CORVO

NEXT GENERATION AUTONOMOUS SYSTEM

PRECISION PAYLOAD DELIVERY SYSTEM

The Corvo Precision Payload Delivery System (PPDS) is a low cost, disposable UAS that is optimised for the covert delivery of small volume payloads.

The PPDS is designed to be deployed into theatre in a flat pack configuration. The soldier can assemble the system easily with minimal tools, load the payload, program the avionics module with the target location and launch the air vehicle.

Once launched, the system requires no further input from the operator. It will autonomously transit to the target location and land unassisted. The payload can be recovered from the air vehicle and if necessary, the avionics and motor module can be salvaged for re-use. The airframe can be discarded.

CORVO PPDS KEY FEATURES

- FAST ASSEMBLY AND DEPLOYMENT
- LOW COST DISPOSABLE UAS
- AUTONOMOUS TRANSIT & LANDING
- FLAT PACKED FOR EASY TRANSPORT

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VERSION 092023

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APPLICATIONS

DIRECT GEOREFERENCE MAPPING

DLSR camera with intelligent triggering and logging of position, altitude and attitude. Immediate post-flight geo-registration of images and tiling to KML format. Efficient large area coverage.

RADIO RELAY

Carriage of a range of radio solutions to provide range extension and connectivity in challenging LOS situations.

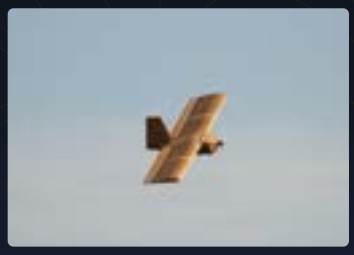
IN-THEATRE ASSEMBLY

RAPID ASSEMBLY

The Corvo PPDS has been designed to enable assembly in theatre. The airframe is constructed from foldable foam board and can be assembled rapidly with minimal tools. The propulsion module and avionics module are designed to be re-used. The fuselage and wing are designed for single use and are disposable.

Flat Pack Dimensions

LAUNCH SEQUENCE



SPECIFICATIONS

WINGSPAN
2000mm

EMPTY WEIGHT
2400g
(INCLUDING SINGLE FLIGHT BATTERY)

PAYLOAD CAPACITY
3000g

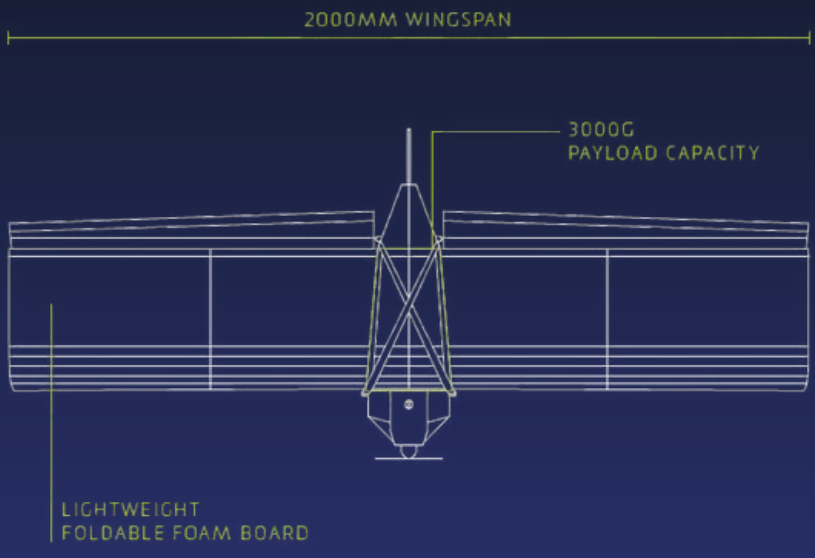
ENDURANCE
1-3hrs
(DEPENDING ON PAYLOAD)

RANGE
40-120km
(DEPENDING ON PAYLOAD
& BATTERY COMBINATION)

CRUISE SPEED
60km/hr

LAUNCH
HAND LAUNCH OR CATAPULT

RECOVERY
BELLY LANDING



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