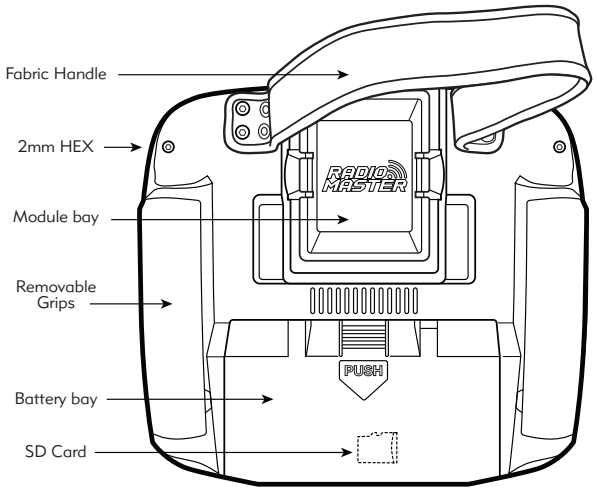
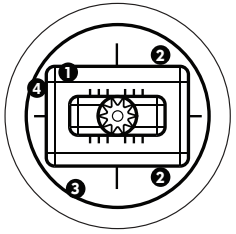
BACK



GIMBALS



1 **Horizontal tensioner** (Left-Right) CW to increase, CCW to decrease.

2 **Stick travel limiter** CW to increase, CCW to decrease.

3 **Vertical tensioner** (Up-Down) CW to increase, CCW to decrease.

4 **Gimbal mode** CW to disable self-centering, CCW to enable

CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This product contains a radio transmitter withwireless technology which has been tested and found to be compliant with the applicable regulations governing a radio transmitter in the 2.400GHz to 2.4835GHz frequency range.

ANTENNA SEPARATION DISTANCE

When operating your RadioMaster transmitter, please be sure to maintain a separation distance of at least 20 cm between your body (excluding fingers, hands, wrists, ankles and feet) and the antenna to meet RF exposure safety requirements as determined by FCC regulations.

RADIOMASTER

WWW.RADIOMASTERRC.COM

EU SIMPLE DECLARATION OF CONFORMITY

RadioMaster declares the radio equipment Boxer is in compliance with EU directives Directive 2014/53/EU.

Manufacturer by
ShenZhen RadioMaster Co., Ltd
4th Floor, Yangtian Building, No. 18 Yangtian Road, Xin'an Street, Baoan District, Shenzhen, Guangdong

FCC ID: 2A337-BOXER-4IN1 2A337-BOXER-ELRS

FCC Information
This equipment has been tested and found to comply with the limits for Part 15 of the FCC rules. This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Full text of the declaration of conformity is available at:
www.radiomasterrc.com

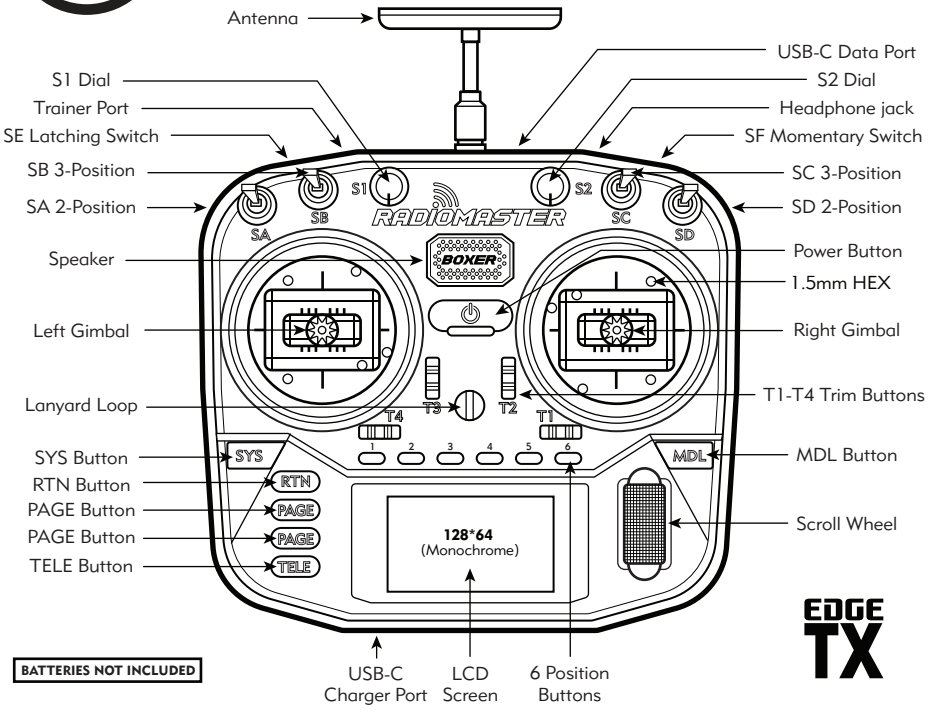
CE FC

RADIOMASTER
BOXER

2.4 GHZ

Quick Start Guide

Voltage Range
6.6-8.4V DC



BATTERIES NOT INCLUDED

EDGE TX

SPECIFICATIONS

- Item: BOXER Radio
- Size: 235*178*77mm
- Weight: 532.5g
- Frequency: 2.400GHz-2.480GHz
- Internal RF Options: CC2500, 4in1, ELRS 2.4GHz
- Supported Protocols: Module dependent
- Voltage Range: 6.6-8.4V DC
- Firmware: EdgeTX
- Control distance: Max 2km
- Channels: Max 16 channels (RX dependent)
- Battery Options: 7.4V 2-cell Lithium-Polymer or 2x 3.7V 18650 Lithium-Ion
- LCD Display: 128*64 Monochrome (Optional)
- Gimbals: Hall gimbals
- External module: JR / FrSKY / CRSF compatible
- Upgrade Method: USB / SD card & EdgeTX Companion PC software

INTRODUCTION

Thank you for purchasing the RadioMaster Boxer 2.4GHz remote control system. The system is versatile and can be used by beginners and professionals. In order to ensure the correct and safe use of this product, please read this manual carefully before use. Due to constant improvements in software and hardware this manual may change over time. The information contained in this manual is subject to change without notice.

Visit our website for the most up to date information. Boxer remote control is suitable for all types of fixed-wing aircraft, gliders, helicopters, cars, boats, robotics, multi-rotor aircraft and anything else you might create, if you can build it RadioMaster can control it.

The Boxer uses a powerful operating system called EdgeTX, for more information visit the links.

-The RadioMaster team

SAFETY INFORMATION

Many remote-control models are equipped with powerful motors and sharp propellers. When using or maintaining models, proceed with caution. When performing assembly or maintenance, make sure to disconnect the power to the model and remove the propellers.

Do not operate the Boxer remote control system under the following conditions:

- In severe weather or strong windy conditions, such as rain, hail, snow, storms or electromagnetic environments.
- In any situation where visibility is limited.
- In areas where people, property, high-voltage power lines, public roads, vehicles or animals may be present.
- If you feel tired or unwell, or under the influence of drugs or alcohol.
- If the remote control or model seems to be damaged or not working properly.
- In areas with high 2.4GHz interference or where 2.4GHz radio is prohibited.
- When the radios battery voltage is too low to be used.
- In areas where local regulations prohibit the use of aviation models.

IMPORTANT

ANTENNA: Install the provided antenna in the top of the radio BEFORE installing batteries and turning on the radio. **DO NOT** operate the radio without the antenna installed and the internal RF module powered on. Doing so will damage the internal RF module and will not be covered under warranty.

FIRMWARE: The Boxer is pre-installed with the most stable firmware at the factory at time of release. please only attempt to update the firmware if you are confident in the process. Incorrect firmware updates may cause the remote control to become inoperable.

MANUAL & FIRMWARE DOWNLOAD

Boxer is pre-installed with factory approved EdgeTX firmware. To download the latest software manual, please visit the RadioMaster website:
www.radiomasterrc.com

Further firmware information:
EdgeTX: **www.edgetx.org**
ExpressLRS: **www.expresslrs.org**
Multi Protocol Module: **www.multi-module.org**

BATTERIES & CHARGING

Boxer has a built-in USB-C charging function for 3.7V lithium batteries. The charging circuit is only designed to charge 2x 3.7V Li-ion 18650 or 2x 3.7V Li-Poly batteries (2s 7.4v Lipo battery pack), the nominal battery voltage is 3.7V, the charged voltage is 4.2V/Cell.

DO NOT use LiFE battery packs or 18650 lithium-ion batteries with a nominal voltage of 3.6v with a fully charged voltage of 4.10V. Charging the incorrect type of battery may damage the charger or cause a fire.

If using Li-ion, ensure the cells are not protected and are button-top cells.

Please check the voltage and condition of the battery regularly and never charge unattended. Always charge in a safe area away from combustible materials. Refrain from charging if the remote control gets wet or damaged in any way. **DO NOT** charge with the polarity reversed.

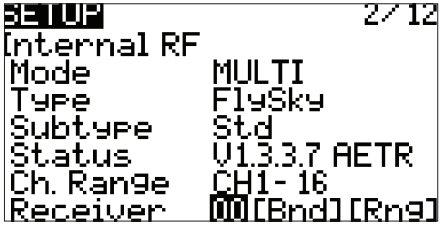
RadioMaster does not assume any responsibility for any adverse consequences caused by the use or misuse of this product.

MODEL & PROTOCOL SELECTION

Multi-protocol Module

The Boxer controller comes with a 4in1 or CC2500 multi-protocol internal RF module, which are compatible with several different protocols. To view the latest list of all compatible protocols, please visit the multi module website.

Please note that new protocols will be constantly updated and added to the latest firmware. Some new protocols may require firmware upgrades



- Long press the **MDL** button to enter the model settings, select **MULTI** in the **SETUP** page, and select the protocol to be used in the sub-options. The system will automatically turn on the corresponding RF module according to the RF protocol you selected.
- Bind **[BND]** is used to start the binding process.
- Range **[RNG]** button can reduce the power to 1/30 to facilitate testing of remote-control distance.

ATTENTION

4in1/CC2500 Users: The receiver you are using may require frequency tuning, follow this link to tune before flight.

www.multi-module.org/using-the-module/frequency-tuning

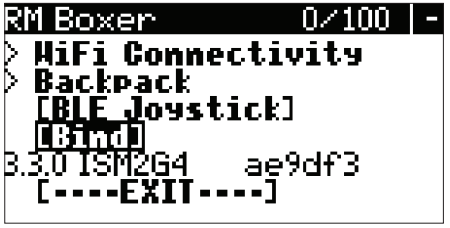
WARRANTY & REPAIR

If there is any problem with your remote control hardware, please keep the proof of purchase and contact the retailer where you purchased the Boxer.

You may also visit our warranty support page:
www.radiomasterrc.com/contact

ELRS Version

Boxer ELRS units are equipped with an internal ELRS module. For optimal performance, we recommend enabling Dynamic Power and using a 500Hz or lower packet rate to extend battery life and minimize heat generation by the internal module.



BIND INSTRUCTIONS

1. **TURN OFF** the transmitter.
2. Cycle power to the receiver 3 times, the receiver LED will flash twice - indicating bind mode.
3. **TURN ON** the transmitter, long press the **SYS** button and choose **ExpressLRS LUA** under the **TOOLS** menu. Scroll to **[Bind]** and press enter.
4. The LED on the receiver should now be solid, indicating a successful bind.