



Manuals.plus /

› HYS /

› HYS SMA Female Dual Band VHF UHF 144/430Mhz 9.3inch Antenna Instruction Manual

HYS B09DT59LMC

HYS SMA Female Dual Band VHF UHF 144/430Mhz 9.3inch Antenna Instruction Manual

Model: B09DT59LMC | Brand: HYS

PRODUCT OVERVIEW

The HYS SMA Female Dual Band VHF UHF Antenna is designed for enhanced communication with compatible two-way radios. This 9.3-inch antenna supports both 2 Meter (144Mhz) and 70cm (430Mhz) bands, covering frequencies from 136-174Mhz and 400-470Mhz. It features an SMA-female connector and includes a unique LED light that illuminates during transmission, providing visual confirmation of signal activity.

Key Features:

- **Dual Band Operation:** Supports VHF (136-174Mhz) and UHF (400-470Mhz) frequencies.
- **SMA-Female Connector:** Ensures compatibility with a wide range of handheld radios.
- **Integrated LED Light:** Illuminates when transmitting, indicating active signal output.
- **Portable Design:** At 9.3 inches (23.5cm) in length, it offers a balance of performance and portability.
- **Durable Construction:** Suitable for various indoor and outdoor environments, including adventure clubs, camping, and self-driving travel.



Figure 1: HYS SMA Female Dual Band VHF UHF Antenna.



Figure 2: The antenna measures 23.5cm (9.25 inches) in length.

SETUP INSTRUCTIONS

To install the HYS antenna, ensure your two-way radio is powered off. Locate the antenna connector on your radio, which should be an SMA-male type to match the antenna's SMA-female connector. Carefully screw the antenna onto the radio's connector until it is finger-tight. Do not overtighten.



Figure 3: Detail of the SMA-female antenna connector and comparison with SMA-male.

The antenna is compatible with various handheld radios, including models from AnyTone, BaoFeng (e.g., UV-5R, BF-F8HP, UV-82, BF-888S), Wouxun (e.g., KG-UVD1P, KG-UV6D, KG-659), and some Kenwood radios.

Video 1: Demonstrates the attachment of the HYS antenna to a handheld radio, highlighting the LED light feature during transmission.

OPERATING INSTRUCTIONS

Once the antenna is securely attached, power on your two-way radio. The antenna is designed to operate across the 144MHz (VHF) and 430MHz (UHF) bands. When you transmit a signal, the integrated LED light at the tip of the antenna will illuminate, providing a visual indication that your radio is actively sending a signal. This feature is particularly useful in low-light conditions or when you need quick confirmation of transmission.



Figure 4: The antenna's LED light illuminates when the radio transmits.

For optimal performance, ensure your radio's frequency settings are within the antenna's supported ranges (136-174MHz and 400-470MHz). The antenna is rated for a maximum power input of 20W, suitable for most handheld radios.

Video 2: Overview of the HYS SMA Female Base Dual-Band HT VHF/UHF Antenna, demonstrating its form factor and flexibility.

MAINTENANCE

To ensure the longevity and optimal performance of your HYS antenna, follow these maintenance guidelines:

- **Cleaning:** Wipe the antenna with a soft, damp cloth to remove dust and dirt. Avoid using harsh chemicals or abrasive materials.
- **Storage:** When not in use, store the antenna in a clean, dry place away from extreme temperatures and direct sunlight.
- **Inspection:** Periodically check the antenna for any signs of damage, such as cracks in the casing or bent connectors. Replace if damaged.
- **Connector Care:** Keep the SMA-female connector clean and free of debris to ensure a secure and efficient connection to your radio.

TROUBLESHOOTING

If you experience issues with your HYS antenna, consider the following:

- **Poor Signal Quality:** Ensure the antenna is securely attached to the radio. Verify that your radio's frequency is within the

antenna's specified operating range. Obstructions or environmental factors can also affect signal quality.

- **LED Not Lighting Up:** Confirm that your radio is powered on and actively transmitting. If the LED still does not light up during transmission, the antenna may be faulty or the radio's output power might be too low to trigger the LED.
- **Reduced Range:** Check for any physical damage to the antenna. Ensure there are no large metallic objects or structures interfering with the signal path.

SPECIFICATIONS

Feature	Specification
Frequency Bands	VHF (136-174MHz), UHF (400-470MHz)
Connector Type	SMA-Female
Gain	2dBi
Color	Black
Maximum Power Input	20W (for handheld radios)
Antenna Length	9.3 inches (23.5 cm)
Item Weight	1.76 ounces
Impedance	50 Ohms

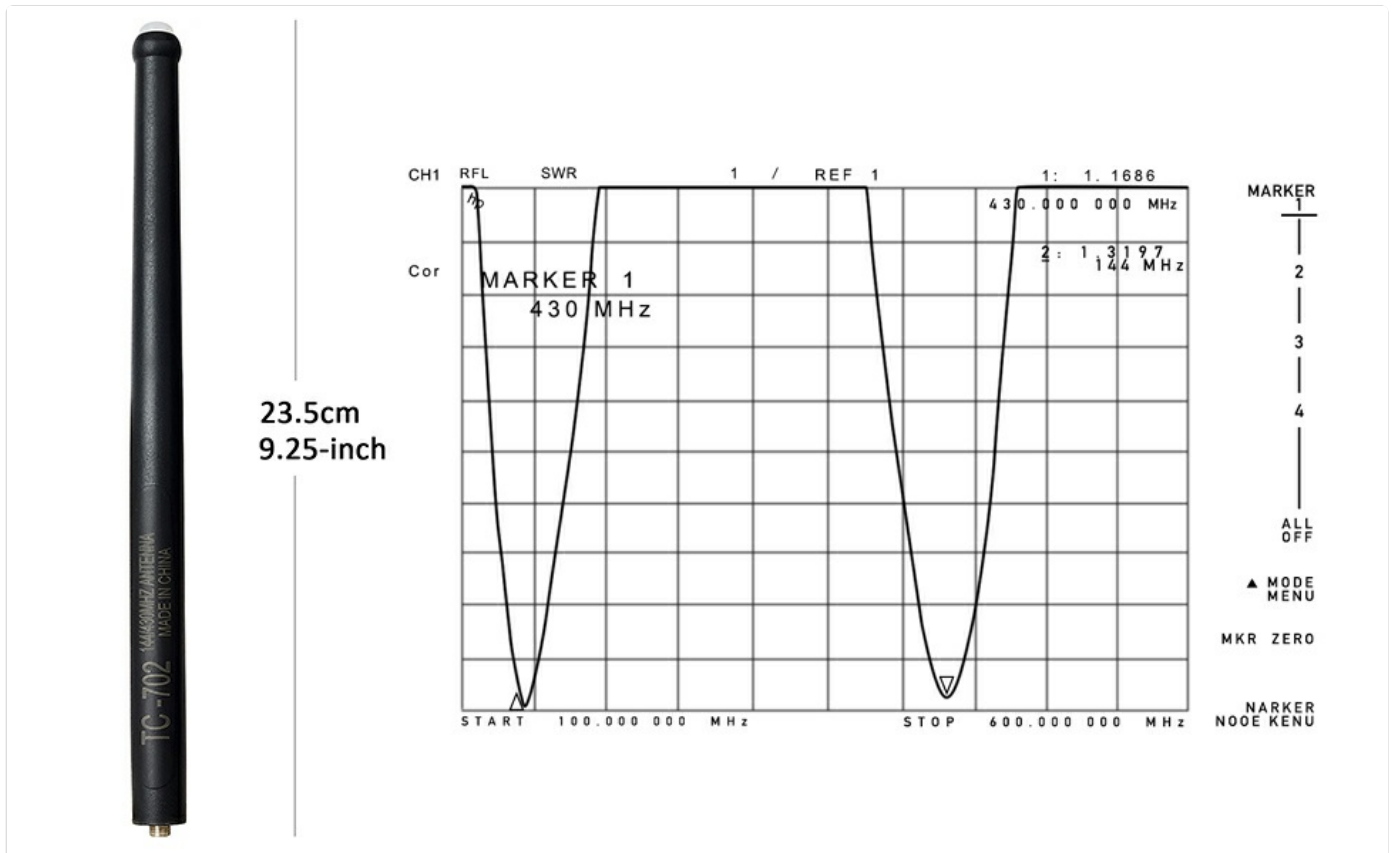


Figure 5: SWR (Standing Wave Ratio) chart for the antenna, indicating performance across frequency bands.

WARRANTY AND SUPPORT

For warranty information or technical support regarding your HYS SMA Female Dual Band VHF UHF Antenna, please refer to the product packaging or contact HYS customer service directly. Contact details are typically available on the manufacturer's official

website or through your point of purchase.