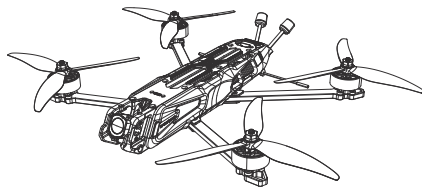


Quick Start Guide

V1.0



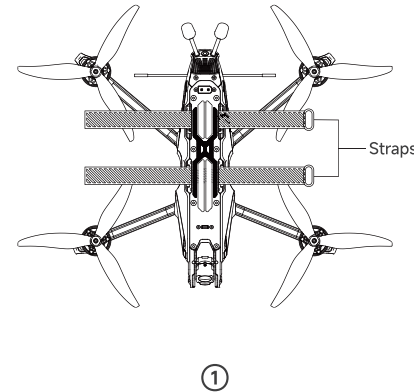
For X701, X501

www.droneer.com

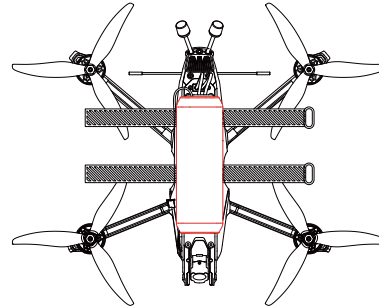
Pre-Takeoff Precautions

1. Ensure the drone is undamaged, batteries have no swelling/leakage, equipment is properly connected, and VTX is stable.
2. Confirm propellers rotate in the correct direction and screws are securely fastened.
3. Ensure the battery is tightly secured with straps.
4. Ensure the battery is fully charged.
5. Turn on the remote control, select the correct mode, and confirm the unlock switch is locked with the throttle at the lowest position.
6. Check for frequency conflicts between FPV goggles and the screen.
7. After powering on the drone, maintain a 1-meter safety distance for test unlocking.
8. Take off only in areas permitted by local laws/regulations.
9. Fly in locations with good GNSS signal reception.

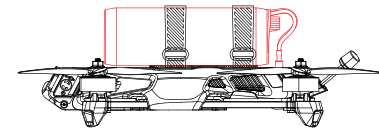
Battery Installation



①



②



③

GPS Rescue

1. Basic GPS Rescue Mode Setup

The GPS rescue mode automatically guides the drone back when the remote control signal is lost (triggering Failsafe) or manually activated by the pilot. If not specifically configured with an AUX switch for control, the system triggers automatically during signal loss. Users with digital video transmission systems like DJI can visually monitor the rescue status, while analog video transmission users must obtain info thru OSD overlays.

2. Core Parameter Configuration Instructions

The recommended initial height is set to 20-50m, which serves as the starting climb height for the drone's return; the recommended return speed is 5-10m/s; and satellites' no. is recommended to be ≥ 8 . There are 2 altitude modes: MAX (maximum altitude) and FIXED (fixed value), which can be selected as needed. The throttle hover value is generally auto-calibrated, and the system will auto-calculate it.

3. Advanced Settings Options

In expert mode, there are more advanced settings. The default motor shutdown delay is 0.1 seconds, which controls the time for motors to stop after fail-safe activation. The landing throttle value applies to the normal "landing" mode and is unrelated to GPS rescue. The recommended climb and descent rates

are ≤ 3 m/s and ≤ 2 m/s, respectively, to ensure smooth operation. These advanced parameters need fine-tuning according to the flight environment and aircraft model.

4. Test and Verification Key Points

Before using this function, fully testing is required. For the first test, choose an open area and manually trigger the rescue mode rather than waiting for failsafe activation to better observe the FPV's response. The FPV should fly straight for at least 100m to verify GPS positioning accuracy, particularly confirming whether the "home arrow" indicates the correct direction. Environmental factors affect GPS performance—adverse weather conditions reduce available satellites' no., while obstacles like tall buildings & mountains degrade positioning accuracy, potentially causing the rescue function to fail.

5. Important Safety Notes

The GPS rescue mode is fundamentally different from fully automatic return to home (RTH) and serves as an emergency backup, not a complete reliance. Before use, adjust parameters according to the specific aircraft model (wheelbase, power configuration, etc.).

6. GPS Rescue Mode Parameter Settings:

Land

1000

Throttle value used while landing

10

Delay for turning off the Motors during Failsafe [1~0.1sec.]

GPS Rescue

32

Angle

50

Initial altitude(meters)

200

Descent distance(meters)

20.00

Ground speed(meters/second)

1100

Throttle minimu

1600

Throttle maximum

1280

Throttle hover

5.00

Ascend rate(meters/second)

1.50

Descend rate(meters/second)

10

Minimum satellites

Warning: GPS rescue will not work.

Allow arming without fix-

Maximum altitude

Altitude mode

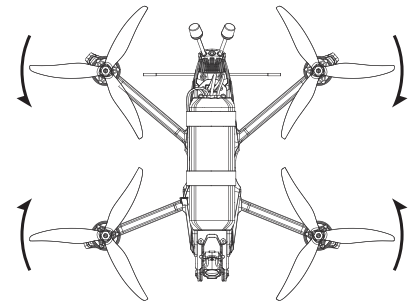
On

Sanity checks

Warning: The drone can only return when there are ≥ 10

Propeller Installation Tips

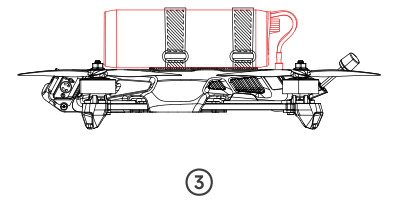
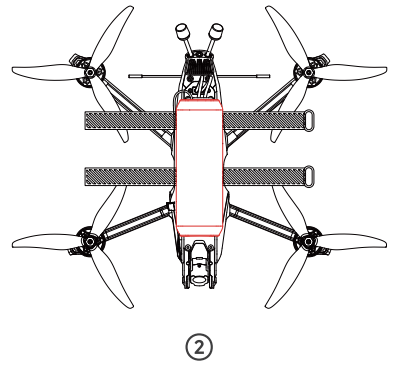
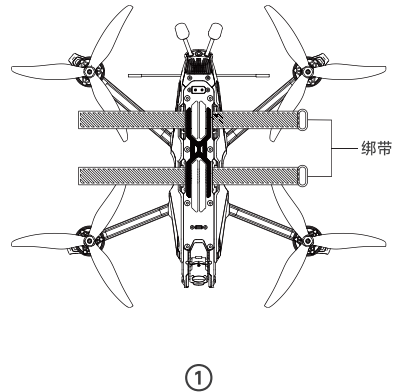
Propellers with marks and those without marks indicate different rotation directions respectively. It is necessary to strictly follow the instructions to install different propellers in their corresponding positions.



起飞前注意事项

- 起飞前注意事
1. 确保机体无损坏、电池无鼓包、电量充足、图传正常、图传稳定。
2. 确认螺旋桨转向正确，螺丝已锁紧。
3. 确保绑带将电池绑紧。
4. 确保电池电量充足。
5. 打开遥控器，选择正确的模式并确认解锁开关处于上锁状态，油门位置在最低。
6. 检查FPV 眼镜和屏幕是否有频率冲突。
7. 飞机上电后，保持1米的安全距离进行测试解锁。
8. 请在当地法律法规允许的环境下飞行。
9. 请在GNSS信号良好地方飞行。
2. 确认螺旋桨转向正确，
3. 确保机体无损坏、电池常、图传稳定。
4. 确认螺旋桨转向正确，
5. 确保绑带将电池绑紧，
6. 确认解锁开关处于上锁状态，油门位置在最低。
7. 确保电池电量充足。
8. 请在当地法律法规允许
9. 请在GNSS信号良好地

电池安装



GPS救援

1. GPS救援模式基础设置

GPS 救援模式用于遥控信号丢失（触发失控保护）或飞手手动激活时，自动引导无人机返回。若未专门配置AUX 开关控制，失控时系统自动触发。使用 DJI 等数字图传 系统可直观显示救援状态，模拟图传用户需通过OSD 叠加信息获取。

2. 核心参数配置说明

初始高度建议设为20-50m，是无人机返航起始爬升高度；返航速度建议5-10m/s；卫星数建议≥8颗。高度模式有MAX（最大高度）和FIXED（固定值）两种，按需选择。油门悬停值一般自动校准，系统会自动计算。

3. 高级设置选项

专家模式下有更多高级设置。电机停转延迟默认0.1秒，控制失控保护触发后电机停转时间。降落油门值用于普通“降落”模式，与GPS救援无关。爬升、下降速率建议分别≤3m/s和≤2m/s，确保平稳。这些高级参数需依飞行环境和机型微调。

4. 测试验证要点

使用此功能前，须进行充分测试。首次测试选开阔场地，建议手动触发救援模式而非等待失控保护触发，以便更好地观察FPV 反应。需让FPV 直线飞行至少100m，以验证GPS定位精度，特别要确认"家箭头"指示方向是否正确。环境因素会影响GPS性能，恶劣天气条件会减少可用卫星数量，而高楼、山脉等遮挡物会降低定位精度，可能导致救援功能失效。

5. 重要安全须知

GPS救援模式与全自动返航（RTH）本质不同，是应急备用方案，不可完全依赖。使用前，要依具体机型（轴距、动力配置等）调整参数。

6. GPS救援模式参数设置：

● GPS救援

32

角度

50

初始高度(米)

50

下降距离(米)

20.00

地面速度(米/秒)

1100

最低油门

1600

最高油门

1280

悬停油门

5.00

上升速率(米/秒)

1.50

下降速率(米/秒)

10

最小卫星数

允许在未锁定的情况下解锁

警告: 这样将无法使用GPS救援

最大高度

高度模式

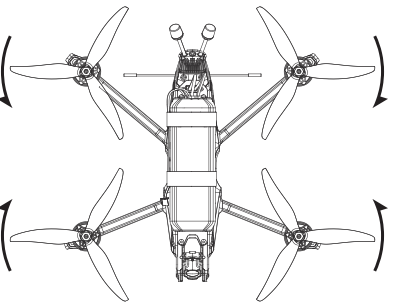
开启

可用性检测

警告：GPS≥10颗卫星才可以返回。

螺旋桨安装提示

带标记和不带标记的螺旋桨分别指示了不同的旋转方向，需严格按照指示，安装不同的螺旋桨至相应的位置。



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