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> [ABBREE AR-188 Foldable Tactical Gooseneck Antenna User Manual](#)

ABBREE AR-188

ABBREE AR-188 Foldable Tactical Gooseneck Antenna User Manual

Model: AR-188 | Brand: ABBREE

INTRODUCTION

The ABBREE AR-188 is a high-gain, dual-band VHF/UHF tactical gooseneck antenna designed to enhance the communication range and signal stability of compatible two-way radios. Its flexible and foldable design makes it suitable for various outdoor and professional applications. This manual provides instructions for proper setup, operation, and maintenance of your AR-188 antenna.

PRODUCT FEATURES

The ABBREE AR-188 antenna incorporates advanced design and materials for reliable performance:

- **Pure Copper Internal Structure:** Designed with a pure copper internal element for enhanced conductivity and signal integrity, ensuring strong and stable communication.
- **Dual Band Operation:** Supports both VHF (144MHz) and UHF (430MHz) frequency bands.
- **SMA-Female Connector:** Standard connector type for broad compatibility with many handheld radios.
- **Flexible Gooseneck Design:** Allows for 360° bending, providing flexibility for various carrying and operating positions.
- **High Gain:** Offers 2.15/3.2dBi gain to improve transmission distance and signal reception.
- **Durable Construction:** Built to withstand outdoor conditions and regular use.

Pure Copper Antenna

our antenna



other antenna



Figure 1: Internal Pure Copper Antenna Structure. This image highlights the pure copper internal construction of the ABBREE AR-188 antenna, contrasting it with a typical antenna to emphasize material quality and potential performance benefits.

SETUP AND INSTALLATION

Follow these steps to properly attach the AR-188 antenna to your compatible two-way radio:

1. **Identify the Connector:** Ensure your radio has an SMA-Male compatible antenna port. The AR-188 antenna features an SMA-Female connector.
2. **Align the Connector:** Carefully align the SMA-Female connector of the antenna with the SMA-Male port on your radio.
3. **Screw On:** Gently screw the antenna onto the radio's port in a clockwise direction. Do not overtighten, as this can damage both the antenna and the radio's connector. Tighten until snug.
4. **Positioning:** The gooseneck design allows for flexible positioning. Adjust the antenna to an upright or desired angle for optimal signal reception and transmission.



Figure 2: SMA-Female Connector Interface. This image illustrates the SMA-Female connector of the antenna and the corresponding equipment interface on a radio, demonstrating how they connect.

Antenna Detail



Figure 3: Antenna Detail and Flexibility. This image provides a close-up of the AR-188 antenna, highlighting its flexible gooseneck section and how it connects to a handheld radio, allowing for various orientations.

OPERATING INSTRUCTIONS

Once the AR-188 antenna is securely attached to your radio, it is ready for operation. The antenna is designed to optimize signal transmission and reception on both VHF (144MHz) and UHF (430MHz) bands.

- **Signal Enhancement:** The high-gain design of the AR-188 antenna helps to extend the effective communication range and improve signal clarity compared to standard antennas.
- **Optimal Positioning:** For best performance, try to position the antenna vertically and in an open area, away from large metallic objects or obstructions that could interfere with radio waves. The flexible gooseneck allows for easy adjustment.
- **Dual Band Operation:** The antenna supports both 144MHz and 430MHz frequencies, making it versatile for various amateur radio and professional applications.

High Gain Gooseneck Tactical Antenna

It can expand frequency range, perfect signal stability and greatly increased communication distance.



Figure 4: High Gain Antenna in Use. This image demonstrates the AR-188 antenna connected to a radio, with visual cues suggesting improved signal stability and increased communication distance.

MAINTENANCE AND CARE

Proper maintenance ensures the longevity and optimal performance of your AR-188 antenna.

- **Cleaning:** Wipe the antenna with a soft, dry cloth to remove dust and dirt. Avoid using harsh chemicals or abrasive cleaners.
- **Storage:** When not in use, store the antenna in a clean, dry place, away from extreme temperatures and direct sunlight. The foldable design allows for compact storage.
- **Connector Care:** Keep the SMA-Female connector clean and free from debris. Inspect it periodically for any signs of corrosion or damage.
- **Handling:** While the gooseneck is flexible, avoid excessive bending or sharp twists that could damage the internal wiring.

TROUBLESHOOTING

If you experience issues with your AR-188 antenna, consider the following troubleshooting steps:

- **Poor Signal/Range:**
 - Ensure the antenna is securely attached to the radio.
 - Check for obstructions between your radio and the receiving/transmitting station.
 - Verify that your radio is set to the correct frequency band (VHF or UHF) for the communication.
 - Test the antenna in a different location, preferably an open area.
- **Antenna Not Fitting:**
 - Confirm that your radio has an SMA-Male connector. The AR-188 uses an SMA-Female connector.
 - Do not force the connection. If it does not fit easily, it may be an incompatible connector type.
- **Physical Damage:**
 - Inspect the antenna for any visible damage to the cable, connector, or whip.
 - If the antenna is damaged, it may need to be replaced.

SPECIFICATIONS

Model	AR-188
Frequency Range	VHF (144MHz) / UHF (430MHz) Dual Band
Connector Type	SMA-Female
Antenna Length	8.32 inches (21.2 cm)
Gooseneck Length	1.78 inches (4.51 cm)
Gain	2.15/3.2dBi
Max Power	10 Watts
Material	Pure Copper Internal Structure

COMPATIBILITY

The ABBREE AR-188 SMA-Female Tactical Antenna is compatible with a wide range of two-way radios that feature an SMA-Male antenna connector. Known compatible models include, but are not limited to:

- Baofeng UV-5R, 5RM, BF-F8HP PRO, AR-152, UV-32, DM-32, UV-21R, K5PLUS, UV-17R, UV-25, GM-15 Pro, GM-5RH
- Quansheng UV-K5, UV-K6, UV-K5Plus
- Other radios with SMA-Male antenna ports.

AR-188 SMA-Female Tactical Antenna Compatible With Baofeng AR-152,BF-888S ,UV-5R,UV-5RH,UV-82,UV-25,M-5R,UV-17 Pro(GPS) UV-13Pro ,UV-21Pro .Quansheng UV-K5, UV-K6,UV-K5Plus



Figure 5: Compatible Radio Models. This image displays the AR-188 antenna attached to several different models of Baofeng and Quansheng radios, illustrating its broad compatibility.

SAFETY INFORMATION

Please observe the following safety guidelines when using your antenna:

- Do not operate the radio with a damaged antenna. If the antenna is damaged, it can cause minor burns upon contact.
- Ensure the antenna is properly connected before transmitting to prevent damage to your radio's transmitter.
- Avoid touching the antenna during transmission, especially at high power levels.
- Keep the antenna away from sources of high voltage or electrical hazards.

For support, please refer to the official ABBREE website or contact your retailer.