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› RadioMaster Boxer Crush EdgeTX Remote Controller User Manual

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Model: Boxer Crush

Brand: RadioMaster

INTRODUCTION

The RadioMaster Boxer Crush is a premium 16-channel remote controller designed for advanced RC enthusiasts. Featuring the powerful EdgeTX firmware for extensive customization and ELRS for robust, low-latency connectivity, this controller offers unparalleled precision and durability. Equipped with AG01 Hall Gimbals, it ensures accurate and responsive control for various RC models, including drones, airplanes, and boats. Its compact and ergonomic design makes it comfortable for extended use.



Figure 1: Front view of the RadioMaster Boxer Crush Remote Controller.

SAFETY INFORMATION

Please read and understand all safety warnings and instructions before operating the RadioMaster Boxer Crush. Failure to do so may result in injury or damage to the product or other property.

- This product is intended for external use only.
- Always ensure the remote controller's battery is adequately charged before use.
- Operate RC models in open areas, away from people, animals, and obstacles.
- Do not expose the controller to water or extreme temperatures.
- Keep out of reach of children.
- Refer to the specific RC model's manual for additional safety guidelines.

PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- RadioMaster Boxer Crush Remote Controller
- USB-C Cable
- Antenna

- Gimbal Protectors
- Carry Case (may vary by package)
- Quick Start Guide



Figure 2: Typical package contents for the RadioMaster Boxer Crash.

SETUP

1. Battery Installation and Charging

1. The Boxer Crash requires 7.4V 2-cell Lithium-Polymer or two 3.7V 18650 Lithium-ion cells (batteries not included).
2. Open the battery compartment cover on the back of the controller.
3. Insert the batteries, ensuring correct polarity.
4. Close the battery compartment.
5. Connect the supplied USB-C cable to the controller's USB-C port and a suitable USB power source (e.g., computer, wall adapter). The charging indicator will show charging status.

2. Antenna Attachment

- Carefully screw the included antenna onto the antenna connector at the top of the controller until finger-tight. Do not overtighten.
- Ensure the antenna is properly oriented for optimal signal transmission during operation.

3. Initial Power On and Firmware Check

- Press and hold the power button until the screen illuminates.
- The controller will boot into the EdgeTX operating system.
- It is recommended to check for the latest EdgeTX firmware updates via the official EdgeTX website

(www.edgetx.org) and update if necessary using the USB/SD card method or EdgeTX Companion PC software.

OPERATING INSTRUCTIONS

1. Navigation and Controls

The Boxer Crush features a monochrome LCD display and various buttons, switches, and gimbals for control:

- **Gimbals (AG01 Hall Gimbals):** Control primary flight surfaces (e.g., Aileron, Elevator, Throttle, Rudder).
- **Switches (SA, SB, SC, SD, SE, SF, SG, SH):** Assignable for various functions like flight modes, gear, or auxiliary channels.
- **Trims (T1, T2, T3, T4):** Adjust the neutral position of the gimbals.
- **Menu Buttons:** Navigate through the EdgeTX menu system.
- **Scroll Wheel:** Used for menu navigation and value adjustment.

2. Model Setup (EdgeTX)

EdgeTX offers extensive customization for different models:

1. From the main screen, press the **SYS** button to enter the System menu.
2. Navigate to **MODEL SELECT** and select an empty model slot or create a new one.
3. Configure model type (e.g., airplane, helicopter, multirotor), internal RF module (ELRS 2.4GHz), external module settings (if applicable), and channel mapping.
4. Set up mixes, curves, logical switches, and special functions as required for your specific model.
5. Ensure proper binding with your receiver. Refer to your receiver's manual for binding procedures.

3. ELRS Module Operation

The integrated ELRS 2.4GHz module provides reliable long-range control:

- Ensure your receiver is also ELRS compatible and running a compatible firmware version.
- Binding typically involves powering on the receiver three times, or using a bind phrase set in EdgeTX.
- Adjust ELRS power output and packet rate settings within the EdgeTX menu for optimal performance based on your flying environment and receiver capabilities.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the controller. Avoid abrasive cleaners or solvents.
- **Storage:** Store the controller in a cool, dry place, away from direct sunlight and extreme temperatures. Use the provided carry case for protection during transport and storage.
- **Gimbals:** The AG01 Hall Gimbals are designed for durability and precision. Avoid applying excessive force or exposing them to dust and debris. Periodically check for smooth movement.
- **Firmware Updates:** Regularly check for and install the latest EdgeTX firmware updates to ensure optimal performance, new features, and bug fixes.
- **Battery Care:** If storing for extended periods, charge the batteries to a storage voltage (typically 3.8V per cell) to prolong their lifespan.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Controller does not power on.	Low or dead battery; incorrect battery installation.	Charge the battery; ensure batteries are installed with correct polarity.
No control signal to RC model.	Not bound to receiver; incorrect model setup; receiver power issue.	Perform binding procedure; verify model settings in EdgeTX; check receiver power supply.
Gimbals not responding correctly.	Calibration needed; physical obstruction.	Recalibrate gimbals via EdgeTX menu; check for debris around gimbals.
Screen is blank or frozen.	Firmware issue; system crash.	Perform a hard reset (power off/on); consider reflashing firmware if persistent.

SPECIFICATIONS

Feature	Detail
Model	Boxer Crush
Dimensions	9.3 x 7 x 3 inches (235 x 178 x 77 mm)
Weight	1.4 pounds (617.1 g)
Frequency	2.400GHz-2.480GHz
Internal RF	ELRS 2.4GHz
Supported Protocols	Module dependent (ELRS 2.4GHz internal)
Cooling Fan	Built-in (ELRS version)
Voltage Range	6.6-8.4V DC
Radio Firmware	EdgeTX (Transmitter) / ELRS (RF module)
Channels	Max 16 channels (Receiver dependent)
Battery	7.4V 2-cell Lithium-Polymer / Two 3.7V 18650 Lithium-ion cells (batteries not included)
Display	128*64 Monochrome LCD display
Gimbal Type	AG01 CNC Hall Gimbal
External Module Support	JR / FrSKY / Crossfire compatible
Upgrade Method	USB / SD card & EdgeTX Companion PC software
Compatible Devices	RC models, drones, airplanes, boats

SPECIFICATION

Item	Boxer Crush Radio
Color	Iron Grey / Frost White / Mint Mist / Hot Pink / Cherry Red / Iceberg Blue / Lemon Twist Yellow
Size	235*178*77mm
Weight	617.1g
Frequency	2.400GHz-2.480GHz
Internal RF	ELRS 2.4GHz
Supported Protocols	Module dependent
Cooling Fan	Built in (ELRS version)
Voltage Range	6.6-8.4V DC
Radio Firmware	EdgeTX (Transmitter) / ELRS (RF module)
Channels	Max 16 channels (Receiver dependent)
Battery	7.4V 2-cell Lithium-Polymer / Two 3.7V 18650 Lithium-Ion cells (batteries not included)
Display	128*64 Monochrome LCD display
Gimbal	AG01 CNC Hall Gimbal
External Module	JR / FrSKY / Crossfire compatible
Upgrade Method	USB / SD card & EdgeTX Companion PC software

Figure 3: Detailed specifications of the RadioMaster Boxer Crush.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official RadioMaster website or contact your authorized dealer. Keep your proof of purchase for warranty claims.

- **Online Resources:** Visit the official RadioMaster website for firmware downloads, FAQs, and community forums.
- **Customer Service:** Contact the seller or manufacturer for direct support regarding product issues or warranty claims.

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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.

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