

TWIN BAND MOBILE / BASE TRANSCEIVER

KG-UV920R

144/430 MHz
TWIN BAND

Description of Functions

- Twin Band Transmit / Receive**
(RX / TX) 136-174MHz & 400-470MHz
136-174MHz & 400-480MHz
136-174MHz & 216-280MHz
136-174MHz & 420-520MHz
144-146MHz & 430-440MHz
144-148MHz & 222-225MHz
144-148MHz & 420-450MHz
(RX) FM: 65MHz-108MHz (100K Frequency Spacing)
- Band can be Set Freely**
VHF TX-UHF RX or UHF TX-VHF RX
- Dual Reception**
Twin Band Simultaneous Reception
- Over 999 Memory Channels**
Area Scanning Management
- Dual Display**
Large LCD Dual Frequency Display,
Two Completely Independent Operating Systems
- Remote-head Mounting Capacity**
Multiple Installation Types, Convenient Usage
- Cross-Band Repeat**
UHF / VHF Cross-band Repeat or VHF / UHF
Cross-band Repeat Functions
- Both Stations can Form Combined Same Band or Different Band Repeat**
Strong and Stable Output Power (VHF:50W / UHF:40W)
- QT / DQT Encoding & Decoding, QT / DQT Scanning**
- Multiple Speaker Channel Settings**
- Individual Hand Microphone with TX / RX Indicator**
- DTMF Encoding and Decoding**
- Incoming Message Display**
Caller ID display
- Group Calls, All Calls and Selective Calls**
- 8 Groups Scrambler (Optional)**
- Priority Channel Scanning**
- APO Power Management**
- English Voice Guide**
- Automatic Temperature Testing**
- Minimum Operating Voltage Settings**
- Stun and Kill Function**
- Single Tone Pulse Frequency**
2100Hz / 1750Hz / 1450Hz / 1000Hz
(Used when activating repeater signal)
- Three Colors Backlight Selectable**

Technical Specification

General		Receiver	Wide Bandwidth	Narrow Bandwidth	Transmitter	Wide Bandwidth	Narrow Bandwidth
Frequency Range	Frequency Range Suitable for any Region of any Country	Adjacent Channel Selectivity	≥ 70dB	≥ 60dB	Type of Modulation	16K F3E	11K F3E
		Intermodulation	≥ 65dB	≥ 60dB	Adjacent Channel Power	≥ 70dB	≥ 60dB
		Spurious Response	≥ 70dB	≥ 70dB	Signal to Noise Ratio	≥ 40dB	≥ 36dB
Step Frequency	9KHz / 6.25KHz / 10KHz / 12.5KHz / 20KHz / 25KHz / 30KHz / 50KHz / 100KHz	Audio Response	+1~3dB(0.3~3KHz)	+1~3dB(0.3~2.55KHz)	Spurious	≥ 60dB	≥ 60dB
		Signal to Noise Ratio	≥ 45dB	≥ 40dB	Audio Response	+1~3dB(0.3~3KHz)	+1~3dB(0.3~2.55KHz)
Memory Channels	999	Audio Distortion	≤ 5%		Max. Frequency Deviation	± 5KHz	± 2.5KHz
Work Mode	F2D/F3E	Audio Power	Transceiver ≤ 3W Hand Microphone ≤ 1W		Frequency Stability	± 2.5ppm	
Operating Temperature	-20°C → +60°C	Sensitivity	UHF/VHF: 0.25μV		Audio Distortion	≤ 5%	
Antenna Impedance	50Ω	Output Power	VHF: 50W/20W/10W/5W UHF: 40W/20W/10W/5W				
Power Requirement	13.8VDC ± 15% (Negative Grounded)						
Weight	1437.8g (Including Microphone)						
Dimensions	140x44x207 (mm)						

Specifications are subject to change without notice.

Standard Accessories



Optional Accessories



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ACTUAL SIZE

Duplex Cross-Band Repeat

- **Cross Band Repeater**

For emergency work, or to extend the range of a hand-held unit, the KG-UV920R includes the Cross-Band Repeat capability.

- **Combined Repeater**

Set two of KG-UV920R to work as two individual repeaters. One as the Transmitter and the other is the Receiver, to make these two as a complete Repeater.

Twin Band Simultaneous Reception

Basically operating as two radios in one, the KG-UV920R may be configured in different way as your operating preferences, i.e: VHF TX-UHF RX or UHF TX- VHF RX. This radio is completely independent TWO-CHANNEL, DUAL RECEIVER and DUPLEX OPERATION.



Remote-head Mouting Capability

In order to ensure the easy operations on the vehicles, the KG-UV920R provides the remote-head mouting capability, available for the owner to put the vehicle platform in front of the car, while the body can be placed behind. The KG-UV920R includes a 5m remote cable and a mouting bracket for the front panel.



Dual Track, Dual Speaker

In order to assist the TWO BAND Simultaneous Reception and the clear tone, the KG-UV920R is configured with two independent Speakers.



Distinguishing Feature

Individual Hand Microphone with TX/RX Indicator.



8 Groups Scrambler(Optional)

To ensure the confidential communication among the communicating radios, the KG-UV920R is optional to be configured with scrambling. There are totally 8 groups scramblers selectable.

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High Power Output

The KG-UV920R is with the strong and stable RF power, and the high power output is up to VHF(50W) and UHF(40W). To ensure the thermal stability during the long transmission, there is configured a thermal sensor monitors heat sink temperature, engaging the cooling fan when needed.



ACTUAL SIZE