

PRODUCT LITERATURE
Baofeng™ UV-10R
TWO-WAY RADIOS

BAOFENG™ UV-10R TWO-WAY RADIO

YOU'RE SIMPLY MORE EFFICIENT



Introduction

The Baofeng UV-10R is a popular and powerful walkie talkie designed for both professional and personal communication. It is widely used in security services, event management, construction sites, hotels, outdoor activities, emergency situations, and by amateur (HAM) radio operators.

Uses

The Baofeng UV-10R is ideal for security guards, event coordinators, warehouse staff, trekking and camping groups, and emergency communication. It provides fast, reliable, and instant communication without depending on mobile networks.

Connectivity

This walkie talkie supports UHF (400–520 MHz) frequency band. The Dual band As Per WPC Allotted Frequency to User. It also supports external antennas, which help improve signal strength and communication range.

Transmission

The Baofeng UV-10R offers a maximum RF output power of 1W/5W with high and low power modes. It uses FM modulation and supports both wideband and narrowband operation. The maximum frequency deviation is ± 5.0 kHz in wideband and ± 2.5 kHz in narrowband, ensuring clear and stable transmission.

Reception

With a receiver sensitivity of $0.2 \mu\text{V}$ at 12 dB SINAD, the UV-10R can receive weak signals clearly. Low spurious emissions (less than -60 dB) help reduce interference and improve overall communication quality.

Specifications

The device features 1000 mW audio output, good adjacent channel selectivity, and emission classes 12.5K#F3E (wideband) and 1K#F3E (narrowband). Overall, the Baofeng UV-10R is a reliable, versatile, and cost-effective walkie talkie for clear and efficient two-way communication.

Buttons and Controls of the Radio

- | | |
|-----------------------------|---|
| 1. Antenna | 2. Flashlight/ Emergency Alert key |
| 3. FM broadcast/Monitor key | 4.  Key (MENU) |
| 5. Power/Volume knob | 6. Color LCD |
| 7. MIC Input | 8.  Key (EXIT) |
| 9. Battery pack | 10. Battery tightening screw |
| 11. LED flashlight | 12. TX/RX Status LED |
| 13. PTT key | |
| 14. Numeric keypad | |
| 15. Accessory jack | 16. navigation keys |



Appendix C – Technical Specifications

General Specifications

Frequency Range (MHz):	400-520 Mhz , As Per WPC Allotted Frequency to User
Memory Channels:	128 channels total (0-127)
Frequency Stability:	±2.5 ppm
Frequency Step (kHz):	2.5 / 5.0 / 6.25 / 10.0 / 12.5
Antenna Impedance:	50 Ohm
Operating Temperature:	-10°C to +55°C
Supply Voltage:	7.4DC
Current Consumption:	≤75 mA (standby) 380 mA (reception) ≤1.4 A (transmission)
Mode of Operation:	Simplex
Duty Cycle:	03 / 03 / 54 minutes (RX / TX / Standby)
Dimensions (mm):	58 × 110 × 32
Weight:	639 g
Max. Output Power	1W/5W
Antenna Gain:	3.15dbi

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Transmitter Specifications

RF Power (Watts):	1W/5W
Frequency Range (MHz):	400-520 Mhz , As Per WPC Allotted Frequency to User
Type of Modulation:	F3E
Emission Class:	• 12.5K#F3E (Wide Band) • 1K#F3E (Narrow Band)
Maximum Deviation (kHz):	• $\leq \pm 5.0$ kHz (Wide Band) • $\leq \pm 2.5$ kHz (Narrow Band)
Spurious Emissions:	• < -60 dB

Receiver Specifications

Frequency Range (MHz):	400-520 Mhz , As Per WPC Allotted Frequency to User
Receiver Sensitivity:	0.2 μ V (at 12 dB SINAD)
Intermodulation:	60 dB
Audio Output:	1000 mW
Adjacent Channel Selectivity:	65 / 60 dB

Disclaimer

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Contact Us:**Sales & Marketed By:**

G.S. TeleCommunication Limited Unit 614A, Tower B4, Spaze IT Park Sohna Road
Sector 49, Gurgaon Haryana 122018 Email: support@baofengradios.com
Mob. No. : +91-9999323328

Manufactured by:

Shopperclue Webtrade India Pvt. Ltd. Unit 614, Tower B4, Spaze IT Park Sohna Road
Sector 49, Gurgaon Haryana 122018