



2M/70CM DUAL BAND TRANSCEIVERS

VR-DB2R (Frequency Range Can Be Suitable For Different Countries Or Area)

One Radio, Two Bands Full-duplex Communication

Waterproof
Meets Waterproof IPX7



- **Environmental Protection To IPX7**

DB2R meets IPX7 waterproof protection, it can be submersible 1 meter for 30 minutes.

- **Full-Duplex Communication in VHF and UHF band Simultaneously.**

Full-Duplex Communication in VHF and UHF bands Simultaneously. It allows Receiving while transmitting.

- **Human voice prompt information**

Human voice prompt information function, It is easy to know the channel is for users and the masters information.

- **Whisper Function**

This function can be enabled in quiet environment and allows you to speak quietly in the radio and still be heard clearly.

- **Auto Contact Function**

This function is helpful for environments needing close communication, such as climbing, exploration and rescuing. The radio beeps when the user is being out of communication range when this function is ON.

- **And More**

- High/Low Power Switchable
- 25KHz/12.5KHz Switchable
- Auto Output Power When the Radio In Duplex Status
- Channel Steps (5K/6.25K/10K/12.5K/25K)
- CTCSS / CDCSS
- FM Radio
- PC Programming

Full-Duplex



allows transmit and receive to happen simultaneously

Normal Two Way Radio is Half-Duplex Type



Normal Two Way Radio can't transmit and receive to happen simultaneously

Technical Specification

Frequency Range: 136-174 & 300-350 MHz (TX/RX)
136-174 & 350-390 MHz (TX/RX)
136-174 & 400-470 MHz (TX/RX)
136-174 & 450-520 MHz (TX/RX)
136-174 & 245-246 MHz (TX/RX)
144-146 & 430-440 MHz (TX/RX)

Channel Number: 128

Channel Spacing: 5/6.25/25/12.5/50KHz

Maximum Deviation: ± 5 KHz to 25KHz ± 2.5 KHz to 12.5KHz

Frequency Stability: ± 2.0 ppm

Operating Voltage: 7.4V

Battery Type: 1500 mAh (Lithium Battery)

Operating Temperature: -30°C - $+60^{\circ}\text{C}$

Standby Current: 50mA

Antenna Impedance: 50 Ω

Dimension(without antenna&battery): 106 \times 57 \times 32(mm)

Weight: 260g (with antenna&battery)

Transmitter

Power Output: 4W/1W

Modulation: 16K ϕ F3E/11K ϕ F3E

Spurious and Harmonious:
 $-36\text{dBm} < 1\text{GHz}$ $-30\text{dBm} > 1\text{GHz}$

FM Noise: 40dB

Adjacent Channel Power: 70dB/60dB

Audio Distortion : $\leq 5\%$

Receiver

Sensitivity: 0.25 μ (12dB SINAD)

Selectivity: 60dB

Intermodulation: 60dB

Spurious Response Rejection: 65dB/70dB

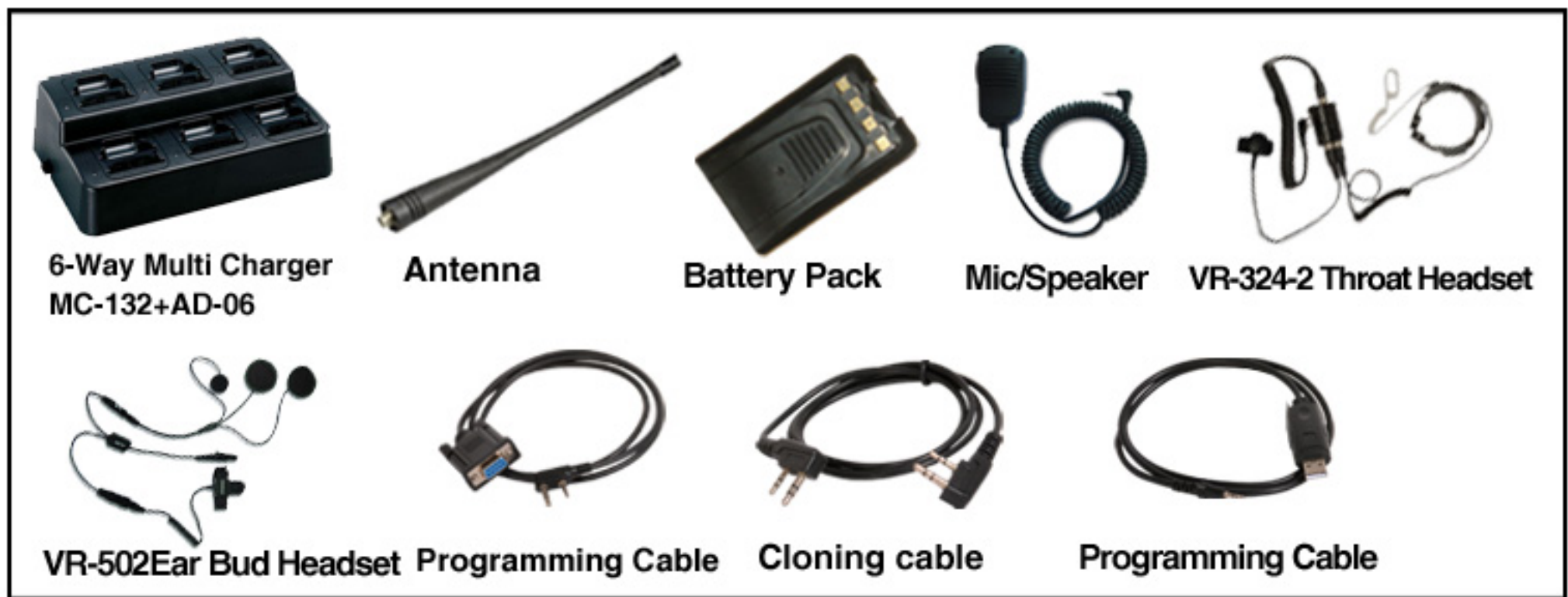
Audio Power Output : 500mW

Audio Distortion: $\leq 3\%$ (0.5W)

STANDARD ACCESSORIES



OPTIONAL ACCESSORIES



Note: All stated specifications are subject to change without notice or obligation.

VEROTELECOM INC

Welcome to Contact us

Manufacturer By :

Your Local Distributor/dealer:

Add: 3th Floor, NO.3 ChongXiang St., Qingmeng
Economy & Technology Development District,
Quanzhou City, Fujian, China. P.O.Box: 362006
Phone: 0086-595-2249 6660/ 0086-595-2247 6660
Fax: 0086-595-8676 1912
URL: <http://www.verotelecom.com>
E-mail: info@verotelecom.com



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