RADIOMASTER

# ZORRO POCKET

## Quick start guide

WWW.RADIOMASTERRC.COM

# Introduction

Thank you for purchasing the RadioMaster ZORRO POCKET radio system. Advanced and highly-versatile, ZORRO POCKET 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 POCKET 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 POCKET runs EdgeTX, an open-sourced operating system; for more information, please visit the EdgeTX link below.
-The RadioMaster team

# Safety Information

Radio-controlled models commonly contain sharp components like propellers, rotating at high RPMs; 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 POCKET radio system in the following conditions:
• In severe weather or strong windy conditions, such as rain, hail, snow, storms or electromagnetic environments.
• In limited visability.
• 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 POCKET 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.

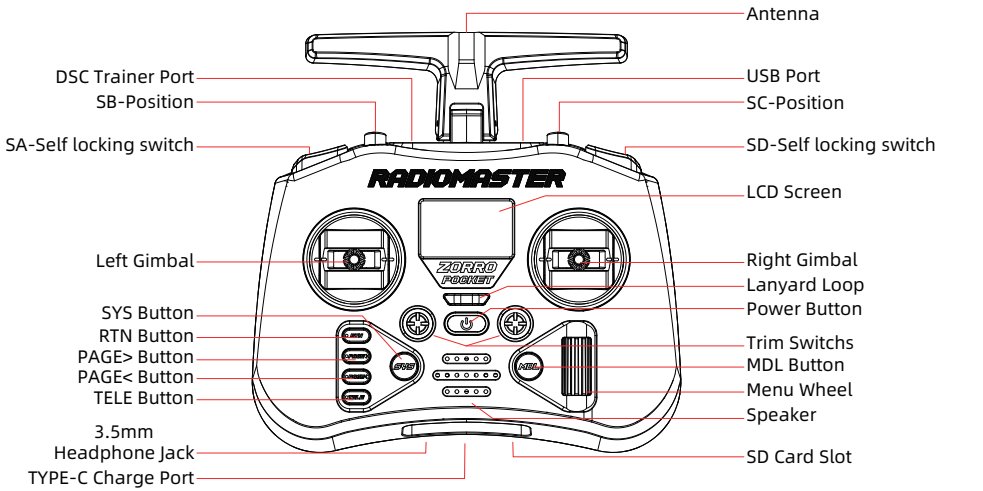
# Manual and firmware download

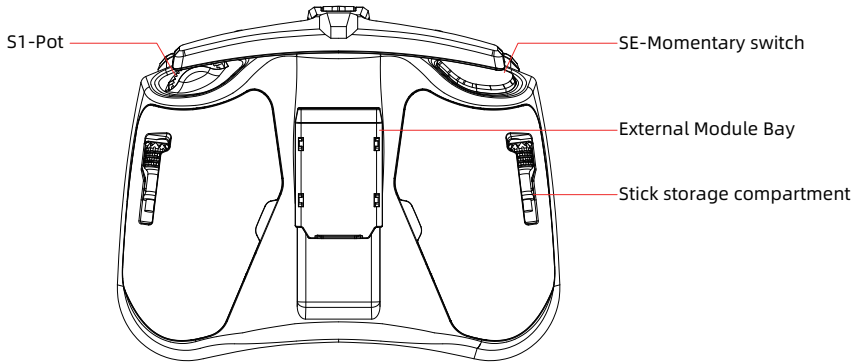
ZORRO POCKET is pre-installed with factory approved EdgeTX firmware. To download the latest manual or stock factory firmware, please visit the RadioMaster website: https://www.radiomasterrc.com
To download the latest EdgeTX firmware for your ZORRO POCKET radio system, please visit the EdgeTX website: https://www.edgetx.org

# Important!

ZORRO POCKET 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. Damage as a result of improper firmware update may not be covered under warranty.

# Remote control overview



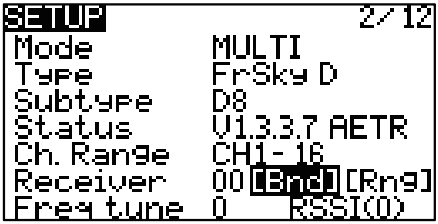

ZORRO POCKET is powered by 2x 3.7V 18650 Lithium Ion cells and is charged using the built-in USB-C port. The charging circuitry is designed for charging 2x 3.7V Lithium Ion batteries only. The nominal voltage is 3.7V and the maximum charging voltage is 4.2V.

Never 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.

Check the voltage and condition of the battery regularly and never charge the device unattended. Only charge in safe areas away from combustable materials. Refrain from charging the radio unit if it was exposed to water or was damaged in any way. RadioMaster does not assume any responsibility for any adverse consequences caused by the use or misuse of this product.

# Model selection and protocol selection

Depending on the package purchased, ZORRO POCKET CC2500 single-chip multi-protocol module built in. To view the latest list of all compatible protocols, please visit https://www.multi-module.org/ 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 desired protocol in the sub-options. The system will automatically turn on the corresponding RF module according to the RF protocol you selected.

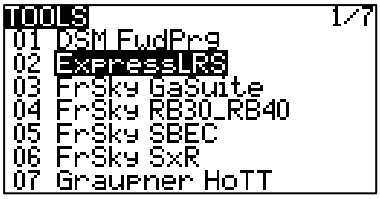
- Bind [BND] is used to start the binding process.
- Range [RNG] button can reduce the power to 1/30 to facilitate testing of remote-control distance.
- Need add something here about bind ELRS.

# Model selection and protocol selection (ELRS version)

ZORRO POCKET ELRS units are equipped with an internal ELRS module, capable of providing 25mW-250mW RF output. In non-extreme circumstances, 100mW output at 500Hz update rate is recommended, as higher RF output and update rates may significantly reduce battery life and generate excessive heat.

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 the ExpressLRS LUA under the TOOLS menu. Scroll down to [Bind] and press enter.
4: The LED on the receiver should now be solid, indicating successful bind.



# Notes

EdgeTX software is highly versatile, and has a large number of programming and mixing functions. Please download the comprehensive software installation guide from the link below for more detailed instructions: https://www.edgetx.org

# Specifications

Physical dimensions：156.6*65.1*125.3mm（Folded size）
156.6*73.1*154.8mm（Unfold size）
Weight：288 grams
Operating frequency：2.400GHz-2.480GHz
Internal RF Options：CC2500 multi-protocol / ELRS 2.4GHz
Supported protocols： Module dependent
RF power：CC2500 20dBm max. / ELRS: 20dBm max.
Operational voltage：6.6-8.4v DC
Control distance：> 2km @ 20dBm
Operating system：EdgeTX
Control channels：Maximum 16 (rx dependent)
Display： 128*64 Monochrome LCD
Battery： 2 x 18650 (Not included)
Charging： Built in USB-C Charging
Firmware Upgrade method：Via USB or SD card
Gimbal：Hall-effect
Module bay： Nano size (Compatible with TBS Nano Crossfire / Nano Tracer / RadioMaster Nano-size modules)

# Warranty and repair

Should any issues arise with your radio system's hardware, please keep the proof of purchase and contact the retailer where you made the ZORRO POCKET purchase. . You may also visit our warranty support page https://www.radiomasterrc.com/contact
The limited warranty covers defects in workmanship for one year from the date of purchase.

# Manual

To view the full manual for the ZORRO POCKET radio system, please visit the Radiomaster website：
https://www.radiomasterrc.com

**EU Simple Declaration of Conformity**

RadioMaster declares the radio equipment ZORRO POCKET is in compliance with EU directives Directive 2014/53/EU. Full text of the declaration of conformity is available at the following website www.radiomasterrc.com

**Manufacturer by**

4F Yang Tian Building, Area 72 Xing Dong community, Xin An Street, Bao An district, Shen Zhen city, Guangdong Province, China

**FCC ID: ********** **
**FCC ID: ********** **

**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 the following website www.radiomasterrc.com

**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.

FCC Warning
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.
Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.
Specific Absorption Rate (SAR) information:
This POCKET(CC2500) meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health.
FCC RF Exposure Information and Statement
– This radio is designed for and classified as “General population/uncontrolled Use”, the guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. The exposure standard for wireless radio employs a unit of measurement known as the Specific Absorption Rate, or SAR, the SAR limit set 1.6W/kg.
– Body-worn operation; this device was tested for typical body-worn operations with the back of the handset kept 0mm for body worn. To maintain compliance with RF exposure requirements, use accessories that maintain a 0mm for body worn. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with RF exposure requirements, and should be avoided.
– The highest reported SAR value for worn on the body is 0.369 W/kg.

## European agent information:

– eVatmaster Consulting GmbH
– Address: Bettinastr. 30,60325 Frankfurt am Main,Germany
– Zip Code : 60325
– E-mail: contact@evatmaster.com
– Tel: +496995179070

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