HiSKY®

# HCP100S

## INSTRUCTION MANUAL
## 使用说明书

### Specifications规格资料

| | |
|---|---|
| Length 长度 | 293mm |
| Height 高度 | 87.5mm |
| Weight 重量 | 79g |
| Propeller length 主桨长度 | 113mm |
| Tail rotor blade Diameter尾桨直径 | 38.4mm |
| Rotating propeller diameter主桨旋转直径 | 249mm |
| Battery specification电池规格 | 7.4V 450mAh 25C |

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# Introduction 简介

Thank you for purchasing the HiSKY HCP100S; this advanced, dual-brushless helic -opter represents the pinnacle of micro-helicopter technology. Equipped with a highly refined flight control system and pirouette compensation technology, the HCP100S is one of the smoothest high performance helicopters on the market today.

正如你看到的，HCP100S是一款真正复合超微型直升机。其先进的无副翼设计,可减少旋翼头阻力,更重要的是机身自主稳定性在三轴陀螺仪精准的补空下有显著提高。同时结合其超凡的性能及其格外轻巧的机身设计，只要提供了一定量的电源即可反应灵敏，你会发现以前飞过的微型直升机在它的面前都黯然失色。

From basic flight maneuvers to aggressive aerobatics, the HCP100S can do it all- for those who appreciate the power of larger helicopters but lack the flying space, we believe that the HCP100S is the perfect replacement and solution. Robust engineering, high quality Dupont plastics and advanced carbon fiber composites make the HCP100S one of the most robust helicopters of its size on the market today.

无论室内或者室外，倒飞、翻筋斗、蜻蜓点水、旋转、刷锅,HCP100S都可以轻松实现以上所有动作。且做完所有飞行动作后电量还有剩余。如果你刚从基本的CCPM直升机或者固定螺距直升机过渡,你会发现HCP100S比CCPM直升机更易操控。且无需购买昂贵的设备跟维护零部件。

Prior to making your first flight, please take time to read through this manual. It contains important pre-flight information and useful tips that will help make your first flight, and every flight, a successful one.

本手册含重要的飞行资料以及绑定你的发射机有用的技巧,在你第一次飞行前，请花时间仔细阅读以确保您的第一次飞行成功。



## Notice 注意事项

All instructions, warranties and other collateral documents are subject to change at the sole discretion of our company. For up-to-date product literature, visit www.hiskyhobby.com

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## Warning 警告

Read the ENTIRE instruction manual to become familiar with the features of the product before operating.Failure to operate the product correctly can result in damage to the product,personal property and cause serious injury.This is a sophisticated hobby product.It must be operated with caution and common sense and requires some basic mechanical ability.Failure to operate this Product in a safe and responsible manner could result in injury or damage to the product or other property.This product is not intended for use by children without direct adult supervision.This manual contains instructions for safety,operation and maintenance.It is essential to read and follow all the instructions and wanrings in the manual,prior to assembly, setup or use, in order to operate correctly and avoid damage or serious injury.

操作前，请阅读整个说明书以便了解该产品的功能。未能正确地操作本产品可能会导致产品损坏，对人身财产造成严重损害。这是一个复杂的模型产品，而不是一玩具。不仅要谨慎操作，还需要具备基本的机械操作基础和常识。若未能安全使用该产品，会损坏该产品或者对人身、财产造成损失。本产品不供没有成人监督下的儿童直接使用。本手册内容包括安全、操作、维护。因此，在装配，安装或使用产品前, 必须阅读并遵守本手册中所有的提示和警告,以便正确操作,避免造成损伤或严重伤害。

## Additional safety precautions 附加安全措施防范和警告

1. Age Recommendation: Not for children under 14 years. This is not a toy.
2. Always operate your model in open spaces away from full size vehicles, traffic and people.
3. Always carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable battery packs etc).
4. Always keep all chemicals, small parts and any electrical components out of children's reach.
5. Avoid water exposure to all equipment not specifically designed and protected for this purpose. Moisture can cause severe damage to electrical components.
6. Never place any portion of the model in your mouth as it could cause serious injury or even death.
7. Never operate your model if the transmitter batteries do not have adequate power.

1. 本品非玩具，不适用于14岁以下儿童。
2. 在开阔的空间操纵模型，远离车辆及行人。
3. 使用飞机附送设备时（充电器，电池等）也必须仔细遵守操作说明及警告。
4. 本品需远离化学物品，细小部件跟充电设备需远离儿童接触范围。
5. 避免本品与水接触，此设备不具备防水功能，水汽会损害本品。
6. 切勿将本品任何部件放进嘴里，否则会造成严重伤害甚至死亡。
7. 当发射机电池电压过低时切勿操作你的模型。

## Helicopter Parameters 飞机参数

| | | |
|---|---|---|
| Length | 长度 | 293mm |
| Height | 高度 | 87.5mm |
| Weight | 重量 | 79g |
| Propeller length | 主桨长度 | 113mm |
| Rotating propeller diameter | 主桨旋转直径 | 249mm |
| Tail Rotor blade Diameter | 尾桨直径 | 38.4mm |
| Battery Specification | 电池规格 | 7.4V 450mAh 25C |

## Standard Accessories 标准配件

ARF:




## Pre-flight 飞前注意事项

1. Make sure both the transmitter and helicopter has adequate power.
2. Prior to turning on the transmitter, please make sure the throttle stick is at its lowest point. Both the throttle hold and Idle up switches need to be in the "up" position
3. Bind the helicopter to the transmitter.
4. Please turn on the transmitter first, then connect the battery with the RX board on helicopterto bind with TX. Power off the helicopter prior to powering off the transmitter
5. Make sure that the helicopter is flown in a relatively open area, away from people, animals, vehicles and power lines.

1.确认发射机电源是否充足，直升机电源是否充足。
2.打开发射机电源开关时，请确认发射机油门摇杆在最下方，确认发射机两侧的油门保持开关和特技模式开关拨向后面。（后壳方向）
3.确认发射机与直升机是否同频，如果异常请重新对码。
4.开机时先打开发射机，然后将电池连接上接收机进行对码，关机时先拔掉电池,再关闭发射机电源。
5.寻找一个合适飞行的场地，远离人群、车、高压电塔、水塘等，方可进行安全愉快的飞行。

## Binding procedures 绑定发射与接收

If you purchased an RTF model, the transmitter is bound to the model at the factory.
If binding is needed for HCP100S , please follow the directions below:

1. Turn the transmitter on.
2. Connect the battery with the helicopter, then place it on a level surface next to the transmitter.
3. Wait several seconds, the main rotor will cycle twice, meaning that it has successfully bound to the transmitter. Please move the heli after the binding process has finished .
4. Please make sure there are no other helicopters around the TX during the binding process, as multiple helicopters can not go through the bind process at the same time.
5. ESC Lock: To prevent accidental start-ups, the ESC is locked when the HCP100S is initialized. To unlock,push the throttle up to midpoint then return it to the lowest position; at this point, you should hear the ESC give an audible warning, signifying that the ESC has been unlocked.
6. Soft-start: The ESC has a soft-start function that is programmed at the factory, where the motor would spin up gradually when the throttle is first advanced to the 40% mark or above.
7. Once the ESC has been unlocked and the motor has spun up to speed, the aircraft is ready for flight.

如果您购买的RTF模型，发射机是在出厂时已对码到直升机，对码或重新对码HCP100S到您所选择的发射机，请遵循下列提示：

1. 打开发射机
2. 电池安装在起落架上，电池连接上3合1的接收板，将飞机水平静止放置在发射机旁边。
3. 稍等几秒钟，飞机主旋翼上下拍动两次，发射机和直升机对码完毕，对码成功后方可移动机身。
4. 对码时，请确保周围没有其它直升机，多个航模直升机不可以同时进行绑定。
5. 电调保护：在对好码后，电调是处于保护状态，解除保护是把油门上下摇动一次，听到两声音后说明以解除保护。
6. 在起动时油门先打到40%，HCP100S油门加了缓启功能
7. 即可起飞

**Notice:**

1. When binding, please turn off the TH.HOLD switch, or the buzzer will sound.
2. When binding, please also turn off the IDLE switch, or the buzzer will sound.
3. When binding, please make sure the Throttle stick is at its lowest point, or the buzzer will sound.

注意：1.发射机和接收机在对码或者重新对码时，油门保持开关处于开启状态时会发出警告信号,应将油门保持开关处于关闭状态。
2.发射机和接收机在绑定或者重新绑定时，特技模式开关处于开启状态时会发出警告信号,应将特技模式开关处于封闭状态。
3.对码时，油门拉杆应处在最低位，否则发射机会发出警告信号。

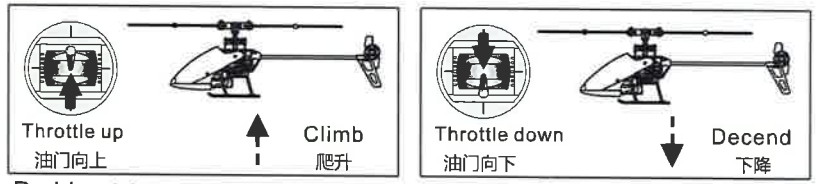

**Notice:** If the transmitter batteries have inadequate power, the status LED will blink.
**注意:** 如果发射机电源灯闪烁,说明电池电量不足。



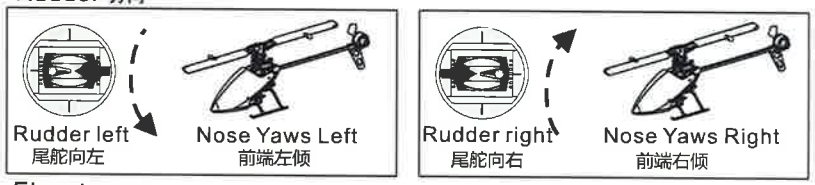
## Prior to your first flight 首次飞行指示

If you are not familiar with the controls of your HCP100S, take a few minutes to familiarize yourself with them prior to attempting your first light.
如果你不熟悉如何操控HCP100S，需先花几分钟熟悉操作，然后尝试你的第一次飞行。

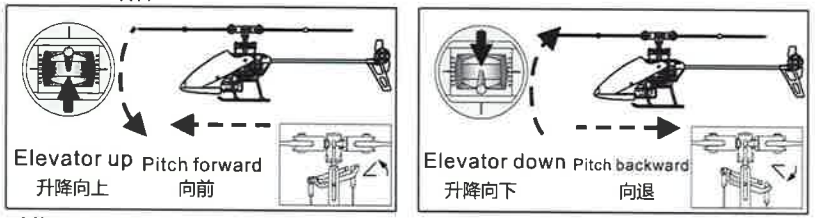
Throttle 油门




Rudder 方向




Elevator 升降




Aileron 副翼

## Troubleshooting 如何排除飞行中的异常

| | Problem 状况 | Possible Cause 原因 | Solution 对策 |
|---|---|---|---|
| 1 | The LED on the receiver board flashes constantly; the helicopter does not respond to transmitter inputs.<br>电池与飞机连接后，飞机接收板上的指示灯持续闪烁，操作无反应。 | The helicopter is not properly bound to the transmitter, a rebinding procedure is necessary.<br>发射机与飞机对码失败。 | Bind the transmitter to the receiver (refer to page 4: Programming your transmitter).<br>请重新执行发射机与接收机对码对码（参阅P.4发射机与接收机对码） |
| 2 | The helicopter does not respond after connecting the batteries to the receiver.<br>电池与接收机连接后，直升机没有任何反应。 | Check if the transmitter and helicopter batteries have enough power, or if there is a bad contact between the batteries and the battery terminals.<br>检查发射机与接收机是否接通电源；检查发射机与接收机电池电压；电池插头与接收板电源线插座接触不良。 | Replace the old batteries with new, or freshly charged batteries. Make sure that the batteries are in good contact with the terminals.<br>打开发射机，确认电池连接良好；使用完全充饱电的电池；重新插入电池，确认电池插头与接收板电源线插座的接触是否正常。 |
| 3 | When the throttle stick Is pushed forward, the motor does not engage and the receiver LED flashes constantly.<br>推动油门摇杆时，马达不转，且接收板提示灯开始闪烁。 | There is not enough charge in the flight battery, or the connectors are not making good contact with each other.<br>直升机电池电压不足；电池接触不良。 | Replace the flight battery with a freshly charged unit. Reconnect the battery connectors.<br>将电池充电或更换一个充饱电的电池；重新连接电池与接收机。 |
| 4 | The helicopter takes off immediately after the flight battery has been connected.<br>电池与接收机连接，对码成功后，直升机马上起飞。 | The throttle was not at its lowest point, or the throttle channel on the transmitter has been reversed.<br>打开发射机前，油门摇杆没有置于最下方。 | Lower the throttle stick to its lowest point; check the reversing function of the throttle channel.<br>打开发射机前，将油门摇杆置于最下方。 |
| 5 | The helicopter responds correctly to transmitter inputs, but the blades do not turn fast enough for the aircraft to take off.<br>对码成功后，起动直升机，主桨有持续转动，但不能飞。 | Low charge in battery or the main gear is loose.<br>直升机电池电压不足或主轴齿轮松开。 | Replace and charge the batteries; press the gear onto the main shaft so that there is no play in the drive-train.<br>将电池充电或更换一个充饱的电池，将主轴与齿轮压紧。 |
| 6 | Helicopter vibrates or shakes in flight.<br>直升机震动的很厉害。 | Rotor blades are damaged, or the blade grips are overly-tightened.<br>主桨变形,横轴弯曲,尾桨变形，桨夹螺丝锁太紧，导致主桨不动。 | Replace the rotor blades; loosen the blade grips so the blades can move fore and aft very slightly.<br>更换主桨,<br>更换主轴,<br>更换尾桨,<br>将桨夹螺丝适当拧松。 |
| 7 | Main rotor blades shake in flight<br>飞行时主桨出现双桨产生抖动。 | The feathering shaft is bent; the rotor-head has a loose bearing, the swash-plate has separated, there is debris in the servo or the blades are deformed.<br>横轴弯曲,横轴螺丝没锁紧,桨夹轴承磨损,舵机有杂物进入导致抖动,上斜盘与下斜盘松动,尾桨变形或破损。 | Replace the feathering shaft; check bearings. Remove the servos to check for debris. Check the swash-plate. Change the main and tail blades.<br>更换横轴,锁紧横轴螺丝并运动顺畅,更换轴承,取下舵机，清除舵机杂物,压紧上斜盘与下斜盘,更换尾桨。 |
| 8 | The helicopter tilts to one side in flight.<br>直升机起飞时无法控制。 | The helicopter wasn't initiated on a flat surface.<br>对码时直升机未保持水平静止状态。 | Re-bind the transmitter to the receiver. (Refer to page 4).<br>重新对码 (参考P.4) |



## Battery precautions
## 警告与电池使用向导


The Battery Chargerincluded with the HCP100S has been designed to safely charge the Li-Po battery.
**HCP100S附带的电池充电器可以给聚合物锂电池安全充电。**

CAUTION : All instructions and warnings must be followed exactly. Mishandling of Li-Po batteries can result in a fire, personal injury,and/or property damage.

1. By handling, charging or using the included Li-Po battery you assume all risks associated with lithium batteries.
2. If at any time the battery begins to balloon or swell, discontinue use immediately If charging or discharging, discontinue and disconnect Continuing to use, charge or discharge a battery that is ballooning or swelling can result in fire.
3. Always store the battery at room temperature in a dry area for best results.
4. Always transport or tempora rily sto re the battery in a temperature range of 40-1200 F. Do not store battery or model in a car or direct sunlight. If stored in a hot car, the battery can be damaged or even catch fire.
5. Never use a Ni-CD or Ni-MH charger. Failure to charge the battery with a compatible charger may cause fire resulting in personal injury and/or property damage.
6. Never exceed the recommended charge rate.
7. Never cover warning labels with hook and loop strips.

注意: 必须严格遵守所有的提示和警告，不正确处理聚合物电池可能会导致火灾、人身伤害或财产损失。

1. 在处理，充电或使用直升机包含的锂电池时你将承担与锂电池相关的一切风险。
2. 在任何情况下如果电池开始膨胀，请立即停止使用；如果电池正在充电或放电，请立即终止并断开电源;继续使用，充电或放电的膨胀电池，可能会导致火灾。
3. 电池始终储存在温室下，在干燥的地方以取得最佳效果。
4. 始终运输或暂时存放在40～120华摄氏的温度范围内，不要存放在模型车内或直射阳光下;如果在热车中,电池会被损坏，甚至着火。
5. 切勿使用镍镉或镍氢电池充电器,不兼容的充电器充电电池可能会引起火灾，造成人生伤害和财产损失。
6. 电池电压过低时,千万不要操作你的设备。
7. 切勿遮盖充电器上的警示标签。

WARNING: Use balance chargers to charge the flight battery. Do not use a 12V power supply or property damage and injury could occur.

警告: 充电时建议使用原厂提供的电源充电器,否则会导致财产损失和伤害发生。

**Notice**: When a Li-Po battery is discharged below 7.4V, the battery may be damaged and may no longer accept a charge. Please land thehelicopter immediately and recharge the flight battery.

注意: 当低于7.4V时,锂电池可能会被损坏，或者可能不再接受充电;飞机飞行时电池电压低于7.4V时,飞行动力下降明显,请立即降落并且及时给电池充电。

## Charging the battery 电池充电

HiSKY 7.4V (2S) variable rate DC Li-Po charger
HiSKY 7.4V (2S) 变量控制直流锂电充电器

### Instructions:

1.Connect the XC-1S5 charger to a 110-220V wall outlet
2.Connect the lithium polymer battery to the charger via the balancing tap (white, four pin conne -ctor). The LEDs on the charger will turn red once charging has commenced, and green once ch -arging has been completed.
3.The XC-1S5 charger could be used to charge two single cell (1S 3.7V) lithium polymer batteries via a converter cable.

### 说明:

1.HCP100S电池可通过XC-1S5充电器进行平衡充电
2.平衡头连接充电器后，充电开始（红灯）。充电完成时，LED会绿灯指示
3.XC1S5亦可同时充两个1S电池（通过平衡充口）没有电池连接时，LED亮绿灯。

**Notice:**Do not charge the battery with anything other than a industry-standard 2 cell balance charger.

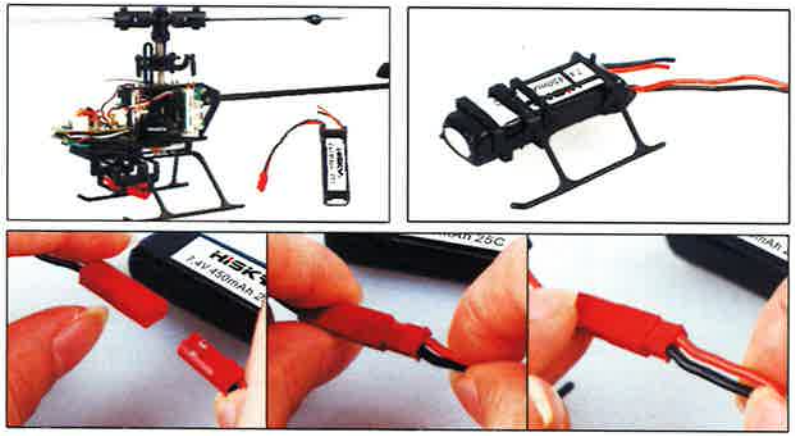
注意: 只能使用 HiSKY 提供的充电器。



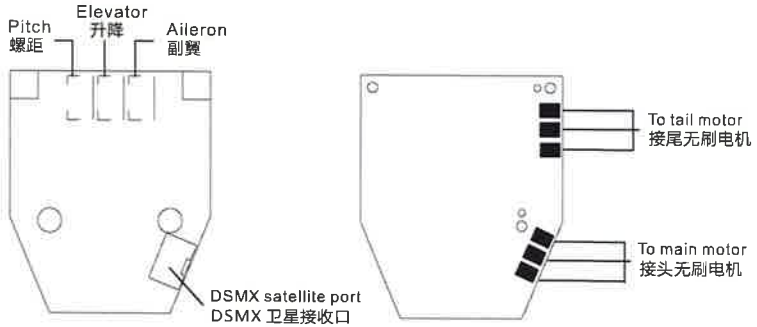
## Battery installation 安装飞行电池

1. Lower the throttle stick to its lowest position .
2. Turn on the transmitter.
3. Install the flight battery in the battery holder, connect the battery with the main board , place the helicopter on a level surface next to the transmitter.
4. Wait several seconds, the main rotor will cycle twice, it means that the helicopter has successfully bound to the transmitter. Please move the heli after the binding process has finished .

1.将油门拉杆打到最低位。
2.打开发射机。
3.电池安装在起落架上，电池连接上3合1接收板，将飞机水平静止放置在发射机旁边。
4.稍等几秒钟后，飞机主旋翼上下拍两次，表示发射机和飞机对码完毕，等对码完毕后方可移动直升机。



## Receiver board interface 接收板接口图




Front 正面　　Rear 背面

## HCP100S DSMX Satellite receiver settings
## HCP100S地平线卫星接收参数

### HCP 100S地平线卫星接收参数

System setup：系统菜单
Model type:　模型选择
Helicopter:　直升机模式
Swash type:　倾斜盘类型
Normal:　单舵机输出

**Function menu功能菜单：**
Travel 舵量设置

| | | | | | |
|---|---|---|---|---|---|
| 100 | 75 | 80 | 70 | 100 | 65 |
| 100 | 75 | 80 | 70 | 100 | 65 |
| THR | AIL | ELE | RUD | GER | PIT |

**Throttle curve 油门曲线**
Throttle curve (normal)
1：0%
2：85%
3：85%
4：85%
5：85%

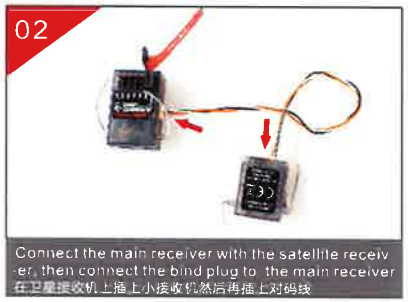
**3D油门曲线：**
Throttle curve (stunt)
1：95%
2：95%
3：95%
4：95%
5：95%

**Pitch curve 螺距曲线**
Pitch curve(normal)
1：40%
2：45%
3：50%
4：75%
5：100%

**3D螺距曲线**
Pitch curve(stunt)
1：0%
2：25%
3：50%
4：75%
5：100%

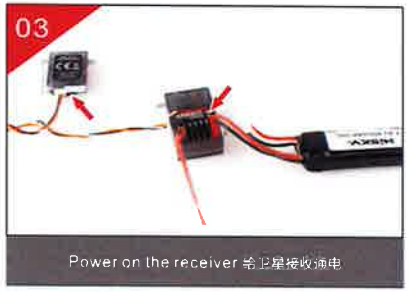
## How to bind and use the satellite receiver
## 如何安装卫星接收机

Prepare a DSMX compatible radio, helico pter, sa -tellite receiver and main receiver
准备好HCP100S直升机、遥控器、卫星接收机及接收机各一个



Connect the main receiver with the satellite receiv -er, then connect the bind plug to the main receiver
在卫星接收机上插上小接收机然后再插上对码线

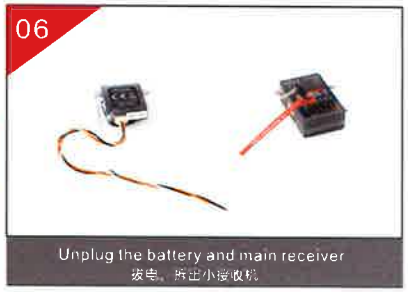




Power on the receiver 给卫星接收机通电

Press and hold the bind button of the transmitter to bind　按住发射机的对码按键进行对码

Bind successful　绑定成功



Unplug the battery and main receiver
拔电，所出小接收机

Connect the receiver with the receiver board of helicopter　把小接收机插到HCP100S机板上

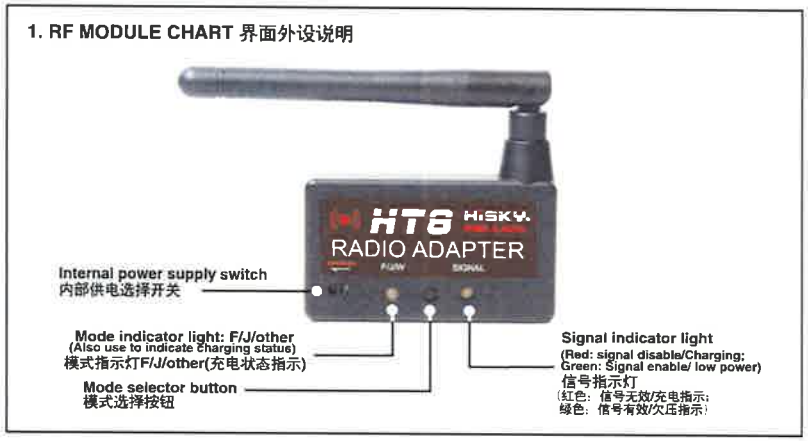
Power on the transmitter, then the helicopter
给HCP100S通电进行对码，绑定成功

Fasten the satellite receiver to the helicopter
绑定成功后，即可将卫星接收机粘贴在直升机上

Install the canopy　最后，将机头罩安装上

# RF MODULE INSTRUCTION 高频头使用说明

## 1. RF MODULE CHART 界面外设说明




## 2. Parameters 工作参数

| | |
|---|---|
| Sealed battery Specification: 3.7V Li-Po battery 150mAh | 内置电池规格：3.7V锂电池150mAh |
| Operating voltage: 5 ~ 12V.DC | 工作电压：5~12V.DC |
| Operating Current: ≤ 100 mA | 工作电流：≤100 mA |
| Operating frequency: 2402 MHZ ~ 2477 MHZ | 工作频率: 2402 MHz~2477 MHz |
| Spread Spectrum mode: FHSS | 展频模式：FHSS |
| Number of frequency channels: 20 | 展频信道数：20 |
| Hopping Rate: 240 Jump/s | 跳频速率：240跳/秒 |

## 3. Charging operation 充电操作:

First put the internal power supply switch to OFF position, no LED lights on RF Module bright this time, then connect RF Module to a computer (or the other power supplier equipment) using USB wire, this time, Signal indicator light starts to flash and Mode indicator light shows charging status: red means charging,turning to green means charging is over.

首先把内部供电选择开关拨到OFF状态，高频头所有LED均不点亮，然后把USB充电线连接高频头和电脑（或者其它供电设备），此时信号指示灯（红灯）闪烁；而模式指示灯显示电池的充电程度，模式指示灯亮红灯时表示正在充电，模式指示灯亮绿灯时表示充电完毕。

## 4. Normal operation 正常使用操作:

1. If the radio supplies power to the HT8 module, switch the internal power supply switch to the OFF position. Connect the HT8 to the radio via the included signal cables.
2. If no power is supplied by the radio, switch the internal power supply switch to the ON position. Connect the HT8 to the radio via the included signal cables.
3. Under normal circumstances, the HT8 LEDs are green, if they are red, check to see if the signal cable is properly connected. Check also that the radio is operating under PPM output. Press the button on the HT8 to cycle through different radios- the status indicator will be green with Futaba radios, red with JR radios and off with Walkera radios.



1. 针对提供内部电源的遥控器（如：JR / Futaba）此时内部供电选择开关拨到OFF状态。正确连接高频头信号线，JR遥控器需选择JR信号线,3.5寸音频插头插到遥控器的DSC接口，而Futaba遥控器则需要选择使用Futaba信号电源线来连接高频头和遥控器的教练接口。
2. 针对无提供内部供电的遥控器使用: 内部供电选择开关拨到Power on状态，正确连接高频头和遥控器的DSC接口。
3. 正确连接高频头和遥控器之后，信号指示灯应亮绿灯。如果亮红灯请检查遥控器的调制模式是否设置成PPM模式，而模式状态下的指示灯的状态要根据所连接的遥控器通过模式切换按键来进行选择.Futaba对应设置为绿灯、JR对应设置为红色、华科尔对应设置为灭灯。

## Function 功能：

1.Built in battery supply with charge protection and low voltage alarm.
2.Supports most mainstream radios.
3.Charging protection and Low voltage alarm function.

1.支持内部供电，适合不同品牌遥控器
2.支持市面上主流遥控器设备，如 JR/Futaba/华科尔
3.内置充电保护以及低压报警功能

## Notice 注意事项:

1.There is one 3.7V Li-po battery sealed within the RF module. Prior to use, turn the RF module to the OFF position and connect the signal cable to the radios' trainer port.
2.Pay attention to the battery power levels when using with internal battery supply. If you see the green light flash, please charge the battery immediately.

1. 高频头内置3.7V锂电池，使用时先把高频头开关打到power模式，然后在把信号线连接到摇控器的教练线接口。
2. 使用高频头内部电池供电时需注意电池电量，当使用过程中信号指示灯绿灯闪烁时应及时停止使用，然后进行充电操作。

## RF Module status lights
## HCP100S高频头模式选择

| | |
|---|---|
| JR 左红右绿 | Left: red; Right: green. |
| FUTABA 左绿右绿 | Left: green; Right: green. |
| Devention 左无色右绿 | Left: off; Right: green |
| FS 左绿右绿 | Left: green; Right: green. |

## HCP100S RF module parameters 高频头建议参数

Select helicopter mode, Servo NORM, then set the output as PPM
首先将遥控器设置为直升机单舵机模式（Servo NORM），再将遥控器调制PPM发射模式
specifications are as follows:
下图为参数：

TYPE SELECT: HELI
Servo TYPE : Servo NORM

**[REV SW]**

| THR | AILE | ELEV | RUD | GER | PIT |
|---|---|---|---|---|---|
| REC | REC | REC | NORM | REC | REC |

**[ THRO CURV ] N**

POINT-L 0%
1 85%
2 85%
3 85%
H 85%

**[ THRO CURV ] ST-1**

POINT-L 95%
1 95%
2 95%
3 95%
H 95%

**[ TRVL ADJ ]**

| THR | AILE | ELEV | RUD | GER | PIT |
|---|---|---|---|---|---|
| 100 % | 80% | 85% | L70% | 100% | 55% |
| 100% | 80% | 85% | R70% | 100% | 55% |

**[PIT CURV] N**

POINT-L 35%
1 45%
2 50%
3 75%
H 100%

**[PIT.CURV] ST-1**

POINT-L 0%
1 1NH
2 50%
3 1NH
H 100%



## FUTABA radio settings for the HCP100S
## 配FUTABA高频头HCP100S摇控器建议参数

Select helicopter mode, Servo NORM, then set the output as PPM
首先将遥控器设置为直升机单舵机模式，再将遥控器调制PPM发射模式

SWASHPLATE SETTING:
**倾斜盘模式设置:**
PARAMETER
RESET:Execute
TYPE:HELICOPTER
SWASH:H-1
MODUL:PPM
ATL:ON

**[ END POINT ]**

1 AILE 85/85
2 ELEV 85/85
3 THRO 100/100
4 RUDD 70/70
5 GYRO 100/100
6 PICH 55/55

**[ THR-CURVE ] (NORM)**

| | |
|---|---|
| POINT -1 | 0 |
| -2 | 85 |
| -3 | 85 |
| -4 | 85 |
| -5 | 85 |
| -6 | 85 |
| -7 | 85 |

**[ THR-CURVE ](IDL)**

| | |
|---|---|
| -1 | 100 |
| -2 | 95 |
| -3 | 95 |
| -4 | 95 |
| -5 | 95 |
| -6 | 95 |
| -7 | 95 |

**[ REVERSE ]**

AILE: NOR
ELEV:NOR
THRO:NOR
RUDD: REV
GYRO: NOR
PITC: NOR

**[ PIT-CURVE ] (NORM)**

| | |
|---|---|
| POINT 1 | -30 |
| 2 | - 20 |
| 3 | -10 |
| 4 | -0 |
| 5 | +25 |
| 6 | + 50 |
| 7 | +100 |

**[ PIT-CURVE ](IDL)**

| | |
|---|---|
| POINT 1 | -100 |
| 2 | -50 |
| 3 | -25 |
| 4 | +0 |
| 5 | +25 |
| 6 | +70 |
| 7 | +100 |

## Walkera radio settings for the HCP100S
## 配华科尔高频头HCP100S遥控器建议参数

**模式菜单：MODEL**

1.TYPE(模型选择)：
HELI 直升机

2.SWRSH(舵机模式)
1-NRM 单舵机模式

FUNCTION MENU:
功能菜单:
REVSW(反向设置):
ELEV (REV)
AILE(REV)
THRO(REV)
RUDD(NORM)
GEAR(NORM)
PITCH(REV)
GYRO(NORM)

**TRVRD(舵机行程设置)**

ELEV: U 65% D 65%
AILE : L 55% R 55%
THRO: H 100% L 100%
RUDD: L 70% R 70%
GEAR: + 100% - 100%
PITCH: H 55% L 55%
GYRO: + 100% - 100%

**THHOLD(熄火开关)**

STATE: ACT

**THCRV (NORM油门曲线)**

SRVHD
YES
MODE
NORM
POINT
P-L : 0%
P-1 : 85%
P-2 : 85%
P-M : 85%
P-3: 85%
P-4: 85%
P-H: 85%

**THCRV (3D油门曲线)**

SRVHD
YES
MODE
ST - 1
POINT
P-L : 100%
P-1 : 95%
P-2 : 95%
P-M : 95%
P-3: 95%
P-4: 95%
P-H: 95%

**PTCRV(NORM螺距曲线)**

SRVHD
YES
MODE
NORM
POINT
P-L : -35%
P-1 : -40%
P-2 : -25%
P-M : + 0%
P-3: +33%
P-4: +70%
P-H: +100%

**PTCRV(3D螺距曲线)**

SRVHD
YES
MODE
ST - 1
POINT
P-L : -100%
P-1 : -53%
P-2 : -27%
P-M : 0%
P-3: +37%
P-4: +70%
P-H: +100%



## Flysky FS-TH9X radio settings for the HCP100S
## 配FS-TH9X高频头HCP100S遥控器参数

Remove the default 2.4GHz module
先把2.4G模块天线拆下。

System menu:
1. Type SELE
Heli- Heli 1
2. Mode UAT PPM
系统菜单：（SYSTEM）
1.模型选择 TYPE SELE
HELI 直升机 HELI 1 单舵机模式
2.模式选择MODE UAT PPM

**功能菜单: (FUNCT ION)**
**反向设置REVERSE**

ELEV (REV)
AILE(NOR)
THRO(REV)
RUDD(REV)
GEAR(NOR)
PITCH(REV)

**油门曲线 THCRV NORM**

POINT -L 0%
1 85%
2 85%
3 85%
H 85%

**油门曲线 THCRV 3D**

POINT -L 95%
1 95%
2 95%
3 95%
H 95%

**螺距曲线 PIT/CV NORM**

POINT -L 40%
1 40%
2 50%
3 70%
H 90%

螺距曲线PIT/CV 3D

POINT -L 0%
1 25%
2 50%
3 75%
H 100%

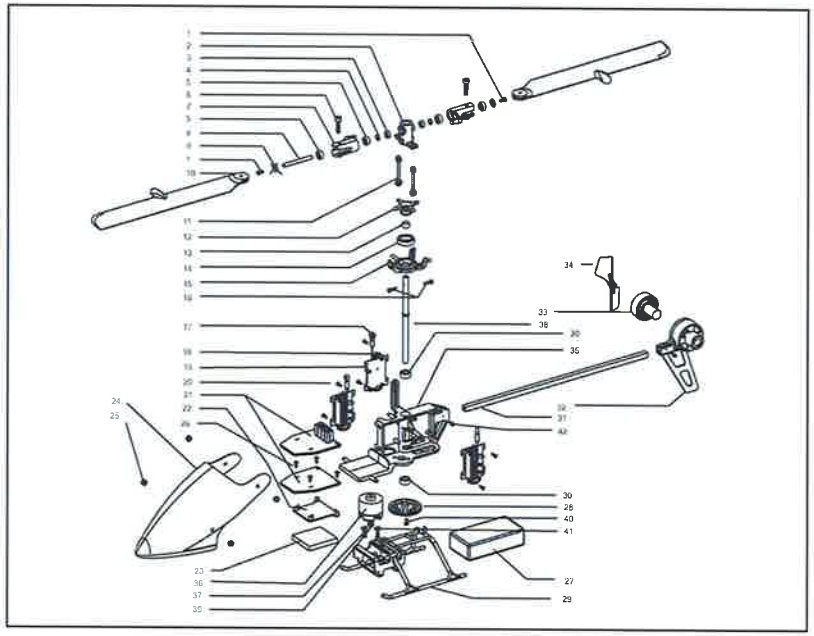
开关设置 AUX- CH

CH5 GEAR
CH6 HOV PIT
CH7 HOV THRO
CH8 PIT TRIM
CH9 THRO HOLD

舵机行程设置 E.POINT:

1 AILE 75/75
2 ELEV 80/80
3 THRO 100/100
4 RUDD 75/75
5 GYRO 100/100
6 PICH 60/60

## Exploded View 爆炸图





## Parts List 零件清单

| NO | PART NAME 零件名称 | QUANTITY |
|---|---|---|
| 1 | 圆头十字机牙螺丝 Screws M1.4x3.0 | 2 |
| 2 | 中联 Main rotor hub | 1 |
| 3 | 中联避震垫 Main rotor hub O-ring | 2 |
| 4 | 台阶圆环 Stepped ring | 2 |
| 5 | 轴承 Bearing | 4 |
| 6 | 圆头十字机牙螺丝 Screws M2.0x8.0 | 2 |
| 7 | 桨夹 Blade grip (main blade) | 2 |
| 8 | 横轴 Feathering shaft | 1 |
| 9 | 横轴垫片Feathering shaft spacer | 2 |
| 10 | 黑色主桨 Main rotor blade | 2 |
| 11 | 桨夹连杆 Pull rod | 2 |
| 12 | 上斜盘 Swashplate (TOP) | 1 |
| 13 | 鱼眼 Fisheye bearing | 1 |
| 14 | 轴承 Bearing | 1 |
| 15 | 下斜盘Swashplate (BOTTOM) | 1 |
| 16 | 圆头十字自攻螺丝 Screws M1.2x3.0尖脚 | 1 |
| 17 | 舵机连杆头 Servo pushrod | 3 |
| 18 | 拉杆 Pushrod | 3 |
| 19 | 直线舵机 Linear servo | 1 |
| 20 | 圆头十字机牙螺丝 Screws M1.0x3 | 6 |
| 21 | 接收板 Receiver board | 2 |
| 22 | 主托板 Receiver tray | 1 |
| 23 | 减震垫片 Anti-vibration mount | 1 |
| 24 | 机头罩 Canopy | 1 |
| 25 | 机头罩垫圈 Canopy grommets | 4 |
| 26 | 圆头十字自攻螺丝 Screws M1.2x3.0尖脚 | 4 |
| 27 | 电池 li-po battery 7.4V 450mAh 25C | 1 |
| 28 | 主轴齿轮 Main shaft gear | 1 |
| 29 | 起落架 Landing gear | 1 |
| 30 | 轴承 Bearing | 2 |
| 31 | 碳纤尾方管 Carbon fiber tail boom | 1 |
| 32 | 尾马达座 Tail motor pedestal | 1 |
| 33 | 尾马达 Tail motor | 1 |
| 34 | 黑色大尾桨 Tail rotor | 1 |
| 35 | 机架 Main frame with hardware | 1 |
| 36 | 主马达 Main motor | 1 |
| 37 | 主马达螺丝M1.5X3.0 main motor | 2 |
| 38 | 主轴Steel main shaft | 1 |
| 39 | 马达齿轮 Motor gear | 1 |
| 40 | 主轴齿轮十字机牙螺丝 M2x3 motor gear | 1 |
| 41 | 主马达螺丝垫片 Motor screw spacer | 2 |
| 42 | 尾方管固定螺丝1.2x3.0尖脚 黑色 Tail boom screw | 2 |

# Accessories list 配件列表

| | | | |
|---|---|---|---|
| Part number:800388 Part name: main frame with collar and hardware<br>零件编号:800388<br>零件名称: 机架配件 | Part number:800390 Part name: Landing skid<br>零件编号:800390 零件名称: 起落架 | Part number:800002 Part name: main rotor blade<br>零件编号:800002 零件名称: 主桨 | Part number:800003 Part name: swashplate combination<br>零件编号:800003<br>零件名称: 倾斜盘组合 |
|  |  |  |  |
| Part number:800004 Part name: Blade grip (main blade)<br>零件编号:800004 零件名称: 桨夹 | Part number:800398 Part name: Main rotor hub<br>零件编号:800398<br>零件名称: 中联配件 | Part number:800006 Part name: Connecting rod<br>零件编号:800006 零件名称: 连杆 | Part number:800386 Part name: Pushrod<br>零件编号:800386<br>零件名称: 拉杆配件 |
|  |  |  |  |
| Part number:800008 Part name: main shaft gears<br>零件编号:800008<br>零件名称: 主轴齿轮 | Part number:800380 Part name: Receiver tray<br>零件编号:800380<br>零件名称:主托板 | Part number:800389 Part name: tail motor pedestal<br>零件编号:800389<br>零件名称：尾马达座 | Part number:800397 Part name: Canopy<br>零件编号:800397<br>零件名称: 机头罩组合 |
|  |  |  |  |
| Part number:800391 Part name: Main rotor hub O-ring<br>零件编号:800391<br>零件名称: 中联避震垫 | Part number:800010 Part name: Black tail rotor<br>零件编号:800010<br>零件名称: 尾桨 | Part number:800387 Part name: Carbon fiber tail boom<br>零件编号:800387 零件名称: 尾方管 | Part number:800385 Part name: Steel main shaft<br>零件编号:800385 零件名称: 主轴 |
|  |  |  |  |
| Part number:800016 Part name: bearing⌀ 6⌀ 10x2.5mm<br>零件编号:800016 零件名称:<br>轴承(倾斜盘) ⌀6x⌀10x2.5mm | Part number:800017 Part name: bearing⌀ 3⌀ 6x2.5m<br>零件编号:800017 零件名称:<br>轴承（主轴）⌀3x⌀6x 2.5mm | Part number:800018 Part name: bearing⌀ 2⌀ 5x2mm<br>零件编号:800018 零件名称:<br>轴承（桨夹）⌀2x⌀5x2mm | Part number:800019 Part name: feathering shaft<br>零件编号:800019<br>零件名称: 横轴配件 |
|  |  |  |  |



| | | | |
|---|---|---|---|
| Part number:800400 Part name: screws M2x8,M1x3,M1.4x3,ST1.2x5PA<br>零件编号:800400<br>零件名称:螺丝配件 | Part number:800043 Part name: Linear servo<br>零件编号:800043<br>零件名称: 新版直线舵机 | Part number:800394Part name: main motor<br>零件编号:800394<br>零件名称: 主马达电机 | Part number:800395 Part name: tail motor<br>零件编号:800395<br>零件名称: 尾马达电机 |
|  |  |  |  |
| Part number:800384 Part name: li-po batteries<br>零件编号:800384 零件名称: 锂电池 | Part number:800025 Part name: Philips screwdriver and hex drive<br>零件编号:800025 零件名称: 工具配件 | Part number:800393 Part name: receiver board<br>零件编号:800393 零件名称: 接收板 | Part number:800392 Part name: ESC board<br>零件编号:800392 零件名称: 电调板 |
|  |  |  |  |
| Part number :800396 Part name: 7.4V 450mAh battery<br>零件编号:800396<br>零件名称: 尾方管组合 | Part number:800036 Part name: Main blades (green)<br>零件编号:800036<br>零件名称: 绿色主桨 | Part number :800040 Part name: LS101 Carbon strip<br>零件编号:800040 零件名称:<br>LS101舵机碳条板 | Part number :530728 Part name: Anti-vibration mount<br>零件编号:530728<br>零件名称:减震垫片 |
|  |  |  |  |