RADIOMASTER

TX16S

Quick start guide

WWW.RADIOMASTERRC.COM

Introduction

Thank you for purchasing the RadioMaster TX16S 2.4g 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 instruction manual carefully before use. Changes have been made due to a version upgrade. The information contained in this manual is subject to change without notice.

TX16S remote control is suitable for all types of fixed-wing, glider, helicopter, boats, robotics, multi-rotor aircraft and more. The model type can be selected according to the aircraft used, and various hybrid functions can be used.

Sincerely, The RadioMaster Team.

Safety instructions.

Many remote control models are equipped with powerful motors and sharp propellers. Use caution when operating models. When assembling or maintaining, make sure the model is powered off and the propeller is removed.

Do not operate the TX16S remote control system under the following conditions:
- In severe weather or strong wind conditions, such as rain, hail, snow, storm or electromagnetic environment.
- Under any circumstances 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 appears to be damaged or not working properly.
- In areas where 2.4GHz interference is high or where 2.4GHz radios are prohibited.
- When the battery voltage is too low to use.
- In areas where local regulations prohibit the use of aviation models.

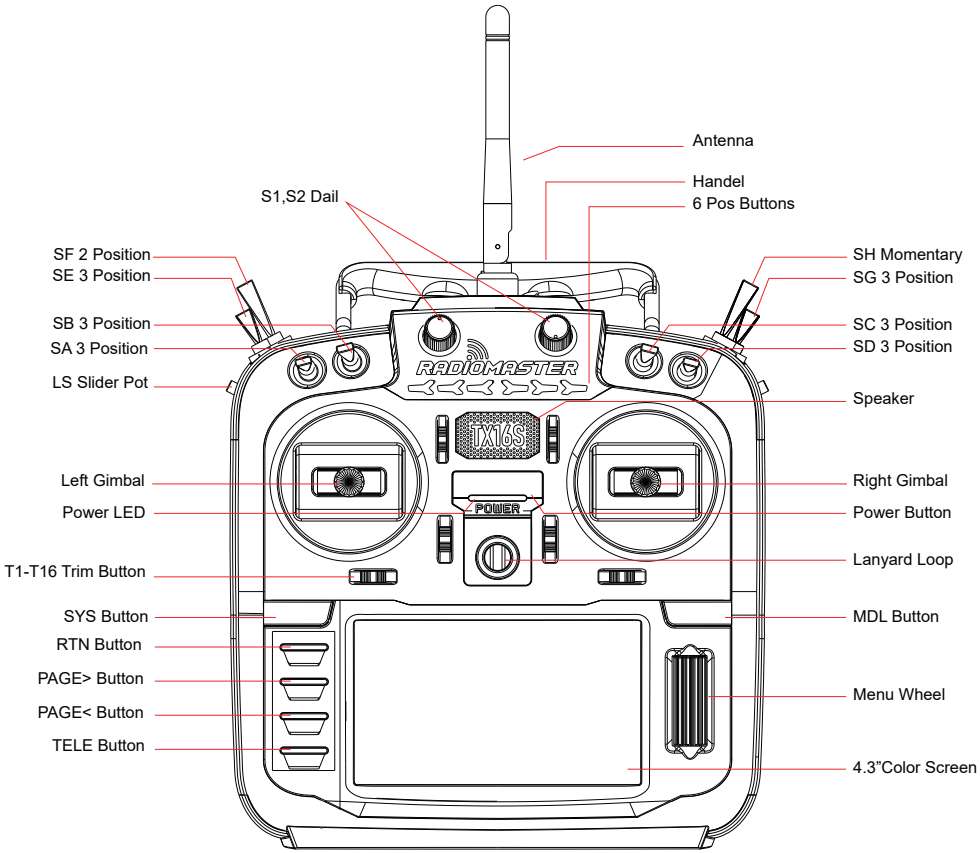
Manuals and firmware downloads.

TX16S comes pre-installed with standard OpenTX firmware. To download the latest software manual, visit the RadioMaster website:
https://www.radiomasterrc.com

Important!

The TX16S is shipped with the most stable firmware at the time of manufacture. Please only update firmware if you are experienced and confident in updating system firmware. Incorrect updates may render the radio inoperable.

Remote control overview



Power and charging precautions

The TX16S has built in USB-C charging for 3.7v Lithium cells. The Charging circuit is designed for 2x 3.7v Li-ion 18650 or 2x 3.7v Lipoly cells (2s 7.4v Lipo pack) only with a nominal cell voltage of 3.7v and maximum charge capacity of 4.2v.

CAUTION!

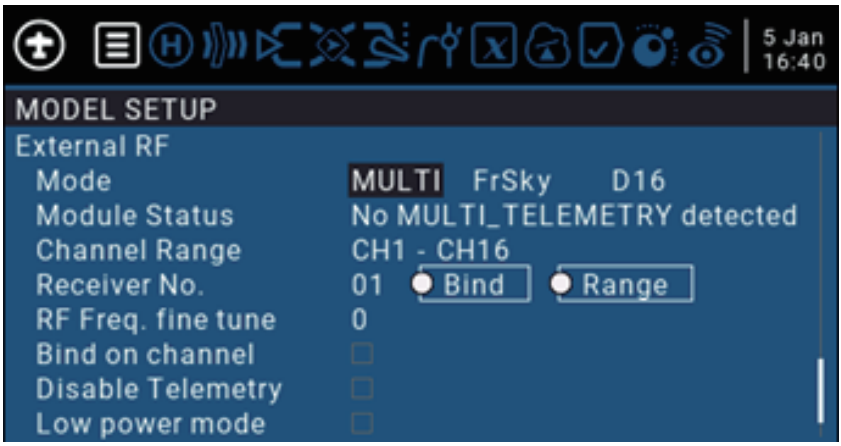
DO NOT charge 6.6v LiFE battery packs or Li-ion 18650 cells with nominal voltage of 3.6v. Incorrectly charging the wrong battery type may lead to damage of the radio or fire.

Regularly check the health and condition of your batteries and never leave your radio charging unattended. Always charge in a safe area away from combustible materials and surfaces. Do not charge if your radio becomes wet or damaged in any way.

RadioMaster does not accept any liability for the use or misuses of this product.

Model selection and protocol selection

TX16S comes with a 4-in-1 multi-protocol high-frequency module, which is compatible with many different protocols. To view the latest list of all compatible protocols, please visit: https://github.com/pascal-langer/DIY-Multiprotocol-TX-Module/blob/ master / Protocols_Details.md. Please note that new protocols are constantly updated and added to the latest firmware, and some new protocols may require firmware upgrades.



• Press and hold the MDL button to enter the model setup, select MULTI in the MODEL SETUP page, and select the protocol to be used in the sub-options.
• The Bind button is used to start the linking process.
• The Range button reduces power to 1/30 to facilitate testing of remote control distances.

Note

OpenTX software is very powerful and has a large number of programming and mixing functions. Please download the comprehensive software installation guide for more detailed instructions from the following link: https://www.open-tx.org

Specifications

Size: 286.9*128.9*183.8mm
Weight: 750g (without battery)
Transmission frequency: 2.400GHz-2.480GHz
Transmitter module: Internal 4-in-1 multi-protocol module (CC2500 CYRF6936 A7105 NRF2401)
Transmitting power: Max 22dbm (transmitting power is adjustable)
Antenna gain: 2db (removable antenna, easy to replace)
Working current: 350mA@8.4V
Working voltage: 5.5-18v DC
Remote control distance:> 2km @ 22dbm
Open source firmware: OpenTX
Channels: Up to 16 channels (depending on the receiver)
Display: 4.3-inch TFT full-color display with a resolution of 480 * 272
Gimbal: Non-contact 3D vector Hall with Aluminum facia.
JR / FrSKY compatible module bracket
Upgrade method: Support USB-C online / SD card offline upgrade
Protocols: Full series DSM2 / X full series Flysky and Flysky 2A FrSKY
(For a complete list of below link)
https://github.com/pascallanger/DIY-Multiprotocol-TX-Module/blob/master/Protocols_Details.md

Support.

Warranty and Repairs.

Please retain your proof of purchase and contact the retailer you purchased your TX16S from should you experience any problems with your radios hardware.

Firmware updates and OpenTX information.

For latest news and firmware updates from the OpenTX please visit https://www.open-tx.org

User manual

For detailed user manual of TX16S OpenTX system firmware, please visit https://www.open-tx.org.

简介

感谢您购买RadioMaster TX16S 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。
TX16S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TX16S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。

说明书和固件下载

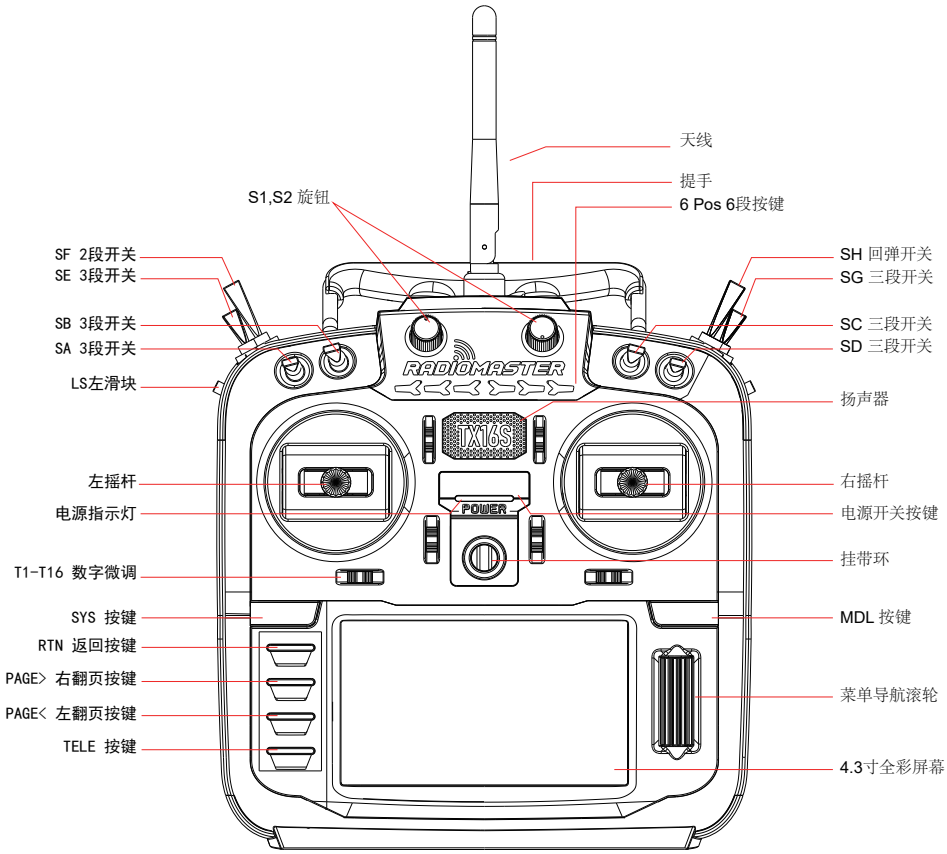
TX16S预装标准的OpenTX固件。 要下载最新的软件手册，请访问RadioMaster网站：
https://www.radiomasterrc.com

要为您的TX16S遥控器下载最新的固件，请访问OpenTX网站： https://www.open-tx.org

警告!

TX16S出厂时预装最稳定的固件。 如果您有经验并且有信心更新系统固件，请仅更新固件。 不正确的更新可能会导致遥控器无法操作。

遥控器概述



电源及充电注意事项

TX16S内置了用于3.7v锂电池的USB-C充电功能。 充电电路仅适用于2x 3.7v锂离子18650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。

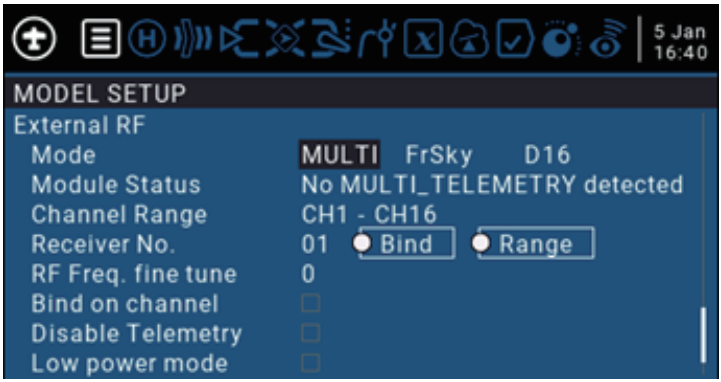
请勿使用标称电压3.6v的LiFE电池组或18650锂离子电池充电。 错误地电池组或电池，使用此充电方式可能会导致遥控器损坏或火灾。

请定期检查电池的电压和状况，决不要在无人看守的情况下为其充电。 请务必始终在远离可燃材料的安全区域中充电。 如果遥控器弄湿或以任何方式损坏，请勿充电。

对于不按照安全规范使用或滥用本产品造成的一切不良后果，RadioMaster不承担任何责任。

模型选择及协议选择

TX16S附带四合一多协议高频模块，拥有并兼容很多不同协议， 要查看所有兼容协议的最新列表，请访问：https://github.com/pascallanger/DIY-Multiprotocol-TX-Module/blob/master/Protocols_Details.md 。 请注意，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。



请长按MDL按钮进入模型设置，在MODEL SETUP页面中选择MULTI，并在子选项中选择需要使用的协议。

- 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

OpenTX软件非常强大，并且具有大量的编程和混控功能。请从下面的链接下载综合软件安装指南以获取更详细的说明：https://www.open-tx.org

技术指标

规格尺寸： 286.9*128.9*183.8毫米
重量： 750克（不含电池）
传输频率： 2.400GHz-2.480GHz
发射器模块： 四合一多协议高频模块（CC2500 CYRF6936 A7105 NRF2401）
发射功率： 最大22dbm（发射功率可调）
天线增益： 2db（可拆卸天线，易于更换）
工作电流： 250mA@8.4V
工作电压： 5.5-18v DC
遥控距离： > 2km @ 22dbm
开源固件： OpenTX（遥控器）
DIY-Multiprotocol-TX-Module（高频模块）
通道数： 最多16个通道（取决于接收器）
显示：4.3英寸TFT全彩显示屏，分辨率为480 * 272
云台： 非接触式3D矢量霍尔操纵杆JR/FrSKY兼容模块托架
升级方法： 支持USB在线/SD卡离线升级
协议： 全系列DSM2/X全系列Flysky和Flysky 2A FrSKY
（有关完整协议列表，请访问
https://github.com/pascallanger/DIY-Multiprotocol-TX-Module/blob/master/Protocols_Details.md）

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TX16S的零售商联系。

固件更新和OpenTX信息

有关OpenTX开源固件开发团队的最新资讯和固件更新，请访问Deviation TX网站，
网址为https://www.open-tx.org 。

用户手册

有关TX16S OpenTX系统固件的详细用户手册，请访问https://www.open-tx.org 。

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