



T8

USER MANUAL



Introduction

Thank you for purchasing the RadioMaster T8 2.4g remote control system. The system is powerful and versatile and can be used by beginners to professionals. In order to ensure the correct and safe use of this product, please read this manual carefully before use. The information contained in this manual is subject to change without notice.

-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 T8 remote-control system under the following conditions:

- In severe weather or strong wind conditions, such as rain, hail, snow, storms or highly 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 battery voltage is too low.
- In areas where local regulations prohibit the use of aviation models.

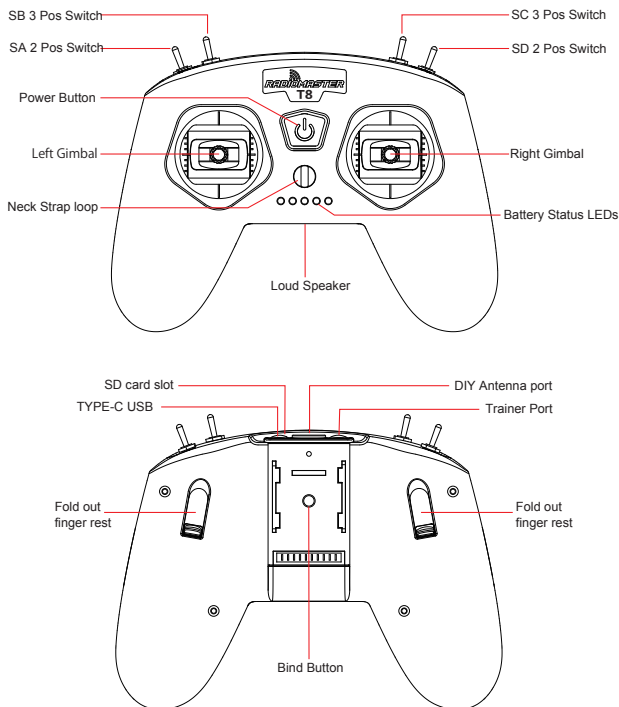


Manual and firmware download

The T8 comes factory installed with special a T8 firmware for D8 and D16 use. No firmware updates are required for this radio. Simply charge, Bind and go fly!

Visit www.radiomasterrc.com to learn about optional hardware accessories to convert your T8 in to a T8 Pro!

Remote control overview





Charging Instructions

The T8 has a built in 1000mah 3.7v Battery. The built in USB-C charger will charge your batteries by connecting the supplied USB-C cable to any suitable USB power outlet. We suggest using a regular 2amp 5v USB power adapter.

Charge status and battery Level:

The 5 LEDs below the neck strap loop indicate the charging status. When the LEDs light up from left to right the T8 is charging. Each of the 5 LEDs indicates 20% of the battery capacity. 5 LEDs shows 100% charge, 4 LEDs 80%, 3 LEDs 60%, 2 LEDs 40%, 1 LED 20%. When the radios power is low and the T8 requires charging all 5 battery status LEDs will flash at the same time. Please recharge the batter before using the radio any further



Using your T8

Press and hold the Power button until you feel a vibration feedback. The radio is now on. If the throttle or switches are not in the correct position the Power LED will be RED. Please reset the switches to the correct position and move the throttle to the lowest point. The Power LED will turn GREEN to indicate the radio is now ready to use. To Turn off your T8 press and hold the power button until you feel a vibration feedback and the radio will turn off. If the LED is RED when turning off disconnect power to your model first.

Quick Guide to Understanding the Power Button LED colors.

GREEN: Radio is starting up or turned on and working normally.

RED on start: A switch(s) or the throttle must be moved to default position.

RED on shut down: The model or receiver is still connected, disconnect power to the model to complete the shut down cycle of the radio.

The T8 has the follow settings by default and is ready to setup with the firmware of your flight controller or receiver up to 8 channels. The default channel order is AETR, please set accordingly in your flight controller software.

CH1 Aileron

CH2 Elevator

CH3 Throttle

CH4 Rudder

CH5 2 Position Switch SA

CH6 3 Position Switch SB

CH7 3 Position Switch SC

CH8 2 Position Switch SD



Binding your T8

The T8 Uses a combination of Stick inputs and then pressing the Bind button to bind to one of the following protocols: D8 / D16 v1 FCC / D16 v1 LBT / D16 v2 FCC / D16 v2 LBT

Hold the LEFT gimbal Stick in the positions shown below then press the bind button for more than 1 second to bind the required Protocol. The Power button will blink blue to indicate binding is in progress.

Once a model or receiver is bound you can change between various models using the Stick positions below and pressing the bind button for more than 1 second. The Power button will blink blue to indicate the protocol is changing. There is no need to put the model or receiver in bind mode again if it was successfully bound previously.



Stick Center – D8 Mode



Stick Top Left – D16 V1 FCC mode



Stick Top Right – D16 V1 LBT mode



Stick Bottom Left – D16 V2 FCC mode



Stick Bottom Right – D16 V2 LBT mode

Various different receivers and models will have different methods to place the model or receiver in to bind mode. Please follow the instructions from the model or receiver manufacturers user manual to initial the bind process.

A Note on input sensitivity:

If your craft feels too sensitive to input you may need to set up EXPO. EXPO is a function to soften the stick feeling in the center of the stick movements. This can help settle down a drone that is very sensitive to stick movements. This is handled in the flight-controller firmware and varies depending on the flight controller you are using and may be called EXPO or RC EXPO. Please refer to the setup guide of your specific drone or flight controller to set EXPO to your desired setting on the models flight control system.



Specifications

Size: 160*130*45mm

Weight: 218g

Frequency: 2416-2466MHz

RF Module: Multi-Protocol Module Compatible Single chip (CC2500)

Protocol Options: D8 / D16 v1 FCC / D16 v1 LBT / D16 v2 FCC / D16 v2 LBT

Transmission power: 20dbm

Antenna gain: 2db

Range: > 1km @ 20dbm (depending on the receiver)

Battery: Built in 3.7v 1000mah Lithium battery

Charging: Built in USB-C charging

Firmware: OpenTX T8 Edition (Special T8 Edition, non-configurable) *

Channels: Up to 8 channels (depending on the model / receiver)

Gimbal: High-precision quad bearing potentiometer sensor gimbal

Voice support: Yes (SD Card required)

Option Accessories: 128*64 LCD and OpenTX operation Clip on module
Requires Upgrading to OpenTX T8 Pro firmware

*Does not support or require OpenTX companion or user programming.



EU Simple Declaration of Conformity

RadioMaster declares the radio equipment T8/T8 Pro 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

Manufactured by

Shenzhen RadioMaster Co., Ltd

Address: 5/F, Building 9, De Zhi Gao Technology Park, Yang Tian Road
Bao'an District, Shenzhen, 518101, Guangdong, China



FCC ID: FCC ID: 2AV3G-T8

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.

The device should be suitable for general population/uncontrolled exposure limits, which average 1.6 W/kg in any 10 g tissue. The maximum SAR test result is 0.285 W/kg. The test distance is 0mm. In order to meet the RF exposure requirements, the minimum distance between the user's limbs and the remote control (including the antenna) is 0mm.



简介

感谢您购买RadioMaster T8 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。

T8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T8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。



固件下载和升级

T8出厂时安装了专用的T8固件，供D8和D16使用。该无线电不需要固件更新。只需充电，对频即可飞翔！

要了解有关将T8转换为T8 Pro的可选硬件配件的信息，请访问www.radio-masterrc.com

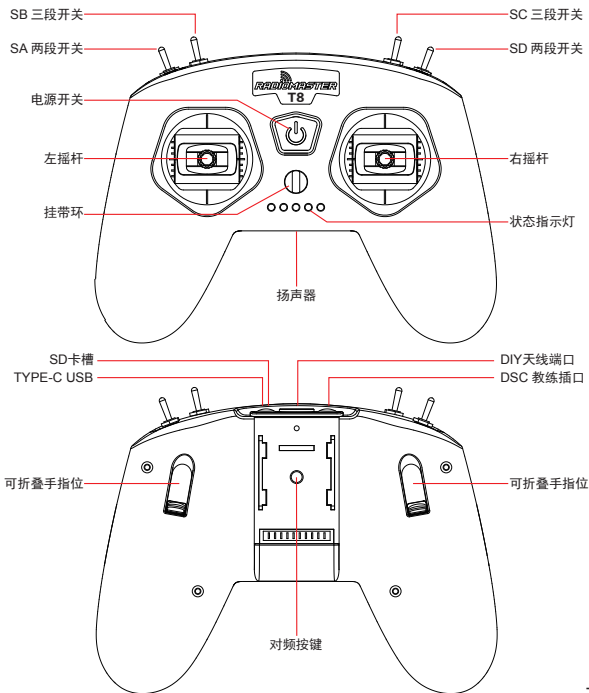


警告!

T8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

T8内置了1000mAh 3.7V Lipo电池以及USB-C充电功能。标称电池电压为3.7v，最大充电电压为4.2v。

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。

充电状态和电池电量：

遥控器下方的5个LED灯指示充电状态。当指示灯依次从左向右点亮时，T8正在充电。5个LED指示灯平均指示电池容量的20%。当T8遥控器电压低且需要充电时，所有5个电池状态LED会同时闪烁。在进一步使用遥控器之前，请为遥控器充电。

状态	指示灯
电量	五个指示灯表示0-100%电量，平均每个指示灯表示20%电量
	○ ○ ○ ○ ○ 20% 40% 60% 80% 100%
充电	指示灯由1-5循环闪烁，表示正在充电，充电完成后指示灯全部常亮



使用指南

开机：按住电源按钮，电源灯亮起，遥控器震动一次，系统开机。

电源按钮指示灯	状态表示
绿色	正常开机，可正常使用
红色	油门不在最低，或开关不在默认位置 请将油门拉到最低，所有开关复位到默认位置，电源按钮指示灯变为绿色，此时可正常使用

关机：按下电源按钮约，直到感觉到遥控器震动一次，松开手指，指示灯熄灭，系统关机。

电源按钮指示灯	状态表示
熄灭	正常关机
红色	如果使用具有双向回传的接收机，当遥控器依然可以收到接收机回传时，表示接收机并未在遥控关机前断电，此时电源按钮指示灯显示红色，提醒用户接收机并未断电，如果失去遥控信号，将会导致不可预料的危险发生，所以请务必在遥控关机前，关闭接收机的电源，以保证安全。

默认通道顺序：

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
副翼 横滚	升降 俯仰	油门	方向 水平旋转	SA 2段开关	SB 3段开关	SC 3段开关	SD 2段开关



协议选择及对频指南

T8遥控器使用摇杆位置选择协议，遥控器背后的按钮进行对频。

将左侧的摇杆保持在下面所示的位置，然后按下对频按钮1秒钟以上，以绑定所需的协议。电源按钮将闪烁蓝色，表示正在进行对频。

绑定模型或接收器后，您可以使用下面的“摇杆”位置并按住“对频”按钮1秒钟以上，在各种模型之间进行切换。电源按钮将闪烁蓝色，表明协议正在更改。如果先前已成功对频模型或接收机，则无需再次将接收机置于对频模式。

左摇杆位置	认证	协议	版本
		D8	
	FCC	D16	V1
			V2
	LBT/EU		V1
			V2

各种不同的接收机和模型将具有不同的方法来将模型或接收器置于对频模式。请按照模型或接收机制造商提供的用户手册，对模型或接收机进行初始化对频过程。

关于输入灵敏度的注意事项：

如果您的操作对输入过于敏感，则可能需要设置EXP0。EXP0是缓解摇杆中心处一定范围的细腻感觉的功能。这可以帮助操控非常敏感的模式飞机。这是在模型飞机的飞控系统中设置并处理的，并且根据所使用的飞控而有所不同，可能称为EXP0或RC EXP0。请参阅特定无人机飞控的设置指南，以设置符合您操控手感的EXP0。



技术指标

规格尺寸：160*130*45mm

重量：218g

传输频率：2416-2466MHz

发射器模块：单芯片多协议高频模块（CC2500）

支持的协议：D8 / D16 v1 FCC / D16 v1 LBT / D16 v2 FCC / D16 v2 LBT

发射功率：最大20dbm

天线增益：2db

遥控距离：> 1km @ 20dbm

电池：内置1000mAh 3.7V锂离子电池

充电接口：USB-TypeC充电接口

开源固件：OpenTX T8专用版本（无需软件或屏幕配置）*

DIY-Multiprotocol-TX-Module（高频模块）

通道数：8个通道（取决于接收机）

可扩展配件：128*64单色LCD显示器（附带导航设置按键以及微调按键，使用扩展配件需将OpenTX系，更新为OpenTX T8 Pro版本专用固件

摇杆：高精度电位器摇杆

以上含有*标的项目意为不支持或不需要OpenTX软件或用户设置。



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T8遥控器的零售商联系。

用户手册

有关T8详细用户手册，请访问<https://www.radiomasterrc.com>



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