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› LDARC X-BOSS AC900 S-FHSS D16 Dual Mode Receiver Instruction Manual

## LDARC AC900

# LDARC X-BOSS AC900 S-FHSS D16 Dual Mode Receiver Instruction Manual

Model: AC900

## INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your LDARC X-BOSS AC900 S-FHSS D16 Dual Mode Receiver. Please read these instructions carefully before use to ensure optimal performance and safety.

## PRODUCT OVERVIEW

The LDARC X-BOSS AC900 is a compact and high-performance dual-mode receiver designed for remote control applications. It offers compatibility with both S-FHSS and D16 (Non-EU/EU-LBT) protocols, providing flexibility for various transmitters. Key features include a Low Noise Amplifier (LNA) for improved signal reception and Real-Time RSSI (Received Signal Strength Indicator) output for monitoring signal quality.

This receiver is engineered for reliability, stable signal links, and high sensitivity, making it suitable for demanding RC environments.



Figure 1: Top-down view of the LDARC X-BOSS AC900 receiver, showing its compact size and integrated antenna.

## SPECIFICATIONS

- **Item:** AC900 Receiver
- **Weight:** 0.9g
- **Dimensions:** 10mm x 16.5mm

- **Operating Voltage:** 4-6V
- **Working Range (Air):** >500m (without electromagnetic interference)
- **Working Range (Ground):** ~200m (without obstructions)
- **LNA (Low Noise Amplifier):** Yes
- **RSSI (Received Signal Strength Indicator):** Yes
- **Work Modes:** S-FHSS / D16 (Non-EU) / D16 (EU-LBT)
- **Real-Time RSSI Compatibility:** F3, F4, F7 flight controllers, etc.
- **Package Contents:** 1x LDARC X-BOSS AC900 Receiver



Figure 2: Close-up view of the AC900 receiver's components, highlighting its compact design.

## SETUP: BINDING PROCEDURE

To establish communication between your transmitter and the AC900 receiver, a binding procedure is

required. Follow these steps carefully:

1. **Prepare Transmitter:** Power on your RC transmitter and set it to the desired protocol (either S-FHSS or D16, depending on your region and setup). Ensure your transmitter is in bind mode as per its own instruction manual.
2. **Power Receiver in Bind Mode:** While pressing and holding the bind button on the AC900 receiver, connect power (4-6V) to the receiver.
3. **Observe LED:** The green LED on the receiver will begin to blink rapidly, indicating it has entered bind mode. You may now release the bind button.
4. **Complete Binding:** Follow the remaining steps on your transmitter to complete the binding process.
5. **Verify Connection:** Once binding is successful, the green LED on the AC900 receiver should turn solid, indicating a stable connection. If the LED continues to blink slowly, the binding may have failed, or the signal is lost.

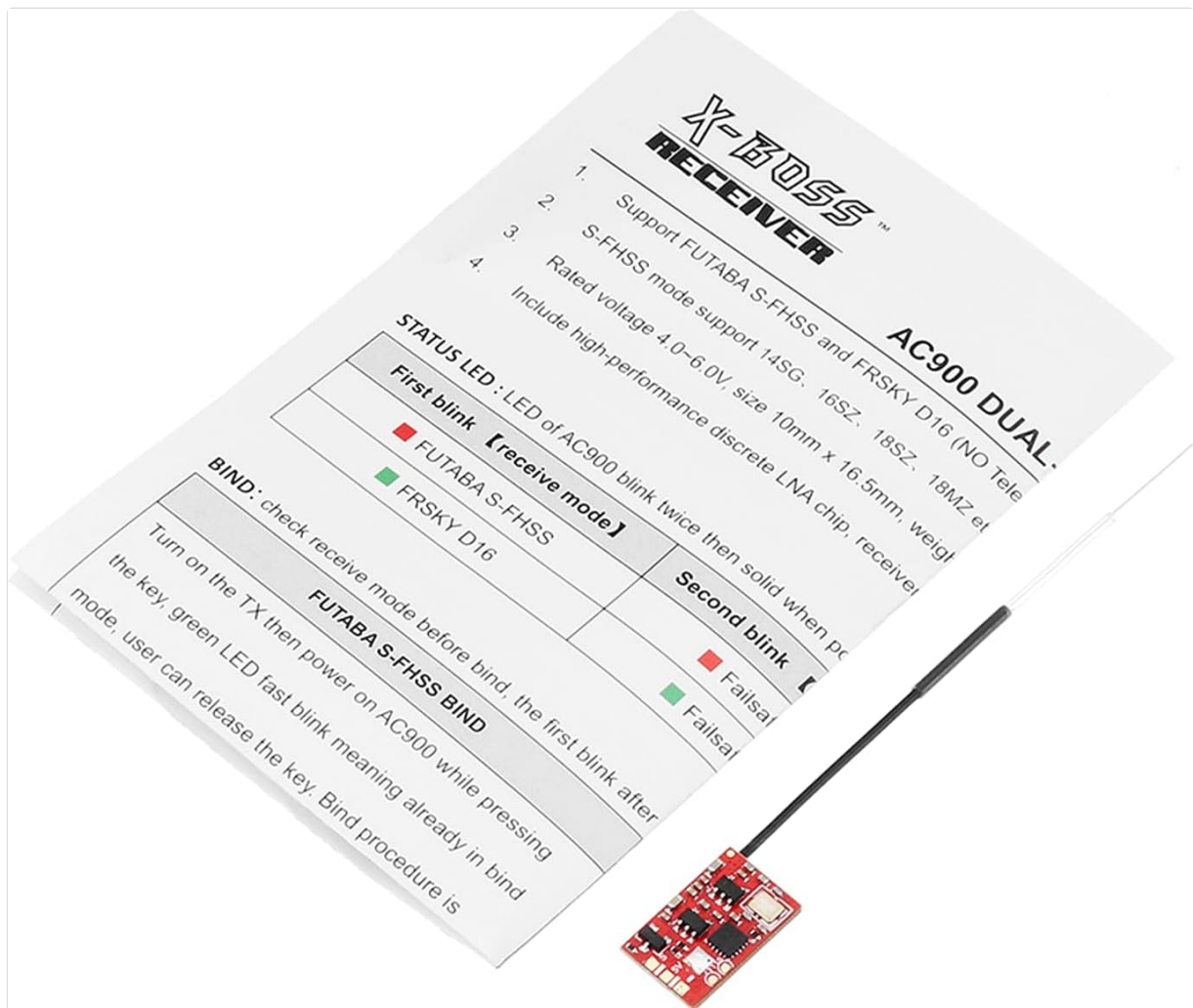


Figure 3: The AC900 receiver shown with its binding instructions, illustrating the LED indicators and bind button location.

## OPERATING MODES AND LED INDICATORS

The AC900 receiver supports multiple operating modes and provides visual feedback through its LED indicators:

- **S-FHSS Mode:** Compatible with Futaba S-FHSS protocol transmitters.
- **D16 Mode (Non-EU):** Compatible with FrSky D16 protocol transmitters (non-European firmware).
- **D16 Mode (EU-LBT):** Compatible with FrSky D16 protocol transmitters (European LBT firmware).

## LED Status Indicators:

- **Solid Green LED:** Indicates a successful bind and stable signal reception from the transmitter.
- **Rapid Green Blinking LED:** The receiver is in bind mode, awaiting connection with a transmitter.
- **Slow Green Blinking LED:** Indicates a loss of signal from the transmitter or that the receiver has entered failsafe mode.
- **First Blink (upon power-up):** The color of the first blink indicates the detected receive mode (e.g., Red for Futaba S-FHSS, Green for FrSky D16, as per some documentation).

## MAINTENANCE

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To ensure the longevity and reliable performance of your AC900 receiver, observe the following maintenance guidelines:

- **Keep Dry:** Protect the receiver from moisture and humidity. Water damage can lead to malfunction.
- **Cleanliness:** Periodically inspect the receiver for dust or debris. Use a soft, dry brush or compressed air to gently clean the board. Avoid using liquids.
- **Antenna Inspection:** Regularly check the antenna for any damage, kinks, or frayed wires. A damaged antenna can significantly reduce range and signal quality.
- **Connection Integrity:** Ensure all connections to the receiver (power, signal) are secure and free from corrosion.
- **Avoid Physical Stress:** Mount the receiver securely to prevent vibrations or impacts that could damage internal components.

## TROUBLESHOOTING

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If you encounter issues with your AC900 receiver, consider the following common troubleshooting steps:

- **Receiver Not Binding:**
  - Ensure your transmitter is set to the correct protocol (S-FHSS or D16) and is in bind mode.
  - Verify that you are pressing the bind button on the receiver while applying power.
  - Check the power supply to the receiver (must be 4-6V).
  - Try moving the transmitter closer to the receiver during the binding process.
- **Loss of Signal / Intermittent Connection:**
  - Inspect the receiver antenna for damage or improper placement. Ensure it is not shielded by carbon fiber or metal.
  - Check for potential sources of electromagnetic interference (e.g., motors, ESCs, video transmitters) near the receiver.
  - Verify that the transmitter's power output is adequate and its antenna is properly oriented.
  - Ensure the receiver's power supply is stable and within the specified voltage range.
- **No Response from Controls:**
  - Confirm the receiver is successfully bound (solid green LED).
  - Check all wiring connections between the receiver and your flight controller or servos.
  - Verify that your flight controller firmware is correctly configured for the receiver's output (e.g., SBUS, PPM).

## WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official LDARC website or contact your retailer. Keep your proof of purchase for any warranty claims.