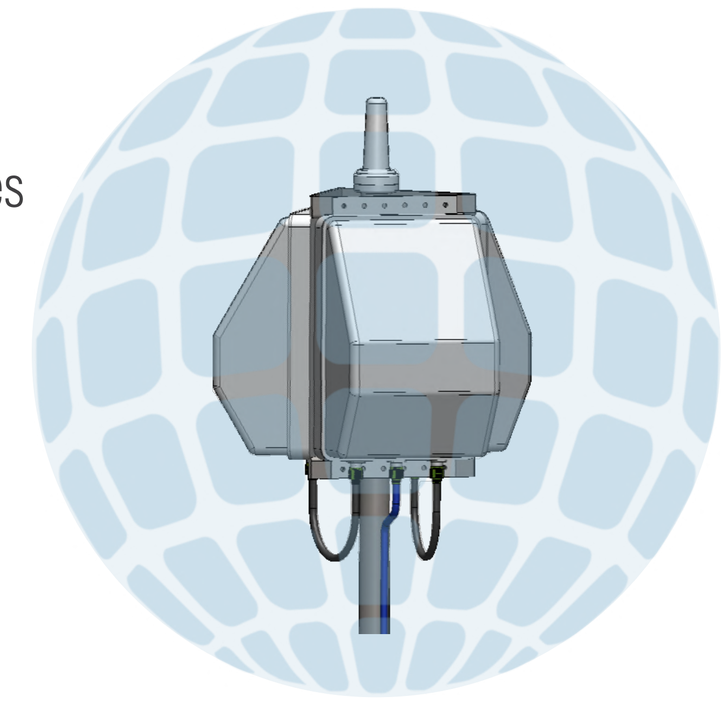
SPHERICAL VIEW RADAR

FOR UAV DETECTION AND TRACKING

Breakthrough spherical coverage Radar technology rendering prior generations of UAS detection systems obsolete. Currently in development, available late 2021

PERFORMANCE



- Simultaneous spherical coverage (360° azimuth, 360° elevation) with a minimum range of 2 km per sensor, scalable to cover facilities of any size with no blind zones
- Detection and tracking of airborne targets with radar cross section of 0.001 square meters (~3x3 cm)
- Detection and tracking with accuracy of 1 m3, regardless of range, at day or night, and in all weather conditions
- Target velocity from 0 km/h up to 500 km/h
- Simultaneous detection and tracking of up to 100 targets with 0.5 m separation between targets
- Detection and tracking of low-flying targets 1.0 m above the ground and targets in close proximity to sensor

FEATURES

- Sensor configuration is scalable to provide coverage to facilities of any size and geometry, and be tailored to avoid any shadow zones in complex and cluttered environments
- Detects any type of drone, including small, autonomous (i.e., no RF emissions), silent and hovering
- Provides security against insider threats, detects drones launched from within the controlled sphere of operations
- No licensing required for installation and operation, can be safely used in congested RF environments
- Intuitive web based Graphical User Interface showing exact drone location on 2D and 3D display
- Target data is exported via industry-standard protocols for integration with other security and counter drone systems

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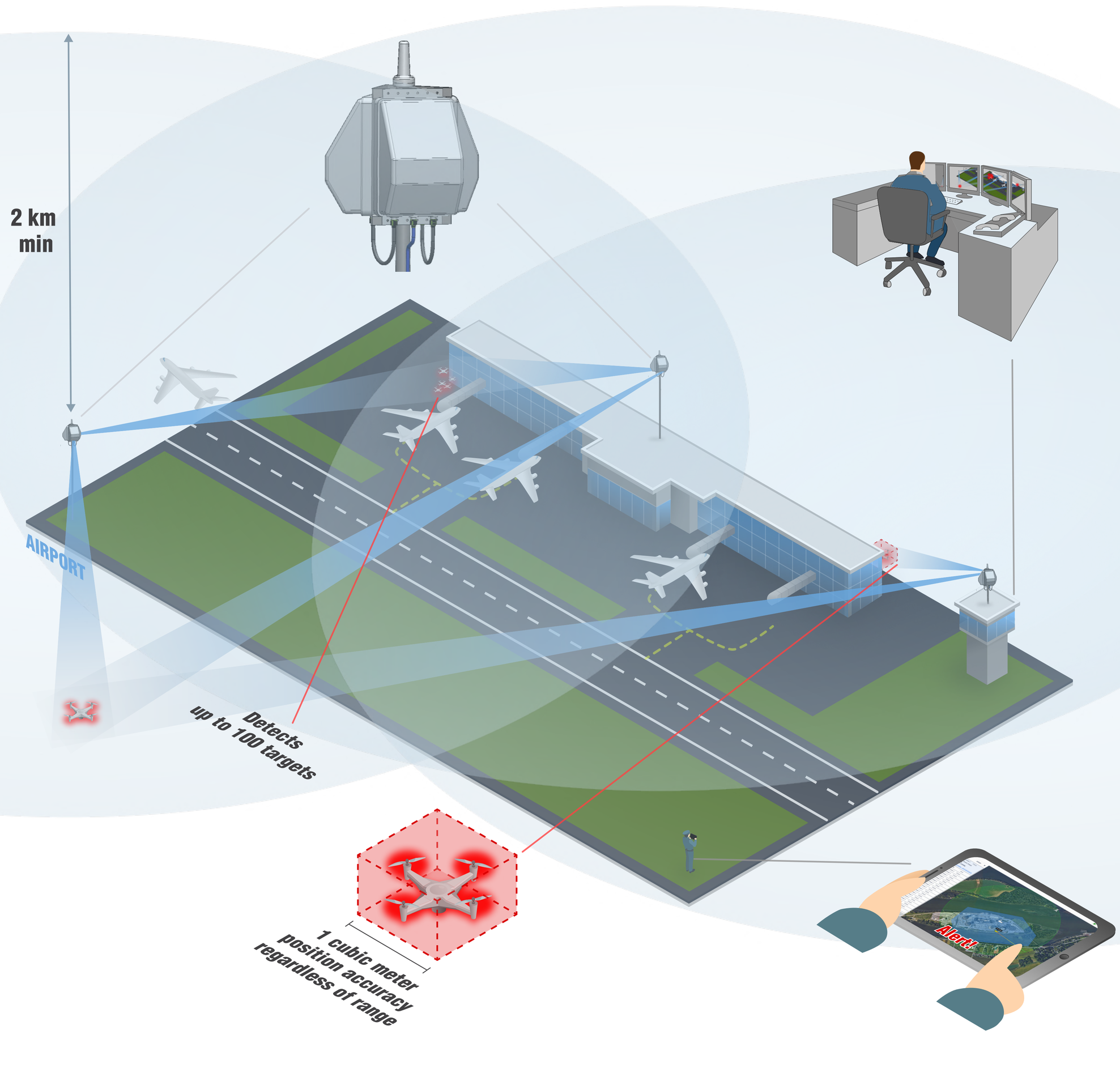
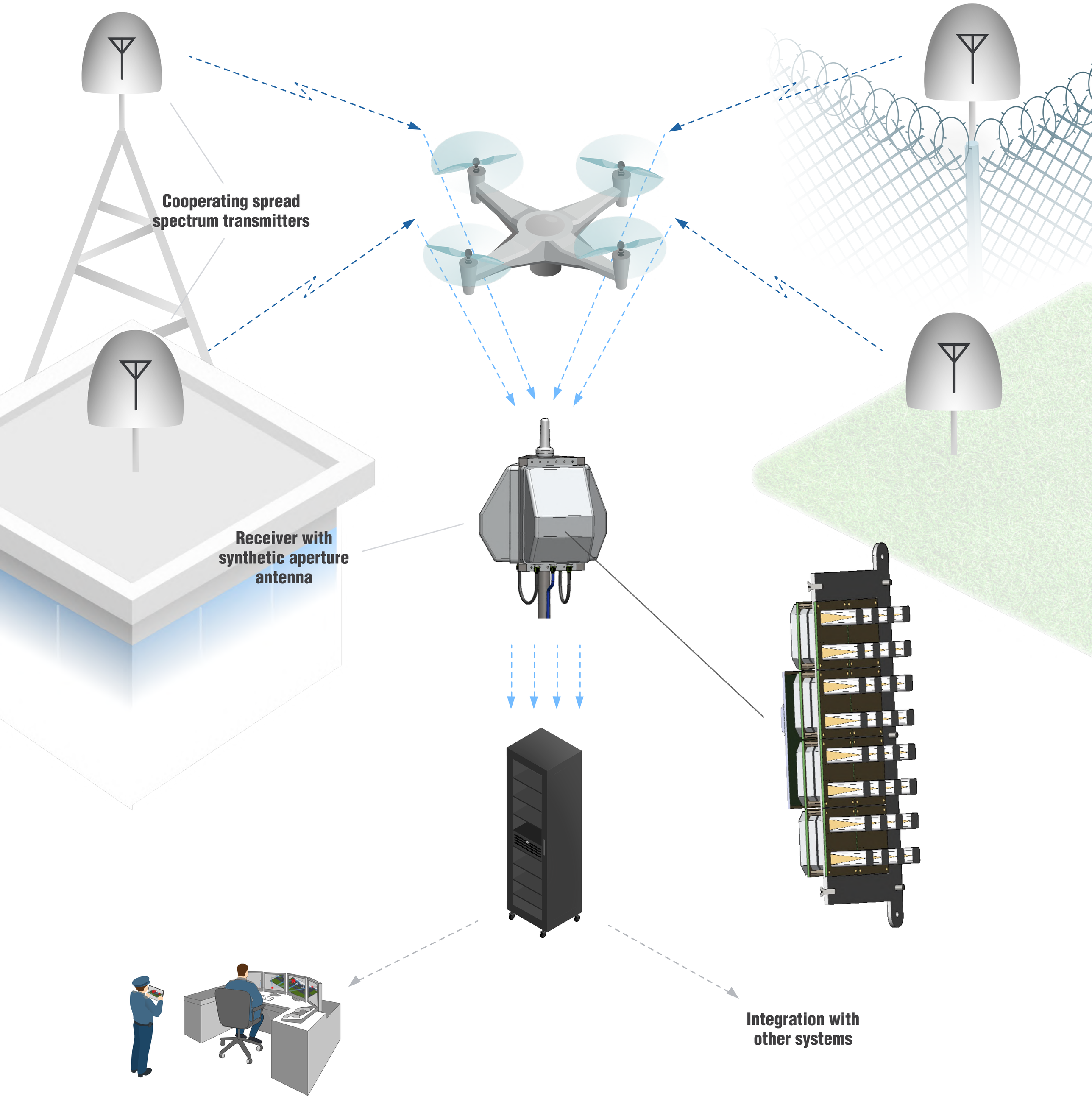


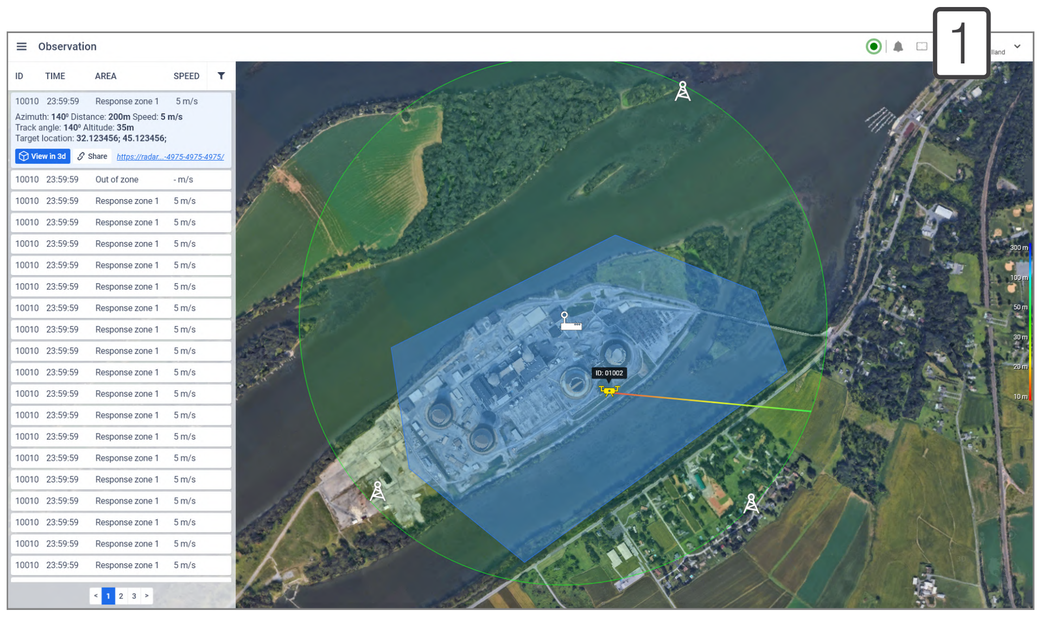
Critical infrastructure, Military installations, Public events, Privacy sensitive facilities and property, etc. The system detects and tracks man-made airborne targets, including UAVs in the operational area, providing situational awareness, target tracking, and integration to other elements of a larger security systems enabling an appropriate response.

PRINCIPLE OF OPERATION BI-STATIC SPHERICAL RADAR



* Minimum system configuration: 1 receiver, 4 transmitters

Additional networked receivers and transmitters can be added to expand coverage area and eliminate blind spots



USER INTERFACE

1. Observation screen with 2d map and realtime data, geofencing
2. Drone tracking screen with 3d map and history data
3. Radar sensors connection and configuration
4. Radar target data logs
5. Map configuration
6. User administration
7. Authorization

DRONE DETECTION TECHNOLOGIES COMPARISON

Criteria \ System	Radio Frequency Monitoring	Acoustic	Optical	CW and MonoStatic RADAR	Spherical View Radar
Range of detection	Good	Poor	Medium	Exceptional	Good
Probability of detection	Poor	Poor	Good [1]	Good	Exceptional
Accuracy of detection	Poor	Poor	Exceptional [1]	Medium	Exceptional
Detection of autonomous drones	No	Yes [1]	Yes [1]	Yes	Yes
Simultaneous detection of multiple drones	Yes	Yes	No	Yes	Yes
Detection in urban environment	Poor	Poor	Poor	No	Exceptional
360° spherical coverage, no blind zones	Yes [2]	Yes [2]	No	No	Exceptional
Licensing required	No	No	No	Yes	No

* 1. if in ideal environmental conditions

* 2. If no external interference