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PRODUCT INFORMATION

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# Our Story

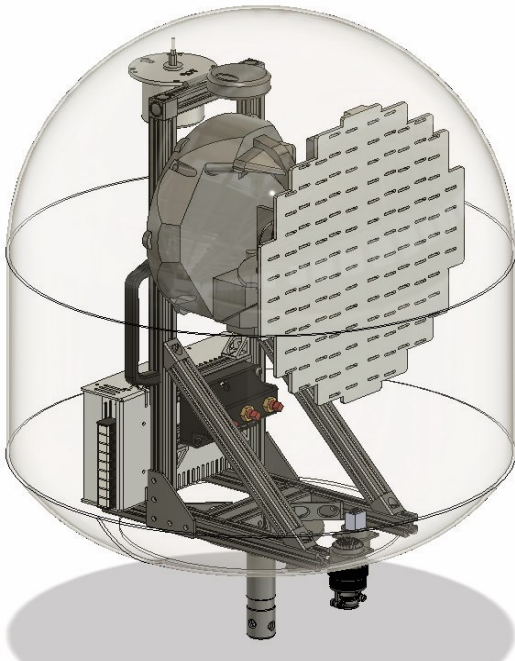


## About Us

SMA is a group of highly skilled specialists in radar signal processing, RF design, and drone flight operations. We are passionate and committed to improving drone services through innovation by working directly with service providers and regulators for safer skies.

## What We Do

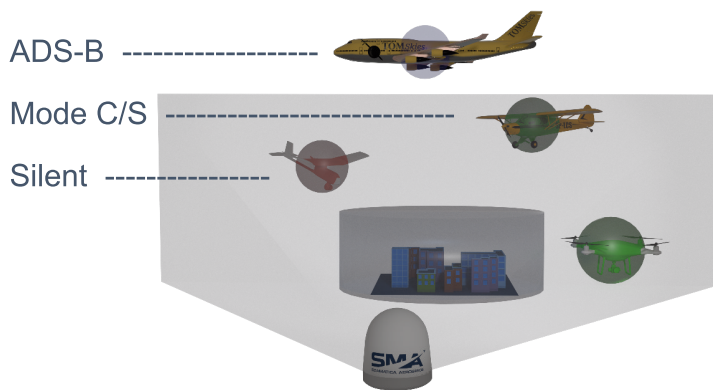
We have been working tirelessly to bring a complete airspace situational awareness system to the industry. Our solutions can detect Mode A/C/S equipped, ADS-B equipped (cooperative aircraft), and transponder-silent (non-cooperative) intruders. We strive to unlock beyond-visual line of sight (BVLOS) operations for service providers by enabling them with the detect-alert-and-avoid (DAA) technology they have been waiting for.



## Clients Include:

- Royal Canadian Navy
- Boeing Phantomworks
- C-CORE
- Drone Delivery Canada
- Transport Canada
- National Research Council
- SEM

# Safer Skies with GuardianEye 2



GuardianEye 2 is a full airspace situational awareness solution designed to expand drone operations beyond-visual line of sight (BVLOS).

It provides a complete picture of the airspace by integrating information from multiple sources including Radar, Mode A/C/S and ADS-B transponders.

GuardianEye 2 combines everything you need for enhanced airspace awareness into one display through sensor fusion. Non-cooperative aircraft are detected using ground based radar. Seamatica's Chronos module will provide the 3-D position for functioning transponder equipped aircraft.

GuardianEye 2 is modular by design. It's modules can be housed in shock mounted cases for field use or integrated with existing IT infrastructure.

Advanced tracking and collision-detection algorithms are standard in GuardianEye 2. Each track is evaluated to reduce nuisance alarms during flight operations.

Contact us for more information, or to discuss opportunities for collaboration.







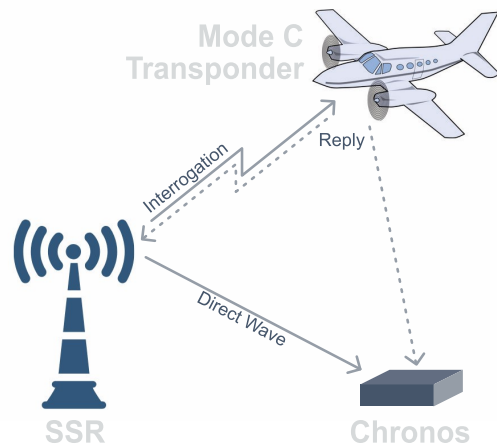
GUARDIAN  
EYE 2



# Chronos

Chronos can provide any observer with a complete picture of the airspace with the precise 3-D position, and aircraft ID of Mode A/C/S transponder-equipped aircraft. Information previously only available to air traffic management (ATM) authorities.

Chronos leverages the existing infrastructure of secondary surveillance radars (SSRs) of the ATM system. Chronos passively “listens” to the SSR and the response of the aircraft equipped with functioning transponders to determine the position of the aircraft through a method that incorporates precision timing of the signals (US Patent Applied For).



Equipped with a simple ethernet interface, the system **can be integrated into any airspace awareness solution.**



## Coming Soon “Active” Mode

The reach of Chronos can be extended to areas where aircraft are not flying at sufficient altitude to be within range of an SSR by switching to an “Active” mode in which the device interrogates the aircraft.



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