



# BF-SC500UV

UV Dual Band Analog Two-way Radio



## OVERVIEW

BF-SC500UV is a cost-effective PMR radio capable of providing quality voice communications for amateur users. This tough IP54 radio offers cross-band operation and switchable power, besides such conventional features as Reverse Frequency, Local Alarm, TOT, Scan, and Monitor. It also comes with a built-in flashlight, which contributes to its being an ideal choice for outdoor users.

## HIGHLIGHTS AND BENEFITS

### UV Dual Bands

BF-SC500UV is capable of cross-band operation. When not transmitting, it can receive both VHF signals and UHF signals, although not simultaneously. The users can keep two talk groups at the same time, delivering more convenience.

### Switchable Powers

The user can switch transmitting power (H:5W/ M:3W/ L:1W) according to his specific communication needs, which makes BF-SC500UV way more flexible and convenient than most.

### VOX

With a paired microphone, the user can active the transmitting function through voice only and no longer needs to press the PTT button.



## Lighting/ Flashlight

The built-in flashlight drives darkness away when the user is operating in a dark environment. BF-SC500UV brings more light into your work and life.

## Wide/Narrow Bands Switchable

This function enables the user to set your bandwidth (two optional bandwidth, wide bandwidth: (25KHz) narrow bandwidth: (12.5KHz) ). Screen display “W” means wide bandwidth& screen display “N” means narrow bandwidth.

## CTCSS/CDCSS and STE

This can effectively prevent interferences from other conversations at the same frequency. Unwanted signals are filtered out.



## Standard Accessories



Battery



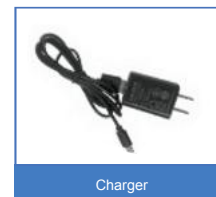
Belt Clip



Hand Strap

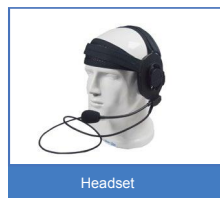


Antenna



Charger

## Optional Accessories



Headset



RA805L Antenna



RA806 Antenna

# SPECIFICATION

## General

Frequency Range	UHF:400-470MHz
Channel Capacity	16
Channel Spacing	25KHz(width)/12.5KHz(narrow)
Working Temperature	-20 C ~ +60 C
Antenna Impedance	50Ω
Operating Voltage	DC 7.4V(±20%)
Battery Capacity	2000mAh(Li-ion)
Frequency Stability	±2.5ppm
Dimensions	61(L)×37(W)×132(H)mm
Weight	242g(including battery pack)

## Transmitter

Power Output	H: 7W L: 1W
Modulation	16K ∅ F3E(width) 8K ∅ F3E(narrow)
Rated Audio Distortion	0.05
Adjacent Power	≥65 dB(wide)/60 dB(narrow)
Modulation Limitation	≤5KHz(width)/2.5KHz(narrow)

## Receiver

Sensitivity	≤-123dB (12dB SINAD)
Adjacent Selectivity	≥60dB(width)/ 55dB(narrow)
Intermodulation Rejection Ratio	≥60dB(width)/ 55dB(narrow)
Spurious Suppression	≥60dB(width)/ 55dB(narrow)
Rated Audio Output Power	500 mW
Rated Audio Distortion	0.05

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