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› ABBREE Ham Radio Antenna User Manual

ABBREE 108cm

ABBREE Ham Radio Antenna User Manual

Model: 108cm | Brand: ABBREE

1. Introduction and Overview

The ABBREE 42.5-inch Long Range SMA-Female Dual Band 144/430Mhz Foldable CS Tactical Antenna is designed to significantly boost the signal of compatible two-way radios. Its flexible and foldable design makes it suitable for various applications, including outdoor and camping usage. This manual provides essential information for the proper setup, operation, and maintenance of your antenna.



Figure 1: ABBREE Foldable CS Tactical Antenna (Folded)

2. Key Features

- **Extended Length:** Approximately 108cm (42.5 inches) when fully extended, designed for enhanced signal range.
- **Dual Band Operation:** Supports 144/430 MHz frequencies, providing versatility for various radio communications.
- **SMA-Female Connector:** Ensures compatibility with a wide range of two-way radios, including Baofeng UV-5R, BF-F8HP, UV-21R, K5PLUS, AR-152, GM-15 Pro, and UV-5G Plus models.
- **Foldable Design:** Allows for compact storage and increased durability, making it resistant to rough handling during outdoor activities.
- **High Gain:** Features a 5.0dBi gain for improved signal reception and transmission.
- **Updated Design:** The AR-152A version offers improved bending flexibility and enhanced signal performance.

Tactical Antenna

SMA-Female

108CM/42.5Inch



Figure 2: Antenna fully extended, showing its length.

3. Setup and Installation

Follow these steps to properly install your ABBREE tactical antenna onto your compatible two-way radio:

1. **Unpack the Antenna:** Carefully remove the antenna from its packaging. Ensure all components, including any provided gaskets, are present.
2. **Identify Connector Types:** Locate the SMA-Female connector on the antenna and the corresponding SMA-Male connector on your radio.
3. **Attach Antenna:** Align the antenna's SMA-Female connector with the radio's SMA-Male connector. Gently screw the antenna onto the radio clockwise until it is finger-tight. Avoid over-tightening to prevent damage to the connectors.
4. **Unfold the Antenna:** If the antenna is in its folded state, gently unfold it to its full 42.5-inch (108cm) length. The flexible design allows for easy extension.
5. **Secure (Optional):** Use the integrated hook-and-loop strap to secure the antenna in its folded position when not in use, or

to manage excess length when partially extended.



Original Abbree Antenna package Better quality ,with gaskets



Figure 3: Antenna attached to radio (folded and extended views).

Your browser does not support the video tag.

Video 1: This video demonstrates the physical characteristics of the ABBREE SMA-Female Dual Band Foldable Antenna, including its packaging, SMA-Female connector, and the process of unfolding and attaching it to a two-way radio. It highlights the 108cm (42.5-inch) length when extended and mentions a V.S.W.R. of less than 1.5.

4. Operating Instructions

Once the antenna is securely attached, operate your two-way radio as per its manufacturer's instructions. The ABBREE tactical antenna is designed to enhance both transmission and reception on the 144/430Mhz dual bands. For optimal performance, ensure the antenna is fully extended when transmitting or receiving over long distances.

- **Frequency Range:** Utilize the antenna within its specified 144/430Mhz frequency range for best results.
- **Antenna Orientation:** For handheld radios, holding the antenna vertically generally provides the best signal propagation.
- **Environmental Factors:** Performance may vary based on terrain, obstacles, and atmospheric conditions.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your antenna:

- **Cleaning:** Wipe the antenna with a soft, damp cloth to remove dirt and dust. Avoid harsh chemicals or abrasive materials.

- **Storage:** When not in use, fold the antenna and store it in a cool, dry place away from direct sunlight and extreme temperatures.
- **Connector Care:** Keep the SMA-Female connector clean and free of debris. Inspect it periodically for any signs of corrosion or damage.
- **Physical Inspection:** Regularly check the antenna for any signs of wear, tears, or damage to the flexible elements.



Figure 4: Antenna packaging, including gaskets for proper fit.

6. Troubleshooting

If you experience issues with your antenna, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Poor Signal Reception/Transmission	Antenna not fully extended, loose connection, incompatible radio, environmental interference.	Ensure antenna is fully extended. Check that the antenna is securely screwed onto the radio. Verify radio compatibility. Move to an area with less interference.
Antenna feels loose on radio	Improper tightening, missing gasket, worn connector.	Tighten the antenna connection. Ensure any provided rubber gaskets are used for a snug fit. Inspect connectors for wear.
Antenna not folding/unfolding smoothly	Dirt or debris in joints, physical damage.	Clean the flexible joints. If physically damaged, the antenna may need replacement.

7. Specifications

Attribute	Detail
Brand	ABBREE
Model Number	108cm
Frequency	144/430 MHz (Dual Band)

Attribute	Detail
Connector Type	SMA-Female
Gain	5.0dBi
Length (Extended)	Approximately 108 cm (42.5 inches)
Impedance	50 Ohm
Item Weight	5.3 ounces
Color	Black
UPC	675234309405

8. Warranty and Support

For warranty information or technical support regarding your ABBREE Ham Radio Antenna, please refer to the documentation included with your purchase or contact ABBREE customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

For additional resources and product updates, visit the official ABBREE website or the product page where you made your purchase.

