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Schiebel, in collaboration with MDA Space, has successfully demonstrated IMSAR's NSP Synthetic Aperture Radar (SAR) with Ground and Maritime Moving Target Indication (GMTI and MMTI) capabilities during a one-week intensive trial at the Foremost UAS Test Range in Western Canada.

The successful integration of the IMSAR NSP radar system to the CAMCOPTER® S-100 was completed ahead of schedule, with all radar electronics housed within the antenna pod. The radar's installed software allows for seamless mission planning, enabling the operator to upload radar flight plans directly to the S-100 platform.

During the trial, the fully integrated system showcased its unique capabilities during both day and night operations out to ranges exceeding 100 nm. The S-100, equipped with the IMSAR NSP radar, Wescam's MX-8 EO/IR sensor, a GPS Anti-Jam System and an Automatic Identification System (AIS), successfully conducted a series of simulated land and maritime tasks. The system provided high-resolution SAR imagery, as well as Ground Moving Target Indication (GMTI) detections and tracks, all while demonstrating its versatility in challenging weather conditions. This capability highlights the IMSAR radar as a key sensor, enhancing the platform's performance and situational awareness in complex operational environments.



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“The integration of IMSAR's radar with the S-100, in combination with a powerful EO/IR, significantly expands the platform's surveillance and detection capabilities, allowing for wide-area coverage at impressive distances in all weather conditions,” said Neil Hunter, Head of Global Sales for Schiebel. “This trial underlines the continuing operational effectiveness of the CAMCOPTER® S-100 as a multi-sensor platform, capable of delivering actionable intelligence in real-time, day and night.”