THREOD

Eos C VTOL

FULLY ELECTRICAL UNMANNED AIRCRAFT SYSTEM

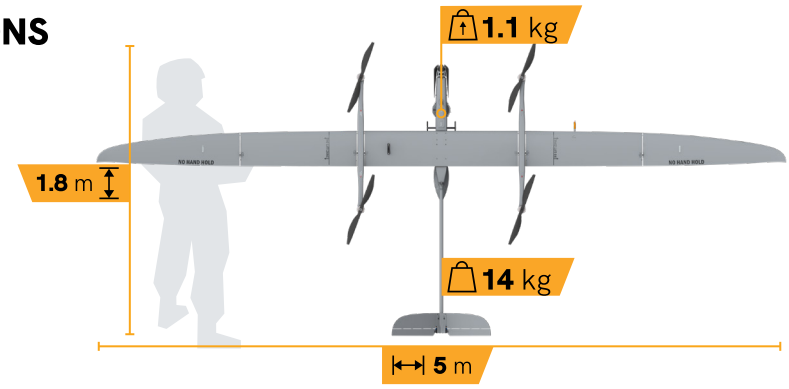
eOpic 5

Eos C VTOL is a long-range surveillance and target acquisition UAS designed for low observability, endurance, and reliability in the toughest conditions.

KEY FEATURES

- Combat-proven
- EO/IR payload
- Rapid deployment
- High survivability
- EW resilience
- GNSS-denied environment
- Fully electrical

TECHNICAL SPECIFICATIONS



PERFORMANCE

ENDURANCE	3 h
MAXIMUM DISTANCE	190 km
COMMUNICATION RANGE	50 km (RLOS)
CRUISE SPEED	61 km/h
MAX SPEED	90 km/h
SERVICE CEILING (AMSL)	4 500 m 15 000 FT
MAX TAKEOFF ALTITUDE (AMSL)	3 500 m 11 000 FT
PRECIPITATION	10 mm/h
WIND PENETRATION	16 m/s
VERTICAL FLIGHT WIND TOLERANCE	12 m/s
TEMPERATURE	-20°C ...+50°C

COMMUNICATION

FREQUENCY	2.2-2.5 GHz or 4.4-4.9 GHz
BANDWIDTH	5 / 10 / 20 MHz
ENCRYPTION	AES-256
RANGE	Up to 50 km RLOS
TYPE	Digital, MIMO / MANET / MESH
ANTI-JAMMING	Interference Cancellation
	Interference Avoidance
	GNSS-independent navigation
	Optional anti-jamming system with CRPA antenna

FLIGHT CONTROL

AUTOPILOT	Fully autonomous
	Waypoint navigation
	Fly-by-camera mode
	Geo-fencing
SAFETY	Programmable failsafe routes
	Automatic return to home

THREOD.COM / SALES@THREOD.COM

THREOD

OPERATIONAL

DEPLOYMENT	Vertical takeoff and landing	**PROPULSION**	Fully electric / battery powered
TAKEOFF/ LANDING SITE	Obstacle-free area, 10 × 10 m	**AIR TRAFFIC CONTROL**	Optional Mode-S / ADS-B Out transponder
INSTRUMENTATION	GPS / GLONASS / GALILEO	**FAILSAFE ROUTES**	Dead reckoning
	Barometric altimeter, radar altimeter		Continuous health monitoring
	Inertial Navigation System (INS)		Servo and ESC feedback
	Servo feedback and logging		
	ESC telemetry and logging		

RELIABLE, EFFECTIVE, AND EASY-TO-USE

- Thousands of hours of battle experience
- Used in multiple armed forces, including 7 NATO members states and Ukraine
- Widely adopted in military, border protection and police forces

THIS IS HOW THE MISSION-READY SETUP LOOKS LIKE