

BINGFU BFN00506

Bingfu Handheld Marine VHF Radio Antenna (136-174MHz) Instruction Manual

Model: BFN00506 | Brand: BINGFU

1. INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your Bingfu Handheld Marine VHF Radio Antenna. Please read these instructions carefully before use to ensure optimal performance and longevity of your product. This antenna is designed for use with handheld marine VHF two-way radios operating within the 136-174MHz frequency range.

2. PRODUCT OVERVIEW

The Bingfu Handheld Marine VHF Radio Antenna is a durable and flexible "rubber duck" style antenna featuring an SMA Male connector. It is designed for omni-directional signal reception and transmission, enhancing the communication capabilities of compatible marine VHF radios.



Figure 2.1: The antenna's flexible design allows for durability and resistance to bending.

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Video 2.1: Demonstration of the antenna's flexibility and SMA Male connector type.

3. SPECIFICATIONS

Frequency Range	VHF 136-174MHz
VSWR	< 2.0
Impedance	50 Ohm

Direction	Omni-directional
Antenna Connector	SMA Male
Antenna Height	15 cm (6 inches)
Net Weight	60g (per antenna)
Operating Temperature	-20°C ~ +80°C
Storage Temperature	-30°C ~ +85°C
Compatible Radios	Standard Horizon HX210, HX870, HX890, HX300, HX380, HX40, HX280, HX290, HX370; Uniden MHS75 Handheld Floating VHF Radio



Figure 3.1: The antenna measures approximately 15 cm (6 inches) in length.

4. SETUP INSTRUCTIONS

Follow these steps to properly attach the antenna to your compatible handheld marine VHF radio:

1. **Identify Connector Types:** Ensure your radio has an SMA Female connector and the antenna has an SMA Male connector.
2. **Align Connectors:** Carefully align the SMA Male connector of the antenna with the SMA Female connector on your radio.
3. **Screw On Antenna:** Gently screw the antenna onto the radio's connector in a clockwise direction. Do not overtighten, as this can damage both the antenna and the radio's connector. Tighten until snug.
4. **Check for Secure Fit:** Verify that the antenna is securely attached and there is no wobble.

5. **Optional Gasket:** If provided, ensure any rubber gasket or O-ring is properly seated to maintain water resistance, especially for marine radios.



Figure 4.1: Proper connection of the SMA Male antenna to an SMA Female radio port.

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Video 4.1: Visual guide on how to connect an SMA Male antenna to a radio with an SMA Female connector.

5. OPERATING INSTRUCTIONS

Once the antenna is securely attached, your radio is ready for operation. The antenna is omni-directional, meaning it receives and transmits signals from all directions. For optimal performance, ensure the antenna is positioned vertically and unobstructed.

- **Radio Power:** Turn on your handheld marine VHF radio.
- **Channel Selection:** Select the desired VHF channel according to marine communication regulations.
- **Transmission:** When transmitting, hold the radio with the antenna as vertical as possible. Avoid touching the antenna during transmission to prevent signal degradation.
- **Reception:** The antenna will receive signals from all directions. For best reception, maintain a clear line of sight if possible.

6. MAINTENANCE

Proper maintenance ensures the longevity and performance of your antenna:

- **Cleaning:** Clean the antenna periodically with a soft, damp cloth. Avoid harsh chemicals or abrasive materials.
- **Inspection:** Regularly inspect the antenna for any signs of damage, such as cracks in the rubber or corrosion on the connector.
- **Connector Care:** Keep the SMA Male connector clean and dry. If used in marine environments, consider applying a small amount of dielectric grease to the threads to prevent corrosion.
- **Storage:** When not in use for extended periods, store the antenna in a cool, dry place away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

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






- **Poor Signal Reception/Transmission:**
 - Ensure the antenna is securely attached to the radio.
 - Verify the antenna is compatible with your radio's frequency band (VHF 136-174MHz).
 - Check for any physical damage to the antenna or its connector.
 - Ensure there are no obstructions blocking the antenna's signal path.
 - Test the radio with a known working antenna to isolate the issue.
- **Antenna Not Fitting Securely:**
 - Confirm that your radio has an SMA Female connector. This antenna is SMA Male.
 - Inspect the threads on both the antenna and the radio for damage or debris.

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the manufacturer's official website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

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<div><div>RF Connector Usage Guidelines</div><div></div><div><div>Made in China</div></div></div>	<div>Bingfu RF Connector Usage Guidelines</div> <div>Concise guidelines for the proper installation and use of Bingfu RF connectors to ensure optimal performance and longevity.</div>
<div><div>Budget DIY GPS/GNSS Base Station / Receiver Setup With ESP32 and UM980</div><div></div></div>	<div>Budget DIY GPS/GNSS Base Station / Receiver Setup With ESP32 and UM980</div> <div>Learn how to build a cost-effective DIY GPS/GNSS base station or receiver using the ESP32 microcontroller and Unicorecomm UM980 module. This guide covers hardware, firmware, and configuration for creating a custom high-precision location system.</div>
<div></div>	<div>Produktliste und Preise für Elektronik und Zubehör</div> <div>Umfassende Liste von Elektronikprodukten und Zubehör mit detaillierten Preisinformationen. Entdecken Sie eine breite Palette von Marken und Artikeln, von Kopfhörern und Lautsprechern bis hin zu Computern und Mobiltelefonzubehör.</div>