Targeting a Safer World®

ACCIPITER®
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INTRODUCTION

Accipiter Radar is a global provider of high performance radar surveillance solutions built upon its patented Radar Intelligence Network™ (RIN) Platform Technology. Accipiter Surveillance-to-Intelligence™ (S2I) solutions are designed to detect and track small uncooperative targets such as pleasure-craft, low flying aircraft, drones, birds and ground targets. The result is enhanced security and safety through unprecedented all domain awareness for modern day applications such as coastal surveillance, search and rescue, port security, maritime security, border enforcement, law enforcement, critical infrastructure protection, perimeter security, bird and drone strike prevention and environmental protection.

Image courtesy of Syncrude Canada Ltd.

HOMELAND SECURITY

Radar is a foundation of security strategies, providing all weather, 24/7/365, day/night, wide-area surveillance needed for the protection of the homeland. The heart of every affordable Accipiter® radar solution is its patented M³® Target Information System (TIS) that provides unique multi-radar, multi-mission, multi-user capabilities needed by 21st century homeland security applications. These capabilities enable tactical and strategic situational understanding of small vessels, low flying aircraft and ground target behaviour in target dense environments, along with information sharing with partners and intelligence-led operations, resulting in true force multiplication.

AVIATION SAFETY AND SECURITY

Understanding the movement and behaviour of birds and small aircraft such as drones in the airspace, animals and persons on the airfield, and airside vehicles, is critical to risk mitigation and airport safety management systems. Accipiter provides a number of Accipiter® airport radar systems that are specially designed to deliver affordable 2D and 3D Total Coverage® situational awareness through a comprehensive suite of software applications for live monitoring, automatic alerting and target activity analysis.

ENVIRONMENTAL PROTECTION

The rapid deployment worldwide of renewable wind energy and continued mining of natural resources brings many benefits, but poses threat to birds and other endangered species. Accipiter® radar activated deterrent systems (RADs) provide the most advanced bird protection available by detecting, tracking and identifying those birds that are headed towards possible harm (e.g. tailings ponds and wind turbines), and automatically triggering nearby deterrents designed to persuade the birds to alter their course away from any danger. The integrated M³® Target Information System and associated bird-activity awareness tools give site operators the situational understanding they need to protect wildlife across their facilities.

OUR MISSION

Accipiter's mission is to provide the world's most effective and affordable wide-area situational awareness solutions for applications that impact the safety and well-being of the public, individuals and the environment.

Accipiter Radar has been Targeting a Safer World® for over two decades by supporting safety and security professionals with development of affordable and user-friendly, Accipiter® Surveillance-to-Intelligence™ (S2I) tools that allow them to be more effective, especially in the target rich and vast homeland maritime domain and air domain environments. Accipiter® solutions act as force multipliers for security and safety personnel by providing them with the tactical and strategic intelligence they require to identify suspicious or hazardous behaviour and direct an appropriate response, while not restricting the flow of licit travel and commerce.

OUR VISION

Accipiter's vision is to become the global leader providing wide-area situational awareness of uncooperative targets (such as small vessels, low-flying aircraft, drones and birds, who do not or cannot communicate their intensions), through technical superiority and innovation to create best value solutions as defined by our customers and business partners.

GLOBAL PRESENCE

Accipiter Radar is headquartered in Ontario, Canada with our American Headquarters in New York State, USA. Our extensive network of qualified strategic partners enables us to deliver our high quality systems and services globally, ensures excellence in matching system selection and specifications to customer requirement, and provides for installation, training, documentation, local maintenance, and technical support.

OUR TEAM … includes in-house, world leading authorities in advanced radar engineering, information systems, computer networking and software development, partnered with domain expertise in ornithology, aviation safety and homeland security to facilitate our development and delivery of the most capable and affordable, high performance situational awareness systems on the market today.

RADAR INTELLIGENCE NETWORK™ PLATFORM

SENSORS

Accipiter partners with radar sensor manufacturers around the world, selecting and modifying the best of breed, COTS sensors for integration into our patented, sensor-agnostic, Radar Intelligence Network™ (RIN) Platform, upon which all Accipiter® radar solutions are built. This approach allows Accipiter to deliver unique, flexible and affordable capabilities for surveillance on water, in the air and on the ground. CCTV, thermal imaging, AIS, ADS-B, unattended ground sensors and other sensors and data streams also plug-and-play into the Accipiter® RIN to provide wide-area, high quality, target sensing and identification for homeland security, aviation safety/security and environmental protection applications.

TARGET INFORMATION SYSTEMS

Accipiter's patented M3® Target Information System (TIS) is the heart of every Accipiter® surveillance system. It integrates target data in real-time from multiple distributed radars/sensors over any wired/ wireless TCP/IP network link into a highly efficient and secure data warehouse infrastructure. It supports multi-sensor fusion, rapid spatial/temporal queries to enable the discovery of target patterns and behaviours of interest, and complex event and device activation processing for automatic alerting, deterrent activation and PTZ camera slew to cue for identification. Multiple user applications can simultaneously access the TIS. Real-time replication technology (RTRT) mirrors the TIS to other locations for partner information sharing and evidence protection. The M3® TIS also integrates with your third-party C2 and enterprise geospatial information systems.

USER APPLICATIONS

Accipiter provides an ecosystem of "apps" we call Surveillance-to-Intelligence™ (S2I) tools to provide easy to use, unprecedented situational understanding. Tactical tools such as the Accipiter® Radar Common Operating Picture (COP) software give watch standers a real-time, world view of target tracks from all sensors and automatically alerts to situations of interest. The Mobile Response COP gives responders in vehicles or on vessels a local heads-up display, allowing them to select and intercept targets of interest. Strategic S2I tools rapidly mine historical data to give analysts sophisticated playback and analysis capabilities to understand target activity patterns, and managers specialized reporting with high-level metrics allowing them to better manage and allocate resources to mitigate risk.

SUPPORT AND SERVICES

Accipiter's trained installation and support team ensures continual system performance and customer satisfaction at all times. Our patented radar remote control capabilities and remote system health monitoring ensure maximum system health, while providing a proactive approach to routine maintenance and customer troubleshooting. Accipiter's field support team can deliver both technical and user training as well as assistance for regional partners and direct customers alike.

ACCIPITER ®
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UNITED STATES
40 Centre Drive, Suite 300
Orchard Park, NY 14127
Telephone: 1 (716) 508-4432
Facsimile: 1 (888) 393-6421

CANADA
576 Highway 20 W
Fenwick, ON L0S 1C0
Telephone: 1 (905) 228-6888
Facsimile: 1 (905) 892-2249

Website: www.accipiterradar.com   Email: sales@accipiterradar.com