Thank you for purchasing our R/C system

4-CH 2.4G Radio Control System

Instruction Manual

- Thank you for purchasing our R/C system
- Read this manual carefully before use

HISKY®

Digital Proportional RC System H-4Q
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1.0 Foreword

1.0 Declaration
(1) This product is designed for experienced pilots aged 14 years or older.
(2) The user should operate the radio controlled aircraft at a legal, designated field.
(3) HiSKY accepts no responsibility for damage or injury caused by mis-operation, mis-use or mis-control after purchase.
(4) If assistance is required, please contact the distributor or our customer service representatives.

1.2 Safety notice
(1) Follow the guidelines specified in this manual
Do not modify this transmitter in any way unless specified by this manual.
(2) Safe operation
Operate this device depending on your own skill level and your health status; refrain from using this product if you feel feeble or fatigue. Do not operate this device under the influence of drugs or alcohol.
(3) Flying location
Despite being highly reliable and advanced products, mechanical and electronic failures may still happen. Do not operate the model aircraft in close proximity to people and other obstacles; refrain from flying in adverse weather or at night to avoid hurting yourself or bystanders.
(4) Humidity
This product is made of highly complicated electronic and mechanical components, keep the product in a dry environment and avoid humidity to avoid electrical and/or mechanical damage.
(5) Heat
Avoid heat exposure; heat may cause electronic and mechanical components to warp or fail, do not expose this product to excessive heat to prevent failure.

1.3 Pre-flight checklist
(1) Ensure that the battery packs on both the transmitter and receiver/aircraft are fully charged prior to flight
(2) Ensure that the throttle stick and the throttle trim are at their lowest positions prior to operation.
(3) The transmitter must be turned on prior to powering on the aircraft. To end your flight, unplug the aircraft battery before turning the transmitter off. An incorrect order of connection or disconnection may cause the loss of control of your aircraft.

2.0 Features and specifications

2.1 H-4Q transmitter specifications
(1) Channels: 4
(2) Resolution: 1024
(3) Frequency: 2.4GHz ISM frequency range
(4) Modulation: GFSK
(5) Spread spectrum mode: FHSS
(6) Number of frequency channels: 20
(7) Hopping rate: 240 jumps/s
(8) Output power: ≤ 20dBm
(9) Working current: ≤ 150mA
(10) Operation voltage: 1.2V x 4 NiCad/NiMH
(11) Dimensions: 150mm x 188mm x 70mm
(12) Net weight: 320g

2.2 H-4Q transmitter features
(1) Utilizes 2.4GHz Frequency Hopping Spread Spectrum (FHSS) technology
(2) Digital trim
(3) Dual rates on aileron, elevator and rudder.
(4) Low voltage warning

2.3 XY5000S receiver specifications
(1) Channels: 5
(2) Frequency: 2.4GHz ISM frequency range
(3) Modulation: PCM
(4) Spread spectrum mode: FHSS
(5) Operation voltage: 4.5-5.5V
(6) Operation current: ≤ 30mA
(7) Net weight: 11g
(8) Product size: 41mm x 28mm x 14mm

2.4 XY5000S receiver features
(1) 2.4GHz FHSS technology
(2) High reception sensitivity, high resistance to interference
3.0 Function declaration

3.1 Front panel view
1. Antenna
2. Handle
3. D/R (Aile Elve Rudd)
4. LED
5. Left stick
6. Digital trim
7. Digital trim
8. Eyelet
9. Power
10. LCD
11. Right stick
12. Digital trim
13. Digital trim
14. UP
15. DOWN
16. SELECT

3.2 Rear view
1. Screw 1
2. Screw 2
3. Screw 3
4. Screw 4
5. Trainer port/DSC
6. Battery case cover

3.3 Wiring diagram and binding procedure
Binding:
Switch on the transmitter, reduce throttle to its lowest position and make sure the alarm is off when powering on the receiver/aircraft. Press the bind button (if applicable) until the green light turns solid, signaling binding success.

Caution:
While binding, place the transmitter and receiver antennas in close proximity if possible; make sure that there are no similar devices on bind mode within approximately 10 meters. If the light flashes after the binding procedure is complete, retry the binding procedure again until the light turns solid.

3.4 Function keys in panel
There are 3 function keys on the H-4Q panel, Details below:
3.7 Throttle stick configuration

To change the throttle stick from left to right or vice versa, a mechanical change needs to be performed. The procedures are as follows:

Loosen the 4 screws on the transmitter back-cover with a phillips screwdriver, remove the back cover. Remove screw A and swap the throttle column assembly with each other as shown in the diagram, then fasten the screws back in their original positions. The wires are connected as shown in the diagram. Caution: the switch position on the PCB should be changed to mode 2 or mode 4 depending on the desired flight mode. Replace the back cover.

3.6 Trainer port (Digital Signal Converter, DSC)

This port is used to connect the transmitter to an optional simulator on your computer. The trainer cable and USB adaptor is sold separately.

Instructions:
After simulator installation, plug the trainer cable into the DSC port and the USB adaptor; then plug the USB adaptor into the USB port on your computer.

Attention:
1. Do not plug unauthorized devices into the DSC port on the transmitter; doing so will void the warranty.
2. This device is compatible with R/C simulators only.

3.5 Stick calibration

Center both control columns, simultaneously hold the “throttle” trim up and the “rudder” trim left (mode 2); turn the transmitter on. The buzzer will sound four times, release all trims and reduce the throttle column to its lowest position.

Non-throttle stick

Throttle stick

Left throttle stick

Right throttle stick
3.8 Battery installation

4x AA batteries are required to operate the H-4Q, the polarities of which are shown below.

3.9 LED backlight warning system

The backlit LCD screen of the H-4Q serves also as a warning system. Under normal operating conditions, the LED backlight is solid. If the backlight flashes and there is an audible warning sound, please check that the following conditions are met on the transmitter:

1. The transmitter battery voltage is no less than 4V
2. The throttle stick is at its lowest position

3.10 LCD screen functions

The icons and what they signify on the LCD screen are indicated below:

4.0 Aircraft type

The H-4Q transmitter has a built-in fixed-winged aircraft mode; to switch to this mode, double click “UP” and “SELECT” to change the mode type. “L” mode is the 3 channel beginner mode while “H” is normal, 4 channel mode.

Caution: This transmitter is compatible with the HFP100/HFP80
This function is used when the channel output opposes the desired output.

To toggle the channel reversal function, click the "UP" and "DOWN" keys to enter the system menu, then click "UP" or "DOWN" to scroll to the REV option; press "SELECT" to enter the REV menu, press "SELECT" again to select the desired channel and to change its reversal settings by clicking "UP" or "DOWN"; after the selection is finalized, press "SELECT" to exit to the channel selection, and simultaneously click the "UP" and "DOWN" buttons to exit to the main menu.

End point adjustment or EPA, limits the amount of travel on the servo, or esc. For example, an EPA limit of 50% means that only 50% of the servo/throttle throw is utilized even if the user input is 100% of the travel on their transmitter.

To toggle the EPA function, click the "UP" and "DOWN" keys to enter the system menu, then click "UP" or "DOWN" to scroll to the EPA option; press "SELECT" to enter the EPA menu, press "SELECT" again to select the desired channel and to change its EPA settings by clicking "UP" or "DOWN"; after the selection is finalized, press "SELECT" to exit to the channel selection, and simultaneously click the "UP" and "DOWN" buttons to exit to the main menu.
The timer provides audible warnings to the operator in order to control his/her flight time and prolong battery life.

To set the timer: double click "UP" and "DOWN" simultaneously to enter the function menu, then press "UP" or "DOWN" to select the "TIME" function; press "SELECT" to enter the setting menu and select the time by pressing "UP" or "DOWN". After the time has been selected, press "SELECT" to confirm, then hold down the "UP" and "DOWN" keys to return to the default menu. Hold "UP" to start the timer, hold "DOWN" to reset.

Note: With 30 seconds remaining, the buzzer will send a short, audible "beep" every second and a long extended "beep" when the time runs out; click "DOWN" to reset the timer, delete the setting or restart the countdown.

Caution: Under "beginner" mode, there is no actual output from channel 1 as it is a 3 channel flight mode.

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.
Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.
2.0 规格与特性

2.1 H-4Q发射机规格
(1) 通道: 4
(2) 分辨率: 1024
(3) 发射频率: 2.4GHz ISM频段
(4) 调变方式: GFSK
(5) 展频模式: 跳频FHSS
(6) 展频信道数: 20
(7) 跳频速率: 240跳/秒
(8) 发射功率: ≤20dBm
(9) 工作电流: ≤150mA
(10) 工作电压: 1.2V x 4NiCad/NiMH
(11) 产品尺寸: 150mmx188mmx70mm
(12) 净重: 320g

2.2 H-4Q发射机特性
(1) 采用2.4G跳频(FHSS)技术
(2) 数字微调
(3) 副翼,升降及方向舵,大小动作比例
(4) 低压报警

2.3 XY5000S接收机规格
(1) 通道: 5
(2) 工作频率: 2.4GHz ISM频段
(3) 制式: PCM
(4) 展频模式: 跳频FHSS
(5) 工作电压: 4.5-5.5V
(6) 工作电流: ≤30mA
(7) 净重: 11g
(8) 产品尺寸: 41mmx28mmx14mm

2.4 XY5000S接收机特性
(1) 采用2.4G跳频(FHSS)技术
(2) 接收灵敏度高,抗干扰能力强

3.0 功能说明

3.1 正面功能
1. 天线
2. 把手
3. D/R（副翼 升降 方向舵）
4. 指示灯
5. 左操纵杆
6. 数字微调
7. 数字微调
8. 挂钩
9. 电源开关
10. 显示屏
11. 右操纵杆
12. 数字微调
13. 数字微调
14. 上翻键
15. 下翻键
16. 选择键

3.2 背面功能
1. 螺丝1
2. 螺丝2
3. 螺丝3
4. 螺丝4
5. 模拟口
6. 电池盖
3.3 连接线图和绑定

绑定：开启发射机电源，油门摇杆处于最低位置，无报警状态下接通接收机电源，按住接收机上的BIND按键，红灯闪烁后松手，直到接收机LED灯显示绿色，绑定成功。

注意：让接收机的天线尽量靠近发射机的天线，同时10米内无相同的设备进行绑定，如果接收机的LED灯还在闪烁，请重新绑定。

3.4 面板功能
H-4Q功能面板上有3个按键，其功能如下：

选择 向上
选择 向下
选择 确认

3.5 操杆中位校正

把各操纵杆居中，用手同时按住左手微调向按键和左手微调向左按键，然后开机，蜂鸣器响四声，然后松开，再把油门压到最低，蜂鸣器停止响。

3.6 练习模式
此模拟口用于电脑上的模拟飞行，需配备模拟软件和加密狗连接线。

操作：
在电脑上装好模拟软件后，把加密狗连接线一头插入发射机模拟口，另一头连接电脑USB插口即可使用。

注意：
1. 请不要把任何电子设备连接线或遥控设备连接在遥控器背后的模拟接口上，否则我们将不负责为此产生的损失。
2. 仅支持模拟软件飞行

3.7 左右手切换
如果要进行左右手切换，可通过机械切换来完成，具体步骤如下：
用十字螺丝批松开后壳上4个螺丝，取下后壳，左右手油门分别如下图。用十字螺丝批松开左右手模式杆如图所示螺丝A，将油门模式与非油门模式对调，如左右手油门模式图所示，再将螺丝A拧紧；电位器的连接线如图所示(1, 2)，并把电路上的开关拨右为左手油门(MODE2)，拨左为右手油门(MODE1)，完成后安装好后壳。
3.8 电池安装

正常使用模式下，当LED灯是白色的时候，发射机正常工作。如果LED灯一直闪烁并发出嘟嘟声，请检查并满足以下状态。

(1) 电源电压不低于4V。
(2) 开启发射机时，油门杆处于最低位置。

3.9 LED灯演示功能

正常使用模式下，当LED灯是白色的时候，发射机正常工作。如果LED灯一直闪烁并发出嘟嘟声，请检查并满足以下状态。

(1) 电源电压不低于4V。
(2) 开启发射机时，油门杆处于最低位置。
3.10 开机界面

开机界面如图:

4.0 模式类型

H-4Q遥控器内置固定翼模式类型,可通过双按“UP”+“SELECT”切换模式类型，选择其中“L”初学者模式(3CH),“H”为标准模式(4CH).如图:

5.0 固定翼功能菜单

5.1 标准模式功能菜单

5.2 反位设置

反位设置：如通道输出的实际方向与指令相反时，可通过此设置修正。

操作方法：双按“UP”+“DOWN”键进入功能菜单，再按“UP”或“DOWN”键选择REV模式，按“SELECT”键进入设置，再按“SELECT”键选择通道和反位位置，通过按“UP”或“DOWN”键选择通道与设置反位状态；设置完成后，按“SELECT”键跳回通道选择，再双按“UP”+“DOWN”键两次，返回开机界面。

5.3 计算器

5.4 舵机行程量

注意：此款遥控器相对应的直升机类型为：HFP100/HFP80
5.3 大小舵量

大小舵量：可设置副翼、升降、方向的舵量大小。当D/R拨杆处于0位时，副翼、升降、方向的舵量输出为100%；当D/R拨杆处于1位，副翼、升降、方向的舵量大小输出为70%。

操作方法：双按“UP”+“DOWN”键进入功能菜单，再按“UP”或“DOWN”键选择D/R模式；按“SELECT”键进入设置，再按“SELECT”键选择通道和舵量值位置，通过按“UP”或“DOWN”键选择通道与设置舵量的数值；设置完成后，按“SELECT”键跳回通道选择，再双按“UP”+“DOWN”键两次，返回开机界面。

5.4 舵机行程量

舵机行程量：可调整各通道输出的行程，出厂默认值为0%-100%。

操作方法：双按“UP”+“DOWN”键进入功能菜单，再按“UP”或“DOWN”键选择EPA模式；按“SELECT”键进入设置，再按“SELECT”键选择通道和行程量位置，通过按“UP”或“DOWN”键选择通道与设置行程量的数值；设置完成后，按“SELECT”键跳回通道选择，再双按“UP”+“DOWN”键两次，返回开机界面。

5.5 计时器

计时器：设置飞行时间

操作方法：双按“UP”+“DOWN”键进入功能菜单，再按“UP”或“DOWN”键选择TIME模式；按“SELECT”键进入设置，再按“UP”或“DOWN”键设置时间。设置完成后按“SELECT”键确认，再双按“UP”+“DOWN”键，返回开机界面。按住“UP”定时启动/“DOWN”定时复位。

提示：此设置后30秒每隔1秒鸣叫一次，到时长鸣按住“DOWN”定时复位，注销时间，重新计时。

注意：初学者模式（3C）在菜单中CH1设置无实际输出。

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.
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.