

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION  
**CERTIFICATE OF WAIVER**

ISSUED TO

**Hireuavpro.com**  
**Responsible Person: Graham Hill**  
**Waiver Number: 107W-2018-11787**

ADDRESS –

**2804 Umatilla St**  
**Denver, CO 80211**

This certificate is issued for the operations specifically described hereinafter. No person shall conduct any operation pursuant to the authority of this certificate except in accordance with the standard and special provisions contained in this certificate, and such other requirements of the Federal Aviation Regulations not specifically waived by this certificate.

OPERATIONS AUTHORIZED

Small unmanned aircraft system (sUAS) operation over human beings.

LIST OF WAIVED REGULATIONS BY SECTION AND TITLE

**14 CFR §107.39(a) Operations Over Human Beings**

**STANDARD PROVISIONS**

1. A copy of the application made for this certificate shall be attached to and become a part hereof.
2. This certificate shall be presented for inspection upon the request of any authorized representative of the Administrator of the Federal Aviation Administration, or of any State or municipal official charged with the duty of enforcing local laws or regulations.
3. The holder of this certificate shall be responsible for the strict observance of the terms and provisions contained herein.
4. This certificate is nontransferable.

NOTE—This certificate constitutes a waiver of those Federal rules or regulations specifically referred to above. It does not constitute a waiver of any State law or local ordinance.

**SPECIAL PROVISIONS**

Special Provisions Nos. 1 to 29, inclusive, are set forth on the attached pages.

This Certificate of Waiver is effective from May 22, 2018 to May 31, 2022 and is subject to cancellation at any time upon notice by the Administrator or an authorized representative.

**BY DIRECTION OF THE ADMINISTRATOR**

**General Aviation and Commercial Division, AFS-800**

**SPECIAL PROVISIONS ISSUED TO  
Hireuavpro.com**

**General.**

The FAA's Flight Standards Service has reviewed your application to ensure compliance with the requirements of 14 CFR § 107.200. The Administrator finds that the proposed sUAS operation can be conducted safely under the provisions of this Certificate of Waiver (Waiver) as listed below, because you have established adequate mitigations for risks involved with operating your sUAS in the manner you described. Adherence to the provisions of this Waiver establishes the required level of safety within the national airspace system.

This Waiver may be canceled at any time by the Administrator, the person authorized to grant the Waiver, or the representative designated to monitor a specific operation. As a general rule, this Waiver may be canceled when it is no longer required, there is an abuse of its provisions, or when unforeseen safety factors develop. Failure to comply with any provision listed below is a violation of the terms of this Waiver and may serve as justification for cancellation.

List of Regulations Waived by Section and Title. The following regulations are waived:

**14 CFR § 107.39(a)**, Operations over human beings directly participating in the operation of the sUA, is waived to allow sUA operations over non-participating human beings.

**Common Special Provisions.** The Responsible Person is directly responsible for safety of operations conducted under this Waiver and will ensure the remote Pilot in Command (PIC), manipulator of the controls, and Visual Observer (VO) complies with all provisions of this Waiver.

1. The Responsible Person listed on the Waiver is responsible to the FAA for the safe conduct of the operations. Prior to conducting operations that are the subject of this Waiver, the responsible person:
  - a. Must ensure the remote PIC, manipulators of the controls, and VO are informed on the terms and provisions of this Waiver and the strict observance of the terms and provisions herein;
  - b. Must ensure the remote PIC, manipulators of the controls, and VO are informed and familiar with part 107 regulations not waived; and
  - c. The above (a and b) must be documented and must be presented for inspection upon request from the Administrator or an authorized representative.
2. This Waiver may be combined with Waiver Number 107W-2018-11785, as amended. This Waiver must not be combined with any other waiver(s), authorization(s), or exemption(s) without specific authorization from the FAA;
3. The FAA has the authority to cancel or delay any or all flight operations if the safety of persons or property on the ground or in the air, are in jeopardy or there is a violation of the terms of this Waiver;
4. Operations under this Waiver may only be conducted in Class G airspace unless a separate airspace Certificate of Waiver or Authorization specifically stating that night operations may be conducted in controlled airspace is received from the FAA, in accordance with § 107.41. The airspace Certificate of Waiver or Authorization to operate at night must be requested separately, and is not part of this Waiver;

5. The Responsible Person listed on this Waiver must maintain a current list of pilots by name and remote pilot certificate number used in the Waiver holder's operations. This list must be presented for inspection upon request from the Administrator or an authorized representative;
6. The Responsible Person listed on this Waiver must maintain a current list of small unmanned aircraft (sUA) by registration number(s) used in the Waiver holder's operations. This list must be presented for inspection upon request from the Administrator or an authorized representative;

**Waiver Specific Special Provisions.** sUAS operations may be conducted under this waiver, as defined in 14 CFR § 1.1, provided:

## **OPERATIONAL PROVISIONS**

7. All operations under this Waiver must use one or more VO;
8. The Responsible Person must establish and maintain a Safety Management System (SMS) appropriate for the size, scope, and complexity of the waived operation. Guidance on establishing and maintaining an SMS is available in FAA Advisory Circular 120-92B. This program must be made available upon request by the Administrator;
9. The Responsible Person must ensure the operations manual is made available to the Administrator. As described in the Waiver application, the Responsible Person must ensure all operations conducted under this Waiver follow the procedures as outlined in the operations manual. If a discrepancy exists between the provisions in this Waiver and the procedures outlined in the operations manual, the provisions of this Waiver take precedence and must be followed;
10. The Responsible Person must ensure the operations manual contains at least the following items:
  - a. Operator Information. Name, address, remote PIC and telephone number,
  - b. Distribution and Revision. Procedures for revising and distributing the operations manual,
  - c. Certificate of Waiver. The operations manual must include a copy of the current Waiver(s),
  - d. Safety Briefing of Direct Participants. Procedures must be included to brief Direct Participants on the risks involved, emergency procedures, and safeguards to be followed during the operation,
  - e. Direct Participants Minimum Requirements. The minimum requirements for all Direct Participants must be specified in the operating manual. The remote PIC at a minimum must hold an airman certificate issued under 14 CFR part 107,
  - f. Operating Procedures. The manual must include procedures for completing normal, abnormal, and emergency procedures,
  - g. Communications. The operation manual must contain procedures to provide communications using oral, visual, or radio communications,
  - h. Accident Notification. The operations manual must contain procedures for notification and reporting of accidents in accordance with this Waiver;
11. The Responsible Person may update or revise its operations manual. The Responsible Person must track such revisions and present updated and revised documents to the Administrator or an authorized representative upon request. The Responsible Person must also present updated and revised documents if it applies for extension or amendment. If the Responsible Person determines that the intended operation differs from the purpose for which this waiver is granted, or if the intended operation would be contrary to or obviate a condition or limitation of this waiver, then the Responsible Person must apply for an amendment to this Waiver;

12. A copy of the current operations manual, including a copy of this Waiver, must be available during sUAS operations that are the subject of this Waiver;
13. The Responsible Person listed on this Waiver must ensure each remote PIC is trained in a manner consistent with how the sUAS will be operated under this Waiver and in operational procedures including evasive and emergency maneuvers. A flight demonstration, administered by the Responsible Person must be successfully completed and documented. All training and demonstration for any remote PIC and VO must be documented and available upon request by the Administrator or authorized representative. Training operations may only be conducted under the standard requirements of part 107 (without waiver). Training during operations over human beings is prohibited;
14. Launch and recovery areas for normal and abnormal operations must be designated and marked to keep any human being not a Direct Participant out of the areas prior to, during, and immediately following flight operations;
15. If the remote PIC loses command or control link with the sUA, the sUA must follow a predetermined route to either reestablish link or immediately recover/land within the closed or restricted-access site;
16. The remote PIC is responsible for halting or canceling operations if, at any time, the safety of human beings or property on the ground or in the air is in jeopardy, or if there is a failure to comply with the provisions of this Waiver;
17. Individuals directly participating in the operation of the sUAS must be easily identifiable visually (e.g., apparel, safety vests);
18. Ground speed of the sUA while operating over human beings must not exceed 3.8 miles per hour;
19. Flight operations recordkeeping requirements. Records shall be retained for a period of 90 days after the expiration date of the Waiver. The Responsible Person shall keep at its principal business office or at other places approved by the Administrator, and provide the Administrator on a monthly basis by email to 9-AFS-820-Part107Reports@faa.gov, the following—
  - a. For each sUA flight conducted under the terms of this waiver—
    - i. Registration number of the sUA,
    - ii. Make and model of the sUA,
    - iii. Name and certificate number of the remote PIC,
    - iv. Name and certificate number of the onsite part 107 certificated airman (VO),
    - v. Location of the remote PIC during the sUA flight,
    - vi. Location of the sUA, and
    - vii. Duration of the sUA operation;
  - b. sUA equipment malfunctions. sUA equipment malfunctions include, but are not limited to, the following—
    - i. Onboard flight control system,
    - ii. Any portion of the navigation system to include GPS functionality,
    - iii. Power plant malfunction or failure,
    - iv. Battery malfunction or failure,
    - v. Electrical power system malfunction or
    - vi. Control station malfunction or failure;

- 20. Operations over all human beings (including Nonparticipants) are permitted;
- 21. Operations over moving vehicles or vessels are prohibited;
- 22. sUA operations must adhere to all manufacturer guidelines, recommendations and limitations for the sUAS;

**TECHNICAL PROVISIONS**

- 23. Operations conducted under this Waiver may occur with the following sUA. Proposed operations of any other manufacturer or model of sUA will require a new waiver application or an application to amend this Waiver:

MANUFACTURER	MODEL
Airstage	Dolphin
Airstage	Mantaray
Airstage	Jellyfish Orb

- 24. Any modification to the sUAS design is prohibited; repair and replacement of damaged components is allowed with a replacement part that is exactly the same as the original; no substitutions are allowed unless a new waiver application is submitted;
- 25. The Responsible Person must maintain the sUAS and its components in accordance with manufacturer's instructions. The aircraft manufacturer may provide the maintenance program, or, if one is not provided, the Responsible Person must develop one prior to performing sUA operations that are the subject of this Waiver. sUAS maintenance includes scheduled and unscheduled overhaul, repair, inspection, modification, replacement, and system software upgrades of the sUAS and its components necessary for flight. These procedures must be added to the operations manual. Records of this maintenance must be retained for 90 days after the expiration date of the Waiver;
- 26. Any sUAS that has undergone maintenance that affect the sUAS operation or flight characteristics, e.g., replacement of a flight critical component, must undergo a functional test flight prior to conducting further operations under this Waiver. Functional test flights may only be conducted by Direct Participants. The functional test flight may only be conducted under the standard requirements of part 107 (without waiver). Functional test flights during operations over human beings are prohibited;
- 27. For sUAS operations where GPS signal is necessary to safely operate the sUA, the remote PIC must immediately recover/land the sUA upon loss of GPS signal within the closed or restricted-access site;

**ENVIRONMENTAL PROVISIONS**

- 28. Operations conducted under this Waiver are limited to 25 feet above ground level as described in the waiver application; and
- 29. Operations subject to this Waiver are limited to a .5 statute-mile radius circle, with a geographic center of 32°45'53.25"N and 117°13'35.79"W, as described in the waiver application.