



UP405S

BUSINESS DMR PORTABLE RADIO

A new generation of enhanced business radios, the UP405S is compact, lightweight, user-friendly, and can operate in both digital and analog modes to provide crystal clear high-quality audio. The UP405S with its Active View display is designed to provide excellent performance and reliable communication while remaining cost-effective, making it suitable for a wide range of business applications.



KEY FEATURES AND BENEFITS



Analog, Digital and Mixed Modes

Supports conventional analog, conventional digital, and mixed modes. The ability to switch between modes allows the UP405S to communicate with traditional analog radios, providing a cost-effective and flexible migration path for organizations transitioning from analog to digital mobile radio systems.

Dual-time slot Communication in DMO Mode

Direct Mode dual-time slot technology allows the UP405S to achieve two groups of calls at a given frequency simultaneously, which doubles communication efficiency by consuming fewer frequency resources.

Industry Benchmark for Sensitivity

The advanced design of the receiver in the UP405S has a sensitivity of $> 0.22 \mu\text{V}$, allowing it to provide maximized range with its ability to receive weak signals.

Feature Rich

DMR signaling technology allows the UP405S to provide essential functions such as Group Call, Individual Call, All Call, and Broadcast Call while offering advanced features including Radio Stun, Radio Kill, Call Alert, VOX, and Pseudo Trunk. The UP405S also has life safety features like Lone Worker, Man Down, Emergency Alarm, and Emergency Call to aid your team in dangerous situations.

Secure Communication

The UP405S supports ARC 40-bit end-to-end encryption to ensure all voice and data communication transmissions are private and secure.

Active View Display

The shatterproof Active View display of the UP405S uses hidden LED lighting to display the customizable boot-up logo, as well as channel, radio, and volume information with full clarity under both daytime and nighttime conditions.

Long Shift Life Battery

The UP405S is designed with power efficiency in mind and optimizes battery consumption to provide up to 100 hours of operation in standby mode. A powerful 1500 mAh Lithium-Ion battery allows the UP405S to deliver up to 15 hours of operation in digital/analog mode.

Multiple Audio Profiles

The UP405S allows users to select from 10 preset audio profiles. Each profile offers unique levels of equalization to enhance, treble, mid-range, and/or bass frequencies to provide an improved overall audio experience and help compete with noisy work environments.

Bluetooth Connectivity

The UP series includes Bluetooth functionality for over-the-air configuration programming and software updates. Using our powerful smartphone or PC-based software tools lets you skip the physical connections, driver installations, and other cumbersome steps typically involved, to maximize work efficiency out in the field.

Improved Audio Quality

Delivering clear and loud voice communication even in noisy environments, the UP405S includes advanced AI-based noise cancellation technology that decreases background noise by up to 30dB, ensuring reliable and intelligible voice calls.



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General

Frequency Range	136-174MHz, 400~470MHz
Channel Capacity	256
Channel Spacing	12.5KHz/20KHz/25KHz
Operating Voltage	7.4V DC±20%
Battery	1500mAh Li-ion (Standard)
Dimension(with battery and without antenna)	115mmx55mmx29mm
Weight(with battery and antenna)	254g

Transmitter

Frequency Stability	±1.5 ppm
Power Output	VHF:1W/5W; UHF:1W/4W
FM Hum and Noise	≥40dB@12.5kHz; ≥45dB@25kHz
Conducted/Radiated Emission	-36dBm@<1GHz, -30dBm@>1GHz
Audio Response	+1~-3dB
Audio Distortion	≤3%
4FSK Digital Modulation	12.5kHz Data Only:7K6ΦFXD; 12.5kHz Data&Voice:7K6ΦFXW
FM Modulation	11KΦF3E@12.5kHz; 16KΦF3E@25kHz
Digital Vocoder Type	AMBE+2™

Receiver

Frequency Stability	±1.5ppm
Analog Sensitivity	≤0.22uV(12dB SINAD)
Digital Sensitivity	0.22uV/BER5%
Intermodulation	≥65dB@12.5/20/25kHz
Adjacent Channel Selectivity	Analog: ≥60dB @12.5 kHz; ≥70dB @25 kHz Digital: ≥60dB @12.5kHz
Blocking	≥84dB
Rated Audio Power	0.5W
Rated Audio Distortion	≤3%(typical)
Hum and Noise	≥40dB@12.5KHz ; ≥45dB@25KHz
Audio Response	+1~-3dB
Conducted Spurious Emission	< -57dBm

ENVIRONMENTAL

Operating Temperature	-30℃~+60℃
Storage Temperature	-40℃~+85℃
ESD	IEC610000-4-2(Level4); ±4kV(Contact) ±8kV(air)

All specifications are tested according to applicable standards, and subject to change without notice due to continuous development. For more information, please visit www.kirisun.com or contact marketing@kirisun.com

ACCESSORIES

Standard Accessories



Battery



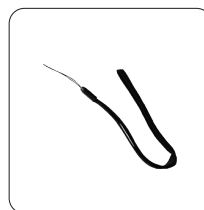
Antenna



Charger



Power Supply



Hand Strap



Belt Clip

Optional Accessories



Microphone



Programming Cable

APPLICATION SCENARIOS



Entertainment



Construction



Security



Warehousing



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