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› HYS SMA Male Base 15.3-inch Foldable HT Antenna Instruction Manual

## HYS 15.3inch HT Antenna

# HYS SMA Male Base 15.3-inch Foldable HT Antenna Instruction Manual

## INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of your HYS SMA Male Base 15.3-inch Foldable HT Antenna. Designed for dual-band VHF/UHF frequencies (144Mhz/430Mhz), this antenna offers enhanced communication range and flexibility for compatible handheld transceivers.

Please read this manual thoroughly before using the antenna to ensure safe and effective operation.

## SETUP AND INSTALLATION

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The HYS SMA Male Base antenna is designed for easy attachment to radios with an SMA-Female connector. Ensure your radio has the correct connector type before attempting installation.

### Connecting the Antenna

1. **Identify Connector Types:** Locate the SMA-Female connector on your handheld radio. The antenna features an SMA-Male connector.
2. **Align and Screw:** Carefully align the SMA-Male connector of the antenna with the SMA-Female port on your radio. Gently screw the antenna clockwise until it is finger-tight. Do not overtighten, as this can damage the connectors.
3. **Verify Connection:** Ensure the antenna is securely attached and stands upright.



Image: The HYS SMA Male antenna being connected to a walkie-talkie. The image highlights the SMA-Male connector on the antenna and the SMA-Female port on the radio, illustrating the correct connection method.



## SMA MALE Antenna

Image: A detailed view of the HYS SMA Male antenna connector, showing its design and compatibility with SMA-Female radio ports.

### Antenna Flexibility and Folding

This antenna features a flexible and foldable design for portability and tactical use. It can be bent and secured using the integrated strap.



Image: The HYS SMA Male antenna shown in its folded configuration, secured by a strap, demonstrating its compact and portable design.

### **Video: Antenna Installation and Folding (Bingfu)**

Video: This video demonstrates the installation of a similar foldable antenna onto a handheld radio and showcases its flexible, foldable design. It illustrates how to properly attach the antenna and utilize its folding feature.

### **Video: Antenna Installation (RADIO MAX)**

Video: This video provides a demonstration of installing an antenna with an SMA-Female connector onto a handheld radio, showing the process of attaching and securing it.

### **Video: Wide Band Antenna Installation (RADIO MAX)**

Video: This video illustrates the installation of a wide band antenna with an SMA-Female connector onto a handheld radio, detailing the steps for secure attachment.

## **OPERATING THE ANTENNA**

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This antenna is designed to optimize the performance of your handheld radio across its supported frequency bands.

## Frequency Bands

The HYS antenna operates on dual bands: 2 meters (VHF: 144Mhz) and 70 centimeters (UHF: 430Mhz). It also supports a wider range of 136-174Mhz and 400-470Mhz.

## Optimizing Performance

- For best performance, ensure the antenna is fully extended and positioned vertically when transmitting and receiving.
- Avoid obstructing the antenna with your hand or body during operation.
- The foldable design allows for compact storage and transport. When in use, unfold the antenna to its full length for maximum efficiency.



Image: The HYS SMA Male antenna displayed with its full length of 15.3 inches (39 cm), indicating its extended operational size.

## Compatible Radios

This antenna is compatible with various handheld radios featuring an SMA-Female connector, including but not limited to:

- **YAESU/Vertex:** VX-3R, VX-6R, VX-7R, VX-8R, VX-150, FT-60R, VX-160, VX-180, VX-400, VX-300, VX-800, FT-270R, FT-250R, VX-230, VX-8DR, VX-8GR, FT-277R
- **TYT:** TH-2R, TH-F5, TH-F8, TH-UVF9, TH-UV3R, TH-UVF8D, TH-UV6R, TH-UV8R, TH-UVF9D, TH-UVF1, DM-UVF10, MD-280, MD-280 PLUS, MD-380, MD-UV380, MD-380GPS, MD-390, MD-UV390, MD-390GPS, MD-446, MD-680, TH-UV8000D, TH-UV8000E, TC-3000A, TC-3000B, TC-3000S, TH-UVF11

## Video: HYS Flexible Antenna Overview

Video: This video provides an overview of the HYS flexible antenna, showcasing its physical characteristics and how it can be used with a handheld radio.

## Video: HYS VHF UHF Dual Band Antenna

Video: This video highlights the features of the HYS VHF UHF Dual Band antenna, demonstrating its flexibility and suitability for various communication needs.

## MAINTENANCE

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Proper care and maintenance will extend the life and performance of your antenna.

- **Cleaning:** Wipe the antenna with a soft, damp cloth to remove dirt and dust. Avoid using harsh chemicals or abrasive cleaners.
- **Storage:** When not in use, store the antenna in a clean, dry place. The foldable design allows for compact storage.
- **Inspection:** Periodically inspect the antenna for any signs of damage, such as cracks in the casing or bent connectors. Replace if damaged.
- **Connector Care:** Keep the SMA-Male connector clean and free of debris to ensure a good electrical connection.



Image: A close-up of the HYS SMA Male antenna, showing a red rubber ring. Note: This ring is for decoration only and has no functional purpose.

## TROUBLESHOOTING

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If you experience issues with your antenna, consider the following common troubleshooting steps:

- **Poor Reception/Transmission:**

- Ensure the antenna is securely connected to the radio.
- Verify the antenna is fully extended and positioned vertically.
- Check for obstructions between your radio and the other party.
- Confirm your radio is set to the correct frequency band (VHF or UHF) for the communication.

- **Antenna Not Fitting:**

- Double-check that your radio has an SMA-Female connector. This antenna is SMA-Male. Incorrect connector types will prevent proper attachment.

- **Physical Damage:**

- Inspect the antenna for any visible damage. A damaged antenna may not perform optimally and should be replaced.

## SPECIFICATIONS

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Feature	Detail
Frequency Bands	2 Meter/70cm (144Mhz/430Mhz), 136-174Mhz & 400-470Mhz
Connector Type	SMA-Male
Gain	2.15/3.2dBi
Maximum Power Input	20W (for handheld radios less than 20W)
Material	ABS
Length	15.3 inches (approx. 39 cm)
Impedance	50 Ohms
Color	Camouflage&green
Manufacturer	QUANZHOU TRUEST COMMUNICATION CO. ,LIMITED

## WARRANTY AND SUPPORT

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For warranty information, product support, or technical assistance, please contact the seller or manufacturer directly. Retain your proof of purchase for any warranty claims.

Manufacturer: QUANZHOU TRUEST COMMUNICATION CO. ,LIMITED