

UMEX 2020: UAVOS to perform search and rescue maritime demo with ISR350-5 UAV

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UAVOS and partner ISR Unmanned Technology will perform a maritime search and rescue demonstration with their jointly-developed ISR350-5 unmanned helicopter at the UMEX 2020 trade show, which runs from 23-25 February in Abu Dhabi.

UAVOS told *Jane's* on 20 February ahead of the show that the ISR350-5 will perform rescue tasks that are designed to demonstrate the advantages of using an unmanned helicopter for maritime patrolling, especially when carrying multiple sensors on a single aircraft. This search and rescue demonstration will involve recovering a modified lifejacket fitted with a water anchor. This lifejacket will be in a special container fixed by a loop of soft parachute line in the release lock.



The UAVOS/ISR Unmanned Technology ISR350-5 unmanned helicopter that will perform a maritime search and rescue demonstration at the UMEX trade show. (UAVOS)

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The flight will be controlled by two operators. The payload operator, controlling via video link, will determine the moment to drop the lifejacket. The ISR350-5 flight can be fully automatic as in it can takeoff, fly along a route, and land autonomously. However, the operator can correct the route in the process.

The ISR350-5 will be integrated with a gyro-stabilised two-axis gimbal for day and night surveillance with a laser range finder. The aircraft also uses a portable ground control station (PGCS) based on a console with controls and a docking interface for a military-rugged Getac X500

laptop computer. This is for command, control (C2), and payload management.



The gyro-stabilised two-axis gimbal for day and night surveillance that will fly on the ISR350-5 unmanned helicopter during the UMEX maritime search and rescue demonstration. (UAVOS)

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Another planned demonstration includes intelligence, surveillance, and reconnaissance (ISR). The ISR350-5 is 320 cm long and 84 cm tall. It has a main rotor diameter of 260 cm with a top speed of 65 kt. The aircraft features a maximum take-off weight (MTOW) of 42 kg and a maximum payload capacity of 5 kg.

The ISR350-5 is based on the UAVOS UVH-170 unmanned aerial vehicle (UAV), a light, single-engine, gasoline-powered helicopter. Assembly and production of the ISR350-5 has been performed in the UK.

Comment

UAVOS said it recently raised a round of financing from a group of private investors. This will further enhance its research and development (R&D) efforts, reduce the go-to-market time for new solutions, and help the company focus on promotion and commercialisation.