VESA™ Counter-UAS

DESIGNED FOR ADVANCED AIR DEFENSE against the increasing threat of unmanned air systems and loitering munitions. With a top speed over 100 miles-per-hour, vertical takeoff, and on-board object detection and tracking, this UAS can counter other UAS on the move.

VESA has integrated advanced situational awareness capable of perception, tracking, categorization, and pose estimation. Additional optional payloads include EO/IR vision, kinetic munitions, or communications relay package.

VESA's Modular Open System Architecture (MOSA) allows for use of multiple options of GCS, radios, autopilots, payloads, and more. This MOSA architecture allows for customer-specific equipment to be quickly and easily integrated as well as preventing obsolescence. VESA will also have integrated swarming capability.

With a compact form factor, VESA takes off from a tail sitting position and transitions from vertical flight to high-speed forward flight. VESA's unique design allows it to be infrastructure light and multi-use capable without sacrificing performance.

VESA can be deployed as a submunition and may be incorporated into existing and future counter-UAS and counter-swarm systems.

KEYFEATURES

VTOL // Man-portable // Target Recognition & Tracking // NDAA Compliant // MOSA

FLIGHTSPECIFICATIONS

Flight Specifications*

Max Flight Time ..... *15+ min*
Max Range (with Data Link) ..... *5+ miles, 8 km*
Max Ground Speed..... *100+ mph, 44 m/s*

Vehicle Specifications*

DoD Sizing Classification ..... *Group 1*
Maximum Gross Weight ..... *5+ lbs, 2.2+ kgs*
Usable Payload ..... *2+ lbs, 0.9+ kgs*
Dimensions ..... *9" x 16" x 14", 22.9 cm x 40.6 cm x 35.6 cm*

**All equipment and specifications are preliminary and subject to change.*

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CORECOMPETENCIES

01 EFFICIENT AND SUSTAINABLE ELECTRIC AIRCRAFT TECHNOLOGY FOR ADVANCED AIR MOBILITY AND UNMANNED AIRCRAFT SYSTEMS

02 AS9100 CERTIFIED DESIGN-FOR-X FOR ADVANCED AIR MOBILITY AND UNMANNED AIRCRAFT SYSTEMS

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