

WishRing AL-800

AL-800 HighGain Dual Band Extendable Antenna Instruction Manual

Model: AL-800 | Brand: WishRing

1. INTRODUCTION

The WishRing AL-800 HighGain Dual Band Extendable Antenna is designed for two-way radio communication, offering enhanced performance across VHF and UHF bands. This antenna features both a telescopic and an ordinary (whip) element, which are interchangeable for versatile use. Its design prioritizes ease of disassembly and portability, making it a practical accessory for various handheld radio applications.

2. PRODUCT OVERVIEW AND COMPONENTS

The AL-800 antenna system includes a main base unit with an SMA-Female connector, a multi-section telescopic antenna, and a shorter, ordinary whip antenna. These components allow users to adapt the antenna's length and form factor to suit specific operational needs.



Figure 2.1: The AL-800 antenna fully extended, showcasing its full length and design.



Figure 2.2: The main antenna body alongside the shorter, ordinary whip antenna, demonstrating the interchangeable components.



Figure 2.3: An alternative view of the AL-800 main body and ordinary whip antenna, highlighting their compact form.

3. SETUP AND INSTALLATION

The AL-800 antenna is designed for easy attachment and detachment from compatible two-way radios. Follow these steps for installation:

1. **Select Antenna Element:** Choose between the telescopic antenna for maximum range or the ordinary whip antenna for a more compact setup.
2. **Connect to Radio:** Align the SMA-Female connector of the chosen antenna element with the SMA-Male port on your radio. Gently screw the antenna onto the radio until it is finger-tight. Do not overtighten.
3. **Extend Telescopic Antenna (if applicable):** If using the telescopic antenna, carefully extend each section to its full length for optimal performance. Ensure all sections are securely locked into place.

Compatible Radio Models:

The AL-800 antenna is compatible with a wide range of handheld two-way radios, including but not limited to:

- **Kenwood:** TK-240, TK-250, TK-255, TK-260, TK-260G, TK-270, TK-270G, TK-272G, TK-278, TK-278G, TK-340, TK-349, TK-350, TK-353, TK-360, TK-360G, TK-370, TK-370G, TK-373G, TK-378, TK-378G, TK-430, TK-431, TK-715, TK-2100, TK-2102, TK-2107, TK-2118, TK-2160, TK-3100, TK-3101, TK-3102, TK-3107, TK-

3118, TK-3160

- **LINTON:** LT-2288, LT-3288, LT-6288, LT-5288, LT-3188, LT-2188, LT-3260, LT-2268, LT-3268, LT6188, LT3288
- **PUXING:** PX-777, PX-777 PLUS, PX-666, PX-3288, PX-888, PX-888K
- **WEIERWEI:** VEV-3288S, VEV-6288, VEV-3288, V-1000
- **QUANSHENG:** TG-K4AT, TG-2AT, TG-45AT, TG-42AT, TG-22AT, TG-25AT, TG-UV
- **WOUXUN:** KG-UVD1P, KG-659, KG-669, KG-669 PLUS, KG-679, KG-679 Plus, KG-689, KG-689 PLUS, KG-699E
- **Various Handheld Radios:** UV-5R, UV-3R Plus UV5R/Plus, UV5RA/Plus, UV5RE/Plus, UV5RB, UV5RC, UV5RD, UV3R+Plus, BF888s, BF666s, BF777, BF-320, BF-480, BF-490, BF-520, BF-V6, BF-V8, etc.
- **HYT:** TC-268, TC-268S, TC-270, TC-270S, TC-368, TC-368S, TC-370, TC-370S, etc.

4. OPERATING INSTRUCTIONS

The AL-800 antenna is designed for optimal performance when fully extended, particularly for amateur radio bands. While the ordinary whip and collapsed telescopic elements offer portability, their performance may vary. For best results, especially for VHF and UHF amateur radio bands, ensure the telescopic antenna is fully extended. The antenna operates on Dual Band VHF/UHF frequencies, specifically 144/430MHz, and can handle a maximum power of 50 Watts. Its V.S.W.R (Voltage Standing Wave Ratio) is rated at less than 1.5, indicating efficient power transfer.

5. MAINTENANCE

To ensure the longevity and optimal performance of your AL-800 antenna, observe the following maintenance guidelines:

- **Gentle Handling:** Avoid excessive force when extending or retracting the telescopic antenna. Always retract by gently pushing the lowest section back into the base.
- **Avoid Impacts:** The extended antenna is susceptible to bending or damage from impacts. Be mindful of your surroundings, especially when moving through doorways or under low obstacles.
- **Clean Connectors:** Periodically inspect and clean the SMA-Female connector to ensure a good electrical connection with your radio. Use a soft, dry cloth.
- **Storage:** When not in use, retract the telescopic antenna fully and store the antenna in a safe place to prevent accidental damage.

6. TROUBLESHOOTING

If you experience issues with your AL-800 antenna's performance, consider the following:

- **Poor Signal Reception/Transmission:** Ensure the telescopic antenna is fully extended. Performance may be significantly reduced when using the ordinary whip or a collapsed telescopic element, especially for US amateur radio bands.
- **Connection Issues:** Verify that the antenna is securely screwed onto the radio's SMA port. A loose connection can lead to poor performance.
- **Physical Damage:** Inspect the antenna for any visible bends, cracks, or damage to the elements or connector. Physical damage can severely impair performance.
- **Environmental Factors:** Large objects, buildings, or even your body can affect antenna performance. Try operating in an open area or adjusting your holding position.

7. SPECIFICATIONS

Feature	Specification
Brand	WishRing
Model Number	AL-800
Connector Type	SMA-F (Female)
Band	Dual Band VHF/UHF
Frequency	144/430MHz
Gain (VHF)	3.2dBi
Gain (UHF)	5.6dBi
Max Power	50 Watts
V.S.W.R	Less than 1.5
Impedance	50 Ohm
Diameter	0.5cm
Telescopic Antenna Length (retracted)	22cm
Telescopic Antenna Length (full length)	94.8cm
Ordinary Antenna Length	22.3cm
Bare Ordinary Antenna Length	16.3cm
Bare Telescopic Antenna Length (retracted)	16 cm
Bare Telescopic Antenna Length (full length)	88.8cm
Base Length	7cm
Net Weight	87g (2.4 ounces)
Package Dimensions	9 x 0.7 x 0.2 inches
Manufacturer	Sunkin Global Trading Company
Country of Origin	China
UPC	702756970957

8. WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please refer to the official WishRing website or contact their customer service directly. Details may also be available on the product packaging or the retailer's purchase page.

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