

**STRIX** UAV



**Alpi Aviation**

**Advanced Research Division**



THE STRIX-C SYSTEM IS AN ELECTRICAL MANOEUVRE CLASS UAS UNIT AIRCRAFT WITH A MAXIMUM TAKE OFF WEIGHT OF 8.65 KG. IT CAN BE COMPLETELY DISASSEMBLED, TRANSPORTED AND OPERATED BY A SINGLE PERSON. MOREOVER, IT IS COMPLETELY SILENT AND INVISIBLE TO THE HUMAN EYE. IT CAN BE LAUNCHED BY HAND OR CATAPULT AND HAS BEEN SPECIFICALLY DESIGNED FOR MANOEUVRES AND SPECIAL OPERATION SUPPORT.

STRIX-C FLIES AUTONOMOUSLY TOWARD DESIGNATED WAYPOINT AND CONTROLLED ON A HAND GROUND STATION THROUGH THE FREE-CONTROLLED FLIGHT OR THE TARGET MODE FLIGHT.

THE STRIX-C UAS IS CARRIED USING A COMPACT LIGHT WEIGHT BACK PACK, WHICH INCLUDES THE MINIMAL OPERABLE CONFIGURATION.

IT HAS PROVEN TO BE SIMPLY OPERABLE UNDER DIFFICULT WEATHER CONDITIONS, UNCOMFORTABLE LANDING ENVIRONMENT AND WITH REALLY SHORT TRAINING. MOREOVER THE SYSTEM HAS AN INTEGRATED AND CONTROLLABLE POD AND CAN BE OPERATED BY A SINGLE OPERATOR FOR DAYTIME AND NIGHT TIME OPERATIONS.

ALL FLIGHT PHASES ARE MANAGED BY THE ON BOARD AVIONICS THROUGH AN EXTREMELY VERSATILE, FUNCTIONAL AND EASY TO USE INTERFACE.

TAKE OFF AND LANDING ARE AUTOMATIC, AS THE VARIOUS PRE-PLANNED FLIGHT PHASES;

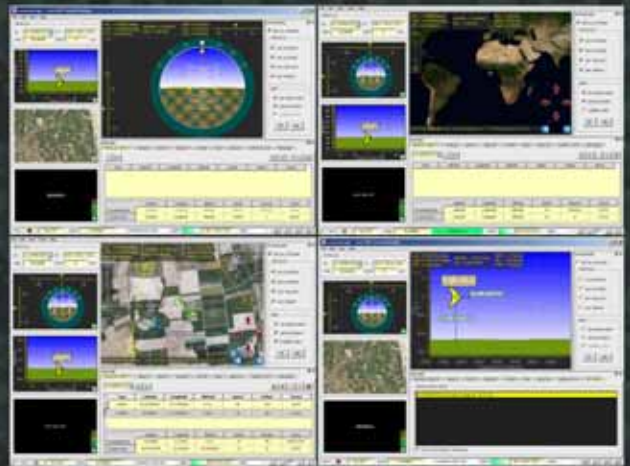
EACH AIRCRAFT IS EQUIPPED WITH AN EMERGENCY PARACHUTE FOR AUTOMATIC RECOVERY OF THE PLANE IN ANY SITUATION OR FOR LANDING IN EXTREMELY SMALL SPACES.



**MILITARY CERTIFIED**

## APPLICATIONS and FEATURES

- Range (LOS): > 12 km (> 7.5 miles);
- Standard ROC: 2 m/s (6.6 feet/second);
- Speed Envelope: 45 ÷ 86 km/h (24 ÷ 46.5 kt);
- Economic Cruise Speed: 61 km/h (33 kt);
- Max Altitude ASL: 3000 m ASL;
- Max Altitude AGL: 800 m AGL;
- Aircraft MTOW: 8.65 kg;
- Wind limitation: 25 km/h (13.5 kt);
- Fully Equipped Main Back Pack: 25 kg (aircraft included);
- Ground Logistic Unit: 16 kg;
- Max Endurance: 120 min (@ Cruise Speed);
- Wingspan: 3 m;
- Cross section: Negligible (flying wing);
- Deployment and packaging time: < 8 min;
- Multi Uav flight capability: 3 aircraft flying at the same time with wide survey area;
- Sensor: Day and Night operational capability;
- Sensor exchange: Sensor exchange in less than 15 seconds;
- Landing: Automatically recovered by automatic flared landing;
- Landing (emergency recovery): Recovered by automatic parachute;
- Landing: Extreme landing accuracy with Beacon feedbacks;
- Take Off: Automatically launched by a bungee catapult or by hand;
- Operational: Continuous mission capability;
- Operational: 3D navigation by means of DTED feedbacks;
- Noise: Extremely low noise signature;
- Logistic: One Man Transportable;
- Radar footprint: No radar recognized none visible cross section;
- Training: Extremely easy use, one 10 day training for 6 operators.



### System STD configuration

- 3 Aircraft fully ready for fly;
- 1 Ground Control Station;
- 2 Daytime Payload;
- 1 IR Payload;
- 1 Ground Logistic Unit
  - Launch catapult
  - Battery chargers
  - External Power Suppliers
- 1 Spare parts and maintenance kit.



### Day Operations Payload

- Self made fully stabilized Pal standard payload with video image for daylight operations
- X10 video optical zoom and full coverage of pan (+ 80) and tilt (+76 -70) movements

### Night Operation Payload

- Self made fully stabilized IR payload with video thermal image for nights operations
- X2 digital zoom and full coverage of pan (+ 80) and tilt (+76 -70) movements



**MILITARY  
CERTIFIED**

**STRIX** UAV

Alpi Aviation s.r.l.  
Advanced Research Division  
Via dei Templari, 24  
33080 S. Quirino - Pordenone - Italy  
info@alpiaviation-ard.com