

*Targeting a Safer World®*



**ACCIPITER®**  
ACCIPITERRADAR.COM

*Public Safety and Security*



## **WORLD'S MOST EFFECTIVE AND AFFORDABLE WIDE-AREA SITUATIONAL AWARENESS**

**Accipiter provides 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's Surveillance-to-Intelligence™ (S2I) solutions act as a force multiplier for safety and security personnel by providing them with the tactical and strategic intelligence they require to identify suspicious or hazardous behaviour and direct an appropriate response.**

## **GLOBAL PROVIDER OF HIGH PERFORMANCE RADAR SOLUTIONS**

Accipiter Radar is a global provider of high performance radar surveillance solutions built upon its patented Radar Intelligence Network™ (RIN) platform technology. Accipiter's Surveillance-to-Intelligence™ (S2I) solutions are designed to detect and track small uncooperative targets such as pleasure craft on inland and coastal waterways, low-flying aircraft including drones, ultralights and general aviation aircraft, and vehicles or people on the ground.

The result is enhanced security and safety through unprecedented all domain awareness for your monitored reservoirs, dams, lakes, rivers, coasts, prisons, nuclear power stations and other critical infrastructure facilities.

## **WORLDWIDE PRESENCE AND SUPPORT**

Accipiter Radar Technologies Inc. is headquartered in Ontario, Canada and Accipiter Radar Corporation is headquartered in New York State, USA. Our extensive network of qualified strategic partners enables us to deliver high quality systems and services globally, ensuring excellence in matching system selection and specifications to customer requirements, installation, training, documentation and local maintenance and technical support.

Our in-house team of experts in advanced radar engineering, information technology, camera and deterrent technology and software development, partnered with in-house domain expertise in public safety, homeland security as well as search and rescue deliver the most capable and affordable, situational awareness systems on the market.



# Public Safety & Security

## STATE-OF-THE-ART MONITORING AND ALERTING TO ENHANCE PUBLIC SAFETY AND SECURITY AT RESERVOIRS, DAMS, RIVERS AND POWER GENERATION PLANTS

Getting too close to dams and hydroelectric stations is always dangerous. Conditions can change rapidly, and what may appear as calm waters to the public can often disguise strong currents. However many of these hazards are within reach of pleasure craft and small fishing boats, that can inadvertently venture into dangerous areas and need to be alerted to avoid accidents. At the same time, those approaching our critical infrastructure with the intent of causing harm, also need to be intercepted before they are able to do so.

Affordably managing the risk of threats such as these requires a smart, risk-based, multi-layered and partner shared approach to threat assessment, identification, alerting and mitigation. Accipiter's flexible and proven strategic and tactical domain awareness capabilities provide the decision support needed to serve you and your safety/security partners from wherever they happen to be located.

### OPERATIONAL ADVANTAGES

- 24/7/365 live situational awareness of vessels, vehicles, people and drones
- Automated alerting to situations of interest and exclusion zone breaches
- Automated camera cueing for visual verification and target tracking
- Automated and manual acoustic hailing/communication of warnings
- Rapid response to potential security threats
- Real-time and analytical/historical target information sharing
- Incident playback and historical trend analysis
- Weather and ice flow monitoring

### PROVIDING SAFETY AND SECURITY FOR:

- Reservoirs and dams
- Large rivers and canals
- Hydroelectric facilities
- Nuclear power plants
- Waterside critical infrastructure
- Ports and marinas



## ACCIPITER'S RADAR INTELLIGENCE NETWORK™ PLATFORM TECHNOLOGY

Accipiter offers several carefully engineered systems to address your particular safety and security problems, built on our patented Radar Intelligence Network™ (RIN) platform technology. The RIN architecture ensures your system can easily adapt and grow with your changing hazards, threats and needs. Our novel approach to wide-area, real-time detection, tracking, post processing, and display coupled with on-the-fly and interactive analytics applied to historical target data, sets us apart from any other radar systems provider, by giving you unprecedented situational understanding and decision support. Our sensor agnostic RIN allows any number of sensors to seamlessly connect to our patented M<sup>3</sup>® Target Information System.

## M<sup>3</sup>® TARGET INFORMATION SYSTEM

Accipiter's multi-sensor, multi-mission, multi-user M<sup>3</sup>® Target Information System (TIS) provides multi-sensor target data processing, query and retrieval, while Accipiter's Surveillance-to-Intelligence™ (S2I) tools enable rapid and efficient understanding that leads to strategic and tactical decision making. Our complex event management processor incorporates a rules-based and/or artificial intelligence (AI) based priority engine to enable, live event alerting and geo-coordinate queuing of cameras and acoustic hailing in response to identified target scenarios. Behaviors such as exclusion zone incursion, loitering, rendezvous or underlying suspicious activity can all be programmed with appropriate cause and effect response.

## INTEGRATED COMPLEX EVENT MANAGEMENT

Our complex event management processor incorporates a rules based and/or artificial intelligence (AI) based priority engine to enable, live event alerting and geo-coordinate queuing of cameras and acoustic hailing in response to identified target scenarios. Behaviors such as exclusion zone incursion, loitering, rendezvous or underlying suspicious activity can all be programmed with appropriate cause and effect response.

## REMOTE ACOUSTIC HAILING DEVICE

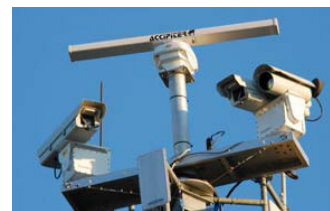


Accipiter integrates seamlessly with the USSI HyperSpike® family of remote acoustic hailing devices including their high performance and affordable HS-14 RAHD™ and the HS-18 RAHD™ .

Integrated with a steerable pan tilt head and optional camera / search light attachments, the acoustic device is guided by radar-tracked target, and automated warning or operator push-to-talk warnings can be delivered up to 2000 metres away, while the camera and search light enables visual verification.

## CCTV CAMERA AND THERMAL IMAGING

CCTV along with thermal imaging cameras enable verification of radar-tracked targets that may pose a safety or security concern.



Accipiter's high performance target tracking both at near and far distances, enables effective cueing of cameras that may be located with the radar sensor or elsewhere to determine the type of target (pleasure craft, fishing boat, drone, vehicle or person), and if that target is in distress, behaving in an unsafe manner or is a threat to security.

## SURVEILLANCE-TO-INTELLIGENCE™ (S2I) TOOLS

Accipiter provides a suite of S2I tools that are easy to use and give users with different roles or missions the situational understanding they need to be more effective at performing their duties. Our tactical tools give watchstanders and dispatchers a real-time mapview of target tracks from all sensors with built-in, 24-hour rapid replay and alerting. Our tablet-based Mobile Response COP gives responders in vessels and vehicles a user-centric display. Our strategic S2I tools interactively mine historical target data to give intelligence analysts and managers understanding of target activity patterns and specialized reporting.

## PUBLIC SAFETY

Getting too close to dams and hydroelectric stations is always dangerous. An area that seems calm and safe one moment can turn into a dangerous surge of rising and fast-flowing water without warning. Our systems track targets that enter dangerous areas and provide automated directional audible warnings, as well as notifying remote operators with visual verification (radar tracks and video), while enabling push-to-talk audible communications.

## HOMELAND SECURITY

Reservoirs, dams, power plants (hydro-electric and nuclear) and water-side industrial sites all require constant monitoring with rapid response to potential security and terrorist threats. Accipiter's radar systems track small and large boats, drones and aircraft, identifying targets of concern based on their behavior and notify watchstanders who can direct responders to intercept and mitigate the risk as quickly as possible. Our Mobile Response COP gives officials a user-centric display, allowing them to more easily put their eyes on live targets of interest.

## ENVIRONMENTAL MONITORING

Ice build-up and flow is a major cause for concern for hydroelectric power plants, while adverse weather can impact boaters with little or no notice. Accipiter technology monitors large ice masses and significant rain events to enable audible warnings to the public, notifications to personnel on the ground and monitoring with integrated video surveillance. Our advanced M<sup>3</sup>® Target Information System stores all historical data and our S2I analytical tools enable greater understanding based on previous years activity leading to more predictable forecasting.





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