Virtual Ramp Control System For Airports

Manage ramp traffic safely and efficiently from a remote location

Airports often face situations where multiple ramp towers are needed to meet growing capacity demands. The construction of additional facilities to address physical and air traffic growth leads to increased expenditures and resource requirements. Building more facilities may address this problem, but it would only be a temporary solution until demand increases again.

Imagine having the ability to easily adapt your operation to the increasing demands of air traffic growth. The Searidge Technologies Virtual Ramp Control System (VRCS) makes this possible.

Searidge's VRCS simulates an out-of-the-window view of geographically dispersed aprons, de-icing pads, and aircraft parking areas into a single workstation at a remote location, such as an existing Airport Operational Control Centre (AOCC).

The VRCS solution integrates with existing airport data sources (ASDE-X, AODB, etc.) to deliver a graphical interface with real-time positioning and tracking of aircrafts in the movement areas of the airfield. It enables controllers to manage ground traffic safely and efficiently from a remote location.

As airports grow, the implementation of a VRCS will optimize airfield efficiency and utilization. The system's scalability and flexibility will also provide airport planning with peace of mind when experiencing growth and undergoing construction activities.

Features & Benefits

- Intelligent airside security using safe, reliable, live video
- Video of traffic and gate areas for visual confirmation and validation of targets
- Coverage in low-visibility operations
- Automation, which frees up valuable human resources and real estate
- Modular design to accommodate airport growth
- Redundant architecture for ATC and airport use

SEARIDGE TECHNOLOGIES

Implementation: First of Its Kind in the United States

Fort Lauderdale–Hollywood International Airport (FLL).

The Virtual Ramp Control System will allow ground traffic on the North and South sides of the airport, which is currently monitored and directed from a small structure adjacent to the airport's ramp area, to be monitored and controlled remotely in the AOCC.

Searidge's software will gather information from visual sensors and combine it with data provided from AirIT's

Airport Operational Database (AODB) to display information to the ramp controller using a video overlay. Information displayed includes: airport of origin, aircraft type, aircraft call signs, arrival gate, and more.

The airport's goal is to remotely manage ramp traffic safely and effectively. As the airport grows, the implementation of the VRCS will allow maximum airfield efficiency and minimize congestion caused by the ongoing construction of the airport's new runway and taxiways.

Deployment Versatility

The solution versatility provides airports with support for the following **remote applications**:

- Runway monitoring
- Apron management
- Virtual ramp control systems
- Remote tower services
- Incursion monitoring and collision avoidance
- ATC- tower blind spots
- De-icing, parking and cargo monitoring
- Perimeter protection and intrusion alerting
- ASDE/A-SMGCS augmentation

Experienced Team

We have worked exclusively with Airports and ANSPs worldwide for more than 10 years. Fostering continued innovation, our knowledge, experience and global presence make us the right partner to deliver reliable solutions to the market. Searidge was the first company to have an operational video system in an air traffic control tower. Now with technology at more than 30 sites in 16 countries, our video is viewed by the most Air Traffic Control Officers (ATCOs) and airport operations personnel worldwide.

To learn more about our VRCS system and its application at your airport, please contact us to schedule a webinar and technology demonstration.

SEARIDGE
TECHNOLOGIES