

[Manuals.plus](#) /

› [ABBREE](#) /

› ABBREE SMA-Female Ham Radio Antenna User Manual

ABBREE 48cm

ABBREE SMA-Female Ham Radio Antenna User Manual

Model: 48cm

Brand: ABBREE

INTRODUCTION

The ABBREE SMA-Female Ham Radio Antenna is a high-gain, foldable tactical antenna designed to enhance the performance of compatible two-way radios. Operating on dual VHF/UHF frequencies (144/430MHz), this antenna provides improved signal reception and transmission, making it suitable for various communication scenarios. Its flexible and durable design ensures portability and resilience in diverse environments.



Figure 1: ABBREE SMA-Female Ham Radio Antenna in its folded configuration.

PRODUCT FEATURES

- **Connector Type:** SMA-Female, ensuring broad compatibility with many handheld radios.
- **Frequency:** Dual-band 144/430 MHz (VHF/UHF) for versatile communication.
- **Gain:** 2.15dBi, providing enhanced signal strength for improved range.
- **Design:** Foldable CS tactical antenna, offering flexibility and portability.
- **Durability:** Updated AR-152A design for increased bending resistance and signal integrity.
- **Impedance:** 50 Ohm.
- **Maximum Power:** 20 Watts.
- **V.S.W.R.:** Less than 1.5.



Figure 2: Key features highlighting high gain, foldable design, and durability.

PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x ABBREE SMA-Female Ham Radio Antenna (Model: 48cm)

- 1 x Velcro strap for securing the antenna in folded position
- (Note: Radio device and programming cable are sold separately unless specified in your purchase.)



Figure 3: Typical package contents, including the antenna and accessories.

SETUP

1. **Unpack the Antenna:** Carefully remove the antenna from its packaging. It may be secured in a folded position with a Velcro strap.
2. **Extend the Antenna:** Remove the Velcro strap and allow the antenna to straighten. The antenna is designed to be flexible and can be fully extended to its 18.8-inch length for optimal performance.
3. **Connect to Radio:** Locate the SMA-Female connector at the base of the antenna. Align it with the SMA-Male port on your compatible radio (e.g., Baofeng UV-5R, BF-F8HP). Gently screw the antenna onto the radio until it is finger-tight. Do not overtighten.
4. **Compatibility Check:** Ensure your radio is compatible with SMA-Female antennas and operates within the 144/430MHz

frequency range for best results.

Tactical Antenna

SMA-Female

48cm/18.89in



Figure 4: The antenna fully extended and connected to a handheld radio.



Figure 5: Detail of the SMA-Female connector for proper attachment.

OPERATING INSTRUCTIONS

This antenna is designed to optimize your radio's performance, particularly in challenging environments. For best results, ensure the antenna is fully extended when transmitting or receiving.

- **Optimal Performance:** For maximum range and clarity, operate the antenna in its fully extended position. This allows the antenna to resonate effectively at its designed frequencies.
- **Foldable Design Use:** The antenna can be folded for compact storage or transport. When folded, secure it with the provided Velcro strap. While it can operate in a folded state, performance will be significantly reduced.
- **Signal Improvement:** The high gain of this antenna is most noticeable in areas where signal strength is marginal, helping to improve communication reliability at the edge of your radio's coverage.

Your browser does not support the video tag.

Video 1: Demonstration of the antenna's high gain capabilities for extended range communication.

MAINTENANCE

- **Cleaning:** Wipe the antenna with a soft, damp cloth to remove dirt or dust. Avoid using harsh chemicals or abrasive materials.
- **Storage:** When not in use, fold the antenna and secure it with the Velcro strap. Store it in a cool, dry place away from direct sunlight and extreme temperatures. Avoid sharp bends or kinks that could damage the internal elements.
- **Connection Check:** Periodically inspect the SMA-Female connector for any signs of wear or damage. Ensure it remains clean and free of debris to maintain a good connection with your radio.



Figure 6: Proper handling and folding of the antenna for storage and transport.

- **Poor Signal Quality:**

- Ensure the antenna is fully extended.
- Check that the antenna is securely connected to the radio.
- Verify that your radio is set to the correct frequency and mode.
- Consider environmental factors (e.g., obstacles, terrain) that may impede signal.

- **Antenna Not Fitting:**

- Confirm your radio has an SMA-Male connector. This antenna is SMA-Female.
- Do not force the connection; improper fitting can damage the antenna or radio.

- **Antenna Damage:**

- Avoid excessive force when bending or straightening the antenna.
- Protect the antenna from sharp objects or extreme impacts.

SPECIFICATIONS

Brand	ABBREE
Model Number	48cm (AR-152A)
Frequency Range	144/430MHz (VHF/UHF)
Gain	2.15dBi
Connector Type	SMA-Female
Impedance	50 Ohm
Maximum Power	20 Watts
V.S.W.R.	Less than 1.5
Item Weight	2.4 ounces
Package Dimensions	16.5 x 4.02 x 0.79 inches

WARRANTY AND SUPPORT

For specific warranty information and customer support, please refer to the documentation included with your purchase or contact ABBREE directly through their official website or authorized retailers. Keep your proof of purchase for warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question