



September 22, 2015

Exemption No. 12965 Regulatory Docket No. FAA-2015-2737

Ms. Dana Longino Chief Pilot Lee Lewis Construction, Inc. 7810 Orlando Avenue Lubbock, TX 79423

Dear Ms. Longino:

This letter is to inform you that we have granted your request for exemption. It transmits our decision, explains its basis, and gives you the conditions and limitations of the exemption, including the date it ends.

By letter dated June 16, 2015, you petitioned the Federal Aviation Administration (FAA) on behalf of Lee Lewis Construction, Inc. (hereinafter petitioner or operator) for an exemption. The petitioner requested to operate an unmanned aircraft system (UAS) to conduct aerial photography, videography, marketing, and inspections.

See Appendix A for the petition submitted to the FAA describing the proposed operations and the regulations that the petitioner seeks an exemption.

The FAA has determined that good cause exists for not publishing a summary of the petition in the Federal Register because the requested exemption would not set a precedent, and any delay in acting on this petition would be detrimental to the petitioner.

Airworthiness Certification

The UAS proposed by the petitioner is a DJI Inspire 1.

The petitioner requested relief from 14 CFR part 21, Certification procedures for products and parts, Subpart H—Airworthiness Certificates. In accordance with the statutory criteria provided in Section 333 of Public Law 112–95 in reference to 49 U.S.C. § 44704, and in

consideration of the size, weight, speed, and limited operating area associated with the aircraft and its operation, the Secretary of Transportation has determined that this aircraft meets the conditions of Section 333. Therefore, the FAA finds that the requested relief from 14 CFR part 21, *Certification procedures for products and parts, Subpart H—Airworthiness Certificates*, and any associated noise certification and testing requirements of part 36, is not necessary.

The Basis for Our Decision

You have requested to use a UAS for aerial data collection¹. The FAA has issued grants of exemption in circumstances similar in all material respects to those presented in your petition. In Grants of Exemption Nos. 11062 to Astraeus Aerial (*see* Docket No. FAA–2014–0352), 11109 to Clayco, Inc. (*see* Docket No. FAA–2014–0507), 11112 to VDOS Global, LLC (*see* Docket No. FAA–2014–0382), and 11213 to Aeryon Labs, Inc. (*see* Docket No. FAA–2014–0642), the FAA found that the enhanced safety achieved using an unmanned aircraft (UA) with the specifications described by the petitioner and carrying no passengers or crew, rather than a manned aircraft of significantly greater proportions, carrying crew in addition to flammable fuel, gives the FAA good cause to find that the UAS operation enabled by this exemption is in the public interest.

Having reviewed your reasons for requesting an exemption, I find that—

- They are similar in all material respects to relief previously requested in Grant of Exemption Nos. 11062, 11109, 11112, and 11213;
- The reasons stated by the FAA for granting Exemption Nos. 11062, 11109, 11112, and 11213 also apply to the situation you present; and
- A grant of exemption is in the public interest.

Our Decision

In consideration of the foregoing, I find that a grant of exemption is in the public interest. Therefore, pursuant to the authority contained in 49 U.S.C. 106(f), 40113, and 44701, delegated to me by the Administrator, Lee Lewis Construction, Inc. is granted an exemption from 14 CFR §§ 61.23(a) and (c), 61.101(e)(4) and (5), 61.113(a), 61.315(a), 91.7(a), 91.119(c), 91.121, 91.151(a)(1), 91.405(a), 91.407(a)(1), 91.409(a)(1) and (2), and 91.417(a) and (b), to the extent necessary to allow the petitioner to operate a UAS to perform aerial data collection. This exemption is subject to the conditions and limitations listed below.

¹ Aerial data collection includes any remote sensing and measuring by an instrument(s) aboard the UA. Examples include imagery (photography, video, infrared, etc.), electronic measurement (precision surveying, RF analysis, etc.), chemical measurement (particulate measurement, etc.), or any other gathering of data by instruments aboard the UA.

Conditions and Limitations

In this grant of exemption, Lee Lewis Construction, Inc. is hereafter referred to as the operator.

Failure to comply with any of the conditions and limitations of this grant of exemption will be grounds for the immediate suspension or rescission of this exemption.

- 1. Operations authorized by this grant of exemption are limited to the DJI Inspire 1 when weighing less than 55 pounds including payload. Proposed operations of any other aircraft will require a new petition or a petition to amend this exemption.
- 2. Operations for the purpose of closed-set motion picture and television filming are not permitted.
- 3. The UA may not be operated at a speed exceeding 87 knots (100 miles per hour). The exemption holder may use either groundspeed or calibrated airspeed to determine compliance with the 87 knot speed restriction. In no case will the UA be operated at airspeeds greater than the maximum UA operating airspeed recommended by the aircraft manufacturer.
- 4. The UA must be operated at an altitude of no more than 400 feet above ground level (AGL). Altitude must be reported in feet AGL.
- 5. The UA must be operated within visual line of sight (VLOS) of the PIC at all times. This requires the PIC to be able to use human vision unaided by any device other than corrective lenses, as specified on the PIC's FAA-issued airman medical certificate or U.S. driver's license.
- 6. All operations must utilize a visual observer (VO). The UA must be operated within the visual line of sight (VLOS) of the PIC and VO at all times. The VO may be used to satisfy the VLOS requirement as long as the PIC always maintains VLOS capability. The VO and PIC must be able to communicate verbally at all times; electronic messaging or texting is not permitted during flight operations. The PIC must be designated before the flight and cannot transfer his or her designation for the duration of the flight. The PIC must ensure that the VO can perform the duties required of the VO.
- 7. This exemption and all documents needed to operate the UAS and conduct its operations in accordance with the conditions and limitations stated in this grant of exemption, are hereinafter referred to as the operating documents. The operating documents must be accessible during UAS operations and made available to the Administrator upon request. If a discrepancy exists between the conditions and limitations in this exemption and the procedures outlined in the operating documents,

the conditions and limitations herein take precedence and must be followed. Otherwise, the operator must follow the procedures as outlined in its operating documents. The operator may update or revise its operating documents. It is the operator's responsibility to track such revisions and present updated and revised documents to the Administrator or any law enforcement official upon request. The operator must also present updated and revised documents if it petitions for extension or amendment to this grant of exemption. If the operator determines that any update or revision would affect the basis upon which the FAA granted this exemption, then the operator must petition for an amendment to its grant of exemption. The FAA's UAS Integration Office (AFS–80) may be contacted if questions arise regarding updates or revisions to the operating documents.

- 8. Any UAS that has undergone maintenance or alterations that affect the UAS 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 exemption. Functional test flights may only be conducted by a PIC with a VO and must remain at least 500 feet from other people. The functional test flight must be conducted in such a manner so as to not pose an undue hazard to persons and property.
- 9. The operator is responsible for maintaining and inspecting the UAS to ensure that it is in a condition for safe operation.
- 10. Prior to each flight, the PIC must conduct a pre-flight inspection and determine the UAS is in a condition for safe flight. The pre-flight inspection must account for all potential discrepancies, e.g., inoperable components, items, or equipment. If the inspection reveals a condition that affects the safe operation of the UAS, the aircraft is prohibited from operating until the necessary maintenance has been performed and the UAS is found to be in a condition for safe flight.
- 11. The operator must follow the UAS manufacturer's maintenance, overhaul, replacement, inspection, and life limit requirements for the aircraft and aircraft components.
- 12. Each UAS operated under this exemption must comply with all manufacturer safety bulletins.
- 13. Under this grant of exemption, a PIC must hold either an airline transport, commercial, private, recreational, or sport pilot certificate. The PIC must also hold a current FAA airman medical certificate or a valid U.S. driver's license issued by a state, the District of Columbia, Puerto Rico, a territory, a possession, or the Federal government. The PIC must also meet the flight review requirements specified in 14 CFR § 61.56 in an aircraft in which the PIC is rated on his or her pilot certificate.

- 14. The operator may not permit any PIC to operate unless the PIC demonstrates the ability to safely operate the UAS in a manner consistent with how the UAS will be operated under this exemption, including evasive and emergency maneuvers and maintaining appropriate distances from persons, vessels, vehicles and structures. PIC qualification flight hours and currency must be logged in a manner consistent with 14 CFR § 61.51(b). Flights for the purposes of training the operator's PICs and VOs (training, proficiency, and experience-building) and determining the PIC's ability to safely operate the UAS in a manner consistent with how the UAS will be operated under this exemption are permitted under the terms of this exemption. However, training operations may only be conducted during dedicated training sessions. During training, proficiency, and experience-building flights, all persons not essential for flight operations are considered nonparticipants, and the PIC must operate the UA with appropriate distance from nonparticipants in accordance with 14 CFR § 91.119.
- 15. UAS operations may not be conducted during night, as defined in 14 CFR § 1.1. All operations must be conducted under visual meteorological conditions (VMC). Flights under special visual flight rules (SVFR) are not authorized.
- 16. The UA may not operate within 5 nautical miles of an airport reference point (ARP) as denoted in the current FAA Airport/Facility Directory (AFD) or for airports not denoted with an ARP, the center of the airport symbol as denoted on the current FAA-published aeronautical chart, unless a letter of agreement with that airport's management is obtained or otherwise permitted by a COA issued to the exemption holder. The letter of agreement with the airport management must be made available to the Administrator or any law enforcement official upon request.
- 17. The UA may not be operated less than 500 feet below or less than 2,000 feet horizontally from a cloud or when visibility is less than 3 statute miles from the PIC.
- 18. If the UAS loses communications or loses its GPS signal, the UA must return to a pre-determined location within the private or controlled-access property.
- 19. The PIC must abort the flight in the event of unpredicted obstacles or emergencies.
- 20. The PIC is prohibited from beginning a flight unless (considering wind and forecast weather conditions) there is enough available power for the UA to conduct the intended operation and to operate after that for at least five minutes or with the reserve power recommended by the manufacturer if greater.
- 21. Air Traffic Organization (ATO) Certificate of Waiver or Authorization (COA). All operations shall be conducted in accordance with an ATO-issued COA. The exemption holder may apply for a new or amended COA if it intends to conduct operations that cannot be conducted under the terms of the attached COA.

- 22. All aircraft operated in accordance with this exemption must be identified by serial number, registered in accordance with 14 CFR part 47, and have identification (N–Number) markings in accordance with 14 CFR part 45, Subpart C. Markings must be as large as practicable.
- 23. Documents used by the operator to ensure the safe operation and flight of the UAS and any documents required under 14 CFR §§ 91.9 and 91.203 must be available to the PIC at the Ground Control Station of the UAS any time the aircraft is operating. These documents must be made available to the Administrator or any law enforcement official upon request.
- 24. The UA must remain clear and give way to all manned aviation operations and activities at all times.
- 25. The UAS may not be operated by the PIC from any moving device or vehicle.
- 26. All Flight operations must be conducted at least 500 feet from all nonparticipating persons, vessels, vehicles, and structures unless:
 - a. Barriers or structures are present that sufficiently protect nonparticipating persons from the UA and/or debris in the event of an accident. The operator must ensure that nonparticipating persons remain under such protection. If a situation arises where nonparticipating persons leave such protection and are within 500 feet of the UA, flight operations must cease immediately in a manner ensuring the safety of nonparticipating persons; and
 - b. The owner/controller of any vessels, vehicles or structures has granted permission for operating closer to those objects and the PIC has made a safety assessment of the risk of operating closer to those objects and determined that it does not present an undue hazard.
 - The PIC, VO, operator trainees or essential persons are not considered nonparticipating persons under this exemption.
- 27. All operations shall be conducted over private or controlled-access property with permission from the property owner/controller or authorized representative. Permission from property owner/controller or authorized representative will be obtained for each flight to be conducted.
- 28. Any incident, accident, or flight operation that transgresses the lateral or vertical boundaries of the operational area as defined by the applicable COA must be reported to the FAA's UAS Integration Office (AFS-80) within 24 hours. Accidents must be reported to the National Transportation Safety Board (NTSB) per instructions contained on the NTSB Web site: www.ntsb.gov.

If this exemption permits operations for the purpose of closed-set motion picture and television filming and production, the following additional conditions and limitations apply.

- 29. The operator must have a motion picture and television operations manual (MPTOM) as documented in this grant of exemption.
- 30. At least 3 days before aerial filming, the operator of the UAS affected by this exemption must submit a written Plan of Activities to the local Flight Standards District Office (FSDO) with jurisdiction over the area of proposed filming. The 3-day notification may be waived with the concurrence of the FSDO. The plan of activities must include at least the following:
 - a. Dates and times for all flights;
 - b. Name and phone number of the operator for the UAS aerial filming conducted under this grant of exemption;
 - c. Name and phone number of the person responsible for the on-scene operation of the UAS:
 - d. Make, model, and serial or N-Number of UAS to be used;
 - e. Name and certificate number of UAS PICs involved in the aerial filming;
 - f. A statement that the operator has obtained permission from property owners and/or local officials to conduct the filming production event; the list of those who gave permission must be made available to the inspector upon request;
 - g. Signature of exemption holder or representative; and
 - h. A description of the flight activity, including maps or diagrams of any area, city, town, county, and/or state over which filming will be conducted and the altitudes essential to accomplish the operation.
- 31. Flight operations may be conducted closer than 500 feet from participating persons consenting to be involved and necessary for the filming production, as specified in the exemption holder's MPTOM.

Unless otherwise specified in this grant of exemption, the UAS, the UAS PIC, and the UAS operations must comply with all applicable parts of 14 CFR including, but not limited to, parts 45, 47, 61, and 91.

This exemption terminates on September 30, 2017, unless sooner superseded or rescinded.

Sincerely,

/s/

John S. Duncan Director, Flight Standards Service

Enclosures





June 16, 2015 U.S. Department of Transportation Docket Management System 1200 New Jersey Ave., SE Washington DC 20590

Dear Sir or Madam:

Attached please find the Lee Lewis Construction Inc. request for an exemption from the listed Federal Aviation Regulations to allow commercial operation of its Small Unmanned Aircraft System ("sUAS") for aerial imaging of secured and controlled commercial construction sites for the purpose of improving site safety and for documentation of company projects and capabilities.

Attached to this request is the aircraft User Manual which provides operating specifications and procedures and radio frequency usage for the intended UAS, a "DJI Inspire 1" quadcopter sUAS. This aircraft has built in safety features that, when combined with the professionalism and proficiency of the PICs, ensures safety of operations throughout the environments in which it will be deployed. Safety features are identified in the attached manual and include in part; proper maintenance and preflight procedures, power monitoring capability, automatic return to land capability, irregular operations, altitude and speed monitoring, and fully automatic stabilization systems. The aircraft also has the capability to record flight parameters, which are available after flight for performance evaluation and if necessary incident investigation.

Thank you for your time and consideration. Please direct any questions to the operator, Dana Longino, company chief pilot. He will coordinate the approval process with our company management, operations, and safety personnel as appropriate. His contact information is on the following page.

Sincerely

Lee Lewis Owner/CEO

Lee Lewis Construction, Inc.

7810 Orlando Avenue P.O. Box 65197 Lubbock, Texas 79464 806/797-8400 • FAX 806/797-8492 June 16, 2015 U.S. Department of Transportation Docket Management System 1200 New Jersey Ave., SE Washington DC 20590

Re: Exemption Request Section 333 of the FAA Reform Act and Part 11 of the Federal Aviation Regulations from 14 C.F.R. 45.23(b); 14 CFR Part 21; 14 CFR 61.113(a) & (b); 91.7(a); 91.9(b) (2); 91.103(b); 91.109; 91.119; 91.121; 91.151(a) & (b); 91.405 (a); 91.407(a) (1); 91.409 (a) (2); 91.417 (a) & (b). Dear Sir or Madam:

Pursuant to Section 333 of the FAA Modernization and Reform Act of 2012 (the Reform Act) and 14 C.F.R Part 11, Lee Lewis Construction Inc., a private commercial construction contractor firm, hereby applies for an exemption from the listed Federal Aviation Regulations ("FARs") to allow commercial operation of its Small Unmanned Aircraft Systems ("sUASs") for aerial imaging for safety, monitoring of secured and controlled environment construction sites, and company marketing efforts so long as such operations are conducted within and under the conditions outlined herein or as may be established by the FAA as required by Section 333.

As detailed in this document, the requested exemption would permit the operation of company sUASs under controlled conditions in airspace that is 1) limited 2) predetermined 3) controlled as to access and 4) would provide safety enhancements to the already best practices safety protocols followed by Lee Lewis Construction, Inc. Approval of this exemption would thereby enhance safety and fulfill the Secretary of Transportation's (the FAA Administrator's) responsibilities to "...establish requirements for the safe operation of such aircraft systems in the national airspace system." Section 333 (c) of the Reform Act.

The name and address of the applicant is: Lee Lewis Construction, Inc. Dana Longino Chief Pilot PH: 806-535-5400

Email: dlongino@leelewis.com

Address: 7810 Orlando Ave. Lubbock, TX 79423

Regulations from which the exemption is requested:

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14 C.F.R. Part 21
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14 C.F.R. 45.23(b)

14 C.F.R. 61.113 (a) & (b)

14 C.F.R. 91.7 (a)

14 C.F.R. 91.9 (b) (2)

14 C.F.R 91.103

14 C.F.R. 91.109

14 C.F.R. 91.119

14 C.F.R. 91.121

14 C.F.R. 91.151 (a)

14 C.F.R. 203 (a) & (b)

14 C.F.R. 91.405 (a)

14 C.F.R. 407 (a) (1)

14 C.F.R. 409 (a) (2)

14 C.F.R. 417 (a) & (b)

1. STATUTORY AUTHORITY FOR EXEMPTIONS

The Federal Aviation Act expressly grants the FAA authority to issue exemptions. This statutory authority includes exempting civil aircraft, as the term is defined under 40101 of the Act, including sUASs, from the requirement that all civil aircraft must have a current airworthiness certificate.

The Administrator may grant an exemption from a requirement of a regulation prescribed under subsection (a) or (b) of this section or any sections 44702-44716 of this title if the Administrator finds the exemption ion the public interest. 49 U.S.C. 44701(f) See also 49 USC 44711(a); 49 USC 44704; 14 CFR 91.203(a)(1).

Section 333(b) of the Reform Act assists the Secretary in determining whether sUASs may operate in the National Airspace System (NAS) without creating a hazard to the user, the public, or a threat to national security. In making this determination, the Secretary must consider:

- The sUAS's size, weight, speed, and operational capability;
- Whether the sUAS operates within the visual line of sight of the operator
- Whether the sUAS operated outside of highly populated areas and away from close proximity to airports.

Reform Act 333(a). If the Secretary determines that a sUAS "may operate safely in the national airspace system, the Secretary shall establish requirements for the safe operation of such aircraft in the national airspace system." *Id.* 333(c).

Lee Lewis Construction, Inc.'s sUAS is a multi-rotor vehicle, weighing 10 or fewer lbs. including payload. It operates under normal conditions at a speed of no more than 35 knots and has the capability to hover, and move in the vertical and horizontal plane simultaneously. The sUAS will operate only in the pilot's visual line of sight at all times. Such operations will insure that the sUAS will "not create a hazard to users of the national airspace system or the public. "Reform Act Section 333 (b).

Given the small size of the sUAS involved and the restricted environment within which they will operate, our application falls squarely within the zone of safety (an equivalent level of safety) in which Congress envisioned that the FAA must, by exemption, allow commercial operations of sUASs to commence immediately.

Also, due to the small size of the sUAS and the low altitudes and restricted areas in which our sUAS will operate, approval of the application presents no national security issue.

Given the clear direction in Section 333 of the Reform Act, the authority contained in the Federal Aviation Act, as amended; the strong equivalent level of safety surrounding the proposed operations, and the significant public benefit, including enhanced safety, the grant of the requested exemptions is in the public interest. Accordingly, Lee Lewis Construction, Inc. respectfully requests that the FAA grant the requested exemption without delay.

II. PUBLIC INTEREST

This exemption application is expressly submitted to fulfill Congress' goal in passing Section 333(a) through (c) of the Reform Act. This law directs the Secretary of Transportation to consider whether certain unmanned aircraft systems may operate safely in the NAS before completion of the rulemaking required under Section 332 of the Reform Act. By granting an exemption the FAA will fulfill Congress' intent of allowing UAS to operate with significant safety precautions in low risk environments.

The use of sUASs on a construction site can significantly reduce the risk to workers of falls while inspecting, surveying, or monitoring site progress. sUASs can inspect, photograph, and collect data on hard to get to areas that otherwise would require worker inspection. Falls are the leading source of workplace fatality and injury on construction sites, and reducing falls through sUAS use for site imaging could save workers lives.

Additionally, sUASs could replace the use of helicopters and small aircraft to monitor sites. The sUASs we propose to fly in this application are under five pounds, and carry no combustible material on board, as opposed to the much larger conventionally powered small aircraft. Shifting to sUASs from helicopters presents a marked safety increase for workers and the public.

Lastly, sUASs reduce the environmental impact by dramatically reducing the energy used for aerial imaging and data collection over a construction site. Our sUASs use rechargeable

lithium ion batteries, as opposed to fossil fuels burned in operation of small aircraft that are many hundreds of times heavier.

III. EQUIVALENT LEVEL OF SAFETY

Lee Lewis Construction, Inc. proposes that the exemption requested herein apply to civil aircraft that have the characteristics and that operate with the limitations listed herein. These limitations provide for at least an equivalent or even higher level of safety to operations under the current regulatory structure because the proposed operations represent a safety enhancement to the already safe protocols followed on construction sites and imaging and surveying operations conducted with helicopters and other conventional aircraft. Lee Lewis Construction, Inc. will be bound by the following limitations when conducting its sUAS operations under an FAA issued exemption:

- 1. The sUAS will be less than 10 pounds.
- 2. Flights will be operated within visual line of sight of the Pilot in Command (PIC) and the Visual Observer (VO).
- 3. Maximum total flight time for each operational flight will be 30 minutes. The UAS calculates battery reserve in real time, and will return to it ground station with at least 20% battery power reserve should that occur prior to the 30 minute limit.
- 4. Flights will be operated at a typical altitude of 200 feet AGL, never exceeding 400 feet AGL.
- 5. Crew for each operation will consist of the sUAS PIC and a VO who will keep the sUAS within their visual line of sight at all times.
- 6. The sUAS PICs will possess an FAA issued airplane pilot certificate, a current medical certificate or US driver's license and be trained in sUAS systems, operations and safety procedures in accordance with the defined company sUAS training program.
- 7. The sUAS will only operate within a designated area in accordance with the waiver provisions.
- 8. A briefing will be conducted in regard to the sUAS operations at each construction site to include planned operations, safety precautions, and any special procedures required to ensure no danger to personnel working at the site
- 9. The PIC will have completed the UAS company training program prior to performing PIC duties at a site with construction personnel in the area.
- 10. Written and/or oral permission from the relevant property holders will be obtained.
- 11. All required permissions and permits will be obtained from territorial, state, county, or city jurisdiction, including local law enforcement, fire, or other appropriate governmental agencies.
- 12. If the sUAS loses communications or loses its GPS signal, it will have the capability to return to a pre-determined location within the Security Perimeter and land.
- 13. The sUAS will have the capability to abort a flight in case of unpredicted obstacles or emergencies.
- 14. The sUASs will not be operated if in the area there are unusual risks such as electromagnetic interference, active crane operations, inclement weather, or other

activities that put the safe operation of the vehicle in question or pose an undue risk to personnel or property.

IV. DESCRIPTION OF SPECIFIC REGULATIONS

14 CFR Part 21, Subpart H: Airworthiness Certificates 14 C.F.R 91.203(a)(1)

Subpart H, entitled Airworthiness Certificates, establishes the procedural requirements for the issuance of airworthiness certificates as required by FAR 91.203 (a)(1). Given the size and limited operating area associated with the aircraft to be utilized by Lee Lewis Construction, Inc., an exemption from Part 21 Subpart H meets the requirements of an equivalent level of safety under Part II and Section 333 of the Reform Act. The Federal Aviation Act (49 U.S.C 44701 (f) and Section 333 of the Reform Act both authorize the FAA to exempt aircraft from the requirement for an airworthiness certificate, upon consideration of the size, weight, speed, operational capability, and proximity to airports and populated areas of the particular UAS. Our small UAS will be operated at low speed in a controlled environment, at least five miles from an airport with Class C, D, or E airspace without proper ATC coordination and clear of any densely populated areas. An analysis of these criteria demonstrates that the UAS operated without an airworthiness certificate, in the restricted environment and under the conditions proposed will be at least as safe, or safer, than conventional aircraft (fixed wing or helicopter) operating with an airworthiness certificate without the restrictions and conditions proposed.

The sUAS to be operated hereunder is less than 10 lbs. fully loaded, carries neither a pilot nor passenger, carries no explosive materials or flammable liquid fuels, and operates exclusively within a secured area. Like other civil aircraft, operations under this exemption will be tightly controlled and monitored by the operator, and under the requirements and in compliance with local public safety requirements, to provide security for the area of operation as is currently done on active construction sites.

These safety enhancements, which already apply to civil aircraft operated in connection with construction sites, provide a greater degree of safety to the public and property owners than conventional operations conducted with airworthiness certificates issued under 14 C.F.R. Part 21, Subpart H. Lastly, application of these same criteria demonstrates that there is no credible threat to national security posed by the UAS, due to its size, speed of operation, location of operation, lack of explosive materials or flammable liquid fuels, and ability to carry and external load no greater than two lbs.

The sUAS operated by Lee Lewis Construction, Inc. complies with part 15 of the FCC rules.

14 C.F.R. 45.23(b): Marking of the Aircraft

This regulation requires certain experimental, provisionally certified aircraft, or light-sport category aircraft to be marked with letters between 2 inches and 6 inches high "limited",

"restricted", "light-sport", "experimental", or "provisional", near each entrance to a cabin, cockpit, or pilot station.

Even though the UAS will have no airworthiness certificate, an exemption may be needed as the UAS will have no entrance to the cabin, cockpit, or pilot station on which the word "Experimental" can be placed. Given the size of the sUAS, two-inch lettering will be impossible. The word "Experimental" will be placed on the fuselage in compliance with 45.29(f).

The equivalent level of safety will be provided by having the sUAS marked on its fuselage as required by 45.29(f) where the pilot, observers and others working with the sUAS will see the identification of the UAS as "Experimental" The FAA has issued the following exemptions to this regulation. Exemptions Nos. 10700, 8738, 10167 and 10167A.

14 CFR 61.113 (a) & (b): Private pilot privileges and limitations: Pilot in command

Sections 61.113 (a) & (b) limit private pilots to non-commercial operations. Because the UAS will not carry a pilot or passengers, the proposed operations can achieve the equivalent level of safety of current operations by requiring the pilot operating the sUAS to possess at least a Sport Pilot Certificate and have completed a company sUAS flight training course given and documented by Dana Longino, (Lee Lewis Construction Inc. Chief Pilot, ATP, CFI/II/MEI) or an experienced sUAS operator with a pilot certificate. The company training course will include at a minimum; UAV systems and vehicle routine maintenance, control station operation, best safety practices, flying proficiency, airspace rules, applicable regulatory review, vehicle preflight inspection procedures, operating environment restrictions and considerations, emergency operations to include vehicle emergency landing and flight termination guidelines, personnel briefing requirements, and required operations documentation. Initial PIC, Dana Longino, has one year experience operating a DJI quadcopter sUAS (Phantom Two Vision Plus) and will self-certify. Dana has a strong background in sUAS operations, experimental aircraft operations, airline and military flying, flight safety management, and is a certified flight instructor and company chief pilot currently flying a Citation Sovereign.

14 C.F.R. 91.7 (a): Civil aircraft airworthiness

The regulation requires that no person may operate a civil aircraft unless it is in airworthy condition. As there is no airworthiness certificate issued for the aircraft, should this exemption be granted, no FAA regulatory standard will exist for determining airworthiness. Given the size of the aircraft and the use of safety checklists prior to each flight, as set forth in Section B and Section G, an equivalent level of safety will be provided.

The sUAS operated by Lee Lewis Construction, Inc. will have an operating manual/user guide that provides full and detailed operating specifications and guidelines sufficient to ensure compliance with all regulatory and best operating procedures safety practices.

14 C.F.R. 91.9 (b)(2): Civil aircraft flight manual, marking, and placard requirements

The sUAS, given its size and configuration has no ability or place to carry such a flight manual on the aircraft, not only because there is no pilot on board, but because there is no room or capacity to carry such an item on the aircraft.

The equivalent level of safety will be maintained by keeping the flight manual/user guide at the ground control point where the pilot flying the sUAS will have immediate access to it. The FAA has issued the following exemptions to this regulation: Exemption Nos. 8607, 8737, 8738, 9299, 9299A, 9565, 9565B, 10167, 10167A, 10602, 32827, and 10700.

14 C.F.R. 91.103: Preflight Action

This regulation requires each pilot in command to take certain actions before a flight to ensure the safety of flight. An exemption is needed from this requirement as the pilot will take separate preflight actions, including checking for weather conditions, checking flight battery requirements, checking takeoff and landing distances, and all other actions in the Preflight Checklist in the Manual. These actions will provide an equivalent level of safety.

14 C.F.R. 91.109 Flight Instruction

Section 91.103 provides that no person may operate a civil aircraft (except a manned free balloon) that is being used for flight instruction unless that aircraft has fully functioning dual controls.

By design, sUAS and remotely piloted aircraft do not have fully functional dual controls. Flight control is accomplished through the use of a control box that communicates with the aircraft via radio communications. The FAA has previously approved exemptions for aircraft without fully functional dual controls. See Exemption Nos. 5778K & 9862A. The equivalent level of safety provided by the fact that neither a pilot nor passengers will be carried in the aircraft, the ability to control the sUAS via radio signals from the controller, and by the size and speed of the aircraft.

Training will be conducted and documented in an appropriate site clear of any persons and without risk to property and without infringing on any airspace other than class G below 400 feet AGL.

14 C.F.R. 91.119: Minimum Safe Altitudes

Section 91.119 establishes safe altitudes for operation of civil aircraft. Section 91.119 (d) allows helicopters to be operated at less than the minimums prescribed, provided the person operating the helicopter complies with any route or altitudes prescribed for helicopters by the FAA. This exemption is for a multirotor craft that flies similarly to a helicopter, with vertical takeoff and vertical landing, which will typically operate at altitudes of 200 AGL, so an exemption may be needed to allow such operations. The UAS will never operate at altitude higher than 400 AGL

and will be in a restricted area with security perimeter, where buildings and people will not be exposed to operations without their pre-obtained consent.

The equivalent level of safety will be achieved given the size, weight, speed of the UAS as well as the location where it is operated. No flight will be taken without the permission of the property owner or local officials. Because of the advance notice to the property owner and any onsite personnel, all affected individuals will be aware of the planned flight operations. Compared to flight operations with aircraft or rotorcraft weighing far more that the maximum 10 lbs. proposed herein and carrying flammable fuel, any risk associated with our operations of the sUAS will ensure separation between these small UAS operations and the operations of conventional aircraft that must comply with Section 91.119.

14 C.F.R. 91:121: Altimeter Settings

This regulation requires each person operating an aircraft to maintain cruising altitude by reference to an altimeter that is set "to the elevation of the departure airport or an appropriate altimeter setting available before departure." As the sUAS does not have a barometric altimeter readout, but instead a GPS altitude read out, an exemption may be needed. An equivalent or increased level of safety and compliance will be achieved with an altitude readout in feet at the control station above takeoff "level 0".

14 C.F.R. 91.151 (a): Fuel requirements for flight in VFR conditions

Section 91.151 (a) outlines fuel requirements for beginning a flight in VFR conditions. Our UAS is limited to operations in sterile and controlled environments as outlined above and has a limited range and flight time which require an exemption from 14 CFR 91.151 (a).

The battery powering the sUAS provides approximately 35 minutes of powered flight. To meet the 30 minute reserve requirement in 14 CFR 91.151, sUAS flights would be limited to approximately 5 minutes in length. Given the limitations on the UAS's proposed flight area and the location of its proposed operations within a predetermined area, a longer time frame for flight in daylight or night VFR conditions is reasonable.

Lee Lewis Construction, Inc. believes that an exemption from 14 CFR 91.151 (a) falls within the scope of prior exemptions. See Exemption 10673 (allowing Lockheed Martin Corporation to operate without compliance with FAR 91.151 (a)). Operating the small UAS, in a tightly controlled area where only people and property owners or official representatives who have signed waivers will be allowed, with less than 30 minutes of reserve fuel, does not engender the type of risks that Section 91.151 (a) was intended to alleviate given the size and speed of the small UAS. Additionally, limiting sUAS flights to 10 minutes would greatly reduce the utility for which the exemption will be granted.

An equivalent level of safety can be achieved by limiting flights to 30 minutes, or enough battery reserve to ensure that the sUAS lands at the ground station with at least 20% of battery power (as

determined by the onboard monitoring system and the pilot), whichever happens first. This restriction would be more than adequate to return the sUAS to its planned landing zone from anywhere in its limited operating area.

Similar exemptions have been granted to other operations, including Exemptions 2689F, 5745, 10673, and 10808.

14 CFR 91.203 (a) & (b): Carrying civil aircraft certification and registration.

The regulation provided in part:

- (a) Except as provided in 91.715, no person may operate a civil aircraft unless it has within it the following:
 - (1) An appropriate and current airworthiness certificate....
- (b) No person may operate a civil aircraft unless he airworthiness certificate required by paragraph (a) of this section or a special flight authorization issued under 91.715 is displayed at the cabin or cockpit entrance so that it is legible to passengers or crew.

The UAS fully loaded weighs no more than 10 lbs and is operated without an onboard pilot. Therefore there is no ability or place to carry certification and registration documents or to display them on the sUAS.

An equivalent level of safety will be achieved by keeping these documents at the ground control point where the pilot flying the sUAS will have immediate access to them, to the extent they are applicable to the sUAS. The FAA has issued numerous exemptions to this regulation. A representative sample of other exceptions includes Exemption Nos. 9565, 9665, 9789, 9789A, 9797, 9797A, 9816A, and 10700.

14 CFR 91.405 (a); 407 (a)(1); 409 (a)(2); 417 (a) & (b): Maintenance inspections

These regulations require that an aircraft operator or owner "shall have that aircraft inspected as prescribed in subpart E of this part and shall between required inspections, except as provided in paragraph © of this section, have discrepancies repaired as prescribed in part 43 of this chapter...," and others shall inspect or maintain the aircraft in compliance with Part 43.

Given that these sections and Part 43 apply only to aircraft with an airworthiness certificate, these sections will not apply to Lee Lewis Construction, Inc. Routine maintenance will be accomplished by the operator pursuant to the flight manual and operating handbook as referenced in the Operations Manual. Any modification or non-routine maintenance will be conducted by the manufacturer or the manufacturer's designated agent. An equivalent level of safety will be achieved because these small UASs are very limited in size and will carry a small payload and operate only in restricted areas for limited periods of time. If mechanical

issues arise the UAS can land immediately and will be operating from no higher than 400 feet AGL. As provided in the Manual, the operator will ensure that the UAS is in working order prior to initiating flight, perform required maintenance, and keep a log of any maintenance performed. Moreover, the operator is the person most familiar with the aircraft and best suited to maintain the aircraft in an airworthy condition to provide the equivalent level of safety.

Pursuant to 14 C.F.R. Part 11, the following summary is provided for publication in the Federal Register, should it be determined that publication is needed:

Applicant seeks an exemption from the following rules:14 C.F.R. §21, subpart H; 14 C.F.R 45.23(b);14 C.F.R. §§ 61.113(a) & (b);91.7

(a); 91.9 (b) (2);91.103(b);91.109; 91.119; 91.121; 91.151(a);91.203(a) and (b); 91.405 (a); 91.407 (a) (1); 91.409 (a) (2); 91.409 (a) (2) and 91.417 (a) & (b) to operate commercially a small unmanned vehicle (55lbs or less) in construction operations.

Approval of exemptions allowing commercial operations of sUASs in the construction

industry enhances safety while reducing risk. Manned aircraft monitoring and surveying creates a greater risk because the craft are much larger, have combustible fuel, and carry an onboard human pilot. In contrast, a sUAS weighing fewer than 10 lbs. and powered by batteries eliminates virtually all of that risk given the reduced mass and lack of combustible fuel carried on board. The sUAS will carry no passengers or crew and, therefore, will not expose them to the risks associated with manned aircraft flights.

The operation of small UASs, weighting less than 10 lbs., conducted in the strict conditions outlined above, will provide an equivalent level of safety supporting the grant of the exemptions requested herein, including exempting the applicant from the requirements of Part 21 and allowing commercial operations. These lightweight aircraft operate at slow speeds, close to the ground, and in a sterile environment and, as a result, are far safer than conventional operations conducted with turbine helicopters operating in close proximity to the ground and people.

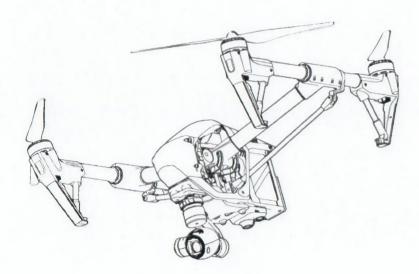
Privacy

All flights will occur over private or controlled access property with the property owner's prior consent and knowledge. Images taken will be of individuals who have also consented to being filmed or otherwise have agreed to be in the area where aerial photography will take place.

Satisfaction of the criteria provided in Section 333 of the Reform Act of 2012--size, weight, speed, operating capabilities, proximity to airports and populated areas and operation within visual line of sight and national security – provide more than adequate justification for the grant of the requested exemptions allowing commercial operation of applicant's UASs in construction industry pursuant to the Manual appended hereto.

INSPIRE 1

User Manual (V12)





Using this manual

Legends

O Warring

↑ Important

:O: Hints and Tips

Reference

Before Flight

The following tutorials and manuals have been produced to ensure you to make full use of your Inspire 1.

- 1.Disclaimer
- 2.In the Box
- 3.Inspire 1 Quick Start Guide
- 4. Salety Guidelines
- 5.Inspire 1 User Manual
- 6.Intelligent Flight Battery Safety Guidelines

Watching all the tutorial videos and reading the Disclaimer before flight is recommended. Afterwards. prepare for your first flight by using the Inspire 1 Quick Start Guide. Refer to this manual for more comprehensive information.

Watch the video tutorials

Please watch the tutorial video below to learn how to use Inspire 1 correctly and safely: www.dji.com/product/inspire-1/video



Download the DJI Pilot app

Download and install the DJI Pilot app before use. Scan the QR code or visit "http://m.dj.net/djipilot" to download the app.



For the best experience, use mobile device with Andriod V 4.1.2 or above. Requires iOS 8.0 or later.

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Critical Error

Return to Home (RTH)

B: - Solid Red

The Return to Home (RTH) brings the aircraft back to the last recorded Home Point. There are three cases that will trigger RTH procedure; they are Smart RTH, Low Battery RTH and Failsafe RTH.

Right ---- Red and Yellow Flash Alternatively Compass Calibration Required

83	GPS	Description
Home Point	× _{at}	The Home Point is the location at which your aircraft takes off when the GPS signal is strong. You can view the GPS signal strength through the GPS icon (🗞 🖟). If you are using the Dynamic Home Point setting, the Home Point will be updated to your current position as you move around and when the Aircraft Status Indicator blinks green.

Smart RTH

Using the RTH button on the remote controller (refer to "RTH button" on P28 for more information) or the RTH button in the DJI Pilot app when GPS is available to enables smart RTH. The aircraft return to the latest recorded Home Point, you may control the aircraft's orientation to avoid collision during the Smart RTH. Press the Smart RTH button once to start the process, press the Smart RTH button again to exit Smart RTH and regain the control.

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Low Battery RTH

The low battery level failsafe is triggered when the DJI Intelligent Flight Battery is depleted to a point that may affect the safe return of the aircraft. Users are advised to return home or land the aircraft immediately when these warnings are shown. DJI Pilot app will advise user to return the aircraft to the Home Point when low battery warning is triggered. Aircraft will automatically return to the Home Point if no action is taken after 10 seconds countdown. User can cancel the RTH by pressing once on the RTH button. The thresholds for these warnings are automatically determined based on the current aircraft altitude and its distance from the Home Point.

Aircraft will land automatically if the current battery level can only support the aircraft to land to the ground from the current attitude. User can use the remote controller to control the aircraft's orientation during the landing process.

The Battery Level Indicator is displayed in the DJI Pilot app, and is described below



Battery level indicator

Battery Level Warning	Remark	Aircraft Status Indicator	DJI Pilot app	Flight Instructions
Low battery level warning	The battery power is low. Please land the aircraft.	Aircraft status indicator blinks RED slowly.	Tap "Go-home" to have the aircraft return to the Home point and land automatically, or "Cancel" to resume normal flight. If no action is taken, the aircraft will automatically go home and land after 10 seconds. Remote controller will sound an alarm.	Fly the aircraft back and land it as soon as possible, then stop the motors and replace the battery.
Critical Low battery level warning	The aircraft must land immediately.	Aircraft status indicator blinks RED quickly.	The DJI Pilot app screen will flash red and aircraft starts to descend. Remote controller will sound an alarm.	The aircraft will begin to descend and land automatically.
Estimated remaining flight time	Estimated remaining Hight based on current battery level.	N/A	N/A	N/A

- . When the critical battery level warning activates and the aircraft is descending to land automatically, you may push the throttle upward to hover the aircraft and navigate it to a more appropriate location for landing.
- · Color zones and markers on the battery level indicator reflect estimated remaining flight time and are adjusted automatically, according to the aircraft's current status.

Failsafe RTH

Failsafe RTH is activated automatically if remote controller signal (including video relay signal) is lost for more than 3 seconds provided that Home Point has been successfully recorded and compass is working normally. Return home process may be interrupted and the operator can regain control over the aircraft if a remote controller signal is resumed.

Failsafe Illustration



- Aircraft automatically descends and lands if RTH is triggered when the aircraft flies within a 20 meter (65 feet) radius of the Home Point.
 - · Aircraft cannot avoid obstruction during the Failsafe RTH, therefore it is important to set an reasonable Failsafe altitude before each flight. Launch the DJI Pilot app and enter "Camera" view and select "MODF" to set the Failsafe altitude.
 - · Aircraft will stop ascending and immediately return to the Home Point if you move the throttle stick if the aircraft reaches 20 m altitudes or beyond during Failsafe.

Dynamic Home Point

Dynamic home point is useful in situations when you are in motion and require a Home Point that is different from the takeoff point. GPS module is located at the position shown in the figure below:

A Ensure the space above the GPS module is not obstructed when using Dynamic Home Point.



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There are two options for Dynamic Home Point.

- 1. Set the aircraft current coordinate as the new Home Point.
- 2. Set the remote controller's coordinate as the new Home Point.

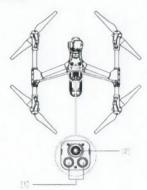
Setting Up Dynamic Home Point

Follow the steps below to setup Dynamic Home Point:

- 1. Connect to the mobile device and faunch the DJI Pilot app and go to the "Camera" page.
- 2. Tap "Q" and select "d", to reset the remote controller's coordinates as the new Home Point.
- 3. Tap of and select of to reset the arcraft's coordinates as the new Home Point.
- 4. The aircraft status indicator blinks green to show Home Point is set successfully.

Vision Positioning System

DJI Vision Positioning is a positioning system that uses ultrasonic and image data to help the aircraft identify its current position. With the help of Vision Positioning, your Inspire 1 can hover in place more precisely and fly indoors or in other environments where there is no GPS signal available. The main components of DJI Vision Positioning are located on the bottom of your Inspire 1, including [1]two sonar sensors and [2] one monocular camera.



Using Vision Positioning

Vision Positioning is activated automatically when the Inspire 1 is powered on. No manual action is required. Vision Positioning is typically used in the indoor environment where no GPS is available. By using the sensors on the Vision Positioning system, Inspire 1 can perform precision hovering even when no GPS is available.



- 1. Toggle the switch to "P" as shown the figure to the right:
- 2. Place the Insoire 1 on a flat surface. Notice that the Vision Positioning system cannot work properly on surfaces without pattern variations.
- 3. Power on the Inspire 1. The aircraft status indicator will flash twice in green light. which indicates the Vision Positioning system is ready. Gently push the throttle up to lift off, and the Inspire 1 will hover in place.



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↑ The performance of your Inspire 1's Vision Positioning System is subject to the surface you are flying over. The ultrasonic waves may not be able to accurately measure the distance over sound absorbing materials, and the camera may not function correctly in suboptimal environments. The aircraft will switch from "P" mode to "A" mode automatically if both GPS and Vision Positioning System are not available. So operate the aircraft cautiously when in any of the following situations:

- Flying over monochrome surfaces (e.g. pure black, pure white, pure red, pure green).
- · Flying over a highly reflective surfaces.
- · Flying at high speeds(over 8m/s at 2 meters or over 4m/s at 1 meter).
- · Flying over water or transparent surfaces.
- · Flying over moving surfaces or objects.
- . Flying in an area where the lighting changes frequently or drastically.
- Flying over extremely dark (lux < 10) or bright (lux > 10,000) surfaces.
- · Flying over surfaces that can absorb sound waves (e.g. thick carpet).
- Flying over surfaces without clear patterns or texture.
- · Flying over surfaces with identical repeating patterns or textures (e.g. tiles with same design).
- . Flying over inclined surfaces that will deflect sound waves away from the aircraft.
- . In the event of loss of remote controller's signal, the aircraft will hover for 8 seconds and then auto-land if it is in "P" mode.



- · Keep the sensors clean at all times. Dirt or other debris may adversely affect the effectiveness of the sensors
 - . The effective hovering altitudes of the aircraft is from 0 to 2.5 meters.
 - · Vision Positioning system may not function properly when the aircraft is flying over water.
 - . Vision Positioning system may not be able to recognize pattern on the ground in low light conditions (less than 100iux).
 - . Do not use other ultrasonic devices with frequency of 40 KHz when Vision Positioning system is
 - . Vision Positioning system may not be able to stabilize the aircraft when flying close to the ground (below 0.5 meters) in last speed.



Keep the animals away from the aircraft when Vision Positioning system is activated. The sonar sensor emits high frequency sound that is only audible to some animals.

Flight Recorder

Flight data is automatically stored in the internal storage device of the aircraft. User can gain access to these data through the DJI Pilot app. This includes flight duration, orientation, distance, aircraft status information, speed, and other parameters.

Attaching and Detaching the Propellers

Use only DJI approved propellers with your Inspire 1. The grey or black nut on the propeller indicates the rotation direction of the propeller and where it should be attached. To attach the propellers properly,

INSPIRE 1 User Manual

match the nut with the dots on the motors of your Inspire 1:

Propellers	Grey cap(1345)	Black cap(1345R)
Figure		
Attach On	Motors without a black dot	Motors with a black dot
Legends		e indicated direction to mount and tighten the indicated direction to loosen and remove

Attaching the Propellers

1. Attach the propellers with a grey nut onto a motor without a black dot and spin the propellers clockwise to secure them in place. Attach the propellers with a black nut onto a motor with a black dot and spin the propellers counter clockwise to secure its position. Be sure to completely tighten each propeller by hand before flight.





- Ensure propellers are attached to its corresponding motors, otherwise the aircraft cannot take off.
 - · Handling the propellers with care.
 - . Manually tighten each of the propellers on the corresponding motors to ensure it is attached firmly.

Detaching the Propellers

Hold the motor still. Then spin the propeller in the unlock direction indicated on the propeller itself.

Detaching 1345s Quick-Release Propellers

Press the 1345s Quick-Release propellers downward firmly then rotate the propeller in the unlock direction to unlock the propellers.



- Check that the propellers and motors are installed correctly and firmly before every flight.
 - · Ensure that all propellers are in good condition before each flight. DO NOT use old, chipped, or broken propellers
 - To avoid injury, STAND CLEAR of and DO NOT touch propellers or motors when they are spinning.
 - · ONLY use original DJI propellers for a better and safer flight experience.

DJI Intelligent Flight Battery

The DJI Intelligent Flight Battery has a capacity of 4500mAh, voltage of 22.2V, and smart chargedischarge functionality. It can only be charged with an appropriate DJI approved charger,





Intelligent Flight Battery

18 @ Silte Call At Rights Reserved

Flight

Once pre-flight preparation is complete, it is recommended to use the flight simulator to learn how to fly safely. Ensure that all flights are carried out in a suitable location.

Flight Environment Requirements

- 1. Do not use the aircraft in severe weather conditions. These include wind speed exceeding 10m/s snow, rain and smod.
- 2. Only fly in open areas. Tall buildings and steel structures may affect the accuracy of the on-board compass and GPS signal.
- 3. Avoid from obstacles, crowds, high voltage power lines, trees or bodies of water.
- 4. Minimize electromagnetic interference by not flying in area with high levels of electromagnetism. including mobile phone base stations or radio transmission towers.
- 5. Aircraft and battery performance is subject to environment factor such as air density and temperature. Be very careful when flying 14700 feet (4500 meters) or more above sea level as battery and aircraft performance may be reduced.
- The Inspire 1 cannot operate within the polar areas in "P" mode.

Flight Limits and Flight Restriction Area

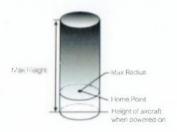
Flight limits on height and distance can be set. The details of these flight limits are described in the following section.

All unmanned aerial vehicle (UAV) operators should abide by all regulations from such organizations as the ICAO (International Civil Aviation Organization), FAA and their own national airspace regulations, For safety reasons, the flight limits function is enabled by default to help users use this product safety and legally. The flight limits function includes height limits, distance limits and No Fly Zones.

When operating in P Mode, height, distance limits and No Fly Zones work together to manage flight. In A mode only height limits work and flights cannot go higher than 120 meters.

Max Height & Radius Limits

Max Height & Radius limit flying height and distance, and the user may change these settings in the DJI Pilot App. Once complete, your Inspire 1 will fly in a restricted cylinder that is determined by these settings. The tables below show the details of these limits.



INSPIRE 1 User Manual

GPS Signal Stron	ng G ····· Blinking Green		
	Flight Limits	DJI Pilot App	Aircraft Status Indicator
Max Height	Flight altitude must be under the set height.	Warning: Height limit reached.	None.
Max Radius	Flight distance must be within the max radius.	Warning: Distance limit reached.	Rapid red flashing as when close to the max radius limit.

GPS Signal V	Veak Y Blinking Yellow		
	Flight Limits	DJI Pilot App	Aircraft Status Indicator
Max Height	Flight height restricted to 120m and under.	Warning: Height limit reached.	None
Max Radius	No limits		



- ♠ If you fly out of the limit, you can still control the Inspire 1, but cannot fly it further.
 - . If the Inspire 1 flies out of the max radius in Ready to Fly (non-GPS) mode, it will fly back within range automatically.

No-Fly Zones

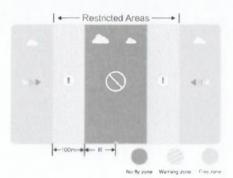
All No-Fly Zones are listed on the DJI official website at http://flysafe.diji.com/no-fly. No-Fly Zones are divided into Airports and Restricted Areas, Airports include major airports and flying fields where manned aircraft operate at low altitudes. Restricted Areas include borders between countries or sensitive sites. The details of the No-Fly Zones are explained below:

Airport:

- (1) Airport No-Fly Zones are comprised of Takeoff Restricted Zones and Restricted-Altitude Zones. Each zone features circles of various size.
- (2) R1 depends on the size and shape of the airport, and is an area around the airport that is a Takeoff Restricted Zone, inside of which take-off and flight is prevented.
- (3) From RI to R1+1 mile around the airport, the flight altitude is limited on a 15 degree incline, starting at 65 feet (20 meters) from the edge of airport and radiating outward. The flight altitude is limited to 1640 feet (500 meters) at R1+1 mile.
- (4) When the aircraft is within 320 feet (100 meters) of the No-Fly Zones, a warning message will appear in the DJI Pilot app.

Restricted Areas:

- (1) Restricted Areas do not have a flight altitude restriction.
- (2) R around the designated Restricted Area is a Take-off Restricted area. Aircraft cannot takeoff within this zone. The value of R varies depending on the definition of the Restricted Area.
- (3) A "warning zone" has been set around each Restricted Area. When the aircraft is within 0.6 miles (1 km) of this zone, a warning message will appear in the DJI Pilot app.



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Zone	Restriction	DJI Pilot App Prompt	Aircraft Status Indicator
No-fly Zone	Motors will not start.	Warning: You are in a No-fly zone. Take off prohibited.	
	If the aircraft enters the restricted area in A mode but P mode activates the aircraft will automatically descend to land then stop its motors after landing.	Warning: You are in a No-fly zone, automatic landing has begun. (If you are within 1.5 mile radius)	
Restricted- altitude flight zone	If the aircraft enters the restricted area in A mode but P mode activates, it will descend to a safe altitude and hover 15 feet below the safe altitude.	Warning. You are in a restricted zone. Descending to safe altitude. (If you are between the range of 1.5 mile and 5 mile radius) Warning: You are in a restricted zone. Max flight height restricted to between 10.5m and 120m. Fly Cautiousty.	Red Itashing
Warning zone	No flight restriction applies, but there will be warning message.	Warning: You are approaching a restricted zone, Fly Cautiously.	
Free zone	No restrictions.	None.	None.

- Sem-automatic descent: All stick commands are available except the throttle stick command during the descent and landing process. Motors will stop automatically after landing.
- When flying in the safety zone, aircraft status indicator will blink red quickly and continue for 3 seconds, then switch to indicate current flying status and continue for 5 seconds at which point it will switch back to red blinking,
 - · For safety reasons, please do not fly close to airports, highways, railway stations, railway lines, city centers and other special areas. Try to ensure the aircraft is visible.

- 1. Remote controller, aircraft battery, and mobile device are fully charged.
- 2. Propellers are mounted correctly and firmly.
- 3. Micro-SD card has been inserted if necessary.
- 4. Gimbal is functioning as normal.
- 5. Motors can start and are functioning as normal.
- 6. DJI Pilot app connected to the aircraft.

Calibrating the Compass

IMPORTANT: Make sure to calibrate the compass in every new flight location. The compass is very sensitive to electromagnetic interference, which can cause abnormal compass data leading to poor flight performance or even failure. Regular calibration is required for optimum performance.

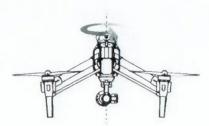


- DO NOT calibrate your corripass where there is a chance of strong magnetic interference, such as magnetite, parking structures, and steel reinforcements underground.
 - . DO NOT carry terromagnetic materials with you during calibration such as keys or cellular
 - · DO NOT calibrate beside massive metal objects.

Calibration Procedures

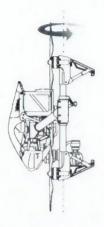
Choose an open space to carry out the following procedures.

- 1. Ensure that the compass is calibrated. If you did not calibrate the compass as part of your pre-flight preparations, or if you have moved to a new location since the last calibration, tap Aircraft Status Indicator bar in the app and select "Calibrate", then follow the on-screen instructions.
- 2. Hold and rotate the aircraft horizontally 360 degrees, and the Aircraft Status Indicator will display a solid green light.



INSPIRE 1 User Manual

3. Hold the aircraft vertically with nose pointing downward, and rotate it 360 degrees around the center axis. Recalibrate the compass if the Aircraft Status Indicator show solid red.



- A If the Aircraft Status Indicator blinks red and yellow after the calibration, move your aircraft to a different location to carry out compass calibration.

(Ö): Calibrate the compass before each flight. Launch DJI Pilot App, follow the on-screen instruction to calibrate the compass.

When to Recalibrate

- 1. When compass data is abnormal, and the Aircraft Status Indicator is blinking red and yellow
- 2. When flying in a new location, or a location that is different from your last flight.
- 3. When the mechanical structure of the Inspire 1 has changed, i.e. changed mounting postion of the
- 4. When severe drifting occurs in flight, i.e. the Inspire 1 does not fly in straight lines.

Auto Take-off and Auto Landing

Auto Take-off

Use auto take-off to take off your aircraft automatically if the Aircraft Status Indicator displays blinking green. Follow the steps below to use auto take-off:

- 1. Launch DJI Pilot app, enter "Camera" page.
- 2. Ensure the aircraft is in "P" mode.
- 3. Go through the pre-flight checklist.
- 4. Tap" \(\Delta \), and confirm flight condition. Slide to confirm and take-off.
- 5. Aircraft takes off and hovers at 1.5 meters above ground.

Use auto-landing to land your aircraft automatically if the Aircraft Status Indicator displays blinking green. Follow the steps below to use auto-landing:

- t. Ensure the aircraft is in "P" mode.
- 2. Check the landing area condition before tapping "\ddg", to perform landing.
- 3. Aircraft lowers the landing gear and proceed to land automatically.



(5) Landing gear will automatically raise when the aircraft reaches an altitude of 1.2m for the first time, and automatically lower every time it descends to 0.8m. Users can turn this feature ON/OFF in the Pilot app.

Starting/Stopping the Motors

Starting Motors

The Combination Stick Command (CSC) listed below are used to start the motors instead of simply pushing the stick up. Ensure that you perform the CSC in one motion.











Stopping Motors

There are two methods to stop the motors.

Method 1; When the Inspire 1 has landed, push the throttle down (i), then conduct CSC (ii). Motors will stop immediately. Release both sticks once motors stop.

Method 2: When the aircraft has landed, push the throttle down and hold. The motors will stop after 3 seconds.















⚠ Do not perform CSC when aircraft is in midair, otherwise the motors will be stopped.

Flight Test

Take off/Landing Procedures

- 1. Place the aircraft on open, flat ground with battery indicators facing towards you.
- 2. Power on the remote controller and your mobile device, then the Intelligent Flight Battery.
- 3. Launch the DJI Pilot App and enter the Camera page.
- 4. Wait until the Aircraft Indicator blinks green. This means the Home Point is recorded and it is safe to fly now. If it flashes yellow, it means Home Point is not recorded, and you should not take off.
- 5. Push the throttle up slowly to take off or using Auto Take-off to take off.

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- 6. Shoot photos and videos using the DJI Pilot app.
- 7. To land, hover over a level surface and gently pull down on the throttle slowly to descend.
- 8. After landing, execute the CSC command or hold the throttle at its lowest position for 3 seconds or more until the motors stop.
- 9. Turn off the Intelligent Flight Battery first, followed by the Remote Controller.



- When the Aircraft Status Indicator blinks yellow rapidly during flight, the aircraft has entered Failsafe mode.
 - · A low battery level warning is indicated by the Aircraft Status Indicator blinking red slowly or rapidly during flight.
 - · Watch video tutorials about flight for more flight information.

Video Suggestions and Tips

- 1. Work through the checklist before each flight.
- 2. Select desired gimbal working mode in the DJI Pilot app.
- 3. Aim to shoot when flying in P mode only.
 - 4. Always lly in good weather, such as sunny or windless days.
 - 5. Change camera settings to suit you. These include photo format and exposure compensation.
 - 6. Perform flight tests to establish flight routes and scenes.
 - 7. Push the sticks gently to make aircraft movements stable and smooth.

14. What flight controller does the Inspire 1 use?

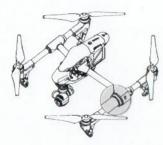
The Inspire 1 uses its own new flight controller.

15. Which motors and propellers does the Inspire 1 come with?

The Inspire 1 uses 3510 motors and 1345 propellers.

16. Aircraft frame arm joints appear loosen, is that normal?

The space of the joins shown in the below figure is normal and it will not affect the performance of aircraft, do not adjust the position of the screws on your own.



17. Failed to complete self-check?

Place the aircraft on the flat surface before powering on. Do not move the aircraft during the selfcheck.

Appendix

Specifications

Aircraft		
Model	T600	
Weight (Battery Included)	2935 g	
Hovering Accuracy (P Mode)	Vertical: 0.5 m Horizontal: 2.5 m	
Max Angular Velocity	Pitch: 300°/s Yaw: 150°/s	
Max Tilt Angle	35°	
Max Ascent Speed	5 m/s	
Max Descent Speed	4 m/s	
Max Speed	22 m/s (ATTI mode, no wind)	
Max Flight Altitude	4500 m (T.O. & LN)	
Max Wind Speed Resistance	to m/s	
Max Flight Time	Approximately 18 minutes	
Motor Model	DJI 3510	
Propeller Model	DJI 1345	
Indoor Hovering	Enabled by default	
Operating Temperature Range	-10° to 40° C	
Diagonal Distance	559 to 581 mm	
Dimensions	438x451x301 mm	
Gimbal		
Model	ZENMUSE X3	
Output Power (With Camera)	Static: 9 W; In Motion: 11 W	
Operating Current	Station: 750 mA; Motion, 900 mA	
Angular Vibration Range	±0.03°	
Mounting	Detachable	
Controllable Range	Pitch: -90° to +30° Pan: ±320°	
Mechanical Range	Pitch: -125° to +45° Pan: ±330°	
Max Controllable Speed	Pitch: 120°/s Pan: 180°/s	

INSPIRE	1	User	Manua
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Camera	
Name	Х3
Model	FC350
Total Pixels	12.76M
Effective Pixels	12.4M
Image Max Size	4000x3000
ISO Range	100-3200 (video) 100-1600 (photo)
Electronic Shutter Speed	8 s to 1/8000 s
FOV (Field Of View)	94°
CMOS	Sony EXMOR 1/2.3°
	20mm (35mm format equivalent) f/2.8 focus at ∞)
Lens	9 Elements in 9 groups
	Anti-distortion
	Single shoot
	Burst shooting: 3/5/7 frames
Still Photography Modes	Auto Exposure Bracketing (AEB): 3/5 bracketed frames at
	0.7EV Bias
	Time-lapse
	UHD (4K): 4096x2160p24/25, 3840x2160p24/25/30
Video Recording Modes	FHD: 1920x1080p24/25/30/48/50/60
	HD: 1280x720p24/25/30/48/50/60
Max Bitrate DI Video Storage	60 Mbps
	FAT32/exFAT
Supported File Formats	Photo: JPEG, DNG
	Video: MP4/MOV (MPEG-4 AVC/H.264)
Supported SD Card Types	Micro SD
	Max capacity: 64 GB. Class 10 or UHS-1 rating required.
Operating Temperature Range	0° to 40° C
Remote Controller	
Name	CI
Operating Frequency	922.7MHz~927.7 MHz (Japan Only)
operating roducing,	5.725~5.825 GHz;2.400~2.483 GHz
Transmitting Distance	2 km (Outdoor And Unobstructed)
EIRP	10dBm@900m, 13dBm@5.8G, 20dBm@2.4G
Video Output Port	USB. Mini-HDMI
Power Supply	Built-in battery
Charging	DJI charger
Dual User Capability	Host-and-Slave connection

Mobile Device Holder	Tablet or Smart Phone
Output Power	9 W
Operating Temperature Range	-10° to 40° C
Storage Temperature Range	Less than 3 months: -20° to 45° C
Storage remperature name	More than 3 months: 22° to 28° C
Charging Temperature Range	0-40° C
Battery	6000 mAh LiPo 2S
Charger	
Model	A14-100P1A
Voltage	26.3 V
Rated Power	100 W
Battery (Standard)	
Name	Intelligent Flight Battery
Model	1847
Capacity	4500 mAh
Voltage	22.2 V
Battery Type	LiPo 6S High voltage battery
Energy	99.9 Wh
Net Weight	570 g
Operating Temporature Range	-10° to 40° C
Storage Temperature Range	Less than 3 months: -20° to 45° C
olologo vamporataro mango	More than 3 months: 22° C to 28° C
Charging Temperature Range	0° to 40° C
Max Charging Power	180 W
Battery (Optional)	
Name	Intelligent Flight Baltery
Model	TB48
Capacity	5700 mAh
Voltage	22.8 V
Baltery Type	LiPo 6S
Energy	129.96 Wh
Net Weight	670 g
Operating Temperature Range	-10 to 40° C
Storage Temperature Range	Less than 3 months: -20 to 45° C More than 3 months: 22° to 28° C
Charging Temperature Range	0° to 40° C

INSPIRE 1	User	Manual
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Max Charging Power	180 W
Vision Positioning	
Velocity Range	Below 8 m/s (2 m above ground)
Altitude Rango	5-500 cm
Operating Environment	Brightly lit (fux > 15) patterned surfaces
Operating Range	0-250 cm
DJI Pilot App	
Mobile Device System Requirements	iOS version 7.1 or later. Android version 4.1.2 or later
Supported Mobile Devices	* iPhone 6 Plus, iPhone 6, iPhone 5S, iPad Air 2, iPad Mini 3, iPad Air, iPad Mini 2, iPad 4;* Samsung Note 3, Samsung S5, Sony Z3 EXPERIA;* Note: It is recommended that you use a tablet for the best experience

Intelligent Orientation Control (IOC)

ICC allows users to look the orientation of aircraft in different fashions. There are three working modes for IOC and you may select the desired IOC modes from the DJI Pilot app. IOC only works under F mode, and user must toggle the flight mode switch to "F" mode to activate IOC. Refer to the table below:

Course Lock (CL)	Its forward direction is pointing to the nose direction when recording, which is fixed until you re-record it or exit from CL.
Home Lock (HL)*	Record a Home Point (HP), and push Pitch stick to control the aircraft far from or near to the HP.
Point of Interest (POI)*	Point of Interest. Record a point of interest (POI), the aircraft can circle around the POI, and the nose always points to the POI.



:Ö: "Home Lock and Point of Interest feature are coming soon.

Prerequisites of IOC

Use the IOC feature under the following condition:

Modes IOC	GPS enabled	GPS	Flight Distance Limits
Course Lock	No	None	None
Home Lock	Yes	3× m	Aircraft <u>→ ≥10m</u> Home Point
POI	Yes	35 ml	Aircraft5m-500m. Point of Interest

Using IOC

Enable the IOC feature by tapping "Enable IOC" in the setting page of the DJI Pilot app. Toggle the Flight Mode Switch to "F" mode and follow the on-screen instruction to use IOC feature.

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Updating the Aircraft Firmware

Step 1- Check Battery and SD Card Capacity

Ensure the Intelligent Flight Battery has at least 50% power and there is at least 100MB of free space on the SD card.

Step 2- Prepare the Firmware Update Package

- 1. Download the firmware update package from the official DJI website (http://www.dji.com/product/ inspire-1).
- 2. Insert the SD into your PC. Extract the all downloaded files into the root directory of the SD card. Remove the SD card from your PC. Ensure the Inspire 1 is powered off then insert the SD card into the SD card slot on the Inspire 1 camera.

Step 3- Update the Aircraft

- 1. Ensure the remote controller is powered off and then power on the aircraft. Upgrade will begin automatically after aircraft is powered on.
- 2. It will take approximately 25 minutes to complete the firmware update. The camera with sound a short pulse of "D-D-D-D" beeping sound to indicate the upgrade is in progress and sound a "D---DD" beeping sound to indicate the update is complete with success.
- 3. Check the upgrade status by opening the ".txt" file that is automatically generated after the update. The update is successful if the text "result; successful" is in the document. Try upgrading the firmware again if the text "result: failed" is found or the gimbal sound a long beep sound.

Updating the Remote Controller Firmware

Step 1- Check Battery and SD Card Capacity

Remote controller firmware is included in the aircraft firmware update package. Use the same update package file that is downloaded from the DJI official website. Ensure the remote controller battery level is above 50%.

Step 2- Prepare the Firmware Update Package

- 1. Extract all downloaded files into the root directory of an SD card or USB thumb drive.
- 2. Insert the SD card into a SD card reader or the USB disk onto the remote controller USB port when remote controller powered off. If you do not have a SD card reader, you may insert the SD card into the gimbal and connect the gimbal with remote controller to upgrade the remote controller.

Step 3- Update the Remote Controller

- 1. Power on the remote controller and wait 60 seconds until the upgrade begins. Do not power off the remote controller during the update.
- 2. It will take approximately 10 minutes to complete the firmware update. The camera will sound a beeping sound and the Status LED on the remote controller shows solid blue to indicate the update is in progress. The Status LED on remote controller shows solid green and beeping sound will stop if the upgrade is completed with success. The Status LED on remote controller shows solid red if upgrade is failed. Try upgrade again.

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Updating Intelligent Flight Battery Firmware

The Intelligent Flight Battery is upgraded during the aircraft firmware upgrade process. It is recommended to keep the upgrade package files in your SD card. The upgrade will start automatically after power cycling the aircraft.

- ♠ Do not perform firmware update while the aircraft is still flying in the air. Only carry out firmware update when the aircraft is landed.
 - . Be sure to update the remote controller's firmware to the latest version after you upgrade the aircraft's timware.
 - . The remote controller may become unlinked from the aircraft after updating. Re-link the remote controller and aircraft.
 - . Confirm the update results according to the gimbal sounds. It is normal for the aircraft to sound or the LED to blink during the update process.
 - . Ensure there is only one firmware package file stored on your SD card.
 - · Only storage devices that are formatted for FAT32 and exFAT file systems are supported for aircraft and remote controller firmware updates.
 - . Delete any automatically generated txt files (xxx_GS.TXT) in the SD card when updating multiple remote controllers

FCC Compliance

FCC Compliance

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly roved by the party responsible for compliance could void the user's authority to operate the equipment.

Compliance Information

FCC Warning Message

Any Changes or modifications not expressly roved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator& your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device. pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio Irrequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- -Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/TV technician for help.

IC RSS warning

This device complies with Industry Canada licence-exempt RSS standard (s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent areil est conforme aux CNR d'Industrie Canada licables aux areils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'areil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'areil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en comprometire le fonctionnement.

IC Radiation Exposure Statement:

This equipment complies with IC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with minimum distance 20cm between the radiators.

Any Changes or modifications not expressly roved by the party responsible for compliance could void the user's authority to operate the equipment.

KCC Warning Message

- "해당무선설비는 운용 중 전파혼신 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없습니다."
- "해당 무선설비는 운용 중 전파혼신 가능성이 있음"

NCC Warning Message

低功率電波輻射性電機管理辦法

第十二條經型式認證合格之低功率射頻電機,非經許可、公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應改善至無 干擾時万得繼續使用。前項合法通信,指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法 通信或工業、科學及醫療用電波輻射性電機設備之干擾。 Appendix

The content is subject to change.

Download the latest version from

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OMB Control No. 2120-0042 Exp. 11/30/2014

FOR Info Only

Paperwork Reduction Act Statement: The information collected on this form is necessary to ensure applicant eligibility. The information is used to determine that the applicant meets the necessary qualifications as owner of an amateur built aircraft. We estimate that it will take approximately 30 minutes to complete the form. The information collection is required to obtain a benefit. The information collected becomes part of the aircraft registration system. Please note that an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. OMB 2120-0042. Comments covering the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Avenue SW, Washington, DC 20591. ATTN: Information Collection Clearance Officer, AES-200.

AFFIDAVIT OF OWNERSHIP FOR AMATEUR-BUILT AND OTHER NON-TYPE CERTIFICATED AIRCRAFT

(does not include light-sport)

U. S. Identification N number applied for.
Name of Amateur / Non TC'd builder DJI
Model Inspire 1 M T600 Serial Number W13 DCD 25030979
Class (airplane, rotorcraft, glider, weight shift control, powered-parachute, etc.)
Type of Engine Installed (reciprocating, turboprop, 2 or 4 cycle, electric, etc.) Electric (4)
Manufacturer, Model and Serial Number of each Engine Installed DJI Inspire 1: S/N NA
Number of Engines Installed 4
Built for Land or Sea Operation Land Number of Seats 0
MUST CHECK ONE
More than 50% of the above-described aircraft was built from miscellaneous parts and I am the owner. (This option is for aircraft eligible for amateur-built certification.)
More than 50% of the above-described aircraft was built from a kit (prefabricated parts) and I am the owner. The bill of sale from the kit manufacturer is attached. (This option is for aircraft eligible for amateur-built certification.)
I certify that the above-described aircraft is a newly built non-type certificated aircraft and is not currently registered in another country. (This option is for aircraft eligible for experimental certification other than amateur-built.)
I certify that the above-described aircraft is a previously built (used) non-type certificated aircraft and is not currently registered in another country. (This option is for aircraft eligible for experimental certification other than amateur-built certification.) Evidence of ownership from the aircraft builder through any intervening owners is attached (chain of ownership). Unable to obtain complete chain of ownership. Statement as to ownership history and whereabouts of aircraft is attached.
Name of Owner: Lee Lewis Construction, Inc.
Signature of Owner: Title of Signer (If Appropriate): Chief Pilot
Address: 7810 Orlando Ave
City: Lubbock State: TX Zip: 79423
Telephone: 806-535-5400
Notary Public:
State of: County of:
Subscribed and sworn to before me this day of,
My Commission Expires:
(Signature of Notary Public)