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› Retevis SMA-F VHF UHF Retractable 2 Way Radio Antenna (Model FC9068AX5) User Manual

Retevis FC9068AX5

Retevis SMA-F VHF UHF Retractable 2 Way Radio Antenna User Manual

Model: FC9068AX5

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Retevis SMA-F VHF UHF Retractable 2 Way Radio Antenna. This antenna is designed to enhance the performance of compatible two-way radios by offering both compact and extended configurations for optimal signal reception and transmission.



Image: The Retevis SMA-F VHF UHF Retractable 2 Way Radio Antenna, showcasing its design.

PRODUCT FEATURES

- **Dual Band Capability:** Operates on both UHF and VHF frequencies, providing versatility for various radio communication needs.
- **SMA-F Connector:** Equipped with a standard SMA-Female connector for broad compatibility with many handheld two-way radios.
- **Retractable Design:** Features a retractable whip antenna that can be adjusted from a compact 5.5 inches (14cm) to an extended 18.5 inches (47cm) for varying performance requirements.
- **High Gain:** Offers a 2.15dBi gain, which improves the transmission and reception capabilities of your radio.
- **Durable Construction:** Made with TPEE and a heat shrinkable sleeve for enhanced durability and longevity.



Image: The antenna shown in both its retracted (5.5 inches / 14cm) and extended (18.5 inches / 47cm) configurations, illustrating its adjustable length.

COMPATIBILITY

This antenna is designed with an SMA-Female connector, making it compatible with a wide range of two-way radios.

Compatible models include, but are not limited to:

- Retevis: RA79, RT29, RT86, RM21, RT29D, RB85, RT5R, RT56, RT43, RB22, RB25, P1
- Aliunce: HD1, HD2
- BaoFeng: BF-F8HP, UV-5R, UV-82
- Other compatible GMRS radios and models from brands like WOUXUN and Arcshell.

COMPATIBILITY

DUAL BAND VHF/UHF SMA-F
SOFT ANTENNA COMPATIBLE
WITH MOST BRANDS WALKIE TALKIES



RETEVIS RT7

RETEVIS RT-5R

RETEVIS RT-5RV

RETEVIS RT29

BAOFENG BF-888S

BAOFENG UV-5R

BAOFENG BF-F8+

BAOFENG 777S

**EXTEND RANGE IN
TRANSMITTING & RECEIVING**

HIGH-GAIN SMA-F ANTENNA
DUAL BAND VHF/UHF
(144/430MHZ)

DURABLE & DUAL-PURPOSE

TPEE and heat shrinkable sleeve
for long life use stretchable:
14-47cm. Work as stock
antenna or high gain antenna

SUPER FIT

SMA female connector fit
well on radios add more
range during
communications

Image: A visual representation of the antenna's compatibility with various radio models, including Retevis, Baofeng, and others.

SETUP AND INSTALLATION

1. **Power Off Radio:** Ensure your two-way radio is powered off before attaching or detaching the antenna.
2. **Identify Connector:** Locate the antenna connector on your radio. The Retevis antenna uses an SMA-Female connector.
3. **Attach Antenna:** Carefully align the SMA-Female connector of the antenna with the SMA-Male connector on your radio. Gently screw the antenna clockwise until it is finger-tight. Do not overtighten, as this can damage the connector.
4. **Adjust Length:** For standard use or when a compact size is preferred, keep the antenna retracted (5.5 inches). For improved range and signal quality, gently pull the whip section of the antenna upwards to extend it to its full length (18.5 inches).
5. **Power On Radio:** Once the antenna is securely attached and adjusted, you may power on your radio.



Image: The antenna in its retracted position, attached to a two-way radio.



Image: The antenna fully extended, attached to a two-way radio, demonstrating its maximum length for enhanced performance.

OPERATING CONSIDERATIONS

While the antenna itself is a passive component, its effective operation is crucial for your radio's performance. Consider the following:

- **Antenna Length:** Use the extended length (18.5 inches) for maximum range and clarity, especially in open areas or when communicating over longer distances. The retracted length (5.5 inches) is suitable for shorter-range communication or when portability and discretion are priorities.
- **Vertical Orientation:** For optimal performance, ensure the antenna is as vertical as possible during operation.
- **Obstructions:** Avoid operating near large metal objects, buildings, or dense foliage, as these can significantly reduce signal strength and range.

MAINTENANCE

Proper care will ensure the longevity and optimal performance of your 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, preferably retracted to protect the whip element.
- **Inspection:** Periodically inspect the antenna for any signs of damage, such as bends in the whip, cracks in the housing, or corrosion on the connector. Replace if significant damage is observed.
- **Connector Care:** Keep the SMA-Female connector clean and free of debris to ensure a good electrical connection with your radio.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Poor signal reception/transmission	Antenna not fully extended; loose connection; damaged antenna; environmental obstructions.	Ensure antenna is fully extended for optimal range. Check that the antenna is securely tightened to the radio. Inspect for physical damage. Relocate to an area with fewer obstructions.

Problem	Possible Cause	Solution
Antenna does not fit radio	Incorrect connector type.	Verify your radio requires an SMA-Female antenna. This antenna is SMA-Female. If your radio has an SMA-Female connector, you may need an adapter (not included) or a different antenna.
Antenna whip is bent or stuck	Physical damage or debris.	Attempt to gently straighten the whip. If stuck, check for debris. If severely damaged, replace the antenna.

SPECIFICATIONS

Model Number: FC9068AX5

Brand: Retevis

Antenna Type: Dual Band VHF/UHF Retractable Whip Antenna

Connector Type: SMA-Female

Frequency Range: VHF (136-174MHz), UHF (400-470MHz)

Gain: 2.15dBi

Impedance: 50 Ohms

Retracted Length: 5.5 inches (14 cm)

Extended Length: 18.5 inches (47 cm)

Color: Black

WARRANTY AND SUPPORT

Retevis provides a 1-year warranty for accessories, including this antenna, and a 30-day no-reason return policy. For support or warranty claims, please contact Retevis customer service through the platform where the product was purchased. Our team aims to respond within 12 hours to assist you with any issues or questions. Even beyond the warranty period, maintenance services are offered, though buyers may be required to cover associated costs.

