

PRODUCT LITERATURE  
Baofeng™ UV-21  
TWO-WAY RADIOS

# BAOFENG™ UV-21 TWO-WAY RADIO

YOU'RE SIMPLY MORE EFFICIENT



## Introduction

The Baofeng UV-21 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-21 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 (400–470 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-21 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  $\pm 5.0$  kHz in wideband and  $\pm 2.5$  kHz in narrowband, ensuring clear and stable transmission.

## Reception

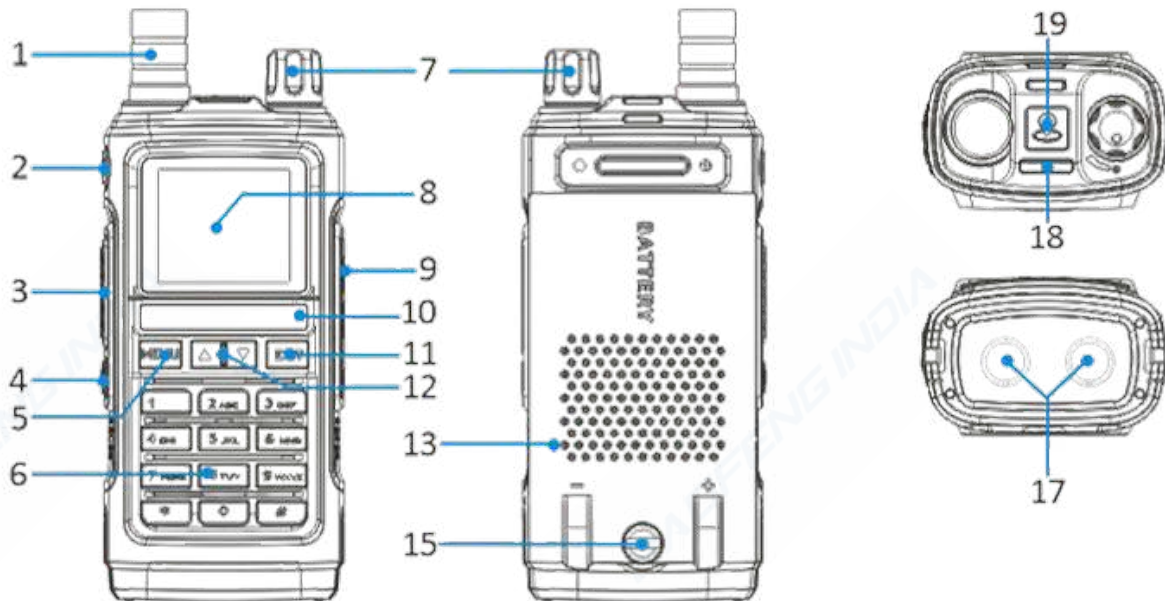
With a receiver sensitivity of  $0.2 \mu\text{V}$  at 12 dB SINAD, the UV-21 can receive weak signals clearly. Low spurious emissions (less than  $-60$  dB) help reduce interference and improve overall communication quality.

## 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-21 is a reliable, versatile, and cost-effective walkie talkie for clear and efficient two-way communication.

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## Buttons and Controls of the Radio

- |                             |                                                                                                    |                     |
|-----------------------------|----------------------------------------------------------------------------------------------------|---------------------|
| 1. Antenna                  | 2. Flashlight/ Emergency Alert key                                                                 | 3. PTT key          |
| 4. FM broadcast/Monitor key | 5.  Key (MENU)  | 6. Numeric keypad   |
| 7. Power/Volume knob        | 8. Color LCD                                                                                       | 9. Accessory jack   |
| 10. MIC Input               | 11.  Key (EXIT) | 12. navigation keys |
| 13. Battery pack            | 15. Battery tightening screw                                                                       |                     |
| 17. LED flashlight          | 18. TX/RX Status LED                                                                               |                     |

## Appendix C – Technical Specifications

### General Specifications

|                        |                                                              |
|------------------------|--------------------------------------------------------------|
| Frequency Range (MHz): | 400-470 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)<br>≤1.4 A (transmission) |
| Mode of Operation:     | Simplex                                                      |
| Duty Cycle:            | 03 / 03 / 54 minutes (RX / TX / Standby)                     |
| Dimensions (mm):       | 58 × 110 × 32                                                |
| Weight:                | 230 g                                                        |
| Max. Output Power      | 1W/5W                                                        |
| Antenna Gain:          | 3.7dbi                                                       |

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## Transmitter Specifications

|                          |                                                                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| RF Power (Watts):        | 1W/5W                                                                                                                                             |
| Frequency Range (MHz):   | 400-470 Mhz , As Per WPC Allotted Frequency to User                                                                                               |
| Type of Modulation:      | F3E                                                                                                                                               |
| Emission Class:          | <ul style="list-style-type: none"><li>• 12.5K#F3E (Wide Band)</li><li>• 1K#F3E (Narrow Band)</li></ul>                                            |
| Maximum Deviation (kHz): | <ul style="list-style-type: none"><li>• <math>\leq \pm 5.0</math> kHz (Wide Band)</li><li>• <math>\leq \pm 2.5</math> kHz (Narrow Band)</li></ul> |
| Spurious Emissions:      | <ul style="list-style-type: none"><li>• <math>&lt; -60</math> dB</li></ul>                                                                        |

## Receiver Specifications

|                               |                                                     |
|-------------------------------|-----------------------------------------------------|
| Frequency Range (MHz):        | 400-470 Mhz , As Per WPC Allotted Frequency to User |
| Receiver Sensitivity:         | 0.2 $\mu$ V (at 12 dB SINAD)                        |
| Intermodulation:              | 60 dB                                               |
| Audio Output:                 | 1000 mW                                             |
| Adjacent Channel Selectivity: | 65 / 60 dB                                          |

## Disclaimer

The accuracy and completeness of the contents are sought in the process of compilation, but we do not bear any responsibility for the possible errors or omissions. With the continuous development of technology, we reserve the right to change the design and specification of the product without notice. No copy, modification, translation and dissemination of this handbook may be made in any form without the prior written authorization of our department. If you need more information or have any suggestions for this manual, write to us Email: support@baofengradios.com.

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