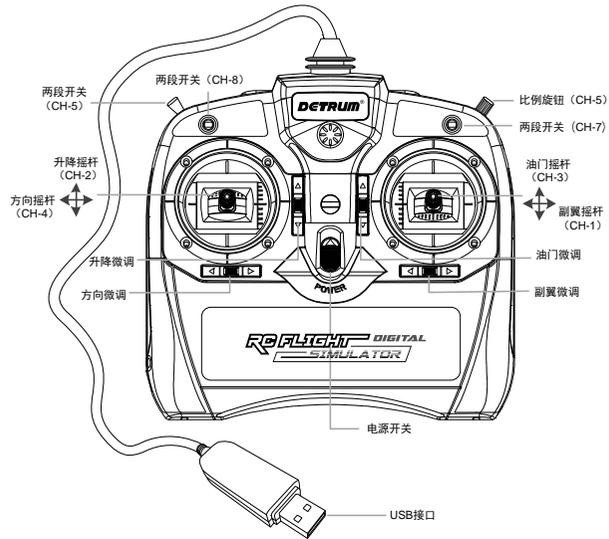
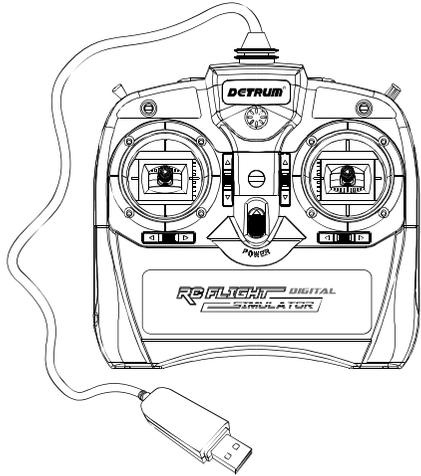




## 6/8通道模拟器使用说明书

### 6CH/8CH USB R/C Flight Simulator Instruction Manual



- 摇杆：图中标识了右手油门模式的摇杆位置。
- 数字微调：配有4个数字微调，每拨动一次微调键，步进一次，连续拨动，微调值快速步进。
- 两段开关（CH-5）：通过模拟软件设置其功能。
- 比例旋钮（CH-6）：通过模拟软件设置其功能。
- 两段开关（CH-7）：通过模拟软件设置其功能。
- 三段开关（CH-8）：在6通道模拟器中，该位置为升降/副翼混控开关。
- 说明：仅8通道模拟器有该开关，通过模拟软件设置其功能。
- 电源开关：向上推动开关将打开电源，向下推动开关将关闭电源。
- USB接口：通过该接口与计算机的USB接口直接连接。

## 产品特点

模拟器具有以下特点：

- 无需另外购买任何设备，在计算机中安装飞行软件后，即可开始模拟飞行。
- 该模拟器的操作与真实遥控器相同，并具有相同的控制方式，包括数字微调。
- 无需使用电池，由计算机的USB接口直接供电，即插即用。

## 参数说明

参数项	6通道	8通道
通道数	6	8
适合机型	固定翼、直升机、滑翔机	
输入电源	USB 5V	
支持模拟软件	FMS	
USB线长	1.2m	
外形尺寸	195*200*100mm	

## 模拟软件说明

该模拟器支持 FMS (Flying Model Simulator) 模拟软件，FMS 是爱好者开发的供广大用户使用的免费软件，是一款流行的模型用模拟飞行软件。

FMS 下载地址：<http://www.dynam-rc.cn/zh-cn/About/index/id/19.html>

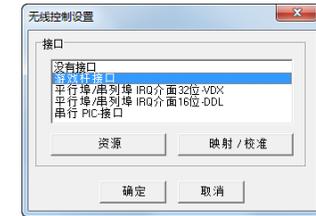
## 配置模拟器

首次连接模拟器与 FMS 模拟软件时，需配置通道的映射关系。使用模拟器前，需校准模拟器的摇杆。

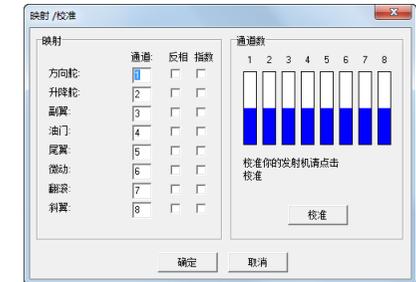
前提条件：已安装 FMS 模拟软件。

操作步骤：

1. 将模拟器 USB 接口插入计算机 USB 接口，在计算机桌面双击 FMS 图标打开软件。
2. 在菜单栏选择 [控制>模拟控制]，弹出 [无线控制设置] 对话框。



3. 选择 [游戏杆接口]，单击 [映射/校准]，弹出 [映射/校准] 对话框。



4. 校准模拟器的摇杆。单击 [校准]，开始校准摇杆。移动摇杆直到所有行程都打满，单击 [下一步]，并将所有摇杆都置中，单击 [结束] 完成校准。
5. 配置模拟器摇杆与通道的映射关系。



- 对于固定翼飞机，需配置方向舵、升降舵、副翼、油门通道与通道数的映射关系。映射关系为：方向舵-通道 4、升降舵-通道 2、副翼-通道 1、油门-通道 3。
  - 对于直升机，需配置尾翼、微动、翻滚、斜翼通道与通道数的映射关系。映射关系为：尾翼-通道 4、微动-通道 2、翻滚-通道 1、斜翼-通道 3。
6. 完成映射与校准后，单击 [确定] 退出设置。

## 简介

感谢您购买本公司的产品。本手册适用于 6 通道模拟器和 8 通道模拟器。

这是一款 USB R/C 飞行模拟器，适用于各个层次水平的航模用户，用于与计算机连接并配合模拟软件进行各种飞行练习。

使用方便，只需要在计算机上安装配套的飞行软件，并将该模拟器直接与计算机 USB 接口连接，即可开始飞行体验。模拟软件配备了不同的模型（固定翼、直升机、滑翔机等），可在计算机上练习飞行技能、学习更多的飞行基本或高级技能。

模拟飞行带来的好处：

- 训练有效：该模拟器的外形尺寸、操作手感与真实遥控器相同，使得模拟飞行的操控非常接近真实飞行，能有效帮助用户练习飞行技能。
- 愉快体验：使用本产品练习飞行技能是一种实用的学习方法。先通过模拟飞行学习 R/C 飞行原理，操作熟练后再进行实地飞行，能够大大节省时间和金钱，并给您带来一个愉快的飞行体验。
- 练习方便：不受场地、天气和设备的影响，随时随地可通过计算机进行练习。
- 多种模型：通过配套的模拟软件，可轻松体验各种模型飞机（固定翼、直升机、滑翔机等机型）的飞行操控。并可自定义设置飞机模型，为自制飞机模型的用户提供了一个验证飞机飞行性能的良好途径。
- 多种场景：通过模拟软件自定义设置飞行场景，使飞行环境更接近现实环境。

## 部件名称

以 8 通道模拟器为例（如下图所示），对模拟器的部件进行说明。

## Introductions

Thank you for purchasing this product. This manual applies to 6-channel and 8-channel USB R/C flight simulator.

This is a USB R/C flight simulator, designed for all levels of R/C pilots, used to connect with the computer and learn flying skills with R/C flight simulation software.

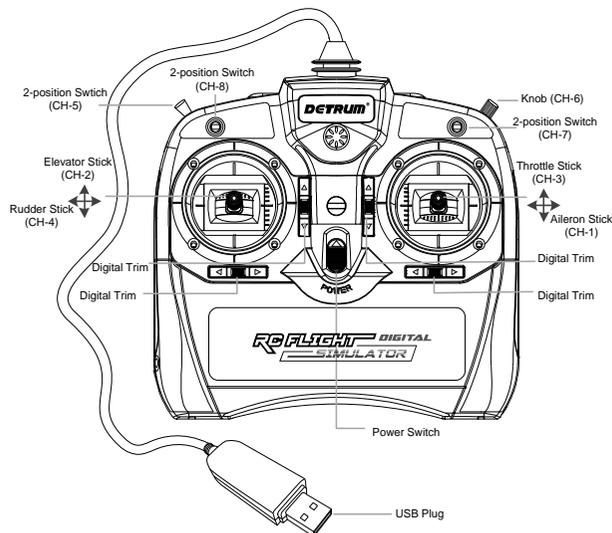
It is easy to use, only need to install the supported simulation software on the computer, and plug this R/C flight simulator into the computer USB port. Then you can begin the enjoyable experience of virtual R/C flight. The R/C flight simulation software comes with different types of aircraft models (airplanes, helicopters, and sliders). You can sharpen your skills by practicing on computers and learn a lot no matter basic or advanced skills.

The benefits of the virtual R/C flight:

- **Effective Training:** It looks and feels just like a real transmitter. This allows the user to fly like operating with the same type of transmitter used for regular flight, and can help the user to practice flying skills effectively.
- **Enjoyable Experience:** Training yourself with R/C flight simulator is a more practical approach to learning to fly R/C aircrafts. Before you go out there and buy R/C aircrafts, study up and train yourself in the principle of R/C flight. This preparation will save you a great deal of time and money, and can lead to a long and enjoyable experience in flying R/C aircrafts.
- **Convenient to Practice:** The flight training will not be affected by the weather, field, and aircraft models. You can practice the flight skills on the computer at anywhere and anytime.
- **Various Models:** By using the supported simulation software, you can select from a variety of aircraft models (airplanes, helicopters, and gliders) and learn to fly with them. You can also customize new aircraft models and fly with them to verify the performance.
- **Various Landscapes:** By using the supported simulation software, you can create your own landscapes, which is closer to the actual conditions.

## Simulator Diagram

Take 8-channel R/C flight simulator as an example, the following diagram shows the names of each control.



- **Sticks:** For right-hand throttle mode, the names of the sticks are shown in the figure.

- **Digital Trims:** This simulator is equipped with four digital trims. Each time you press a trim button, the trim position moves one step. If you continue pressing it, the trim position starts to move faster.
- **2-position Switch (CH-5):** The function of the switch can be set in the simulation software.
- **Knob (CH-6):** The function of the knob can be set in the simulation software.
- **2-position Switch (CH-7):** The function can be set in the simulation software.
- **Note:** For 6-channel flight simulator, this is a switch for elevator/aileron mixing.
- **3-position Switch (CH-8):** Only 8-channel flight simulator has this switch. The function can be set in the simulation software.
- **Power Switch:** Push up the switch to turn on the simulator, push down to turn off.
- **USB Plug:** Connect this USB plug of the simulator to the USB port of the computer.

## Features

Features of the USB R/C flight simulator:

- You do not need to purchase any other equipment. After installing the simulation software on the computer, then you can begin to fly.
- This simulator works like a real, high-quality drone flight transmitter and has the same controls, even digital trims.
- Just plug the simulator into a USB port on the computer and do not require batteries.

## Specifications

Items	6-Channel	8-Channel
Channels	6	8
Model Type	Airplane, Helicopter, Glider	
Power Supply Mode	USB 5V	
Supported Software	FMS	
USB Cable Length	1.2 m	
Size	195*200*100mm	

## Supported Simulation Software

The supported simulation software is Flying Model Simulator (FMS), which is a freeware program written by programmers. It has since gone on to become one of the most popular downloads related to radio controlled flight.

FMS Download link: <http://www.dynam-rc.cn/About/index/id/20.html>

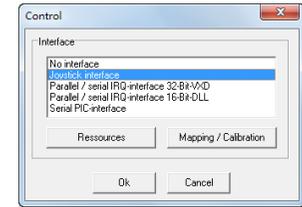
## Configuring the Simulator

The first time you connect the simulator and FMS simulation software, you need to set the channel mapping. Before your simulator can be used with FMS, it must be calibrated.

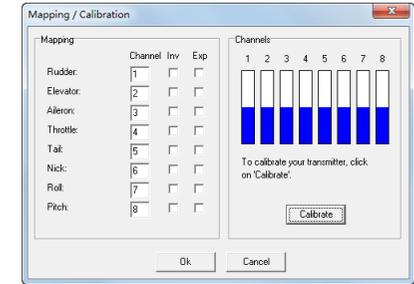
Preconditions: FMS has been installed on your computer.

Steps:

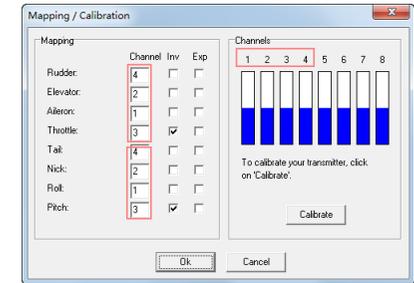
1. Connect the USB plug of the simulator to the USB port of the computer. Then double-click the FMS icon to start the program.
2. In the menu bar, select **Controls > Analog control...**, the **Control** dialog box will display on the screen.



3. Select **Joystick interface**, then click on **Mapping / Calibration** button, the **Mapping / Calibration** dialog box will display on the screen.



4. Calibrate the sticks of the R/C flight simulator. To calibrate you simulator, click on **Calibrate**. Move the sticks several times in circle until the range is adapted. Click on **Next** to continue the calibration. Center all sticks, click on **Finish** to finish the calibration.
5. Set the channel mapping.



- **Airplane**  
You should use **Rudder, Elevator, Aileron, and Throttle** channels to control airplane. And you should adjust the channel's number with your simulator. Mapping: Rudder for Channel 4, Elevator for Channel 2, Aileron for Channel 1, Throttle for Channel 3
  - **Helicopter**  
You should use **Tail, Nick, Roll, and Pitch** channels to control helicopter. And you should adjust the channel's number with your simulator. Mapping: Tail for Channel 4, Nick for Channel 2, Roll for Channel 1, Pitch for Channel 3
6. After completing the calibration and mapping, click on **OK** to exit the configuration.