

RADIOMASTER M2 ZORRO Radio Controller



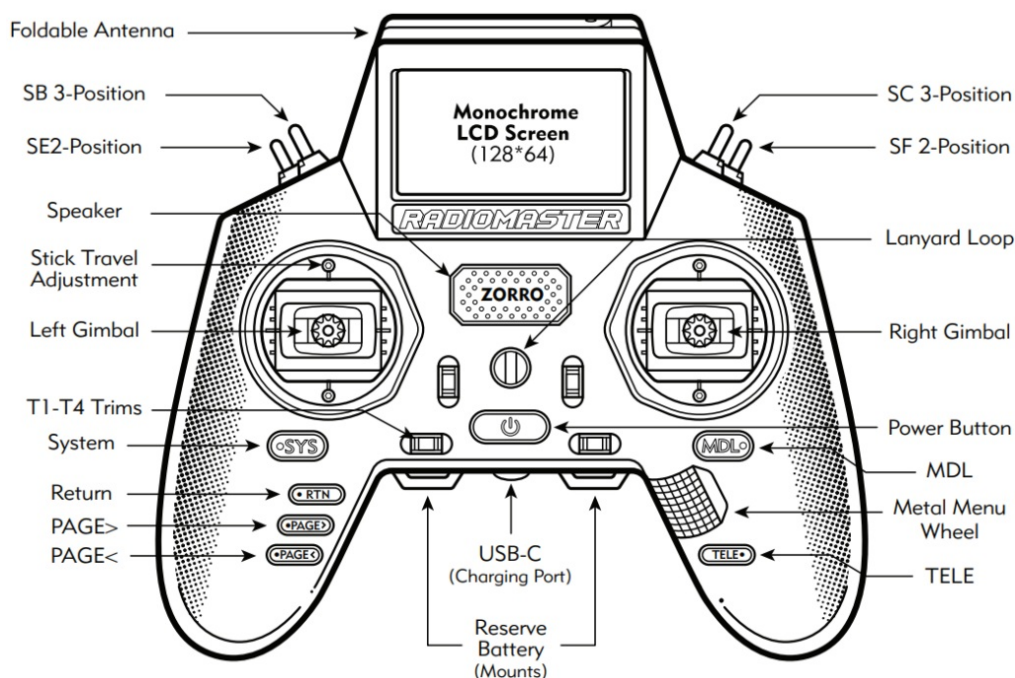
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SPECIFICATIONS

- Item: **ZORRO Radio**
- Size: **170*159*108mm**
- Weight: **350g**
- Frequency: **2.400GHz-2.480GHz**
- Internal RF Options: **CC2500, ELRS 2.4GHz**
- Supported Protocols: **Module dependent**
- Control distance: **Max 2km**
- Firmware: **Edge TX**
- Channels: **Maximum 16 (RX dependent)**
- Display: **128*64 Monochrome LCD**
- Battery: **2x 18350 (Not included)**
- Charging: **Built in USB-C Charging**
- Upgrade method: **Via USB or SD card**
- Gimbals: **Hall-effect**

- Module bay: **Nano size (Compatible w/ TBS Nano CRSF, Nano Tracer, Radio Master Nano-size modules)**



INTRODUCTION

Thank you for purchasing the Radio Master ZORRO radio system. Advanced and highly versatile, ZORRO is adaptable for pilots of any skill level. To ensure safe and reliable operations, please read this manual carefully prior to use.

As the software and hardware are constantly improved, the information contained in this manual is subject to change without prior notice. Please visit our website for up-to-date information and radio firmware.

ZORRO is an open-sourced, ergonomic radio with powerful multi-protocol capability. Able to bind to most contemporary protocols on the market, this is one radio to rule them all! ZORRO runs Edge TX, an open-sourced operating system; for more information, please visit the Edge TX links.

-The Radio Master team

SAFETY INFORMATION

Radio-controlled models commonly contain sharp components like propellers, rotating at high RPM; when operating or maintaining the model, always use common sense and

proceed with caution.

Always disconnect power to the model AND remove propellers (if applicable) during the assembly or maintenance process.

Never operate the ZORRO radio system in the following conditions:

- In severe weather or strong windy conditions, such as rain, hail, snow, storms or electromagnetic environments.
- In limited visibility.
- In the proximity of other people, property, high-voltage power lines, public roads, vehicles or animals
- When feeling unwell, or under the influence of drugs or alcohol.
- If the ZORRO radio system/model is damaged or showing signs of interference.
- In areas with high 2.4GHz interference or where 2.4GHz radios are prohibited.
- When the TX/RX battery is low.
- In areas where local regulations prohibit the use of R/C aircraft.

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: ZORRO 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

ZORRO is pre-installed with factory approved Edge TX firmware. To download the latest software manual, please visit the Radio Master website: www.radiomasterrc.com

Further firmware information:

Edge TX: www.edgetx.org

Express LRS: www.expresslrs.org

Multi Protocol Module: www.multi-module.org

BATTERIES & CHARGING

ZORRO is powered by (2x) 3.7V 18650 Lithium Ion cells and is charged using the built-in USB-C port.

The charging circuitry is designed for charging (2x) 3.7V Lithium Ion batteries only. The nominal voltage is 3.7V and the maximum charging voltage is 4.2V.

DO NOT charge 3.6V LiFe and 3.6V 18650 Lithium Ion packs with the onboard charger. Charging or using the wrong battery chemistry/polarity may cause permanent damage to the PCB and in certain situations cause fires.

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.

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

MODEL & PROTOCOL SELECTION

Multi-protocol Module

Depending on the package purchased, ZORRO CC2500 single-chip multi-protocol module built in.

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

```
SETUP 2/12
[Internal RF
Mode      MULTI
Type      FlySky
Subtype    Std
Status     V1.3.3.7 AETR
Ch. Range  CH1- 16
Receiver   [Bnd][Rng]
```

- 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 dist.

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 product.

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

ELRS Version

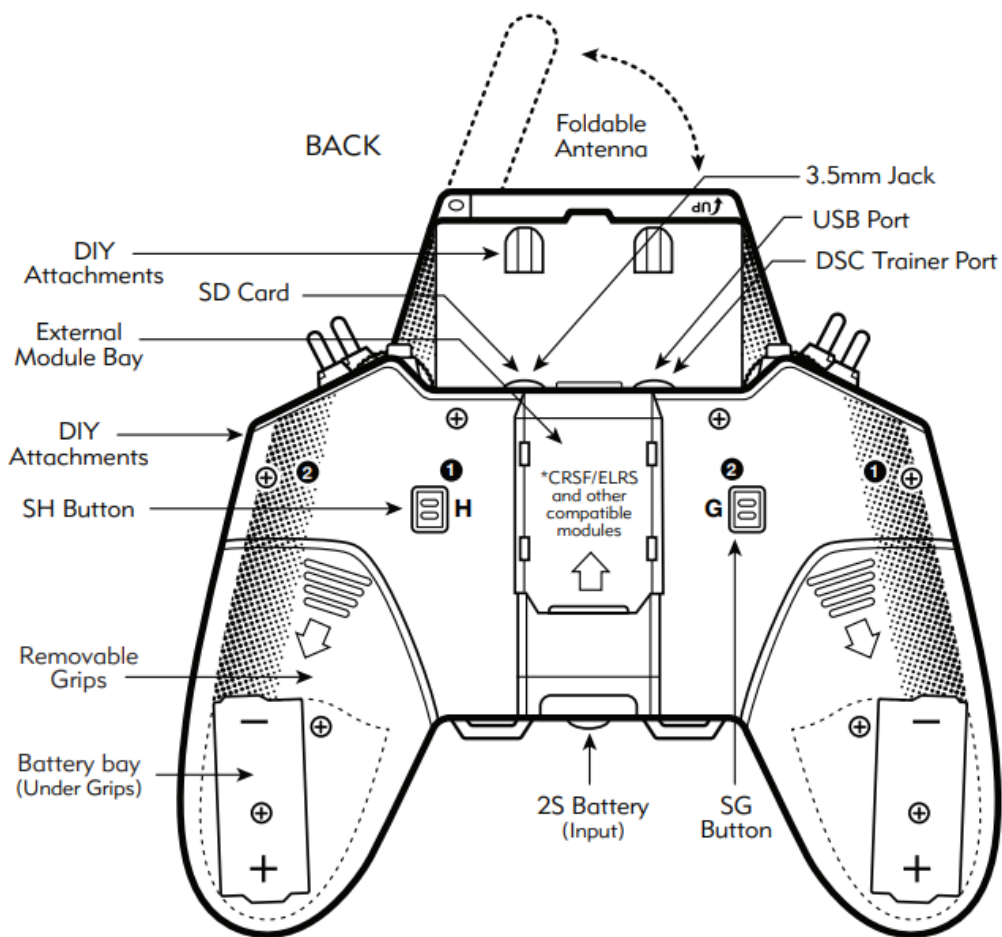
ZORRO ELRS units are equipped with an internal ELRS module. For optimal performance, we recommend enabling Dynamic Power and using a 500Hz or lower packet rate to extend battery life and minimize heat generation by the internal module.

```
TOOLS 1/7
01 DSM FwdPrg
02 ExpressLRS
03 FrSky GsSuite
04 FrSky RB30_RB40
05 FrSky SBEC
06 FrSky SxR
07 Graupner HoTT
```

```
RM Zorro 0/100 | -
> HiFi Connectivity
> Backpack
  [BLE Joystick]
  [Bind]
3.3.0 ISM2G4 ae9df3
  [---EXIT---]
```

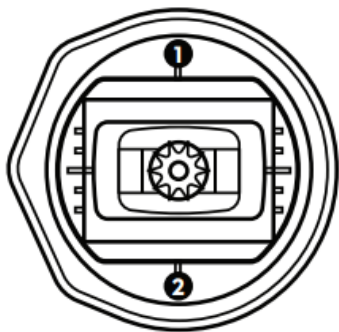
BIND INSTRUCTIONS

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 Express LRS 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.



GIMBALS

1. Self-centering & Throttle Adjustment
2. Spring Tension Adjustment



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 with wireless 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 Radio Master 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.

EU SIMPLE DECLARATION OF CONFORMITY

Radio Master declares the radio equipment ZORRO is in compliance with EU directives Directive 2014/53/EU.

Manufacturer by

ShenZhen Radio Master Co., Ltd
4F Yang Tian Building, Area 72 Xing Dong community,
Xin An Street, Bao An district
Shen Zhen City, Guangdong Province, China

FCC ID: 2A337ZORRO- **FCC ID:** 2A337ZORRO

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


CUSTOMER SUPPORT

WWW.RADIOMASTERRC.COM





Documents / Resources

	RADIOMASTER M2 ZORRO Radio Controller [pdf] User Guide M2, M2 ZORRO Radio Controller, M2, ZORRO Radio Controller, Radio C ontroller, Controller
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References

- [User Manual](#)

controller, M2, M2 ZORRO Radio Controller, Radio Controller, Radiomaster, Zorro Radio

Radiomaster Controller

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