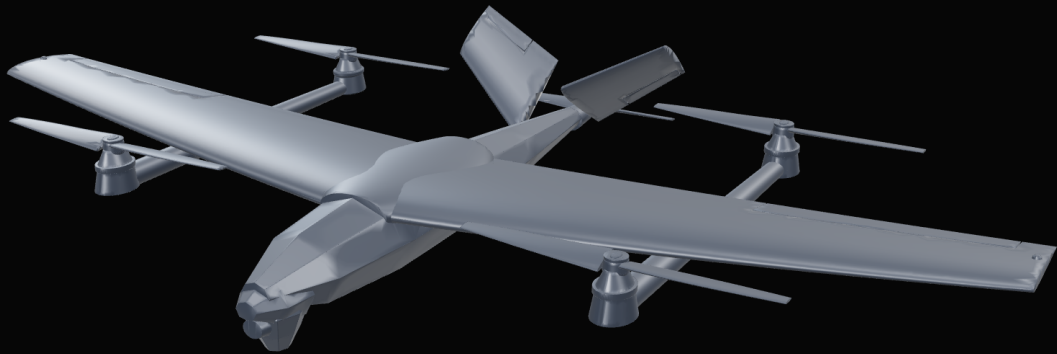


UMBRA

HYBRID VTOL

STATUS · IN DEVELOPMENT



Bullet fuselage, blended wing, four lift rotors and a pusher — vertical launch anywhere, fixed-wing range once airborne. Carries the ASTRUM SPAD low-light array for after-dark sector sweeps.

AIRFRAME SPEC

CLASS	HYBRID VTOL
STATUS	IN DEVELOPMENT
MISSION	SEARCH & RESCUE SUPPORT
SPAN	2.8 m
LENGTH	1.6 m
LIFT	4 × rotor + pusher
ENDURANCE	2.5 h target

THE MISSION · CIV-02

SEARCH & RESCUE SUPPORT

A thermal sweep of a corrie takes minutes rather than a rope team's afternoon, and the sorties that matter most start after dark. Vertical launch from the rescue base, fixed-wing transit to the sector, and a navigation stack that holds its own estimate in the glens where GNSS gets marginal.

PAYLOAD

EO/IR thermal core and ASTRUM SPAD low-light array: single-photon sensitivity for moonless sector sweeps, inference on the edge

PROFILE

VTOL launch · sector sweep · waypoint tasking from control

OUTCOME

Faster area clearance · geolocated finds, day or night

REGIONS

Scotland · Alps · Norway