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ABBREE AR-806

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Model: AR-806

1. PRODUCT OVERVIEW

The ABBREE AR-806 Dual Band VHF UHF Ham Radio Antenna is designed for enhanced communication with compatible two-way radios. This package includes two stubby antennas of different lengths (1.96-inch and 3.14-inch) to offer flexibility and portability for various applications. Featuring an SMA-Female connector, these antennas are built for durability and reliable performance in short-range communication scenarios.



Image 1.1: The ABBREE AR-806 antennas, illustrating the two available lengths for different user preferences and radio models.

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Video 1.1: An official overview of the ABBREE AR-806 Mini Antenna, highlighting its features and compatibility.

2. SPECIFICATIONS

Feature	Detail
Connector Type	SMA-Female
Frequency Range	VHF (136-174MHz), UHF (400-470MHz)
Gain	2dBi
Maximum Power	10W
V.S.W.R.	Less than 1.5
Impedance	50 Ohm
Antenna Lengths	1.96-inch (5cm) and 3.14-inch (8cm)
Item Weight	1.44 ounces (total for package)



Image 2.1: Visual representation of the two antenna lengths included in the package, 5cm (1.96-inch) and 8cm (3.14-inch).

3. COMPATIBILITY

The ABBREE AR-806 antennas are designed with an SMA-Female connector, making them compatible with a wide range of ham radios. Ensure your radio has an SMA-Male connector for proper fitment.

Compatible Radio Models include:

- Baofeng: UV-5R, 5RM, BF-F8HP/Pro, K5PLUS, UV-21R, AR-152, BF-888S, UV-82, UV-25, UV-5G PLUS (GM-5RH)
- Quansheng: K6, UVK5(8), TD-H8
- Other radios with SMA-Female antenna ports.

Compatible with SMA-Female Connector Radio



Image 3.1: Illustration of the SMA-Female connector type and examples of compatible two-way radios.

4. SETUP AND INSTALLATION

Installing your ABBREE AR-806 antenna is a straightforward process. Follow these steps to ensure a secure and effective connection:

- 1. Unpack the Antenna:** Carefully remove the antenna from its packaging. The package includes the antenna(s) and a rubber shim.
- 2. Identify Connector Type:** Confirm that your radio has an SMA-Male antenna connector. The ABBREE AR-806 antenna features an SMA-Female connector.
- 3. Attach the Antenna:** Align the SMA-Female connector of the antenna with the SMA-Male connector on your radio. Gently screw the antenna onto the radio in a clockwise direction until it is finger-tight. Do not overtighten.
- 4. Use of Shim (Optional):** If there is a slight gap between the base of the antenna and your radio after tightening, use the included rubber shim. Place the shim over the radio's antenna connector before screwing on the antenna. This helps create a snug fit and prevents moisture or dust ingress.



Image 4.1: The antenna packaging, highlighting the antenna and the small rubber shim for a secure fit.

5. OPERATING INSTRUCTIONS

Once the antenna is securely attached to your compatible radio, the operating procedure is primarily dictated by your radio's functionality. The ABBREE AR-806 antenna is a passive component designed to receive and transmit radio signals efficiently within its specified frequency bands (VHF/UHF).

- **Frequency Selection:** Ensure your radio is operating within the 136-174MHz (VHF) or 400-470MHz (UHF) frequency ranges for optimal performance with this antenna.
- **Signal Quality:** The compact size of these stubby antennas makes them highly portable. While they offer good performance for short-range communication, longer antennas typically provide better range and signal strength for distant contacts.
- **Portability:** The short length of the AR-806 antennas makes them ideal for situations where a compact radio setup is preferred, such as carrying the radio in a pocket or during outdoor activities.



Image 5.1: An example of the antenna in use, highlighting its compact form factor for easy carrying.

6. MAINTENANCE

The ABBREE AR-806 antenna requires minimal maintenance to ensure its longevity and performance:

- **Cleaning:** Wipe the antenna with a soft, dry cloth to remove dust or dirt. Avoid using harsh chemicals or abrasive materials.
- **Inspection:** Periodically check the antenna for any signs of physical damage, such as cracks in the casing or bent connectors.
- **Storage:** When not in use, store the antenna in a cool, dry place away from direct sunlight and extreme temperatures.
- **Connector Care:** Keep the SMA-Female connector clean and free of debris to ensure a good electrical connection with your radio.

7. TROUBLESHOOTING

If you experience issues with your ABBREE AR-806 antenna, consider the following troubleshooting steps:

- **Poor Signal Reception/Transmission:**

- Ensure the antenna is securely tightened to the radio.
- Verify that your radio is set to the correct frequency band (VHF or UHF) for the antenna.
- Check for obstructions between your radio and the other party.
- Consider the limitations of stubby antennas for long-range communication; a longer antenna may be required for extended distances.

- **Antenna Not Fitting Correctly:**

- Confirm your radio has an SMA-Male connector. This antenna is SMA-Female.
- Use the included rubber shim if there's a gap between the antenna and the radio body.

- **Physical Damage:**

- Inspect the antenna for any visible damage. A damaged antenna may need replacement.

8. WARRANTY AND SUPPORT

For warranty information and customer support regarding your ABBREE AR-806 antenna, please refer to the documentation provided with your purchase or contact ABBREE customer service directly through their official website or the retailer where the product was purchased. Keep your proof of purchase for warranty claims.

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This manual is for informational purposes only. Specifications are subject to change without notice.