



**GOVERNMENT OF INDIA  
DIRECTORATE GENERAL OF CIVIL AVIATION  
DRONE DIRECTORATE**

**TYPE CERTIFICATE**

No.: T0524000001P

This certificate, issued to **M/s NEXTLEAP AERONAUTICS PRIVATE LIMITED** certifies that the Unmanned Aircraft System

**"Leap A10"**

*its technical specifications and operating limitations for which are contained in Datasheet No **T0524000001P** dated **6th May, 2024** is of proper design, material, specification, construction and performance for safe operation based on the recommendation of **TQ Cert Services Private Limited** as required by the Certification Scheme for Unmanned Aircraft Systems notified by the Ministry of Civil Aviation vide S.O. 347(E) dated the 26th of January, 2022.*

*This Type Certificate is issued under the provision of Rule 8 and Rule 9 (3) of the Drone Rules 2021.*

*This certificate shall remain valid until suspended or cancelled.*

**Date: 6th May, 2024**

**Director General of Civil Aviation**

**Technical Specifications Of M/S NEXTLEAP AERONAUTICS PRIVATE LIMITED's UAS  
Model Leap A10**

Manufacturer Name	NEXTLEAP AERONAUTICS PRIVATE LIMITED
Address	NO 31 CRM NAGAR POONAMALLEE CHENNAI , Kanchipuram , TAMIL NADU , 600056 , INDIA
UAS Model Name	Leap A10
Description	Leap A10 is a rotorcraft with Hexacopter-X configuration. It has options of using either 2 Centrifugal atomizers or 4 Flat jet nozzles for spraying purposes. It is equipped with a FPV Camera and 2 Radars.
<b>UAS Details</b>	
Category/Sub-Category	rotorcraft (RPAS)
Class	MEDIUM
Maximum all-up-weight(including payload) in kg	27.51
Overall dimensions (l x b x h) in mm	2026.0 x 1822.0 x 716.0
<b>Payload Details</b>	
Details of each Compatible Payload (including Manufacturer Name, Payload Specifications with Model No., Intended Applications)	Sprayer tank with maximum allowed capacity of 10 litres or 10 Kg for spraying mode
Variable Load/Consumables (Like fluid etc., if any)	Pesticides, Organic Fertilizers, Plant Nutrients (Agro Chemicals)
<b>Power plant Details</b>	
Engine details (Manufacturer details, Model No.)	Not , Applicable
Engine/Motor	X6 Plus Hobbywing BLDC Motor
Power Rating	2399 watts
No. of Engines/ Motors	6
Total fuel capacity (kg)/ Battery capacity (mAh)	25200.0 mAh
Propeller details (Diameter, Max RPM)	Diameter - 24 inches , Pitch - 8.0 , Max RPM - 5442
<b>Equipment Details</b>	
GNSS	Available
Autonomous Flight Termination System or Return Home (RH)	Available  Available
Flashing anti-collision strobe lights	Not Available

RFID and GSM SIM Card	RFID- Not Available  GSM SIM Card- Not Available
Flight control Module	Available
SSR transponder (Mode 'C' or 'S') or ADS-B OUT equipment (if applicable)	Not Available  Not Available
Barometric equipment (with capability for remote sub-scale setting) (if applicable)	Not Available
Geo-fencing Capability	Available
Detect and Avoid Capability (if applicable)	Available
<b>Remote Pilot Station</b>	
Ground Control Station Model No.	AeroGCS Green
GCS App. Version	AeroGCS Green V1.39
<b>C2 Link</b>	
Equipment details	Skydroid T12
Frequency Band	2.420 - 2.480 GHz
ETA issued by WPC Wing, DoT	Details- ETA-SD- 20231109961 dated 3rd December, 2023
<b>Performance Details</b>	
Maximum Endurance (hr/m)	12.33 minutes
Maximum Range (in km)	1.5 Km
Maximum Speed (in m/s)	10.0 m/sec
Maximum Height attainable/ Maximum Ceiling Height (in ft)	82.021 ft
Operating Altitude (in ft)	82.021 ft
Operational Envelope	VLOS   Day
Engine limits (Maximum RPM) / Max. Battery Temperature (in deg C)	50.0 deg C
Propeller limits (Maximum)	5442 RPM
<b>Documents / Manuals</b>	
Manufacturer's Operating Manual (as applicable)	Leap A10 Agricultural UAS Flight Manual Ver. 7 dated 28th March, 2024
Manufacturer's Maintenance guidelines (as applicable)	Leap A10 Agricultural UAS Maintenance Manual Ver. 8 dated 19th April, 2024
Maintenance Inspection Schedule/Overhaul interval	Leap A10 Agricultural UAS Maintenance Manual Ver. 8 dated 19th April, 2024
Maintenance Log Book	Leap A10 Maintenance Logbook Ver. 2 dated 12th February, 2024

Flight Log Book	Leap A10 Agricultural UAS Operation Logbook Ver. 2 dated 1st April, 2024
User Guide/ Self Explanatory Information Booklet for end users	Leap A10 Agricultural UAS Flight Manual Ver. 7 dated 28th March, 2024
<b>Intended Applications</b>	
Intended Applications	Agrochemical spraying for agriculture purpose

**Limitations & Conditions to NEXTLEAP AERONAUTICS PRIVATE LIMITED for  
manufacturing of UAS Model Leap A10**

1. **M/s NextLeap Aeronautics Private Limited, Chennai** henceforth referred as manufacturer in this documents shall comply with the applicable Rules, Regulations & Requirements issued from time to time. The manufacturer shall comply with mandatory safety features (if any) as and when mandated by Ministry of Civil Aviation/DGCA.
2. Design documents and manuals submitted shall be frozen and controlled. Any changes effecting to the Type Certificate/Data sheet, the manufacturer shall approach through Authorised Testing Entity for updation of the Type Certificate/Data Sheet issued there under.
3. Manufacturer shall be responsible for all UAS Model “**Leap A10**” produced by them conforms to this type certificate & data sheet and shall issue a certificate of conformity for each UAS produced.
4. Manufacturer shall ensure that their UAS is not tampered at the time of sale and also at the time of maintenance. Manufacturer shall monitor the same and notified to DGCA as and when required.
5. Manufacturer shall maintain list of their vendors, bill of materials, inventory of UAS including buyer details with configurations sold to them etc. and access to the same shall be provided to DGCA during surveillance and as & when requested for. It shall be the responsibility of the manufacturer to ensure that their UAS are sold to bonafide customers.
6. **Manufacturer shall ensure that operations is restricted to Visual Line of Sight & for day operations only and within the operations/ performance limitations specified in the frozen manuals.**
7. Manufacturer shall affix fireproof plate for indicating UIN, Manufacturer’s name, model no. and serial no. in all the UAS manufactured before it is transferred to the buyer.
8. Manufacturer shall intimate DGCA about any violations, defects, faults, malfunctions, incidents and accidents involving the subject UAS model quarterly and as when sought for.
9. **UAS Model “Leap A10” can be used for intended applications only. Manufacturer shall ensure that the drone is flown away (30m) from uninvolved people and not flown over the crowd/ uninvolved people.**
10. The manufacturer shall be responsible for ensuring applicable conditions and educate end users accordingly.
11. Manufacturer shall be responsible for rights related to design and development of the UAS model “**Leap A10**” and DGCA shall not be party to any dispute arising due to proprietary right issues.
12. Manufacturer shall abide by the IT Act 2000 and any subsequent revision.
13. In case of violation of any of the above mentioned conditions and/ or operating requirements & restrictions specified in this Type Certificate, penal action shall be initiated in line with the Drone Rules, 2021 and other applicable rules issued from time to time.