

GOVERNMENT OF INDIA DIRECTORATE GENERAL OF CIVIL AVIATION DRONE DIRECTORATE

TYPE CERTIFICATE

No.: T0324000001K

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

"RFLY-MICRO"

its technical specifications and operating limitations for which are contained in Datasheet No **T0324000001K** dated **26th March, 2024** is of proper design, material, specification, construction and performance for safe operation based on the recommendation of <u>UL INDIA PRIVATE LIMITED</u> 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: 26th March, 2024

Director General of Civil Aviation

Technical Specifications Of M/S RFLY INNOVATIONS PRIVATE LIMITED's UAS Model RFLY-MICRO

Manufacturer Name	RFLY INNOVATIONS PRIVATE LIMITED
Address	NO. 43, 648/17, T.V.K STREET, PADUR, CHENNAI , Kanchipuram , TAMIL NADU , 603103 , INDIA
UAS Model Name	RFLY-MICRO
Description	RFLY-MICRO is a Quadcopter Rotorcraft in Micro class having Aerial mapping and surveillance payloads.
UAS Details	
Category/Sub-Category	rotorcraft (RPAS)
Class	MICRO
Maximum all-up-weight(including payload) in kg	1.89
Overall dimensions (I x b x h) in mm	926.0 x 926.0 x 356.0
Payload Details	
Details of each Compatible Payload (including Manufacturer Name, Payload Specifications with Model No., Intended Applications)	ADTI 26 MP Mapping Camera SIYI A8 mini Surveillance Camera
Variable Load/Consumables (Like fluid etc., if any)	None
Power plant Details	
Engine details (Manufacturer details, Model No.)	NA , NA
Engine/Motor	MAD 4006 320 KV
Power Rating	268 watts
No. of Engines/ Motors	4
Total fuel capacity (kg)/ Battery capacity (mAh)	6800.0 mAh
Propeller details (Diameter, Max RPM)	Diameter - 17 inches , Pitch - 5.8 , Max RPM - 6000
Equipment Details	
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

This document is digitally signed and generated and hence, no physical signature required

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Manuals
RFLY-Micro UAS/Flight Manual Ver. Rev 02 Issue
RFLY Micro UAS Maintenance Manual Ver. Rev 2, Issue No 03 dated 12th February, 2024
RFLY Micro UAS Maintenance Manual Ver. Rev 2, Issue No 03 dated 12th February, 2024
JAS Log Book Ver. Rev 0, Issue No 01 dated 31st /larch, 2023
JAS Log Book Ver. Rev 0, Issue No 01 dated 1st March, 2023
RFLY-MICRO UAS / USER MANUAL Ver. Version: .0.0 Issue No: 01 dated 22nd March, 2023

Intended Applications	
Intended Applications	Aerial Mapping & Surveillance

Limitations & Conditions to RFLY INNOVATIONS PRIVATE LIMITED for manufacturing of UAS Model RFLY-MICRO

1. **M/ s. RFLY Innovations PvtLtd, 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/ Datasheet, the manufacturer shall approach through Authorised Testing Entity for updation of the Type Certificate/ Data Sheet issued there under.

3. Manufacture shall be responsible for all UAS Model "**RFLY-MICRO**" produced by them conforms to this type certificate & datasheet 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 " **RFLY- MICRO** " 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. The manufacturer shall be responsible for ensuring applicable conditions and educate end users accordingly.

10. Manufacturer shall be responsible for rights related to design and development of the UAS model " **RFLY-MICRO**" and DGCA shall not be party to any dispute arising due to proprietary right issues.

11. Manufacturer shall abide by the IT Act 2000 and any subsequent revision.

12. 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 Rules/ Regulations issued from time to time.