -47dBm@ > 1GHz
Rated Audio Distortion	
Audio Response	
Conducted Spurious Emission	

Transmitter

RF Power Output	VHF:1W/5W; UHF:1W/4W
FM Modulation	11K Φ F3E@12.5kHz; 16K Φ F3E@25kHz
4FSK Digital Modulation	7K6 Φ FXD@Data; 7K6 Φ FXW@Data + Voice
Modulation Limiting	\pm 2.5kHz@12.5KHz; \pm 5kHz@25kHz
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	ABME+2™
Digital Protocol	ETSI-TS102 361-1,-2,-3

Environment Specifications

Operating Temperature	-30 $^{\circ}$ C ~ +60 $^{\circ}$ C
Storage Temperature	-40 $^{\circ}$ C ~ +85 $^{\circ}$ C
ESD	IEC610000-4-2(Level4)
	\pm 4kV(Contact) \pm 8kV(air)

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

STANDARD ACCESSORIES



Adaptor



Single Unit Charger



Battery



Belt Clip



Antenna



Strap



Kirisun Communication Co.,Ltd.

FC CE ISO9001: 2015 Accredited Designer & Manufacturer



P510 Exclusive agent

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