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› RadioMaster R86 V2 6CH Receiver Instruction Manual

Xiangtat R86 V2 6CH Receiver

RadioMaster R86 V2 6CH Receiver Instruction Manual

Brand: Xiangtat

1. OVERVIEW

The RadioMaster R86 V2 6CH Receiver is a compact and reliable 2.4GHz receiver designed for remote control applications, particularly RC drones. It offers 6 PWM channels and is compatible with FrSky D8, D16, and Futaba SFHSS signal formats. This receiver supports RSSI return, providing essential signal strength information to your transmitter. Its robust design ensures stable performance over distances exceeding 1 kilometer.



Image: General view of the RadioMaster R86 V2 6CH Receiver.

2. SPECIFICATIONS

Feature	Description
Channels	6
Frequency Range	2400-2483.5Mhz
Power Input Range	4.5-6V
Signal Format	D8, D16 & SFHSS Compatible
Output Format	PWM
Range	More than 1km
Antenna Length	15cm
Size	28x16.5x11mm

Feature	Description
Weight	8 grams

Receiver Specifications

Channels: 6
Frequency range: 2400-2483.5Mhz
Power input range: 4.5-6V
Signal format: D8
Output format: PWM
Range: more than 1km
Antenna length: 15cm
Size: 28*16.5*11mm
Weight: 4.8g



R86

Image: Detailed specifications and pinout diagram for the R86 V2 receiver.

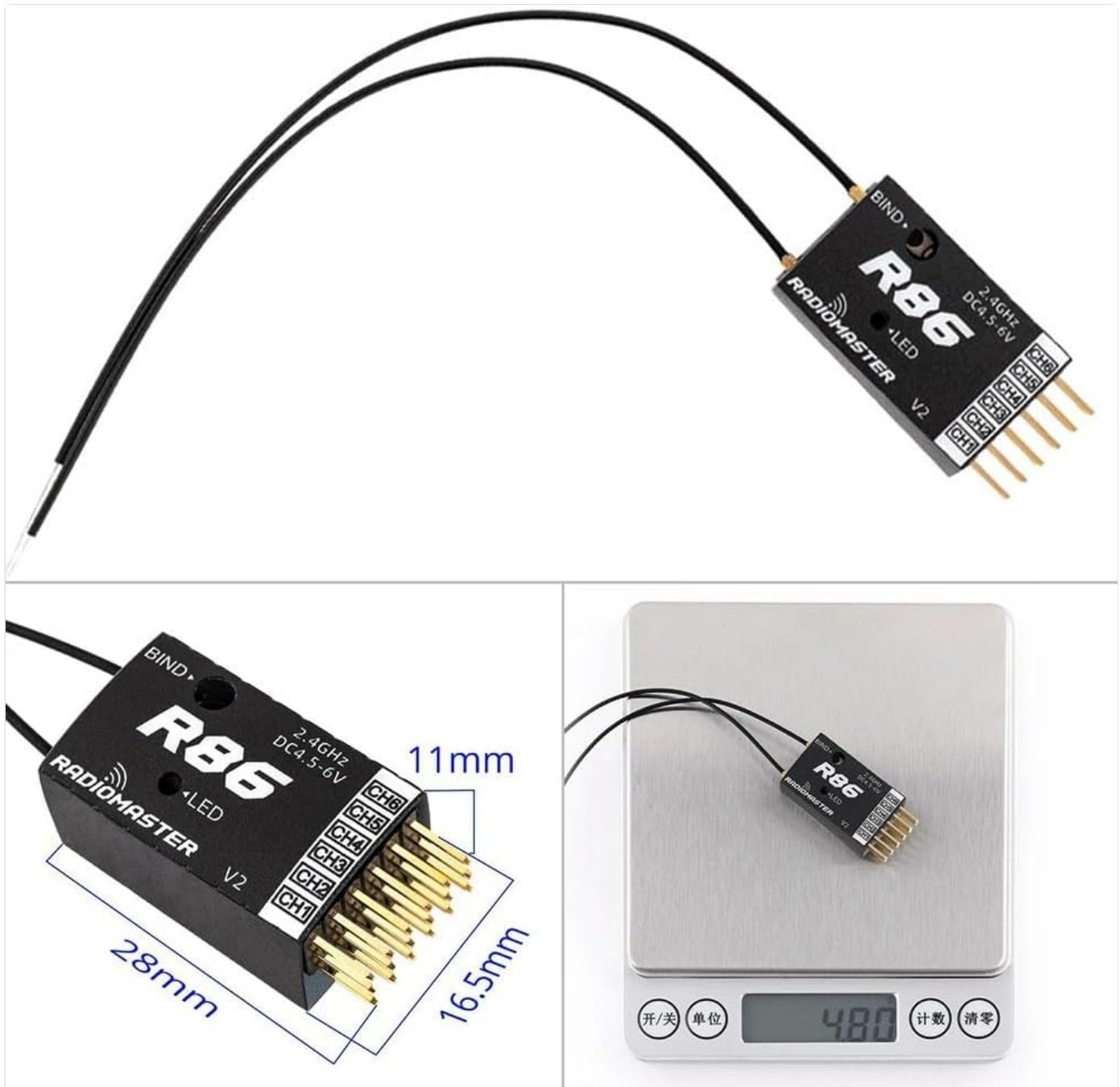


Image: The R86 V2 receiver showing its physical dimensions.

3. SETUP

Binding Method

Follow these steps to bind your R86 V2 receiver to your compatible remote control:

1. Press and hold the **BIND** button on the receiver. While holding the button, connect power to the receiver.
2. After approximately 3 seconds, the receiver's LED will turn **RED**, indicating that the receiver is now in bind mode.
3. On your remote control, select the D8 protocol from the multi-protocol menu and press the **[BIND]** option. The red light on the receiver will flash, indicating a successful bind.
4. Exit bind mode on your remote control. Disconnect power to the receiver, then power the receiver once more. The LED should now be solid **RED**, confirming the bind is complete. If the LED is not solid red, repeat steps 1 and 2.

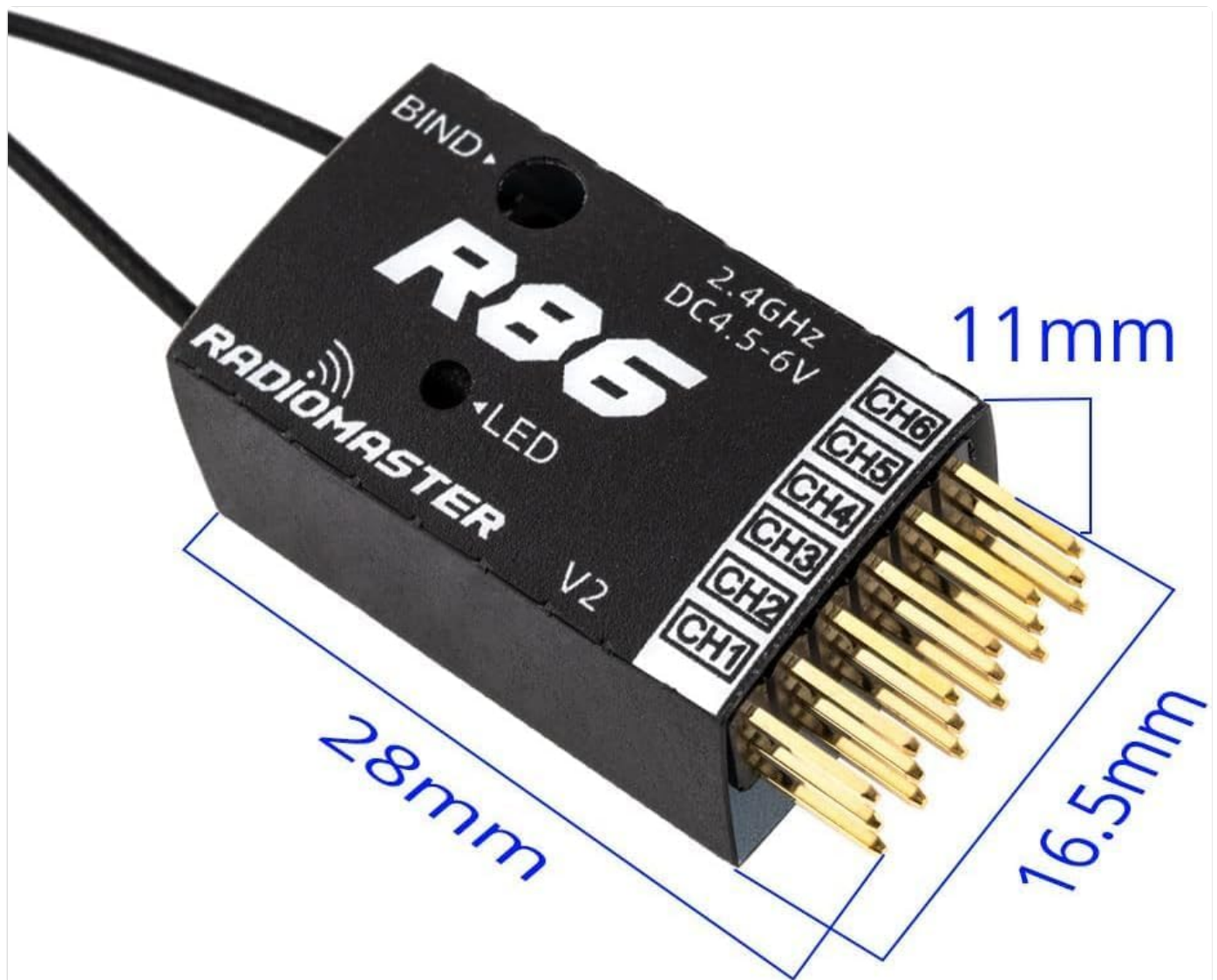


Image: Close-up view of the R86 V2 receiver, highlighting the bind button and LED indicator.

4. OPERATING

Fail-safe Protection

The fail-safe function ensures that your model behaves predictably in case of signal loss. To set up fail-safe:

1. Within 10 seconds of the receiver being powered on, press the **BIND** button once. The receiver will save all the current channel values of the remote control as the fail-safe values.
2. After 10 seconds from power-on, the **BIND** button function will be disabled to prevent accidental changes to the fail-safe settings during flight preparation.

RSSI Output

The R86 V2 receiver provides signal strength information (RSSI) for enhanced flight awareness. This receiver has a total of 9 channels:

- Channels 1-8 are controlled by the remote controller.
- The 9th channel is the signal strength RSSI value output by the receiver itself. This value can be read by a compatible flight controller and sent to an OSD (On-Screen Display) device to show real-time signal strength.

5. MAINTENANCE

To ensure optimal performance and longevity of your RadioMaster R86 V2 6CH Receiver, consider the following maintenance tips:

- Keep the receiver clean and free from dust, dirt, and moisture.
- Regularly inspect antenna connections for any signs of damage or loose contacts.
- Avoid exposing the receiver to extreme temperatures or direct sunlight for prolonged periods.
- Ensure proper ventilation around the receiver during operation to prevent overheating.

6. TROUBLESHOOTING

If you encounter issues with your RadioMaster R86 V2 6CH Receiver, consider these general troubleshooting steps:

- **Binding Issues:** Ensure your transmitter is set to the correct protocol (D8, D16, or SFHSS) and that the binding procedure is followed precisely. Check for interference from other 2.4GHz devices.
- **No Signal/Intermittent Signal:** Verify all connections are secure. Check the antenna placement; ensure they are not obstructed or damaged. Test the receiver's range in an open area.
- **Incorrect Channel Output:** Confirm your transmitter's channel mapping matches the receiver's expected output. Recalibrate your transmitter if necessary.
- **Power Issues:** Ensure the power input range (4.5-6V) is met and that the power source is stable.

For persistent issues, consult the official RadioMaster support resources or community forums for further assistance.

7. RELATED PRODUCT VIDEOS

RadioMaster Nomad Dual Band Gemini Xrossband ExpressLRS Module

This video introduces the RadioMaster Nomad ExpressLRS Module, a dual-band, dual-channel 1-watt module that enhances signal reliability and performance. While not the R86 receiver itself, it showcases related RadioMaster technology for advanced control systems.

RadioMaster ELRS PWM Receiver - ER Series

Explore the RadioMaster ER Series of PWM receivers, which are designed for various RC applications. This video provides an overview of features and benefits common to the ER series, offering insight into the broader receiver lineup.

Xiangtat RadioMaster TX16S MKII V4.0 16CH Transmitter

This video highlights the features of the RadioMaster TX16S MKII V4.0 16CH Transmitter, a compatible remote control for the R86 V2 receiver. It demonstrates the transmitter's capabilities and ergonomic design.

8. WARRANTY AND SUPPORT

For warranty information, technical support, or further inquiries regarding your RadioMaster R86 V2 6CH Receiver, please refer to the official [Xiangtat Store on Amazon](#) or contact their customer service directly. Keep your purchase receipt for warranty claims.

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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