

DP770 DMR PORTABLE RADIO

DP770 SPECIFICATIONS

General

Frequency Range	136~174MHz, 400~470MHz
Channel Capacity	1024
Zone Capacity	248
Channel Spacing	12.5KHz/20KHz/25KHz
Operating Voltage	7.5V DC ±20%
Battery	2000mAh Li-ion (standard)
Dimension(with battery and without antenna)	137mmx55mmx35mm
Weight(with battery and antenna)	362g

Transmitter

Frequency Stability	± 1.5ppm
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	± 1.5 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



DP770
DMR PORTABLE RADIO



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DP770

DMR PORTABLE RADIO

A DMR product with ergonomic design and all round digital functions, DP770 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**

DP770 DMR PORTABLE RADIO

KEY FEATURES AND BENEFITS

• 1.8" Graphic Dot-matrix True Color Display

The large-sized, full color, 5-line display enables easy viewing of information even under bright sunlight.

• One Knob Design

The one knob functions as both the channel selection by rotation and volume selection by downwards continuous vertical pressure.

• IP67 Water & Dust Proof

DP770 is designed based on the IP67 standard and meets MIL-STD-810 C/D/E/F/G, allowing use in harsh environments.

• Battery Life

The 2000mAh battery supplied in the standard package, operates up to 40% longer in digital mode compared to analog mode.

• Transmit Interrupt

The priority signal request can be established by pre-setting a time slot.

• GPS Localization

Integrated GPS enables the real time tracking of the radio.

• Versatile Voice Calls & Data Services

The Intelligent DP770 supports various voice call types, including Private Call, Group Call, All Call and Emergency Call, as well as data services, e.g. GPS, Text Message, IP connect and Data Transfer.

• Smart Digital- Analog Switch

DP770 operates in either analog or digital mode that allows the smooth migration from analog to digital.

• Privacy of Voice and Data

Enhanced digital and scrambled analog call feature facilitates the management of the calls between the team members and ensures the privacy of communications in any chosen mode.

• Multiple Analog Signaling Modes

Multiple advanced analog signaling, including MDC1200, DTMF, 2-Tone and 5-Tone, provides compatibility with existing analog communication systems.

• Supplementary Services

In addition to communication & data services, DP770 comes with supplementary functions such as Stun/Kill, Emergency, Man Down (standard), VOX, Lone Worker and Vibration.

• 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

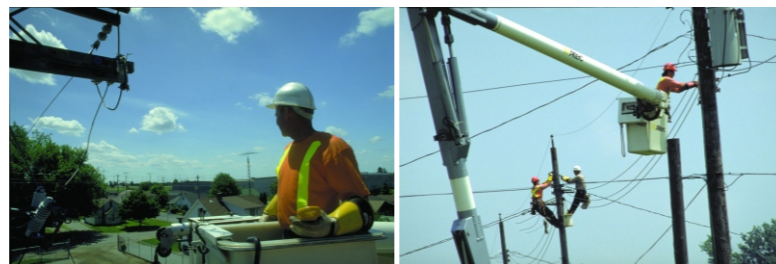
Automatic roaming helps you to use the radio freely among all sites of a IP Multi-Site Connect systems.

• Software Upgradable

The advanced features can be upgraded to your existing DP770 radios by software without purchasing a new one.



One Knob Design



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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	500.5	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



KTC-50E1



KBC-77Q



KB-77B



Antenna



Belt Clip