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› TA-851 Plus 3600Rotation UV Dual Frequency 45-860MHz 22-38dB 42.65ft Cable Outdoor Antenna

Leadzm TA-851PL

Leadzm TA-851 Plus Outdoor Antenna User Manual

Model: TA-851PL

1. INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, and maintenance of your Leadzm TA-851 Plus 3600 Rotation UV Dual Frequency Outdoor Antenna. This antenna is designed to receive digital HDTV UHF/VHF signals, offering high-definition picture quality and a wide reception range.

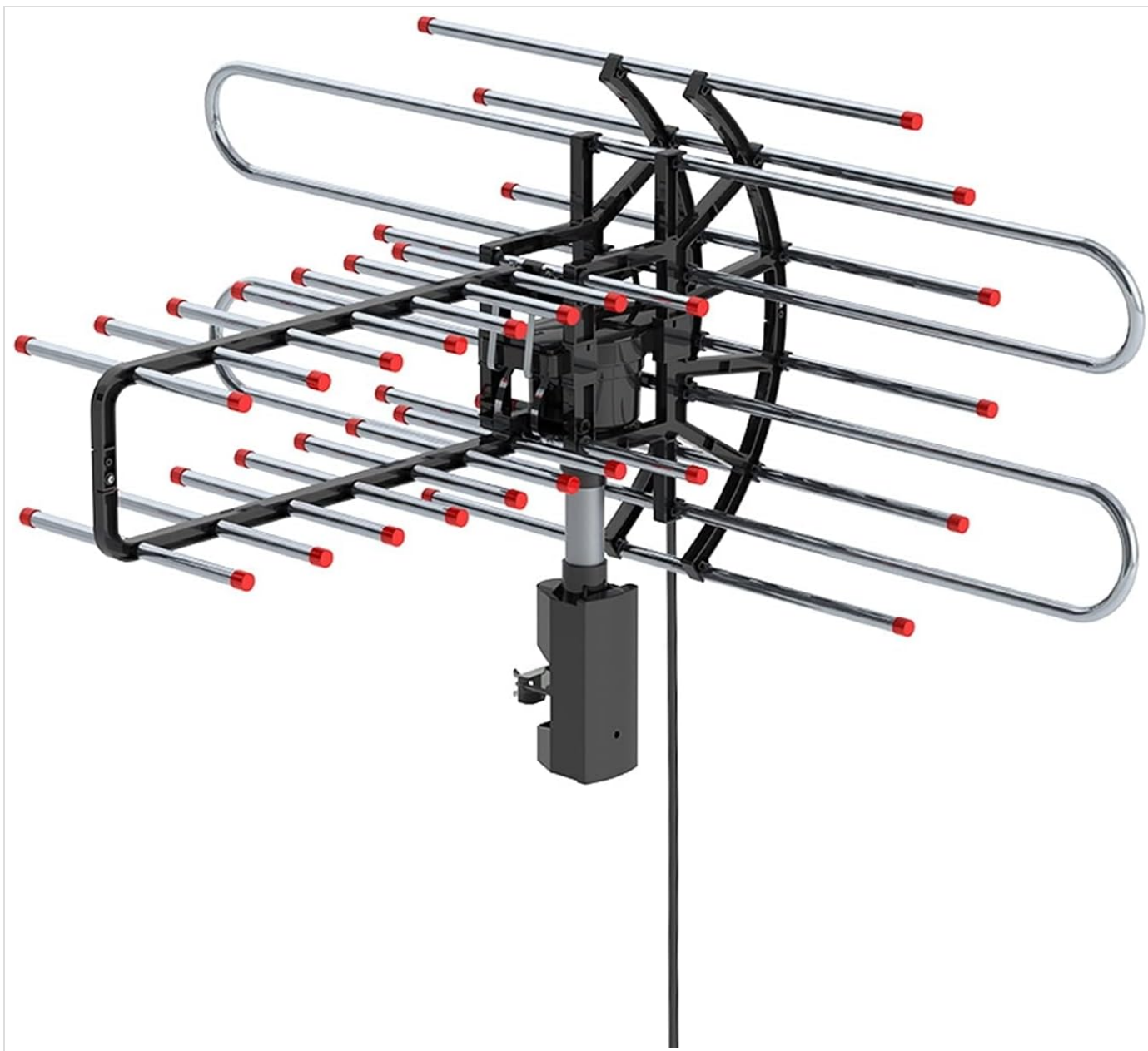


Figure 1: Leadzm TA-851 Plus Outdoor Antenna

The image displays the Leadzm TA-851 Plus outdoor antenna, showcasing its multi-element design for optimal signal reception. The antenna features a central mounting pole and multiple horizontal and vertical elements.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installation and operation. Failure to follow these instructions may result in injury or damage to the product.

- **Electrical Safety:** Ensure all power connections are secure and follow local electrical codes. Disconnect power before performing any maintenance.
- **Mounting Safety:** Install the antenna in a secure location, away from power lines and other obstructions. Use appropriate mounting hardware and ensure the structure can support the antenna's weight.
- **Lightning Protection:** The antenna is designed with lightning protection. For enhanced safety, ensure proper grounding of the antenna system according to local electrical codes.
- **Weather Conditions:** Avoid installation during severe weather conditions such as thunderstorms or high winds.
- **Children and Pets:** Keep packaging materials and small components away from children and pets.

3. PACKAGE CONTENTS

Verify that all components are present in the package before proceeding with installation.

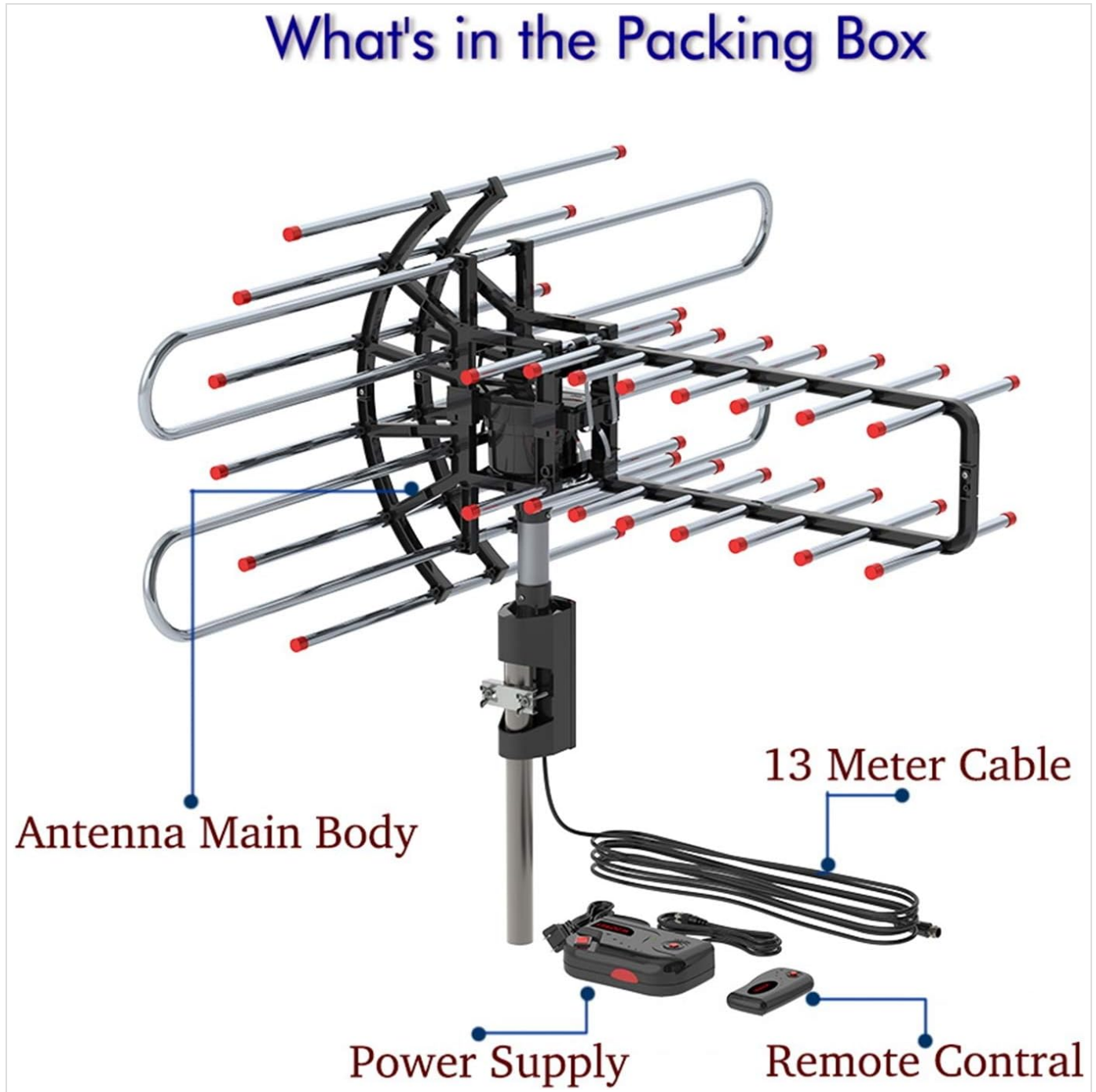


Figure 2: What's in the Packing Box

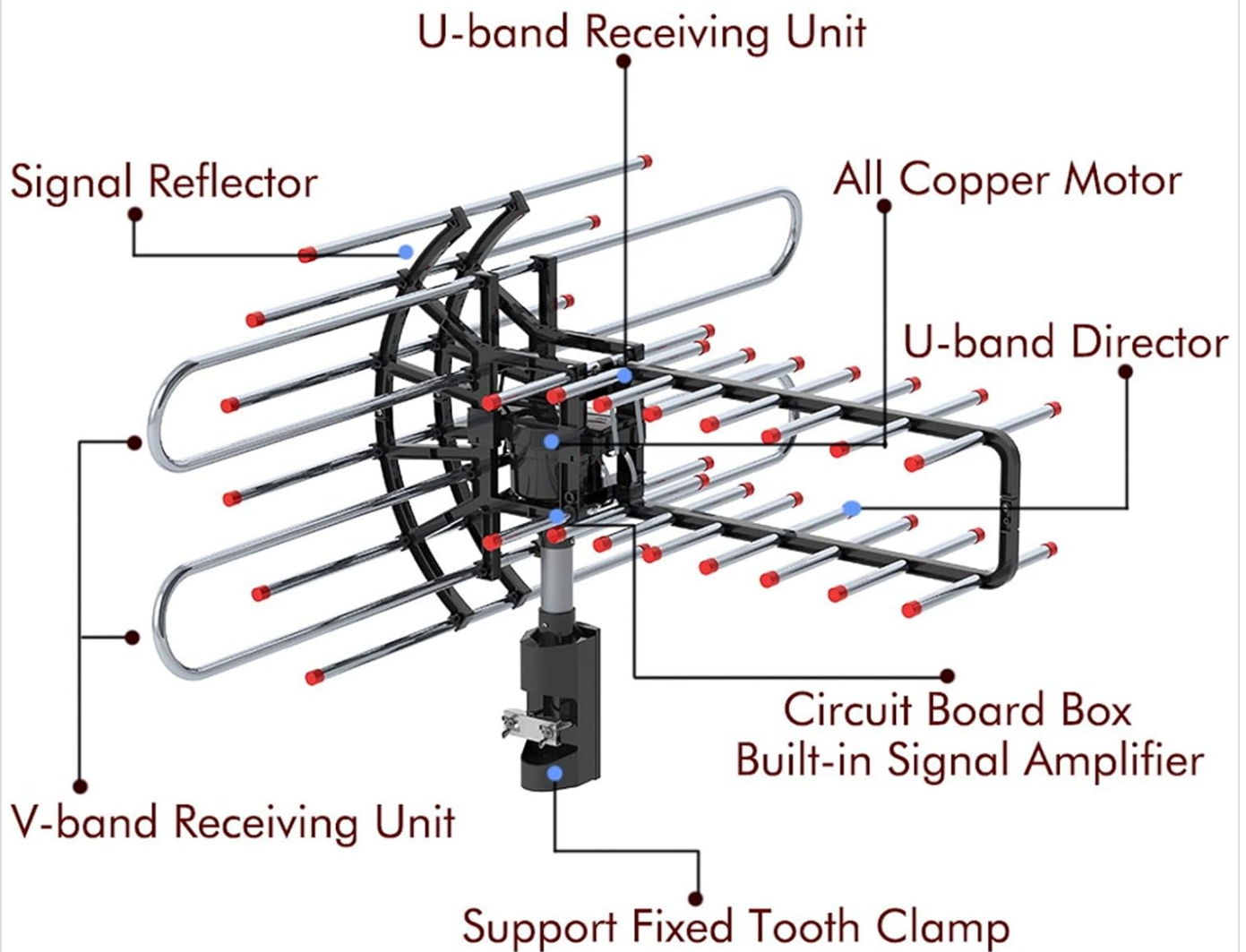
This image illustrates the contents of the antenna package, including the main antenna body, a coiled 13-meter cable, a power supply unit, and a remote control.

- Antenna Main Body (1)
- 13 Meter Coaxial Cable (1)
- Power Supply Unit (1)
- Wireless Remote Control (1)
- Mounting Hardware (Screws, clamps, etc. - specific items may vary)

4. SETUP

4.1 Antenna Structure Overview

Structure Diagram



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Figure 3: Structure Diagram

The diagram labels key components of the antenna: U-band Receiving Unit, Signal Reflector, V-band Receiving Unit, All Copper Motor, U-band Director, Circuit Board Box (Built-in Signal Amplifier), and Support Fixed Tooth Clamp.

4.2 Mounting the Antenna

The antenna is designed for outdoor installation, typically on a roof or a high pole, to achieve optimal signal reception. Ensure the mounting location is clear of obstructions.

1. **Select Mounting Location:** Choose a high position, such as a rooftop or a tall pole, to minimize signal interference from buildings or terrain.
2. **Attach to J-Pole Mount (Optional):** If using a J-pole mount, secure the antenna to the mount using the provided hardware.



Figure 4: Use the J-Pole Mount to Fix the Antenna

This image demonstrates how to attach the antenna to a J-pole mount, showing the bracket and screw points for secure fastening to a wall or roof.

3. **Secure Mounting Pole:** Fix the antenna's mounting pole to a stable support base. Ensure it is vertical and securely fastened to withstand wind and other environmental factors.

The Mounting Pole is fixed to the Support Base



Figure 5: The Mounting Pole is fixed to the Support Base

The image shows a close-up of the antenna's base being secured to a mounting pole, highlighting the clamp mechanism that holds the antenna firmly in place.

4. **Antenna Dimensional Drawing:** Refer to the dimensional drawing for precise measurements during installation planning.

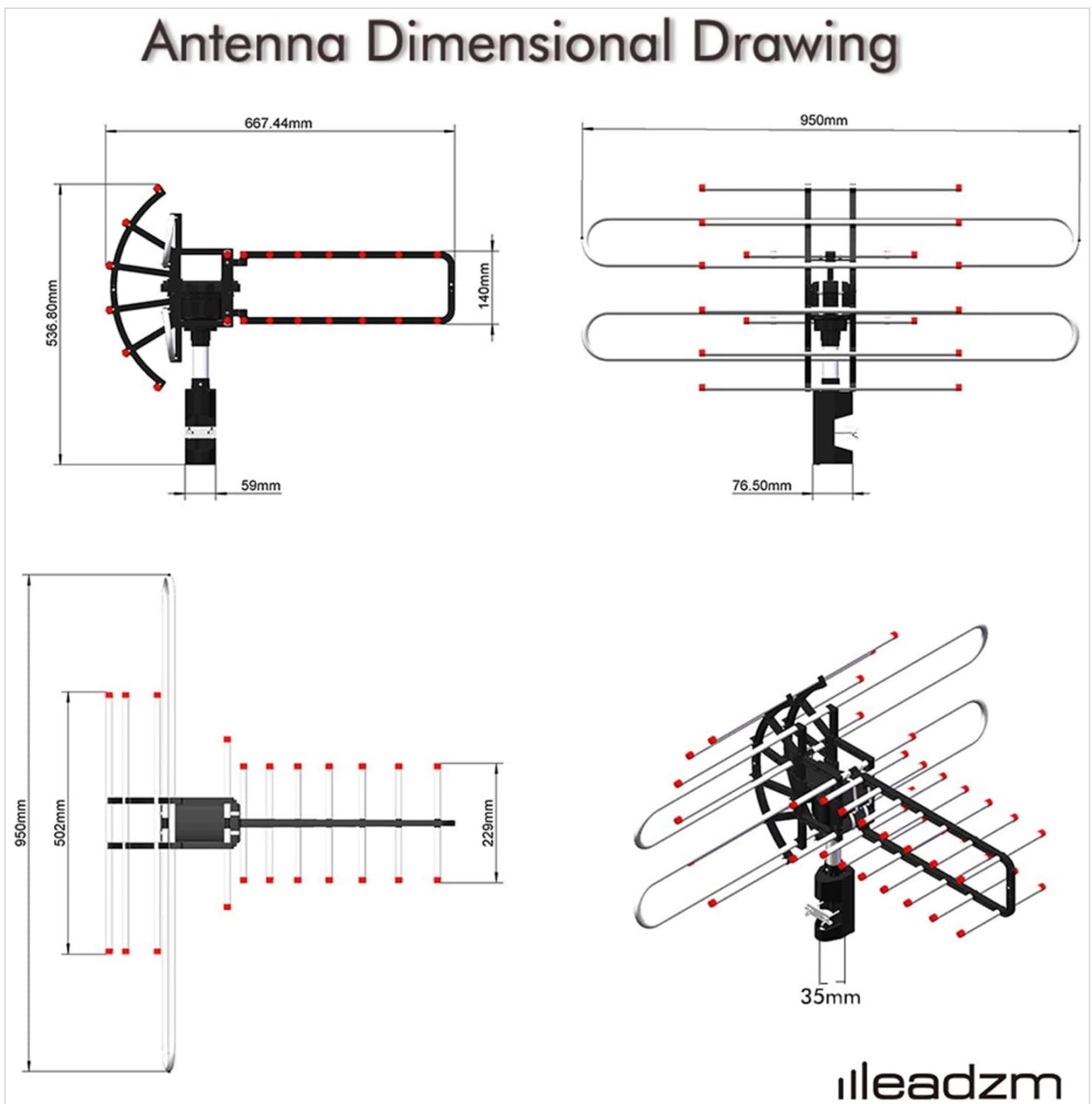


Figure 6: Antenna Dimensional Drawing

This image provides detailed dimensional drawings of the antenna from multiple perspectives, including top, side, and isometric views, with measurements in millimeters.

4.3 Connecting the Antenna

1. **Connect Coaxial Cable:** Attach one end of the 13-meter coaxial cable to the antenna's output port.
2. **Route Cable:** Carefully route the coaxial cable from the antenna to your television(s), ensuring it is protected from damage and weather elements.
3. **Connect to Power Supply:** Connect the other end of the coaxial cable to the input of the power supply unit.
4. **Connect to TV:** Connect the output of the power supply unit to the antenna input (ANT/IN) on your television.
5. **Power On:** Plug the power supply unit into a standard AC 110V / 60Hz electrical outlet.

5. OPERATING

5.1 Remote Control Operation

The antenna features a 3600 motorized rotation system, allowing you to adjust its direction for optimal signal reception using the

wireless remote control.

- **Insert Batteries:** Ensure 2 AAA batteries (not included) are correctly inserted into the remote control.
- **Rotate Antenna:** Use the directional buttons on the remote control to rotate the antenna. The antenna rotates at a speed of 2-4 rounds per minute.
- **Optimize Signal:** While rotating, monitor your TV's signal strength meter (if available) to find the best reception for desired channels.

5.2 Dual TV Output

The TA-851 Plus antenna is equipped with dual output ports, allowing you to connect and power two televisions simultaneously without the need for an external splitter or special adapter.

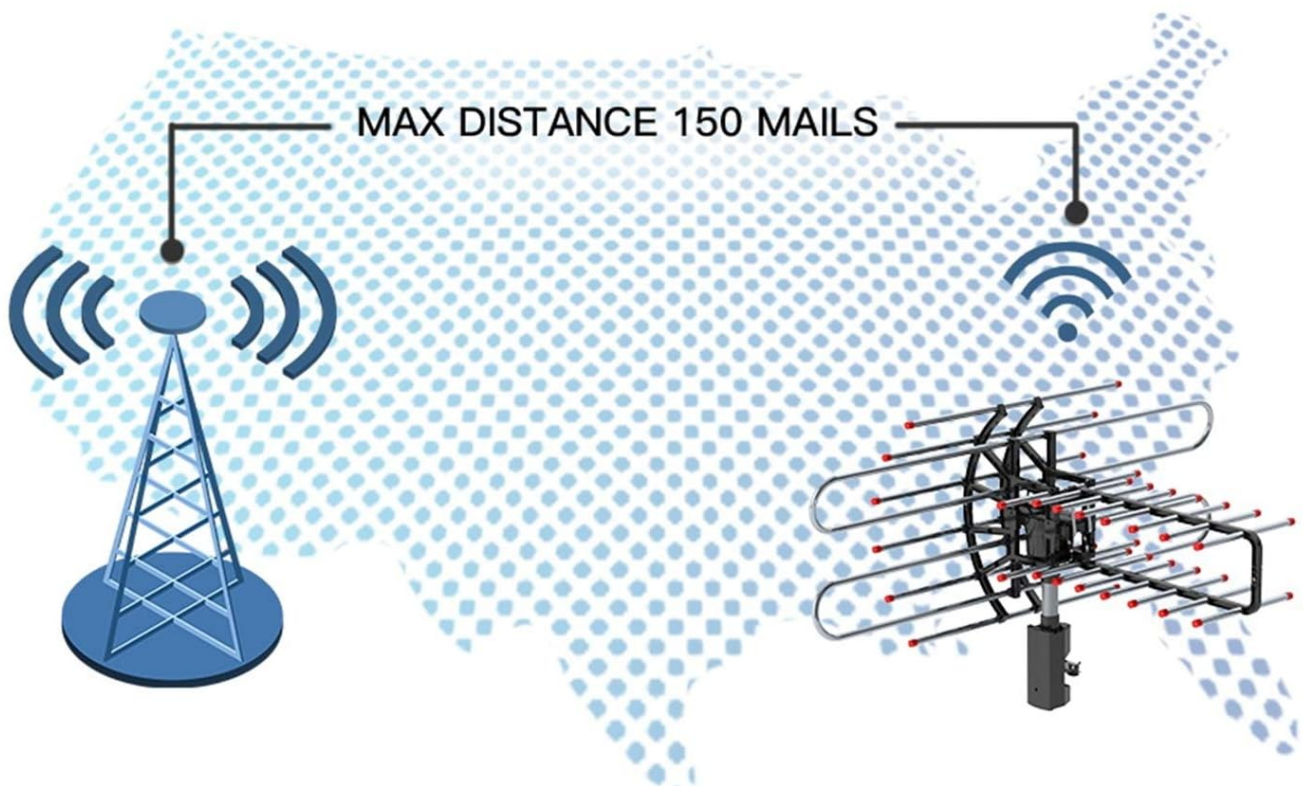
- Connect the second TV to the additional output port on the power supply unit.

5.3 Signal Reception

The built-in high gain booster and low noise amplifier enable the antenna to receive digital HDTV UHF/VHF signals within a 150-mile range, providing up to 1080P HD picture quality.

Built-In Signal Amplifier

Signal Receiving Distance 150 Miles
Larger Distance, More Choices



When there is a mountain or tall building between the TV antenna and the TV tower, it will affect the signal strength and receiving distance. Therefore, when installing the antenna, try to install it in a higher position, such as roof, high pole, avoiding buildings or mountain blocking.

Figure 7: Built-In Signal Amplifier

This graphic illustrates the antenna's signal receiving capability, showing a maximum distance of 150 miles from a broadcast tower, emphasizing that a larger distance provides more channel choices.



Figure 8: Watch TV For Free

The image shows the antenna superimposed over a map of the United States, suggesting wide coverage for free over-the-air television, with an inset showing a coaxial cable being cut, symbolizing "cutting the cord" from cable TV.

6. MAINTENANCE

The Leadzm TA-851 Plus antenna is constructed from durable ABS and aluminum materials, designed for longevity and resistance to outdoor elements. Regular maintenance is minimal but recommended to ensure optimal performance.

- **Periodic Inspection:** Periodically inspect the antenna and its mounting hardware for any signs of wear, corrosion, or loosening, especially after severe weather.
- **Cable Check:** Ensure the coaxial cable is free from cracks, kinks, or damage. Replace if necessary to maintain signal quality.
- **Cleaning:** If necessary, gently clean the antenna elements with a soft, damp cloth to remove dirt or debris that might accumulate and affect signal reception. Do not use harsh chemicals.

- **Grounding:** Verify that the antenna grounding system remains intact and effective.

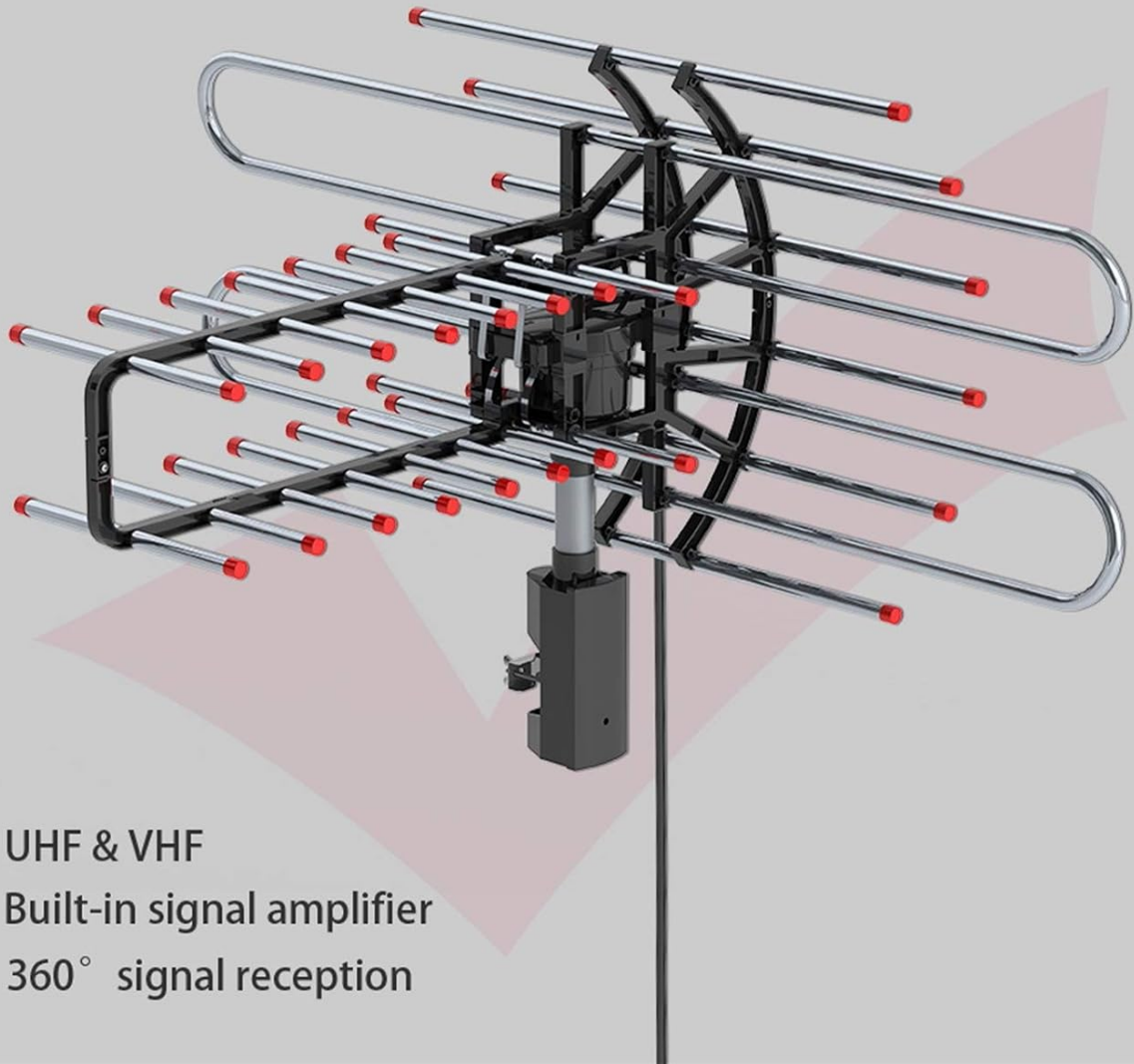
7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Signal or Poor Reception	Antenna not aimed correctly. Obstructions (buildings, mountains) blocking signal. Loose cable connections. Power supply not connected or faulty. TV tuner issue.	Use remote control to rotate antenna and find optimal direction. Consider relocating antenna to a higher position or clearer line of sight. Check all coaxial cable connections at the antenna, power supply, and TV. Ensure power supply is plugged in and receiving power. Perform a channel scan on your TV.
Remote Control Not Working	Dead or incorrectly inserted batteries. Remote control out of range. Obstruction between remote and antenna receiver.	Replace AAA batteries (ensure correct polarity). Ensure you are within the 5m remote controlled distance. Remove any obstructions between the remote and the antenna's receiver.
Antenna Not Rotating	Power supply issue. Motor malfunction.	Check power supply connection and ensure it's powered on. If power is confirmed and motor still doesn't respond, contact customer support.

8. SPECIFICATIONS

The Latest Upgrade TA-851PLUS⁺

2020 Smart Choice



- UHF & VHF
- Built-in signal amplifier
- 360° signal reception

Figure 9: The Latest Upgrade TA-851PLUS

This image highlights the key features of the TA-851 Plus antenna, including UHF & VHF reception, built-in signal amplifier, and 3600 signal reception.

Brand	Leadzm
Model	TA-851 PLUS / TA-851PL
Reception Range	150 Miles
Number of Outputs	Supports 2 TVs
Frequency	45-860 MHz
Gain	22-38dB
Rotation	3600 Motorized

Impedance	75 Ohm
Power Supply	AC 110V / 60Hz
Rotation Speed	2-4 rounds / min
Standing Wave Ratio	1.5
Noise Figure	2.5dB
Remote Controlled Distance	5m
Remote Control Battery	2 AAA Batteries (Not Included)
Product Dimensions	20.28 x 9.06 x 4.33 inches
Item Weight	4.19 pounds
UPC	729008247827

9. WARRANTY AND SUPPORT

Specific warranty information for the Leadzm TA-851 Plus antenna is not provided in this manual. Please refer to the product packaging or the manufacturer's official website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or inquiries regarding your antenna, please contact Leadzm customer service through their official channels. Contact information can typically be found on the manufacturer's website or on the product packaging.

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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

Answered questions about this manual

Where do I attach the straps to the bottom of the rotor on the Leadzm TA-851 Plus outdoor antenna?

Based on the Leadzm TA-851 Plus user manual, there are no "straps" mentioned as part of the standard assembly or rotor mechanism. It is possible you are referring to the Support Fixed Tooth Clamp...

[Read full answer](#)