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RUGGEDIZED

AVES
COURIER

System Unique Highlights

The AVES Courier is a ruggedised complete package solution based on our carbon fiber based UAV to carry a myriad of payloads for different purposes.

The Aves Courier is able to carry up to 5kg payload for around 45 minutes, and up to 10 Kg for around 30 minutes. Endurance performance is based on environmental conditions.

The UAV is capable of automatic Take-off and Landing, and our solution boosted a myriad of payloads.

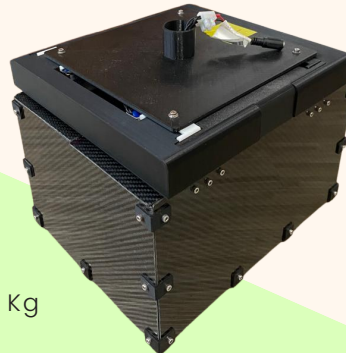
For Logistics, we deploy a carriage box,

For Rescue operations, we deploy a customized mechanical release solution for the dropping of payloads such as equipment for forest rescue or floatation devices out at sea.

Value Propositions

- 01.** Operation Flight endurance up to 45 minutes (achieved 60 minutes without payload in controlled environment)
- 02.** Heavy Load Carrying capacity up to 5Kg for flight performance. Up to 10 Kg is possible with reduced operational performance
- 03.** Automatic Obstacle Avoidance features to prevent collision into structures
- 04.** Motor failure security feature and can support up to one motor failure with controlled descent needed
- 05.** Battery operated making it way quieter than UAS with turbine engines
- 06.** One UAS, multiple purposes with different payload configurations

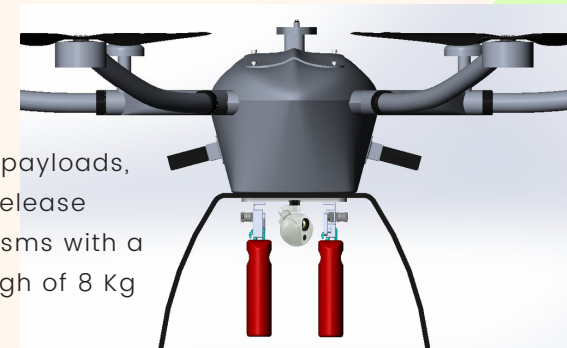
Cargo Box for logistics aerial carriage, up to 7 Kg



Multipurpose Applications

- 01.** Aerial Mapping
- 02.** Logistics Operations
- 03.** Construction Survey
- 04.** Forensics Analytics
- 05.** City Digitalization
- 06.** Search & Rescue

Air Drop payloads, up to 4 release mechanisms with a total weigh of 8 Kg in all



RC Control, Telemetry, Data Link and Video Feed

The AVES Courier video transmission system is based on a 2.4 GHz modulated upon LTE frequencies. This provides for the long range of up to some 10 Km range. The onboard screen also allows a myriad of control options for live imagery, autopilot configuration among others.



HERELINK REMOTE CONTROL SPECIFICATIONS	
Operating Frequency	2.4GHz ISM
Range	20km
Live Video Resolution	720p30Fps, 1080p30/60fps
Latency	110ms

Object Avoidance

With an incorporated high-end LIDAR, the object avoidance feature will improve way-to points and free flying options, allowing secure flight at every moment.



LIDAR SPECIFICATIONS	
Scanning Degrees	360°
Scanning Range	100 m
Resolution	3 cm
Readings per second	20010
Revolutions per second	5.5

Sighting Systems (EOIR)

The integrated sighting systems comprised of very stable 3 Axis system with an Electro Optical and Infra red cameras systems. This will provide the operator the ability to detect and identify objects and persons. The IR will be helpful for rescue operations as pilots will be able to detect human persons.



EOIR Specifications	
Camera Resolution	1920X1080
Camera Zoom Function	10X
Thermal Camera Resolution	640X480
Thermal Zoom Function	3X
Object Tracking	Yes



** Flight tested with 5 kg internal payload yielding 1 hour of flight time in our laboratory

Overview

- Full composite for strength and light weight
- Ruggedized
- 6 rotors providing redundancy for failures
- Triple GPS receivers
- High Thrust to Weight ratio
- Radio control range of up to 20km (LOS)

Technical Specifications

Dimensions

2079.52 x 2291.2 x 1000
(LxWxH)

Weight: ca.
18 Kg

Maximum load

10 Kg (5Kg for performance)

Maximum take-off weight
(MTOW)

25 Kg

Flight time

up to 45 minutes

Battery

2 x 32,0000 mAh

Maximum Speed

65 km/h

Maximum Wind Endurance

12 m/s

*Maximum Distance

20 km

Max Above Ground Level (AGL)
250m

Max Above Mean Sea Level (AMSL)
3000m

*Max. distance does not correlate to operational distance