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4X4 MIMO TRACKING ANTENNA SYSTEM



For Immediate Release

UAV Factory Enhances Communication Equipment with Silvus Technologies' Advanced MN-MIMO Communication Products

Octopus ISR Systems, a brand of UAV Factory, today announced the introduction of a portable high-performance automatic tracking antenna system that features MN-MIMO technology for high bandwidth, meshed video, voice, and data communications through Silvus' StreamCaster tactical radios.

Silvus' Mobile Networked MIMO (MN-MIMO) is a state-of-the-art waveform that solves many of the problems facing today's wireless systems. This breakthrough waveform is a powerful blend of Coded Orthogonal Frequency Division Multiplexing (COFDM), Multiple Input Multiple Output (MIMO) antenna techniques, and Mobile Ad Hoc Networking (MANET) to deliver digital communications with unparalleled performance and flexibility.

"Our integration of Silvus' MN-MIMO technology will provide secure high-speed and long-range communications and surveillance capabilities suitable for harsh and dynamic environments," said Konstantins Krivovs, business development manager for Octopus ISR Systems. "Providing reliable high speed self-healing and self-forming MESH network communications for manned and unmanned aircraft applications will help our customers to achieve successful mission outcomes."



Tracking antenna MIMO techniques include spatial multiplexing, space-time coding, and TX/RX beamforming, which enables excellent high-throughput communication at a range of over 100 km. The operational frequency bands available range from 400MHz to 6GHz.

The system's rugged and durable design, includes an environmentally sealed heavy-duty pan-tilt unit and supports operations in all weather conditions, by providing optimal connectivity when it matters most. The tracking antenna system relies on an automatic tracking algorithm, automatic azimuth calibration, and 360° rotation.

The tracking antenna system's portable and lightweight design ensures easy transportation. The system's weight with tripod is only 43 kilograms, depending on the dish size for the selected frequency band, the entire system fits in only one shippable military grade transportation case.

About UAV Factory

UAV Factory, the leader in the small fixed-wing UAV segment, was established in 2009 with the goal of developing the most advanced technology in the small, long-endurance unmanned aircraft market. The company develops and produces fixed-wing UAV, UAV subsystems, stabilized EO/IR camera payloads and accessories for the unmanned and manned aircraft industry. UAV Factory heavily invests in research and development and manufactures around 90% of UAV subsystems inhouse. UAV Factory products are operating in the most demanding conditions around the globe, fulfilling the most challenging missions possible.

About Octopus ISR Systems

Octopus ISR Systems is a trustworthy, well-known brand from UAV Factory, specializing in the design and manufacture of cutting-edge non-ITAR surveillance solutions for both the manned and unmanned industries. Octopus ISR Systems offers airborne surveillance systems of the highest quality for a variety of platforms, providing an efficient solution for situational awareness applications including border and maritime patrol, search and rescue, security, and others.

About Silvus Technologies, Inc.

Privately held and headquartered in Los Angeles, Silvus Technologies develops advanced MIMO technologies that are reshaping broadband wireless connectivity for mission critical applications. Backed by an unmatched team of PhD scientists and design engineers, its technologies provide enhanced wireless data throughput, interference mitigation, improved range, mobility, and robustness to address the growing needs of its government and commercial customers.