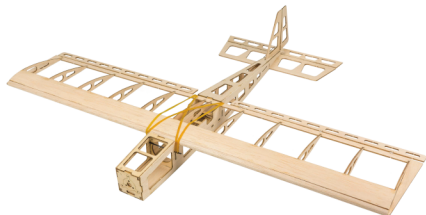


飞行前的建议 PRE-FLIGHT CHECKS

- 安装舵机前，请先将舵机通电让舵机中心点回中，以便能更好的调试位置。
Check/adjust servo centering, in order to adjust the control surface better.
- 初次启动电机，您需要确认电机运转的方向与道馆的机型。
Double-check the spinning direction of motor at first usage, and sure it's suitable for your model.
- 请将重心 (CG) 调整至说明书所述位置并尽量靠近，如果有需要，您可以增加机头或者机尾的重量，以确保机体有更好的飞行姿态。
Set the center of gravity (CG) at the position that manual already marked out. If necessary, add weight to the nose or tail to ensure the best flight performance.
- 检查机身内部，确保所有设备正常连接；检查机身表面，包括但不限于蒙皮、固定螺丝、舵面、座舱罩等位置。
Double-check the inside of the fuselage, make sure all the equipments are correctly connected; Check the heat-shrink covering material's surface. Make certain all screws, bolts, cabin and canopy remain secure.
- 在飞行前，请检查电池电压，若有低电压、电池损坏等情况，请您停止操作并马上更换电池。
Take great care when connecting/disconnecting the battery, pls replace the battery immediately once found low voltage or damage to battery.
- 机身内部设备连接的方式，会和您的收发设备有关，在一些功能更多的收发设备上，您可以通过设置简化机身内部设备的连接。详细请查看您的收发设备以确认是否满足您需要的功能。
The way the internal devices of the fuselage are connected will be related to your transmitter-receiver device. For those transmitter-receiver devices with more functions, you can simplify the connection of the internal devices of the fuselage. Check your device for details to see if it meets the features you need.
- 动力设备和收发设备第一次配对时，可能需要设置油门最大行程，请您自行设置。
When the power system and transmitter-receiver device are paired for the first time, you may need to set the maximum stroke of the throttle. Please set it yourself.

注意事项 SAFETY PRECAUTIONS

- 该产品不是玩具，而是一个复杂的具有难度的飞行器，您和您身边人的安全取决于您如何操作它，您需要了解相关知识，并谨慎操作。禁止没有成年人陪伴的儿童独自操作该设备。不适合14岁以下人群使用，再次强调，这不是一个玩具。
This product should not be considered a toy, but rather a complicated and sophisticated flying model. Your safety depends on how you use and fly it, if not correctly operated, could cause injury to you or your family members. Children must be accompanied by an adult at all times if operating this product. Not suitable for children under the age of 14. THIS IS NOT A TOY.
- 不要在机场、军事基地、居民区或其他任何受限制的地方飞行。
Do not fly around some restricted location like airports, military bases, residential areas, etc.
- 您需定期对发射机进行地面检查，以确保您收到控制信号。
You will need to range check the transmitter to be sure you are not experiencing any interference.
- 始终在关机状态下打开接收机。先关闭接收机后关闭发射机的步骤。
Always turn on the receiver last after turning on the transmitter and shut off the receiver first before turning off the transmitter.
- 如果您是初学者，建议您在有经验玩家的指导下练习飞行。
If you are only a beginner to the radio control model flying, do not attempt to fly your model without any assistance or advice from advanced expert fliers.
- 请保持相关物品远离在孩子们够不到的地方。
Keep relevant items out of reach of children.
- 这个设备的设计已经经过我们正常使用所需的安全性要求，但若您需以超出我们推荐的动力飞行时，请合理的控制飞行速度并适当增加结构强度。
This product has been flight tested to meet or exceed our rigid performance and reliability standards in normal use. If you plan to perform any high-stress flying, you are solely responsible for taking any and all necessary steps to control movement range and reinforce the body strength.
- 您的设备中可能包含一些碳纤维和玻璃纤维的零件，这些材料对人体的皮肤可能会引起刺激，皮肤的不适，请在需要的时候戴上防护手套或手套。
This product may include some fiberglass and carbon-fiber reinforced plastic parts, which may cause eye and skin discomforts like wear the goggles or dust-proof clothes when needed.
- 航空运输安全规定，您收到的产品可能没有清单中出现的胶水，请您理解无法返胶水给您的原因，您可以在当地文具店或商店购买到所需类型的胶水。
Due to air traffic safety control, the products you receive may not have the glue that appears in the list. Please understand and purchase the glue you need at your local stationery store.



飞行参数 Specification

翼展: 580mm
机长: 460mm
起飞重量: 110g
Wingspan: 580mm
Length: 460mm
Flying Weight: 110g

推荐配置 Suggested Equipment

推荐马达: MM1404 2900KV
推荐电池: 2S 10A
推荐舵机: 2.5g 3pcs
推荐电机: 5030
推荐电池: 2S 250-400mAh
推荐4通道以上接收机
Suggested Motor: MM1404 2900KV
Suggested ESC: 2S 10A
Suggested Servos: 2.5g 3pcs
Suggested Propeller: 5030
Suggested Battery: 2s 250-400mAh
Radio: > 4CH

工具 Tools Needed





配件图仅供参考用，您收到的实物可能因为修改/优化的原因导致与图片略有不同。
Photos shown here just for reference, the product you received maybe slightly differ from the photos due to continuous improvement on products.

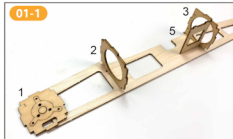
组装说明 How to Assemble



注意：木件用美工刀从板材上取下，各连接点用快干胶定型。用白乳胶固定。
Note: Take down the parts from the board by knife. pls use the fast dry adhesive as stabilization to connect all joints and white latex as reinforcement.

拼装之前 请打磨雕刻连接处的地方。
Pls polish the joints before assembly.

机身拼装 Assemble the Fuselage



裁前2根 3*4mm的轻木条约70mm长度如图粘贴在机身内侧。
Cut 2 pieces of 3*4mm balsa strips with 70mm length and paste inside the fuselage as shown.

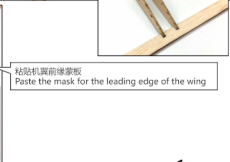
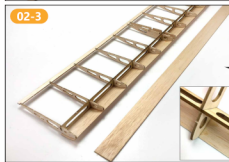


裁前2根185mm长度的轻木条如图粘贴在机身底部内侧。
Cut 2 pieces of balsa strips with 185mm length and paste inside the bottom of the fuselage as shown.



将机身简单打磨，安装平尾，垂尾。并确保机身和尾翼垂直。
Simply polish the fuselage, install the horizontal and vertical tail, and make sure the fuselage and tail are vertical.

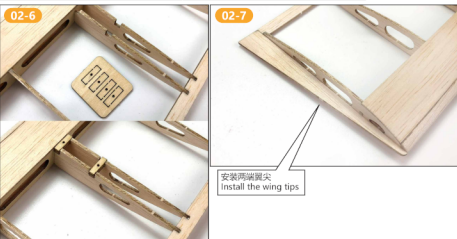
机翼拼装 Assemble the Wing



粘贴机翼前缘蒙板
Paste the mask for the leading edge of the wing

先打磨机翼前缘，再将5*9*556mm的轻木条粘接到机翼前缘上，打磨机翼边缘使蒙皮和主梁紧密贴合，并打磨机翼前缘成弧形。
First sand the leading edge of the wing, then glue the 5*9*556mm balsa strip to the leading edge of the wing, sand the edge of the wing to make the mask and the main beam fit perfectly, finally sand the leading edge of the wing with radian.

使用附带的确认件，确认打磨的机翼前缘弧度，以能贴合为准。
Use the supplied confirmation to confirm the curvature of the leading edge of the sanded wing, which is subject to fit.



安装两端翼尖
Install the wing tips

舵面的安装 Install the Control Surface

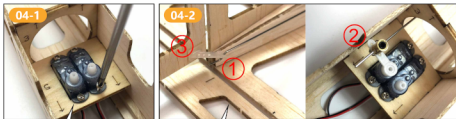
03-1 注意：先完成蒙皮，再安装舵面。
Remarks: Pls install the control surface after you finish the film covering.



因属于小型固定翼，请将搭配的合页剪成2*8mm左右大小，埋入对应位置。
Because it is a small fixed-wing airplane, pls cut the hinges into 2*8mm size and embed into the corresponding position.

副翼舵面，建议最多埋入3个合页，平尾垂直舵面，建议最多埋入2个合页。
It is recommended to embed at most 3 hinges for aileron control surface, and it is recommended to embed at most 2 hinges for horizontal and vertical control surface.
左右各埋入3mm左右，中间较细部分留2mm左右，打胶固定并保证合页的灵活性。
Each side is embedded about 3mm, and the middle hinge part is left about 2mm. It is glued and fixed to ensure the flexibility of the hinge.

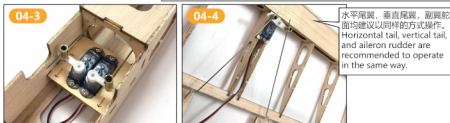
舵机的安装 Install the Servo



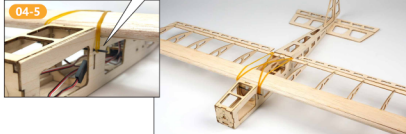
先安装舵机，并在安装舵角之前，将舵机通电回中立点。
Install the servo first and energize the servo back to the neutral point before installing the servo horn.

在舵面上安装舵角，将Z型钢丝连接到舵角上。
Attach the servo horn to the rudder surface and connect the Z-head of the linkage rod to the servo horn.
连杆另一端通过快装接头锁定到舵机舵臂上。
The other end of the linkage rod is locked to the servo arm through the EZ-connector.

注意：您可能需要将舵机的摇臂扩孔到Ø2mm才方便安装舵机快装接头。
NOTE: You may need to enlarge the hole of the servo arm to Ø2mm to facilitate the installation of the EZ-connector.



最后，固定碳杆，绑上皮筋即可。
Finally, fix the carbon rod and fasten with rubber band.



重心位置展示 Display for C.G



注意：设置重心时，可用电池配重，调整电池位置以达到合适的重心，然后用魔术胶带把电池固定在机身内。

Note: When you adjust the C.G., you can use the battery as balance weight, adjust the battery position to find the suitable C.G., then fasten the battery inside the cabin with magic tape.

此飞机仅适合有缓冲的地面降落 如：公园草坪
This aircraft is only suitable for landing off on the cushioned ground such as: park lawn

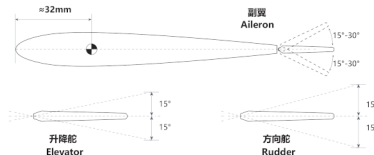
电子设备安装调试

Power System Installation and Adjustment



通常情况下，舵面角度的设置如下：

Usually, the control throws set as below:



常规飞行(Normal Flying)

副翼 Aileron $\pm (15^\circ - 30^\circ)$

平尾 Elevator $\pm 15^\circ$

垂尾 Rudder $\pm 15^\circ$

常用抛翼 Flap (起飞 take-off) $15^\circ - 20^\circ$ (降落 Landing) $20^\circ - 40^\circ$

3D飞行 部分飞机支持(3D Flying only support some models)

副翼 Aileron $\pm 40^\circ$ 或者更大(or larger)

平尾 Elevator $\pm 40^\circ$ 或者更大(or larger)

垂尾 Rudder $\pm 40^\circ$ 或者更大(or larger)

常用抛翼 Flap (起飞 take-off) $15^\circ - 20^\circ$ (降落 Landing) $20^\circ - 40^\circ$

部分特殊机型会有V型尾翼，机翼，前缘机翼或舵面很小，可以以常规飞行的角度作为参考，在您不确认且没有经验人员指导的情况下，我们建议您先以小角度试飞以确认您的设置是否正确。
Some special models will have V-tails, flaps, leading edge wings, etc., which can be used as a reference for conventional flight angles. If you do not confirm and there is no experienced person to guide you, we recommend that you first test at a small angle to confirm that your settings are correct.



地面控制方向测试

Control Directions Tests

	遥控器动作 Transmitter Command	飞机反应 Aircraft Reaction
升降舵 Elevator	升降杆下拉 Lifting rod down	
	升降杆上推 Lifting rod up	
副翼 Aileron	转向杆向右 Steering rod to the right	
	转向杆向左 Steering rod to the left	
方向舵 Rudder	方向杆向右 Direction rod to the right	
	方向杆向左 Direction rod to the left	