

## 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 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.

**RADIO  
MASTER**

WWW.RADIOMASTERRC.COM

## EU SIMPLE DECLARATION OF CONFORMITY

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

**Manufacturer by**  
ShenZhen RadioMaster 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](http://www.radiomasterrc.com)

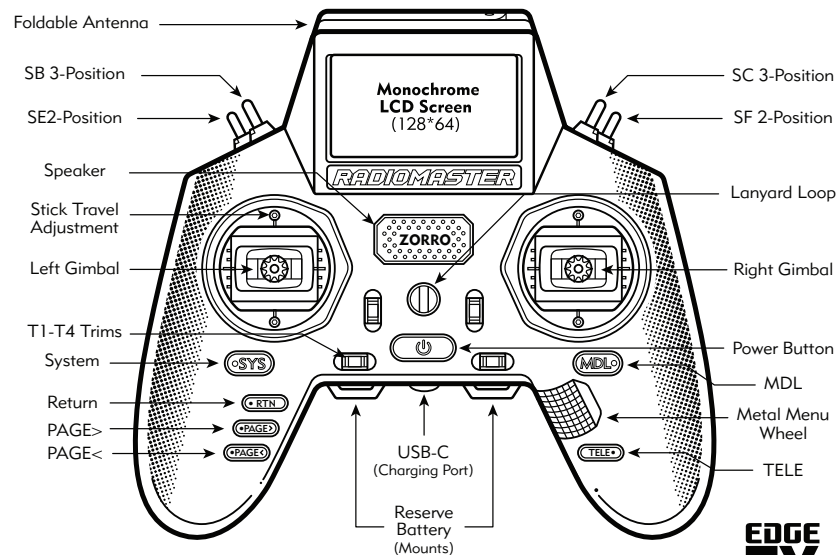


**RADIOMASTER  
ZORRO**

**2.4  
GHZ**

## Quick Start Guide

**Voltage Range**  
6.6-8.4V DC



**BATTERIES NOT INCLUDED**

## SPECIFICATIONS

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

## INTRODUCTION

Thank you for purchasing the RadioMaster 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 EdgeTX, an open-sourced operating system; for more information, please visit the EdgeTX links.

-The RadioMaster 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 EdgeTX firmware. To download the latest software manual, please visit the RadioMaster website: [www.radiomasterrc.com](http://www.radiomasterrc.com)

Further firmware information:  
EdgeTX: [www.edgetx.org](http://www.edgetx.org)  
ExpressLRS: [www.expresslrs.org](http://www.expresslrs.org)  
Multi Protocol Module: [www.multi-module.org](http://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.

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

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 00[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 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](http://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](http://www.radiomasterrc.com/contact)

### ELRS Version

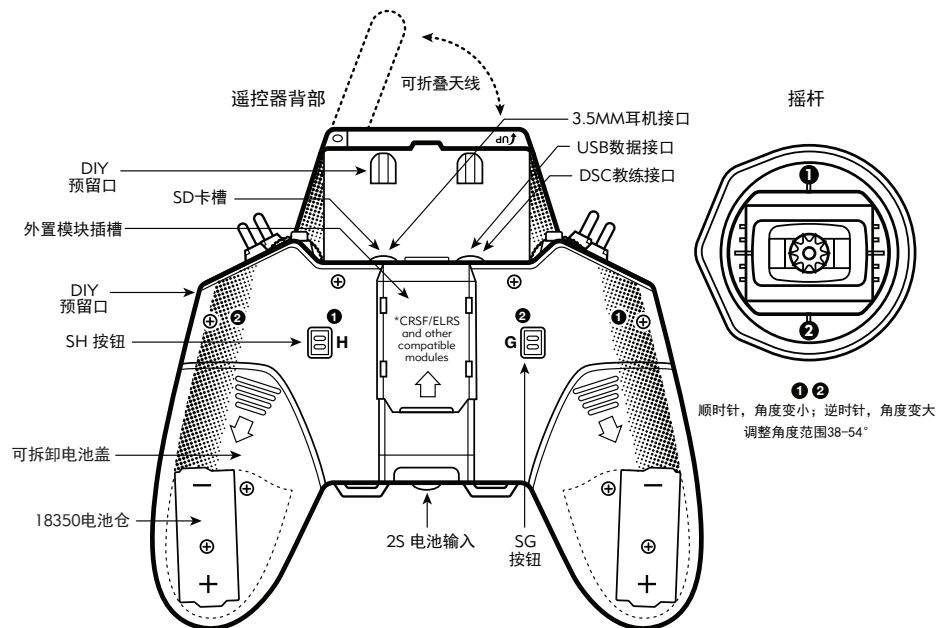
ZORRO ELRS units are equipped with an internal ELRS module. For optimal performance, we recommend enabling Dynamic Power and using a 500Hz or lower packet rate to extend battery life and minimize heat generation by the internal module.

```
TOOLS 1/7
01 DSM FwdPrq
02 ExpressLRS
03 FrSky G4Suite
04 FrSky RB30_RB40
05 FrSky SBEC
06 FrSky SxR
07 Grauer HoTT
```

```
RM Zorro 0/100 | -
> MiFi 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 **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.



## 警告

未经负责合规方明确批准的更改或修改可能会使用户丧失操作设备的权限。  
本产品包含具有天线技术的无线电发射器，该无线电发射器已经过测试，符合适用于2.400GHz至2.4835GHz频率范围内的无线电发射器的适用法规。

## 安全的天线距离

操作RadioMaster发射器时，请确保您的身体（不包括手指，手，腕，脚踝和脚）与天线之间保持至少20cm的距离，以符合FCC法规规定的RF暴露安全要求。

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WWW.RADIOMASTERRC.COM

## 欧盟认证合格声明

RadioMaster无线电设备ZORRO符合欧盟指令2014/53/EU。符合性认证声明的全文可在以下

制造商  
深圳RadioMaster有限公司  
广东省深圳市宝安区新安街道72区杨田路杨田大厦4楼

FCC ID: 2A337ZORRO- FCC ID: 2A337ZORRO

## FCC 警告

该设备已经过测试，符合FCC规则第15章的规定。操作必须符合以下两个条件：

- (1) 此设备不会造成有害干扰
- (2) 此设备必须接受收到的任何干扰，包括可能导致意外操作的干扰。

符合性声明的全文可在以下网站上找到：  
[www.radiomasterrc.com](http://www.radiomasterrc.com)

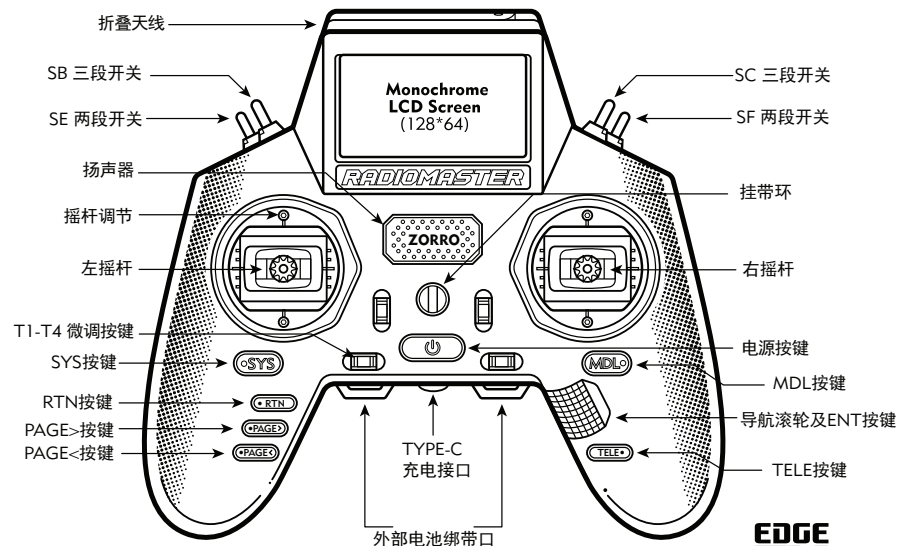
CE FC

**RADIOMASTER  
ZORRO**

2.4  
GHZ

## 快速操作指南

电压范围  
6.6-8.4V DC



不含电池

**EDGE  
TX**

## 技术参数

- 产品型号: ZORRO 遥控
- 产品尺寸: 170\*159\*108mm
- 重量: 350 g
- 工作频率: 2.400GHz-2.480GHz
- 内部射频选项: CC2500多协议/4-in-1多协议/ELRS 2.4GHz
- 支持的协议: 取决于内部射频模块
- 天线: 折叠天线
- 工作电流: CC2500 /4-in-1: 160毫安, ELRS: 400毫安
- 工作电压: 6.6-8.4V DC
- 控制距离: 最大2km
- 操作系统: EdgeTX
- 控制通道: 最多支持16通道 (取决于接收机)
- 显示屏: 128\*64 LCD显示屏
- 电池: 2 x 18350 (标配不含电池)
- 充电: 支持USB-C直充
- 摇杆: 霍尔摇杆
- 模块: Nano尺寸 (兼容TBS Nano Crossfire / Nano Tracer / Radiomaster Nano尺寸模块)
- 固件升级方式: 通过USB或SD卡 (不包括SD)

简介

感谢您购买RadioMaster ZORRO 2.4G遥控系统。该系统用途广泛，可供初学者和专业人士使用。为了确保正确、安全地使用本产品，请在使用前仔细阅读本使用说明书。由于版本升级，已经进行了更改。本手册中包含的信息如有更改，恕不另行通知。

ZORRO遥控器适用于所有类型的固定翼、滑翔机、直升机和多旋翼飞机。可以根据使用的航空器选择型号类型，并可以使用各种混合功能。

-RadioMaster 团队敬上

安全须知

许多遥控模型都配备了强大的电机和锋利的螺旋桨。使用模型时，请谨慎行事。进行组装或维护时，请确保已断开模型的电源并卸下螺旋桨。

在以下情况下，请勿操作ZORRO遥控系统：

- 在恶劣天气或强风条件下，例如雨，冰雹，下雪，暴风雨或电磁环境中。
- 在能见度有限的任何情况下。
- 在可能存在人员、财产、电力高压线、公共道路、有车辆或动物的区域。
- 如果您感到疲倦或不适，或在药物或酒精的影响下。
- 如果遥控器或模型似乎已损坏或无法正常工作。
- 在2.4GHz干扰较大的区域或禁止使用2.4GHz无线电的地方。
- 当电池电压太低而无法使用时。
- 在当地法规禁止使用航空模型的区域。

警告

天线：在安装电池和打开遥控器之前，请将所提供的天线安装在遥控器的顶部。  
禁止在未安装天线时打开内部射频模块的情况下使用，这样做会损坏内部射频模块，并且不在保修范围内。

手册和固件下载

ZORRO 预装标准的EdgeTX固件。要下载最新的软件手册，请访问RadioMaster网站：

[www.radiomasterrc.com](http://www.radiomasterrc.com)

更多固件信息请访问：

EdgeTX: [www.edgetx.org](http://www.edgetx.org)

ExpressLRS: [www.expresslrs.org](http://www.expresslrs.org)

Multi Protocol Module: [www.multi-module.org](http://www.multi-module.org)

电源和充电注意事项

ZORRO内置USB-C充电功能，可用于3.7v至4.2v的锂电池。该充电电路仅适用于2x 3.7v锂离子电池18630电池或2x 3.7v Lipoly电池(2s 7.4v Lipo电池组)，标称电池电压为3.7v，最大充电电压为4.2v。

不要使用标称电压为3.6v至4.10v的寿命电池组或18630锂离子电池。给不正确的电池充电可能会损坏充电器或引起火灾。请确保电池正负极未接反。

请定期检查电池的电压和状态，切勿在无人看管的情况下充电，在远离易燃材料的安全区域充电。如果遥控器被水打湿或损坏了，请勿给它充电。

RadioMaster不承担因使用或误用本产品而造成的任何不良后果。

模型选择及协议选择

内置4IN1和CC2500多协议高频模块

ZORRO附带4IN1或CC2500单芯片多协议高频模块，拥有并兼容许多不同协议，要查看所有兼容协议的最新列表，请访问多协议官方网站：  
<https://www.multi-module.org>

请注意，由于ZORRO遥控器不同版本内置高频模块不同，系统中只会列出当前内置高频模块所支持的协议列表，新协议会不断更新并被添加到最新固件中，新的某些协议可能需要升级固件

```
SETUP 2/12
Internal RF
Mode MULTI
Type FlySky
Subtype Std
Status V1.3.3.7 AETR
Ch. Range CH1- 16
Receiver 00[Bnd][Rng]
```

· 请长按MDL按钮进入模型设置，在SETUP页面中选择MULTI，并在子选项中选择需要使用的协议。系统根据您选择的射频协议，会自动开启对应的射频模块，同时关闭其它三个射频模块。系统在同一时间只会开启一个射频模块，以确保没有多余的无线电信号相互干扰。

- Bind按钮用于启动对频过程。
- Range按钮可将功率降低至1/30，以方便测试遥控距离。

注意

CC2500版本用户，您使用的接收机可能需要频率调节，请参照此链接进行调节

[www.multi-module.org/using-the-module/frequency-tuning](http://www.multi-module.org/using-the-module/frequency-tuning)

保修及维修

如果您的遥控器硬件出现任何问题，请保留购买证明并与您购买ZORRO的零售商联系。

也可以登录网站联系官方售后  
[www.radiomasterrc.com/contact](http://www.radiomasterrc.com/contact)

内置ELRS高频模块

ZORRO 推荐使用500Hz速率，更高的速率会降低控制距离，更高的功率会带来较大的发热和耗电，请您根据自身需求，合理调整功率及速率，以便达到性能和耗电的平衡。

```
TOOLS 1/7
01 DSM FwdPrg
02 ExpressLRS
03 FrSky G4Suite
04 FrSky RB30_RB40
05 FrSky SBEC
06 FrSky SxR
07 Grauerer HoTT
```

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

对码方式

1. 关闭发射机。
2. 给接收器循环通电3次，接收器LED闪烁2次，表示绑定模式。
3. 打开遥控器，长按SYS按钮，在TOOLS菜单下选择ExpressLRS LUA。滚动到[绑定]并按enter键。
4. 接收器上的LED现在应该是固态的，表明绑定成功。