ELECTRIC TILT-ROTOR UAV

SE 2C



VERTICAL ACCESS • WING-BORNE CRUISE • ALL-ELECTRIC

TILT-ROTOR VTOL	120 MIN	30 KM	4,500 M CEILING	EO/IR

OVERVIEW

ELECTRIC TILT-ROTOR UAV

An electric tilt-rotor UAV that takes off vertically and cruises on its wing: 120 minutes in the air, 30 km of range and a 4,500 m ceiling, with the EO/IR payload mounted clear at the rear.

SE-2C lifts off like a multicopter, then tilts its two front rotors forward to cruise on the wing. A blown canard keeps it stable at high angles, and differential thrust replaces the vertical tail, which saves weight for endurance.

120 min	30 km	4,500 m	6-7 kg
ENDURANCE	RANGE	SERVICE CEILING	MTOW

AT A GLANCE

TILT-ROTOR VTOL	120 MIN	30 KM	4,500 M CEILING	EO/IR

WHY IT STANDS OUT

01 *DUAL TILT ROTORS*
Vertical access, then efficient forward cruise.

02 *BLOWN CANARD*
Less drag and more control at high angles.

03 *NO TAIL FIN*
Differential thrust does the job of a vertical stabiliser.

04 *REAR EO/IR PAYLOAD*
A clear view behind the rotors.

FEATURES

TILT-ROTOR VTOL
Lifts off vertically; the front rotors tilt forward for cruise.

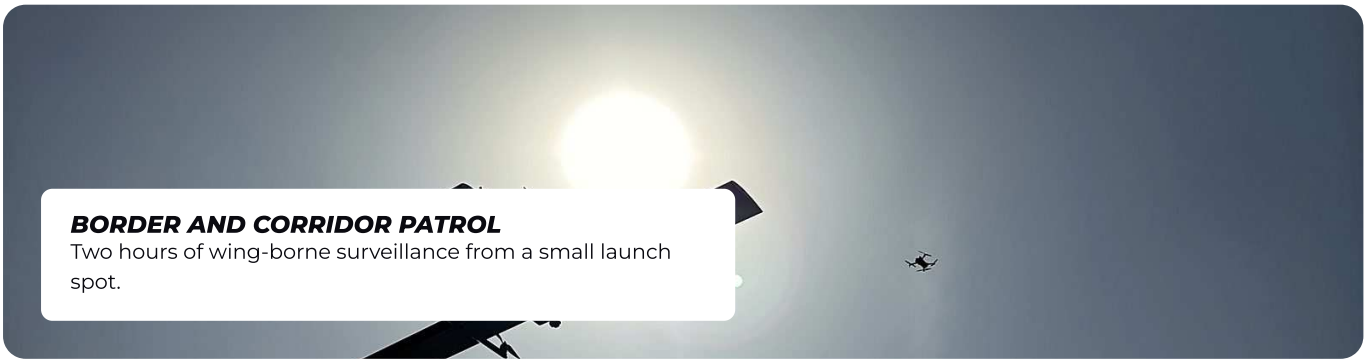
BLOWN CANARD
Cuts induced drag and delays airflow separation.

NO VERTICAL STABILISER
Differential thrust steers, saving weight.

CARBON-KEVLAR AIRFRAME
A light, tough composite structure.

REAR EO/IR PAYLOAD
Unobstructed day and night view.

4,500 M CEILING
Operates at 500–1,000 m above ground.



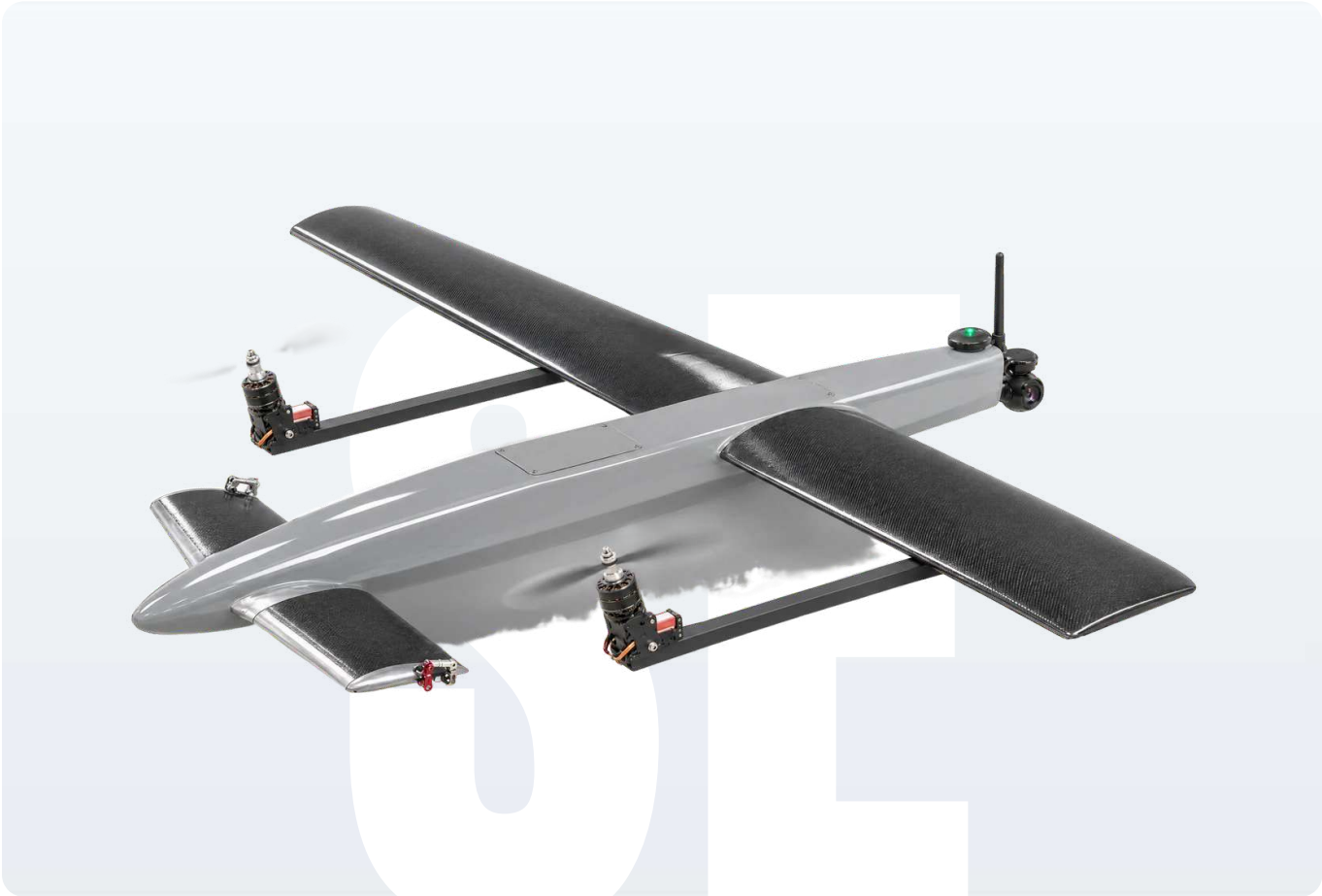
BORDER AND CORRIDOR PATROL
Two hours of wing-borne surveillance from a small launch spot.

TECHNICAL SPECIFICATIONS

TECH SPECS

SPECIFICATIONS	
MTOW	6–7 kg
Airframe	Carbon-Kevlar composite
Power plant	Brushless electric
Propulsion	Dual forward tilt rotors
Range	30 km
Endurance	120 min
Cruise speed	75 km/h
Max speed	100 km/h
Operating altitude	500–1,000 m AGL
Ceiling	4,500 m AMSL
Payload	EO/IR
Wind resistance	12–15 km/h

Figures are typical values for a standard configuration and may change without notice. Dimensions marked ≈ are indicative.



POSSIBLE ENHANCEMENTS

TARGET DETECTION AND FOLLOWING
On-board detection that locks on and follows a target.

VISUAL NAVIGATION
Navigation where GNSS is denied or jammed.

PRECISE VISUAL LANDING
Lands on a marked point without GNSS.

NIGHT AND LOW-LIGHT TRACKING
Tracking and following after dark.

STANCE AND GAIT DETECTION
Flags threatening posture with an active alert.

SWARMING (IN DEVELOPMENT)
Cooperative missions with other drones and ground robots.

APPLICATIONS

BORDER AND CORRIDOR PATROL
Two hours of wing-borne surveillance from a small launch spot.

INFRASTRUCTURE INSPECTION
Long, efficient runs along roads, pipelines and power lines.

POLICE AND PUBLIC SAFETY
Quiet electric overwatch above events and incidents.

VERTICAL ACCESS • WING-BORNE CRUISE • ALL-ELECTRIC

Every option above can be built in for your requirement. Ask for it in your enquiry to contact@starinxs.com.

WHY STAR INXS

IN-HOUSE COMPOSITES
Airframes designed, moulded and built in our own facility.

DESIGNED IN INDIA
Indigenous design and engineering in the air, under water, in simulation and on the range.

ON-BOARD INTELLIGENCE
Detection, tracking and visual navigation where GNSS fails.

TURNKEY DELIVERY
From site survey and design to installation and training.

TENDER READY
Documentation and compliance support for GeM and defence portals.

LIFECYCLE SUPPORT
Training, spares and maintenance after delivery.

FROM REQUIREMENT TO SUPPORT

01 REQUIREMENT

02 DESIGN & ENGINEERING

03 PROTOTYPE & VALIDATION

04 PRODUCTION & INTEGRATION

05 DEPLOYMENT & SUPPORT

DESIGNED, BUILT AND SUPPORTED IN INDIA

- OFFICES IN NEW DELHI AND BHOPAL
- GEM AND DEFENCE TENDERS
- CUSTOM AND OEM BUILDS
- TRAINING, SPARES AND MAINTENANCE

STAR INXS SOLUTIONS PVT LTD

Request a quote, a demonstration or the full data pack for SE-2C.

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Scan for the SE-2C page

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