

GDU 2

Routine Maintenance Manual

日常维护保养手册

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The routine maintenance of the aircraft will directly affect its flight safety and service life. To eliminate hidden safety dangers and ensure safe flight, users are instructed to maintain it according to the terms in this manual.

Inspection and Maintenance

Fuselage

- Check the appearance. Pay special attention to the cracks and screws.
- Confirm the power switch and battery indicator lights are working properly.
- Confirm the arm and the landing gear are free of damage and properly installed and functioning, users should make sure arms unfold in proper positions and are in alignment.
- Confirm the battery hatch is fastened, in order to prevent it from becoming dislodged in flight.
- Confirm the ventilation hole, and the Micro-USB ports are uncovered and unblocked.

Battery

- Check the appearance of the battery. If there is bulge, leakage, or surface crack, please replace the battery with a new one, and dispose the damaged battery properly according to the Battery Safety Guidelines.
- Confirm the battery clips are intact, make sure the battery will not move or drop out when it is installed.
- Make sure the remaining capacity is enough to finish the flight,

and always recharge batteries COMPLETELY before flying again.

- Make sure there is no bend, crack, or block on the battery connector pins.
- Make sure the surface of the battery connector pins is clean. If the pins are oxidized, please replace the battery with a new one.

Motor

- Check the appearance of the motor. If there is any damage or deformation, please replace it.
- Rotate the motor rotor to feel the resistance. If you have obvious resistance and can not turn the motor, please replace it.
- Starting the motor without installing propellers, if there is unexpected noise, please replace the motor with a new one.
- Make sure the screw installation is firm, and tighten any loose ones. If there is any crack in plastic parts, please contact GDU to ask for after-sale services.

Propeller

- Check the appearance of the propeller. If there is any deformation, breakage, crack, or white creases, please replace the propellers with new ones.
- Confirm the propellers are correctly installed, and make sure the installation identifications of each propeller are match with those on the arms and motors of the aircraft.
- Check the symmetry of the propellers. Starting the motor and

observing the trajectory of the propellers, if there is multi-rotation track together with violent vibration. Please replace the propellers with new ones.

Gimbal

- Confirm the movement of each gimbal axis has full range of motion. Please contact GDU and ask for after-sale service if there is any abnormality.
- Please check the connection between the gimbal and the airframe if the gimbal fails to work or the image transmission is abnormal, make sure the ribbon cable is connected normally.
- Confirm there is no bending, crack and blockage on the connector between the gimbal and the fuselage, and make sure the contact surface is clean.
- Check the appearance of the ribbon cable. If there is any crack or breakage, please contact GDU for after-sale services.
- Please keep the camera lens clean, users can clean it with special camera cleaning spray. Any other organic or inorganic solvents are forbidden to use.
- Please contact GDU for after-sale services if the image shakes or vibrates.

Intelligent vision system

- Keep the optical flow lens module clean.
- Keep the positioning camera modules clean.
- Make sure there is no stains, dirt, or grime adhering to ultrasonic detector.

Remote Controller

- Check the appearance of the remote controller, and make sure the buttons work normally.
- Make sure the switch, the control stick, the knob, the antenna and the remote control work well. Please contact GDU if there is abnormal friction or obvious clamping issues.
- Check the display is normal.
- Confirm the ventilation hole, and the Micro-USB ports are uncovered.
- Check all functions of the remote controller according to the User Manual. Please contact GDU if there is any abnormality.

APP

- Make sure the App version is the latest ,to guarantee the best flight experience.

Maintenance and Storage

Routine Maintenance

- Keep the aircraft clean, especially the camera lens. Users can clean it with soft cloth and water, never with any corrosive solvent.
- Prevent water, dust, metal chips and other foreign matter from entering the aircraft.
- Avoid exposure to the sunlight for quite a long time.
- Do not cover and block the ventilation hole on the surface of the aircraft.

Long-term Storage

- Please turn off the power, take out the battery, and clean up the aircraft before long term storage.
- Fold the aircraft and store properly with all included parts. Storage should be in a dry place under moderate temperature.
- To keep the activity of the battery, it should be fully charged and discharged once a month if not in use for long period of time.
- The storage and maintenance of remote controller battery are the same as the aircraft Intelligent flight battery.

产品的日常维护和保养，直接影响飞行安全和产品使用寿命。用户可参照本手册的相关条款，对产品进行日常维护保养，排除安全隐患，最大程度保障飞行安全。

产品检查与维护

1. 机体

- 检查机体结构外观是否有破损异常，特别注意观察机体是否有裂痕，螺丝是否紧固。
- 检查开机按钮、电量显示灯是否正常工作。
- 检查机臂是否变形、松动、裂痕，是否展开到位，并处于对称位置。
- 检查脚架是否有变形、松动、裂痕，是否展开到位，并处于对称位置。
- 检查飞机舱盖是否扣紧，防止飞行过程中出现脱落。
- 检查机体下表面的散热孔、调参接口是否被覆盖或堵塞。

2. 电池

- 检查电池外观，是否有破损、鼓包、漏液。如有受损，请更换新的电池，并依照《电池安全使用指南》对受损电池进行妥善处理。
- 检查电池安装卡扣是否完好，装入飞机后，电池是否会晃动、脱落。
- 检查电池的剩余电量是否足够完成本次飞行任务。
- 检查电池接插件的针脚有无弯曲、断裂、异物堵塞。
- 检查电池接插件的接触面是否光洁，如果出现氧化导致的接触不良，请更换电池。

3. 电机

- 检查电机外观是否变形，若出现变形，请更换电机。
- 用手转动电机转子，检查转子的阻力情况。若有明显阻力无法转动，请更换电机。
- 不安装螺旋桨启动电机，若出现声音异常，则可能是轴承磨损，请更换电机。
- 检查电机安装的固定螺丝是否稳固，周围塑料零件是否出现裂痕。

若塑料零件出现裂缝，请联系售后服务进行返修。

4. 螺旋桨

- 检查桨叶外观是否有变形、破损、裂痕、白色折痕，若发现有白色折痕则表示该部位有非正常受力，存在断裂风险，请及时更换新的桨叶。
- 检查每对桨叶的安装标识是否与机臂上的标识一致，以确保螺旋桨的正确安装。
- 检查桨叶的对称性。启动电机，观察螺旋桨的转动轨迹。如果出现多重轨迹，同时伴随剧烈震动，说明该桨叶外形或重量不对称，请更换新的桨叶。

5. 云台相机

- 检查云台各轴的结构限位是否有效，如有异常，请联系售后返修。
- 如果出现云台不工作，或图像传输功能异常，请检查云台、飞机接插件连接是否正常，软排线是否脱落。
- 检查云台、飞机接插件有无弯曲、断裂、异物堵塞，接触面是否光洁。
- 检查软排线是否完好，如果出现断裂、磨损等现象，请联系售后进行维修。
- 检查相机镜头的污损情况，如有污渍，请用专门的清洗套装清洗，禁止使用任何溶剂和腐蚀性洗涤剂。
- 在云台使用过程中，若出现较剧烈的画面抖动，请联系售后进行处理。

6. 智能视觉系统

- 检查光流模组的镜头是否有污损，请保持清洁。
- 检查双目模组的镜头防尘罩是否有污损，请保持清洁。
- 检查超声波探头的外部是否有异物。

7. 遥控器

- 检查遥控器外观有无破损、按键异常。
- 检查各开关、摇杆、旋钮动作、天线转轴、机体抽拉是否顺滑，如果出现较强的卡滞或摩擦，请联系售后。
- 检查显示屏是否正常。
- 检查表面的散热孔、调参接口是否被覆盖或堵塞。
- 请参照《用户手册》逐一检查遥控器各项功能是否正常，如有异常，请联系售后。

8.APP

- 检查 APP 固件版本是否最新，请及时更新固件，以获取最佳飞行体验。

保养注意事项及存放

1. 日常保养

- 保持飞机外观清洁无污渍，特别是相机镜头。建议用柔软的棉布和清水擦拭，禁止使用任何溶剂和腐蚀性洗涤剂。
- 防止水、尘土、金属碎屑等异物进入机体，此类异物会对飞机造成重大伤害，甚至酿成事故。
- 避免阳光长时间暴晒，以免温度过高对机内电子设备造成损坏。
- 禁止覆盖、堵塞机体表面的散热孔。

2. 长期存放

- 长期不使用本产品，应将飞机擦拭清洁，以正常方式关断机上所有电源并取下电池。
- 将飞机折叠，与其它周边设备一起装入设备箱，常温存放于干燥处。
- 长期不使用的动力电池，并且每月进行一次全容量充放电，保持电池活性。
- 遥控器为内置电池，其保存和保养方式与动力电池相同。