GOOSKY

E2 (GPS)
Quick Start Guide
快速使用指南

Disclaimer
免责说明

●This product is not a toy and is not suitable for individuals under 14 years old.

●Please keep it out of reach of children, and exercise extra caution when operating in areas where children are present.
This product is a scale model helicopter that offers an easy and smooth flying experience when the power supply is functioning properly and all components are undamaged.

●Please carefully read this document, the product manual, and the remote control manual before using the product to understand your legal rights, responsibilities, and safety instructions. Failure to do so may result in property damage, safety accidents, and personal injury. By using this product, you acknowledge that you have understood, agreed to, and accepted all terms and content in this document. The user agrees to take responsibility for their actions and all consequences arising from them.

●GOOSKY is not responsible for any losses resulting from the user's failure to follow this guide, the product manual, or the remote control manual.
In compliance with relevant laws and regulations, GOOSKY reserves the right to the final interpretation of this document.

● 本产品并非玩具，不适合未满 14 岁的人士使用。
请勿让儿童接触 E2，在有儿童出现的场景操作时请务必特别小心注意。

● 本产品是一款仿真直升机，在电源正常工作及各部件未损坏的情况下将提供轻松自如的飞行体验。

● 请务必在使用产品之前仔细阅读本文档和产品说明书、遥控器 说明书，了解您的合法权益、责任和安全说明；否则，可能带来财产损失、安全事故和人身安全隐患。一旦使用本产品，即视为您已理解、认可和接受本文档全部条款和内容。使用者承诺对自己的行为 及因此而产生的所有后果负责。

● GOOSKY 不承担因用户未按本指引、产品说明书、遥控器说明书使用产品引发的一切损失。

● 在遵从法律法规的情况下，GOOSKY 享有对本文档的最终解释权。

Attention
注意事项

●The E2 scale intelligent helicopter has certain dangers. Before operating, be sure to carefully read the user guide or manual to ensure safe use and avoid injuring yourself or others.

●E2 仿真智能直升机具有一定的危险性，操作前一定要详细阅读使用指南或说明书，确保使用安全，以免误伤自己或者他人

● Please fly in an open outdoor environment, away from crowds.

●请在空旷的室外环境飞行，并远离人群。
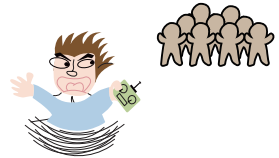
● Please check the battery levels of both the remote control and the helicopter before flying to ensure they are fully charged, and then proceed with the flight. Avoid fly

●飞行前注意检查遥控器和飞机电池电量，确保电池充满电，然后再飞行。

100%

● Check the battery levels of both the transmitter and helicopter to ensure they are fully charged before take-off.

●请远离高压架或者高压线等设备，避免电磁干扰。

● Keep clear of high-voltage pylons or power lines to avoid electromagnetic interference. Maintain a minimum distance of 100 meters from buildings for takeoff.
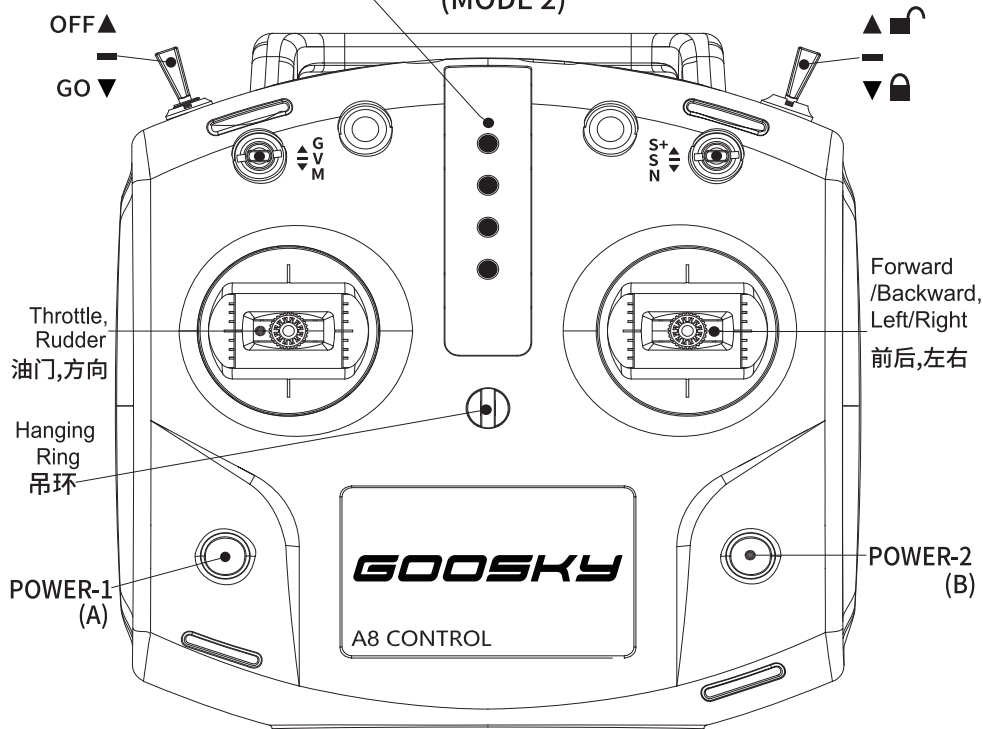
●建议起飞点远离建筑物 100 米以上。

Transmitter Functions Overview
遥控器功能介绍

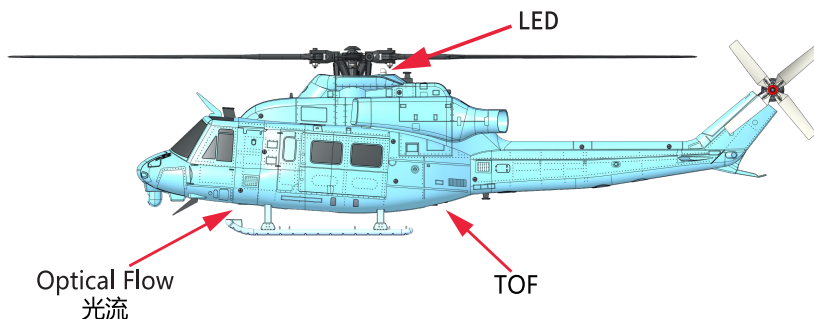Remote Controller Power Indicator(Green - Fully charged / Red - Low battery)
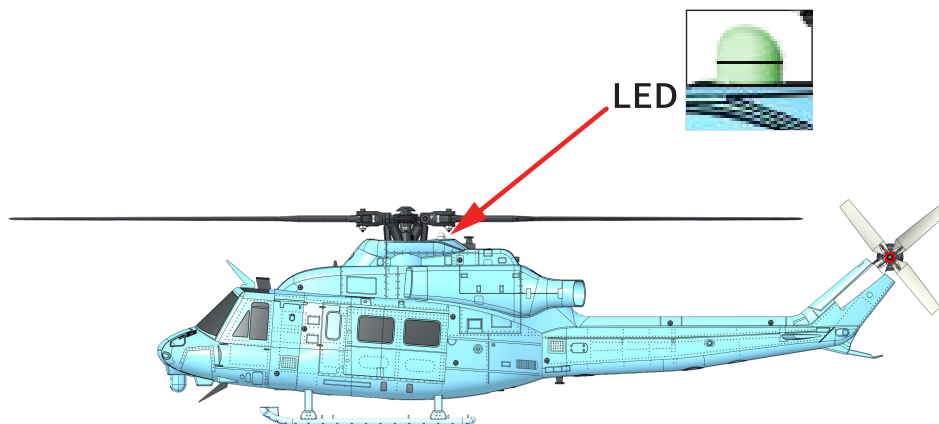遥控器电源指示灯(绿色-充满电、红色-低电量)

(MODE 2)

OFF▲

GO ▼

▲🔓

▼🔒

G
V
M

S+▲
S
N▼

Throttle,
Rudder
油门,方向

Forward
/Backward,
Left/Right
前后,左右

Hanging
Ring
吊环

GOOSKY

A8 CONTROL

POWER-1
(A)

POWER-2
(B)

**Note: This illustration depicts the A8 transmitter
in MODE-2 with a left-hand throttle.**

注：图示是 MODE2 左手油门遥控器

LED

Optical Flow
光流

TOF

LED Status Lights
飞控LED信号灯介绍

LED

Flight Controller Initialization Self-Test 飞控初始化自检	🔴🔵 🔴🔵 🔴🔵 🔴🔵
GPS GPS	🟢 (solid)
Optical Flow 光流	🟢 🟢 🟢 🟢 🟢 🟢
Manual Mode 手动模式	🔵 (solid)
Low Battery Warning - Level 1 一级低电提示	🔴 🔴 🔴 🔴 🔴 🔴
Low Battery Warning - Level 2 二级低电提示	🔴🔴🔴🔴🔴🔴🔴🔴
Signal Lost (Auto Return-to-Home Triggered) 没有信号（智能返航）	🔴 (solid)
Attitude Calibration 姿态标定	🔵 🔵 🔵 🔵 🔵 🔵

Flight Mode
飞行模式

GPS Mode:Enables position-hold hovering in open, unobstructed areas. Built-in geofence restricts flight to <100m altitude and <300m radius.

GPS 模式： 可在空矿无遮挡的环境实现定位悬停，内设电子围栏高度小于 100 米，半径小于 300 米。

LED:

Visual Positioning Mode:Activates when GPS is unavailable or obstructed, utilizing fused vision sensors and ToF LiDAR for precise positioning (Max. altitude: 3m).

视觉模式： 在无 GPS 信号和信号被环境遮挡的情况下，通过视觉传感器融合 TOF 激光雷达实现精准定位，飞行高度小于 3 米。

LED: ● ● ● ● ● ● ● ●

Note:
Positioning performance degrades in the following environments:
1、Solid-color surfaces (e.g., pure black, white, red, or green)。
2、Highly reflective or mirrored surfaces。
3、Water surfaces and transparent floors。

备注：
在以下环境定位效果不好
1、纯色地面（例如：纯黑、纯白、纯红、纯绿）。
2、有强烈反光或倒影的地面。
3、水面及透明地面。

Manual Mode: In this mode, both GPS positioning and visual positioning are disabled. The helicopter may experience positional drift due to environmental factors, requiring the pilot to actively control flight attitude.

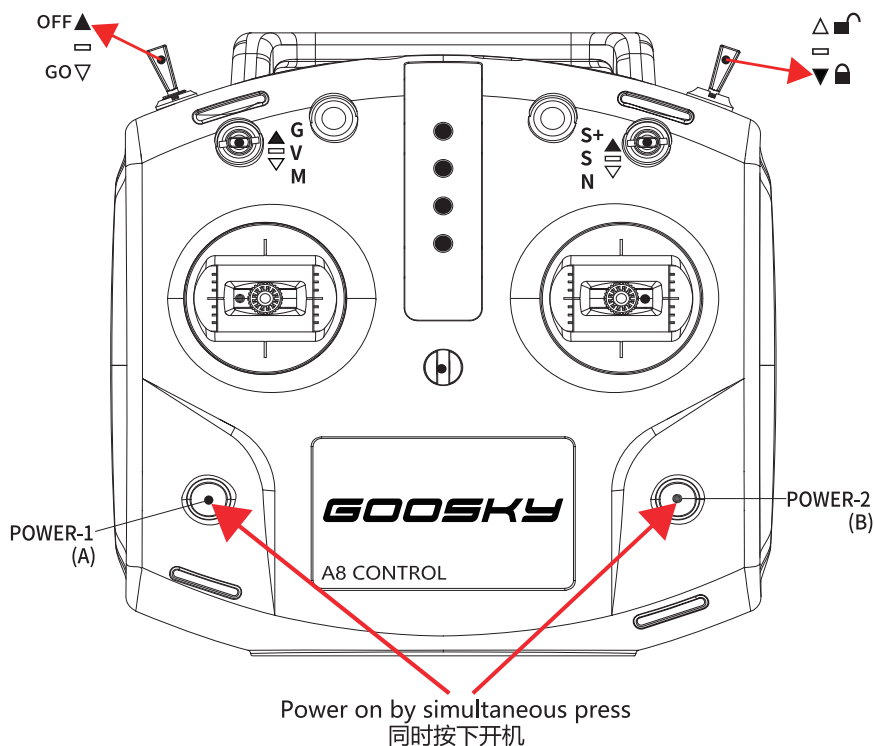**手动模式 :** 手动模式下 GPS 定位和视觉定位无效，直升机会受环境影响位置偏移，飞手需自行控制飞行姿态。

LED:

Quick Start Guide
操作步骤

1、Confirm full battery charge for both drone and remote controller.
2、Set all switches to default positions.
3、Power on by pressing A+B buttons simultaneously.

1、确定飞机及遥控器电池满电状态。
2、把所有开关拔到初始状态。
3、同时按下 A, B 键开机。

OFF▲
GO▽

△🔓
▽🔒

G
V
M

S+
S
N

GOOSKY

A8 CONTROL

POWER-1
(A)

POWER-2
(B)

Power on by simultaneous press
同时按下开机

4、接通直升机电池。
5、等待直升机搜星,绿灯常亮搜星完成。
备注: 搜星时间约 2 分钟属正常现象,取决当前环境。

4、Connect the helicopter battery.
5、Wait for satellite acquisition.
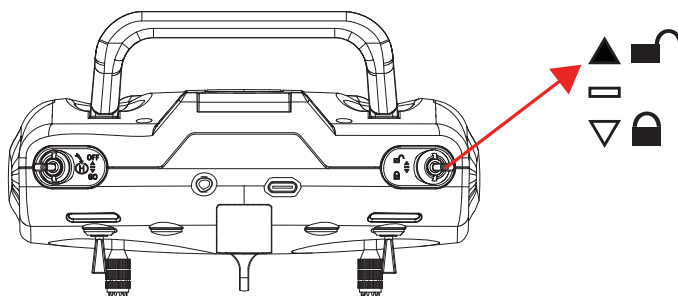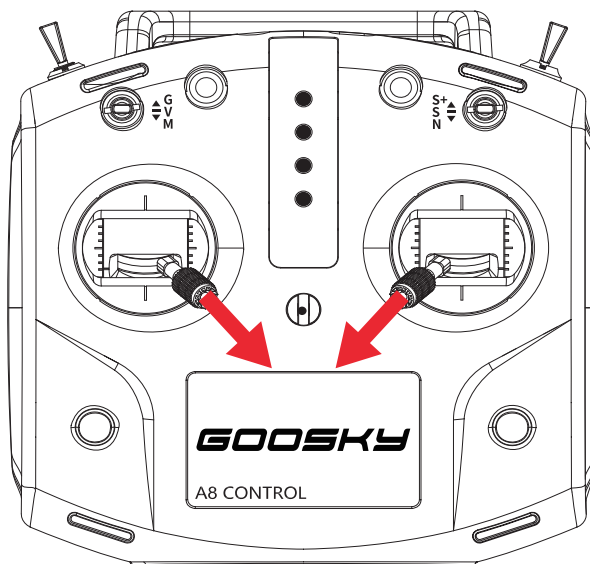Note: Typical duration~2 minutes (environment dependent).

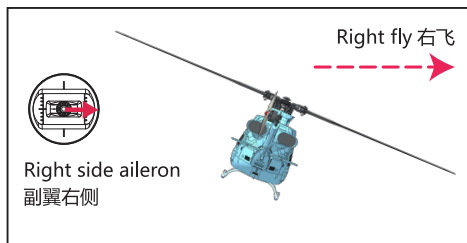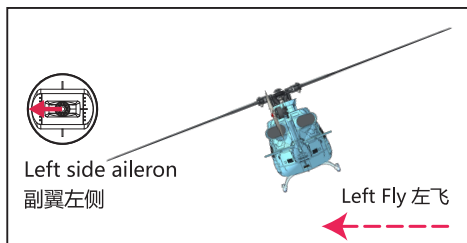6、Unlock the throttle lock by moving it to the unlocked position.

6、将油门锁，拔到开锁位置解锁。

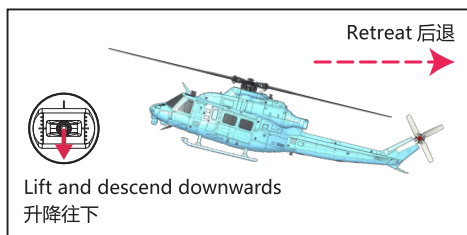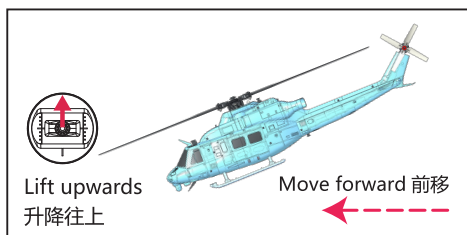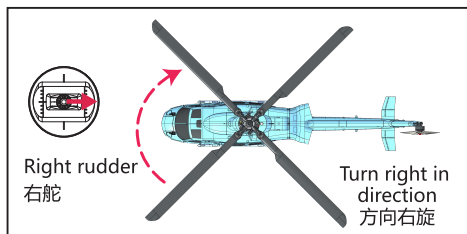7、Move the joystick to the inward "V" position (as shown below) and hold it. Once the tail motor starts rotating, release the joystick. The main motor will begin to start, and once the speed stabilizes, push the throttle joystick to take off.

7、将摇杆内八字（如下图）并保持，待尾电机转动后，松开摇杆主电机开始启动，转速稳定后，推动油门摇杆起飞。

Flight Demo
飞行演示

Throttle Up
油门向上

Take off
起飞

Throttle down
油门向下

land
降落

left-hand drive
左舵

Direction left
方向左旋

Right rudder
右舵

Turn right in direction
方向右旋

Lift upwards
升降往上

Move forward 前移

Retreat 后退

Lift and descend downwards
升降往下

Left side aileron
副翼左侧

Left Fly 左飞

Right fly 右飞

Right side aileron
副翼右侧
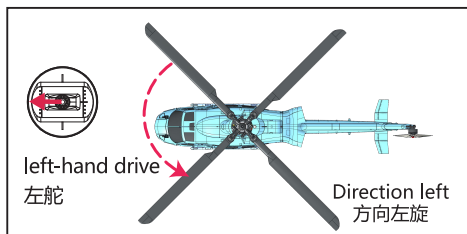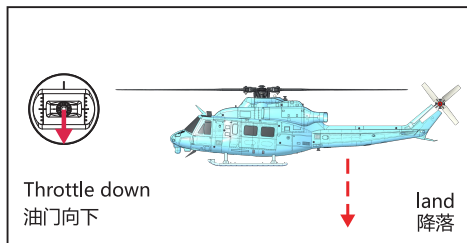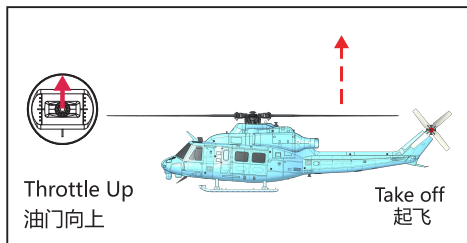
Compass Calibration
磁罗盘校正

Smart Switch
智能开关

G ▲
V ▬
M ▼

POWER-1
(A)

GOOSKY
A8 CONTROL

POWER-2
(B)

Power on simultaneously
同时按下开机

图1

1、Turn on the remote control, connect the helicopter's battery, and place it on the ground to wait for the flight control system to initialize.

2、(As shown in Figure 1) Quickly toggle the smart switch up and down 3 times. The LED will flash red and blue rapidly. The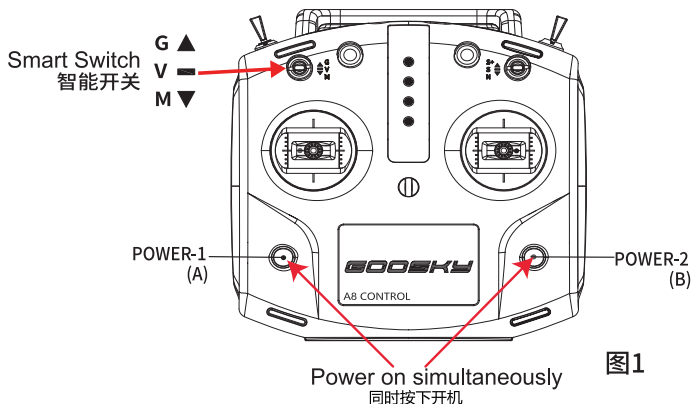 helicopter should rotate clockwise in a horizontal position (as shown in Figure 2) until the LED flashes red and green slowly. Then, point the nose upward (as shown in Figure 3) vertically to the ground. Wait for the LED to flash red and green rapidly, then rotate clockwise until the LED green light flashes slowly, completing the calibration. Afterward, reconnect the battery.

1、打开遥控器电源，接通直升机电池，放置地面等待飞控初始化完成。

2、(如图 1)快速拨动智能开关上下 3 次，LED 红蓝快闪，直升机水平(如图 2)顺时针旋转直到 LED 红绿慢闪，再将机头朝上(如图 3)垂直于地面，待 LED 红绿快闪后，顺时针旋转直到 LED 绿灯慢闪校正通过，重新插拔电池。

LED
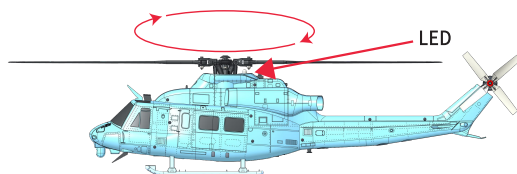
Figure 2 Horizontal Rotation
图2 水平旋转
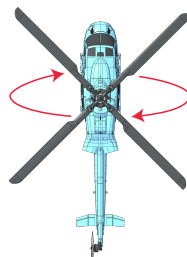
Figure 3 Vertical Rotation
图3 垂直旋转

Notes:

1、If you change the flying location or experience abnormal direction or attitude, the compass needs to be recalibrated.

2、During calibration, it is best to keep the helicopter about 1 meter above the ground, away from strong magnetic fields, such as rebar, buildings, or areas with high magnetic interference.

备注：1、更换飞行场地或出现方向及姿态异常，需重新校正磁罗盘。
　　　2、校正时直升机离地面约 1 米的距离最佳，远离强磁场，如钢筋，建筑等磁场较大的区域。

Auto Home
智能返航

Smart Return Home
In GPS mode, when the distance from the HOME point is greater than 10 meters, toggle the return switch to the "GO" position. The helicopter will ascend to 15 meters, fly in a straight line to above the HOME point, and then descend vertically to the ground.
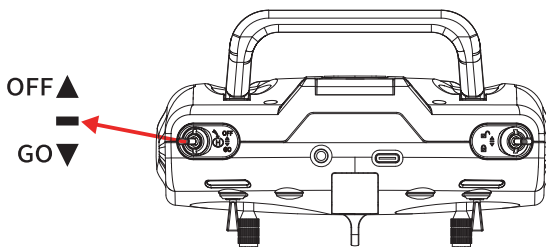
智能返航： 在 GPS 模式下距离 HOME 点大于 10 米，拨动返航开关到 GO 位置，直升机升高到 15 米，直线飞行到 HOME 点上方后垂直降落地面。

OFF▲

GO▼

Fail-Safe Return Home
When the remote control loses connection with the helicopter, the smart return home feature will be triggered.

失控返航： 当遥控器与直升机失去连接时，触发智能返航。

Note: In GPS mode, the system automatically records the takeoff position as the HOME point upon arming. Return-to-Home (RTH) will only activate when the helicopter is >10 meters away from the HOME point.

备注： 在 GPS 模式下解锁每次起飞的位置为当前 HOME 点，返航条件必须是直升机距离 HOME 点 >10 米

Low battery protection
1、When the first-level voltage protection is triggered, if the helicopter is more than 10 meters away from the HOME point in GPS mode, return home will be initiated.
2、When the second-level voltage protection is triggered, the helicopter will land at its current position.
Note:
1、Once the first-level voltage protection return home is activated, the return home cannot be canceled.
2、In Visual and Manual modes, the return home feature will not be activated.

低电量保护
1、触发一级电压保护，在 GPS 模式下距离 HOME 点大于 10 米，启动返航。
2、触发二级电压保护，直升机当前位置原地降落
备注：
1、进入一级电压保护返航状态，无法取消返航。
2、在下视觉和手动模式下飞行，不会进入返航。

Flight Control Layout
飞控接口介绍

Tail Esc | Main Esc | VDET | 5V | GND

TOF模块
TOF Module

GND | 5V | Data

CH1
CH2
CH3

Data
GND
3.3V
DSMX

GND
5V
Data
S-BUS

ELRS

GND
5V
RX
TX

Red | VCC | Green | Blue

GPS Module
GPS模块

Optical flow module
光流模块
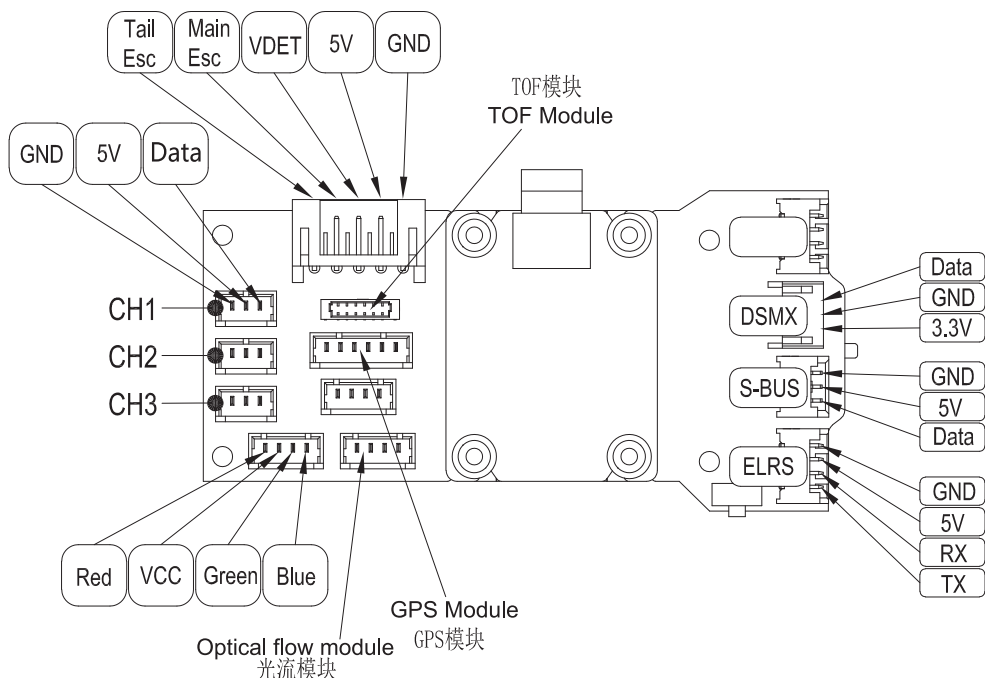
1. Servos: CH1-CH2-CH3.
2. DSMX: Supports DSM2, DSM and DSMX, the port is compatible with HX 1.5mm Pitch 3-Pin connector.
3. S-BUS: Supports S-BUS and PPM, the port is compatible with JST 1.25mm Pitch 3-Pin connector.
4. ELRS port is compatible with JST 1.25mm Pitch 4-Pin connector.

1、CH1-CH2-CH3：舵机接口。
2、DSMX：支持 DSM2、DSM、DSMX，接口使用 HX1.5mm　间距 3P 插头。
3、S-BUS：支持 S-BUS、PPM，接口使用 JST 1.25mm 间距 3P 插头。
4、支持 ELRS，接口使用 JST 1.25mm 间距 4P 插头。

Flight Control Binding
飞控对频介绍

DSMX

S-BUS

ELRS

5V
receiver
接收机
LED
+
-
S

← Code button 对码按钮
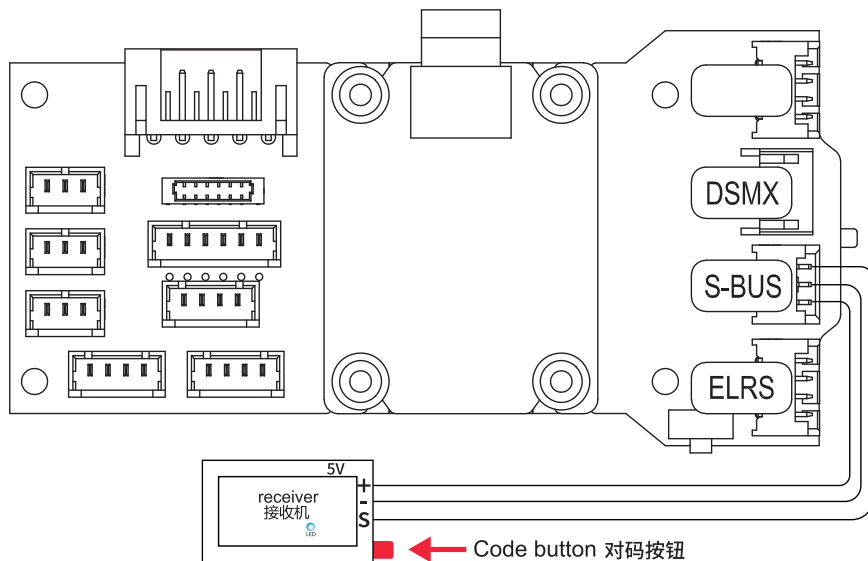
1、Insert the receiver into the flight controller's SBUS port (using SBUS as an example).
2、Turn on the GOOSKY A8 CONTROL and place it within 1 meter of the receiver.
3、Power on the helicopter.
4、Press and hold the receiver binding button. The receiver's LED will change from slow blue flashing to fast blue flashing, entering the binding state. Wait for the receiver's blue light to stay on, indicating successful binding.

Note: The factory setup has already been bound.

1、将接收机插入飞控 sbus 端口(以 sbus 为例)。
2、打开 GOOSKY A8 CONTROL 靠近接收机小于 1 米距离。
3、给飞机上电。
4、长按接收机对码按钮、接收机 LED, 由蓝灯慢闪变成蓝灯快闪,进入对码状态 , 等待接收机蓝灯常亮对频成功。

备注: 出厂套机,已对好频。

Fault Indicator Light 故障指示灯														
●●		●●		●●		●●		●●		●●		●●		GYRO 陀螺仪
●●●		●●●		●●●		●●●		●●●						BARO 气压计
●●●●		●●●●		●●●●		●●●●								MAG 磁罗盘
●●●●●		●●●●●		●●●●●										TOF
●●●●●●		●●●●●●		●●●●●●										OFLOW 光流

E2 Setup for Other Transmitters
其他品牌遥控器与E2GPS连接，设置流程

Note: For safety, it is recommended to remove the helicopter's main blade and tail blade.

1、Insert the receiver into the flight controller's receiver port and bind it with the remote control.
2、Create a new model on the remote control.
3、Select "Helicopter."
4、Choose the swashplate type H-1.
5、Please set the throttle curve and pitch curve to their default settings.

注意：为了安全，建议拆掉直升机主桨、尾桨

1、接收机插入飞控接收机接口，并与遥控器对频。
2、遥控器新建模型。
3、选择直升机。
4、选择斜盘类型 H-1。
5、请将油门曲线、螺距曲线设定为默认状态。

CH	Channel Settings 通道设定	Remote Controller Channel Values Display 遥控器通道值显示		
	(14SG futaba) (TX16S RADIOMASTER) (DX9 SPEKTRUM) Remote Controller Settings (14SG futaba) (TX16S RADIOMASTER) (DX9 SPEKTRUM) 遥控器设定			
1	Aileron 副翼	Left 左 -100	Right 右 100	
2	Elevator 升降	Top 前 -100	Back 后 100	
3	Throttle 油门	Up 上 -100	Down 下 100	
4	Rudder 方向	Left 左 -100	Right 右 100	
5	Smart Flight Mode 3-Position Switch 智能飞行设定三档开关	GPS 100	Optical Flow 光流 0	Attitude 姿态 -100
6	Pitch 螺距	Up 上 -100	Down 下 100	
7	Smart Return-to-Home 智能返航	Return to Flight 返航开 100	RTH Off 返航关 -100	
8	Throttle Lock 油门锁定	Lock open 锁定开 100	Lock Off 锁定关 -100	

Official Website
官网相关资料介绍

1、Official website: **www.GOO-SKY.com.**
2、On the official website **-** Services and Support, you can find product manuals, various remote control setup guides, flight controller user guides, and more.

1、官网网址: **www.GOO-SKY.com。**
2、官网 - 服务与支持,有产品说明书与各种遥控器设置说明指南、飞控使用指南等。

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广东省珠海市高新区唐家湾镇香山路2688号A2栋3楼