



# UP305

## BUSINESS DMR PORTABLE RADIO

A new generation of enhanced business radios, the entry-level UP305 is compact, lightweight, user-friendly, and can operate in both digital and analog modes to provide crystal clear high-quality audio. The UP305 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 UP305 to communicate with traditional analog radios, providing a cost-effective and flexible migration path for organizations transitioning from analog to digital mobile radio systems.

### Feature Rich

DMR signaling technology allows the UP305 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 UP305 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 UP305 supports ARC 40-bit end-to-end encryption to ensure all voice and data communication transmissions are private and secure.

### Long Shift Life Battery

The UP305 is designed with power efficiency in mind and optimizes battery consumption to provide up to 60 hours of operation in standby mode. A powerful 1200 mAh Lithium-Ion battery allows the UP305 to deliver up to 12 hours of operation in digital/analog mode.

### Innovative Design

The UP305 offers a stylish, compact, lightweight, and robust design for easy one-handed operation.

### Improved Audio Quality

Delivering clear and loud voice communication even in noisy environments, the UP305 includes advanced AI-based noise cancellation technology (Optional) that decreases background noise by up to 30dB, ensuring reliable and intelligible voice calls.



### Multiple Audio Profiles

The UP305 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.

### Dual-time slot Communication in DMO Mode

Direct Mode dual-time slot technology allows the UP305 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 UP305 has a sensitivity of  $> 0.22 \mu\text{V}$ , allowing it to provide maximized range with its ability to receive weak signals.



## UP305 DMR PORTABLE RADIO

General	
Frequency Range	400~470MHz
Channel Capacity	256
Channel Spacing	12.5KHz/20KHz/25KHz
Operating Voltage	7.6V
Battery	1200mAh Li-ion (Standard)
Dimension(with battery and without antenna)	108mmx52mmx29mm
Weight(with battery and antenna)	216g

Transmitter	
Frequency Stability	±1.5 ppm
Power Output	1-4W
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°C~+60°C
Storage Temperature	-40°C~+85°C
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](http://www.kirisun.com) or contact [marketing@kirisun.com](mailto:marketing@kirisun.com)

# ACCESSORIES

## Standard Accessories



Battery



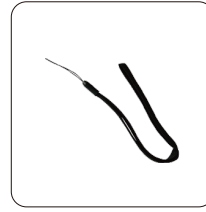
Antenna



Charger



Power Supply



Hand Strap



Belt Clip

## Optional Accessories



Microphone



Programming Cable

# APPLICATION SCENARIOS



Hotel



School



Supermarket



Hospital



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