



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

TYPE CERTIFICATE
No.: T0224000001D

This certificate, issued to ***M/s Scandron Private Limited*** certifies that the Unmanned Aircraft System

"SNDCX005HHX8"

*its technical specifications and operating limitations for which are contained in Datasheet No **T0224000001D** dated **2nd February, 2024** is of proper design, material, specification, construction and performance for safe operation based on the recommendation of **UL INDIA 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: 2nd February, 2024

Director General of Civil Aviation

Technical Specifications Of M/S Scandron Private Limited's UAS Model SNDCX005HHX8

Manufacturer Name	Scandron Private Limited
Address	6th Floor, Dallas Center, Hyderabad, Telangana , K.V.Rangareddy , TELANGANA , 500032 , INDIA
UAS Model Name	SNDCX005HHX8
Description	SNDCX005HHX8 is a Hexacopter RPAS for transporting cargo over short haul distances.
UAS Details	
Category/Sub-Category	rotorcraft (RPAS)
Class	SMALL
Maximum all-up-weight(including payload) in kg	24.515
Overall dimensions (l x b x h) in mm	2429.0 x 2429.0 x 618.0
Payload Details	
Details of each Compatible Payload (including Manufacturer Name, Payload Specifications with Model No., Intended Applications)	Cargo box {with overall dimensions of 460mm (l)x 266mm(b)x 262mm(h)} made of Carbon Fibre Composite Sheets, capable of securing cargo articles and with a maximum payload capacity of 2.25 Kg.
Variable Load/Consumables (Like fluid etc., if any)	Transporting goods except any form of bulk liquid. Refer limitations and conditions mentioned at serial no. 10 & 11.
Power plant Details	
Engine details (Manufacturer details, Model No.)	Not Applicable , Not Applicable
Engine/Motor	BLDC Motor
Power Rating	2746 watts
No. of Engines/ Motors	6
Total fuel capacity (kg)/ Battery capacity (mAh)	22000.0 mAh
Propeller details (Diameter, Max RPM)	Diameter - 30 inches , Pitch - 9.0 , Max RPM - 4072
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

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)	Not Available
Remote Pilot Station	
Ground Control Station Model No.	AeroGCS KEA
GCS App. Version	Aero GCS KEA V2.3
C2 Link	
Equipment details	SKYDROID T12
Frequency Band	2420-2480 MHz
ETA issued by WPC Wing, DoT	Details- ETA-SD-20190702917 dated 25th July, 2019
Performance Details	
Maximum Endurance (hr/m)	16.4 minutes
Maximum Range (in km)	0.5 Km
Maximum Speed (in m/s)	12.0 m/sec
Maximum Height attainable/ Maximum Ceiling Height (in ft)	400.0 ft
Operating Altitude (in ft)	400.0 ft
Operational Envelope	VLOS Day
Engine limits (Maximum RPM) / Max. Battery Temperature (in deg C)	55.0 deg C
Propeller limits (Maximum)	4072 rpm
Documents / Manuals	
Manufacturer's Operating Manual (as applicable)	Scandron Flight Manual Ver. 6 dated 18th January, 2024
Manufacturer's Maintenance guidelines (as applicable)	Scandron Maintenance Manual Ver. 4 dated 13th November, 2023
Maintenance Inspection Schedule/Overhaul interval	Scandron Maintenance Manual Ver. 4 dated 13th November, 2023
Maintenance Log Book	Scandron Log Book Ver. 3 dated 29th January, 2024
Flight Log Book	Scandron Log Book Ver. 3 dated 29th January, 2024
User Guide/ Self Explanatory Information Booklet for end users	Scandron Flight Manual Ver. 6 dated 18th January, 2024

Intended Applications	
Intended Applications	'SNDCX005HHX8' is a logistics Drone mainly used for Transporting Goods except any form of Bulk Liquid. Refer limitations and conditions mentioned at serial no. 10 & 11.

**Limitations & Conditions to Scandron Private Limited for manufacturing of UAS Model
SNDCX005HHX8**

1. **M/s Scandron Private Limited, Hyderabad** 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 up-
dation of the Type Certificate/Data Sheet issued there under.
3. Manufacturer shall be responsible for all UAS Model “**SNDCX005HHX8**” 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 & 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 “SNDCX005HHX8” 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. **Carriage of arms, ammunition, explosives and military stores etc. are prohibited unless permitted by Central Government in this behalf and subject to the terms and conditions of such permission.**
11. **Carriage of dangerous goods on UAS Model “SNDCX005HHX8” is prohibited unless such operation is in compliance with Aircraft (Carriage of Dangerous Goods) Rules, 2003.**
12. The manufacturer shall be responsible for ensuring applicable condition s and educate end users accordingly.
13. Manufacturer shall be responsible for rights related to design and development of the UAS model “**SNDCX005HHX8**” and DGCA shall not be party to any dispute arising due to proprietary right issues.
14. Manufacturer shall abide by the IT Act 2000 and any subsequent revision.
15. 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.