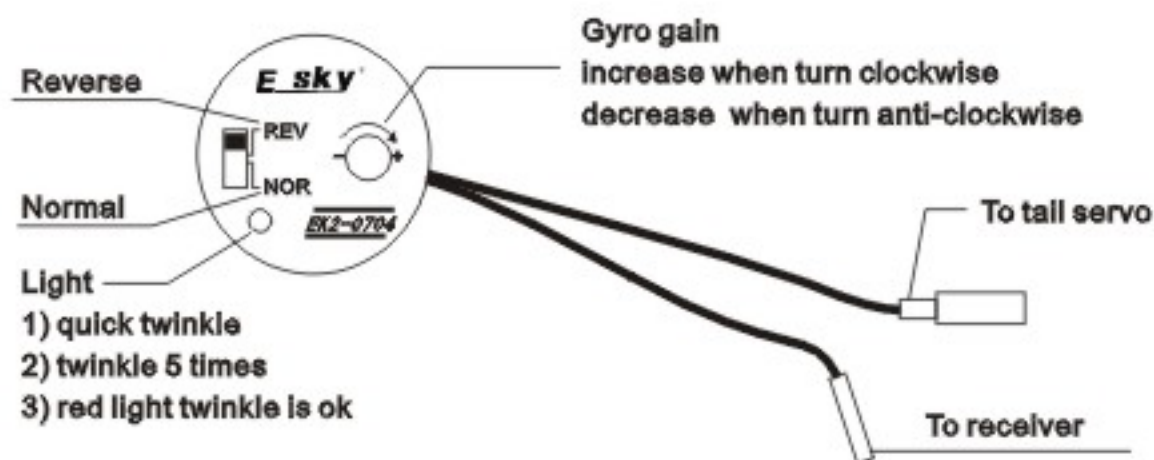


# Specification for EK2-0704

Gyro (EK2-0704) produced by Esky is a delicate and multi-functional product with light weight. It is suitable for medium and high-class helicopters.

**Specification**  
Specification:  
Size: 27.2\*27.5\*17.5mm  
Length: 150mm  
N.W: 50g  
Input voltage: DC 5V  
Static voltage: 10mA

## Sketch map:



### Operation method:

#### 1. Connection

1) Connect EK2-0704 input signal wire (150mm mother port) with the receiver CH4(RUDD).

2) Connect EK2-0704 output signal wire (150mm father port) with the tail servo.

Note: Orange stands for the signal port, red stands for the positive role (VCC), brown stands for the negative role (GND).

#### 2. Use through switching on power.

1) Set the CH4 (RUDD) joy stick of the transmitter and the trim in the middle and switch on the power of the transmitter.

2) Turn on the power of the receiver, LED twinkles. LED will keep bright after 10 to 15 seconds, then it is a normal working condition.

#### Note:

1) If the LED of EK2-0704 keep bright all the time, it means there may have the below problems:

(1) The power of the transmitter did not turn on or you turn on it after switching on the power of the receiver.

(2) The CH4(RUDD) joy stick and the trim were not set in the middle.

(3) The receiver cannot receive the signal.

2) EK2-0704 Should not swing in the process of enactment, otherwise it can not work normally.

## Adjustment of the control system:

EK2-0704 control system is mainly used for tail-drive helicopters. Since the rotate speed rate of the main rotor and tail rotor of the tail-drive helicopter is mechanically aptotic, the gyro gain trimmer can only be adjusted when operating it. The rotate speed of the main rotor and tail rotor is fixed while flying. If the tail cannot be controlled, and shiver left-right slightly all the time and can't be controlled by the transmitter, it is because the tail was tightened too much, you should decrease the gyro gain. (Chart VII and Chart VIII)

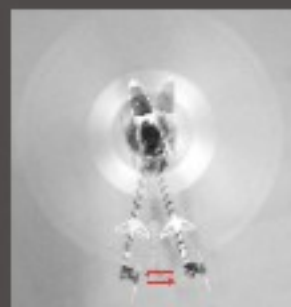


Chart IX



Chart X

If the tail swing left-right strongly all the time and cannot be controlled by the transmitter, you should increase the gyro gain, turn it to the suitable position. (Chart IX and Chart X)

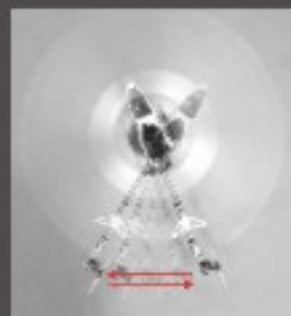


Chart IX



Chart X

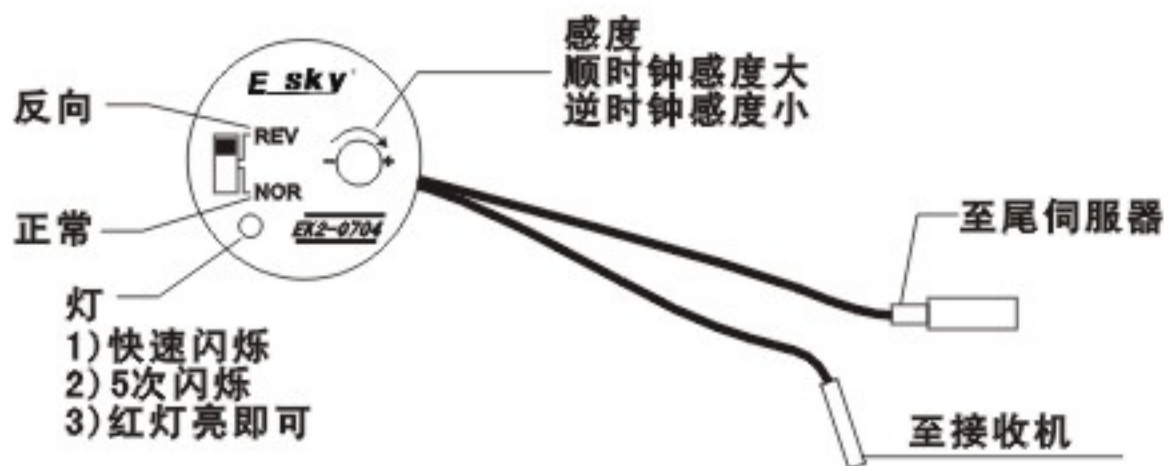
---The above information was provided by TWF Co., Ltd.

# EK2-0704产品说明书

TWF所提供陀螺仪EK2-0704是一款轻型,小巧,多功能产品,适用于中,高档直升机。

**规格** 外型尺寸: 27.5\*27.5\*17.5mm  
线长: 150mm  
净量: 50g  
输入电压: DC 5V  
静态电压: 10mA

## 示意图:



## 操作方法:

### 1、连线

- 1) 将EK2-0704信号输入线(150mm母端)接入接收机CH4 (RUDD) 通道;
- 2) 将EK2-0704信号输入线(150mm公端)与尾伺服器相连。

注: 橙色代表信号端, 红色代表电源正极(VCC), 棕色代表电源负极(GND)。

### 2、接插电源使用

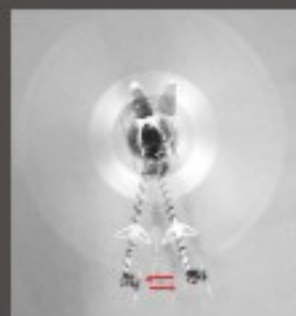
- 1) 将发射机CH4 (RUDD) 通道操纵杆及微调置于中间, 并打开发射机电源;
- 2) 接插接收机电源, 此时LED闪亮, 约10-15秒后LED恒亮, 此时为进入正常工作状态。

注: 1) 如果EK2-0704 LED一直闪亮, 则说明可能以下几点出了问题:

- (1) 发射机电源未打开或在接收电源先接通后才打开;
  - (2) CH4 (RUDD) 通道操纵杆及微调没有置于中间位;
  - (3) 接收机接收不到信号。
- 2) 在整个设定过程中EK2-0704不能摆动, 否则EK2-0704会工作不正常。

## 控制系统的调整:

EK2-0704控制系统主要应用于尾传动直升机。而尾传动直升机的主旋和尾旋的转速比是机械式固定的, 所以只有在操作时对陀螺仪进行感度的调整。在直升机飞行时, 主旋翼的转速与尾旋翼的转速是固定比例。如果发现尾部不受控制, 一直左右小幅度颤抖, 且不受发射机控制时, 那是因为尾部被锁的太紧, 须调小陀螺仪感度。(如图7, 图8)

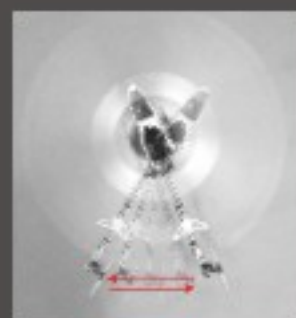


(图7)



(图8)

如果发现尾部一直在左右大幅度摇摆不定, 且不受发射机控制时, 这时要将陀螺仪上的感度调大, 调到适当位置即可。(如图9, 图10)



(图9)



(图10)

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