



FP520/FP560

Kirisun FP500 series with the advanced feature of dual modes helps you migrate easily from analog to digital and achieves the safe and cost-effective communication.

Higher spectrum efficiency
Improved audio quality and communication range
Smart mixed mode
Enhanced secure communication



**KIRISUN FP500 Series
Digital/Analog Portable**



FP520



FP560

FP520/FP560 DIGITAL/ANALOG PORTABLE

KEY FEATURES AND BENEFITS

• Compact and Rugged Design

FP500 series designed with compact size is easy to carry and ideal for daily use. The rugged design combined with composite material can withstand 1.5 meters drop test and the IP65 dustproof and waterproof offers reliable performance in harsh environment.

• Easy to Use

FP560 provides a 4-line display to ensure an easy viewing of information even under the sunlight. The humanized menu design makes you feel that it's easy to operate the radio just like a mobile phone.

• Long Battery Life

Extended tasks on the job require radio of more continuous duty cycle than usual. FP500 series with standard 1500mAh battery can perform 15 hours guaranteeing completion of work in time.

• Spectrum Efficiency (6.25kHz Bandwidth)

Achieving greater spectral efficiency by creating two offset 6.25kHz channels in a 12.5kHz spacing, which saves your money of purchasing additional frequency.

• Easy Migration

By changing the channel setting, FP500 series can be used in analog/digital or mixed mode. The mixed mode allows receiving and transmitting analog or digital signal on one channel, which enhances smooth migration to eliminate the risk of hard cutover and reduces the negative impact on the business.

• Improved Audio Quality

In the past, missed words of a call may cause delays or confusion on the job. But thanks to Forward Error Correction technology in FP500 series vocoding process, which effectively rejects noise, providing more consistent audio performance throughout the coverage area, thus enhanced audio is created, quick and accurate communication is obtained.

• Secured Communication

Information privacy is important to your business. Communication is easily eavesdropped by unwanted listeners outside the working team when you are using analog radio. Kirisun FP500 series with 32-bits encryption technology can provide more than 4 billion customizable codes, which means there is scarce chance that other users can monitor your communication.

• Versatile Voice Call & Data Services

Using digital signaling, FP500 series provides various voice call types, including private call, group call, all call and emergency call as well as remote control call and data service.

• Emergency Alarm and Call

Dangerous situation happens without notification suddenly. Safety insurance is very important in nowadays. By simply touching the emergency button voice and background sound transmitted by the emergency call ensures timely response in emergency situation.

SPECIFICATIONS

General

| | |
|--|--|
| Frequency Range | 136~174MHz, 400~470MHz |
| Channel Capacity | 32(FP520), 256(FP560) |
| Channel Spacing | 12.5KHz(Analog), 6.25KHz(Digital) |
| Operating Temperature | -25℃~+55℃ |
| Operating Voltage | 7.5V DC ±20% |
| Battery | 1500mAh Li-ion |
| Dimension(with battery, without antenna) | 118mm x55mmx33mm(FP520) 118mm x55mmx35mm(FP560) |
| Weight(with battery and antenna) | 280g(FP520), 315g(FP560) |

Transmitter

| | |
|----------------------------|---------------------------------|
| RF Power Output | 5W/1W(VHF) 4W/1W(UHF) |
| Frequency Stability | ±2.5 ppm |
| Frequency Modulation | 11KΦF3E (Analog), 4FSK(Digital) |
| Antenna Impedance | 50Ω |
| Modulation Limiting | ±2.5KHz@ 12.5KHz |
| Radiated Spurious Emission | -36dBm < 1GHz, -30dBm > 1GHz |
| Adjacent Channel Power | 60dB @ 12.5KHz, 50dB @ 6.25KHz |
| FM Noise | 40dB @ 12.5KHz |
| Modulation Distortion | <3% |

Receiver

| | |
|------------------------------|--------------------------------------|
| Frequency Stability | ±2.5 ppm |
| Reference Sensitivity | 0.25 μV @ 12.5KHz, 0.22 μV @ 6.25KHz |
| Adjacent Channel Selectivity | -60dB @ 12.5KHz, -50dB @ 6.25KHz |
| Intermodulation | 65dB |
| Spurious Response Rejection | 70dB |
| Rated Audio Output | 1W@16Ω |
| Hum and Noise | 40dB @ 12.5KHz |
| Rated Audio Distortion | ≤5% |



Kirisun Communications Co.,Ltd.

FC CE ① ISO9001: 2008 Accredited Designer & Manufacturer

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