SEARIDGE TECHNOLOGIES

DIGITAL APRON: PANORAMIC APRON VISIBILITY & CONTROL

Panoramic apron visibility and operational intelligence from a centralized or remote location.

Digital Apron is a real-time visibility and monitoring solution that establishes a centralized panoramic view of apron activity. By combining high-resolution live airfield video with contextual operational data, Digital Apron allows controllers and airside teams to manage aircraft movements and ground operations across multiple stands from a shared visual environment.

Drawing on Searidge's digital tower heritage, Digital Apron applies proven visual-awareness technology to apron monitoring and control.

Traditional apron management often relies on fragmented visibility, manual coordination, and partial line-of-sight from the tower. Digital Apron eliminates these blind spots, providing teams with the shared operational picture needed to identify developing constraints early and respond before they escalate into disruptions.

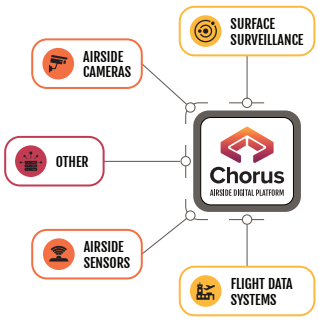
HOW DIGITAL APRON WORKS

HIGH-DEFINITION APRON COVERAGE

A distributed network of 4K cameras delivers continuous, high-definition coverage across the entire apron, including areas where terminals or jet bridges limit direct line-of-sight.

UNIFIED PANORAMIC ENVIRONMENT

Built on Chorus, Searidge's airside digital platform, video feeds are stitched into a seamless panoramic environment shared across a main display and workstations.



CONTROLLER HMI AND WORKSTATION

Controllers operate from dedicated workstations combining heads-up video wall displays for wide-area awareness and heads-down desktop views for detailed control - deployable in any facility, no windows required.

AUGMENTED OPERATIONAL VIEW

Aircraft IDs, surveillance tracks, and weather are integrated directly onto the panoramic image through configurable overlays giving apron controllers full operational context within a single view.

KEY CAPABILITIES

PANORAMIC APRON VISIBILITY

Provides continuous, wide-area visibility across complex apron environments, enabling teams to observe apron activity and ground operations in areas where direct line-of-sight is physically restricted.

INTUITIVE MULTI-VIEW MONITORING

Provides both heads-up video wall displays for wide-area apron awareness and heads-down desktop workstations for detailed, zoomable views - allowing controllers to move seamlessly between the two within a single monitoring environment.

AI-ENABLED MONITORING

When deployed, AI-supported analysis highlights specific conditions, including hazard-zone awareness, aircraft clearance delays, GSE positioning, or tail/wingtip clearance issues.

AUGMENTED OPERATIONAL VIEW

Combines live apron video with contextual data, allowing controllers to view operational data and apron activity with a single, unified interface, helping them identify situations requiring attention more quickly and clearly.

CENTRALIZED AND FLEXIBLE OPERATIONS

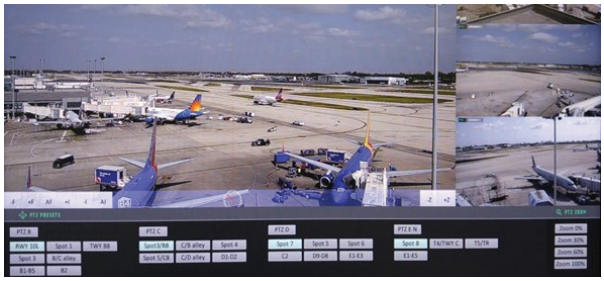
Enables apron control from centralized, windowless hybrid, or offsite environments by reducing dependence on direct line-of-sight, strengthening operational resilience, and supporting flexible operating models across large or complex apron areas.

EVENT REVIEW AND OPERATIONAL PLAYBACK

Maintains a synchronized, replayable record of apron activity and communications, supporting incident review, event reconstruction, and defensible post-event analysis.

DIGITAL APRON IN ACTION

Delta Airlines at LaGuardia



Fort Lauderdale Digital Apron Control System

WHY DIGITAL APRON?

- **Earlier Awareness:** A shared panoramic view helps teams identify developing situations such as stand conflicts or congestion earlier, allowing for quick response before they escalate into delays.
- **Improved Coordination:** Working from a common visual reference point reduces reliance on manual coordination and radio-based information exchange, enabling faster and more consistent decision-making.
- **Effective Capacity Use:** Continuous apron-wide visibility and ground activity supports smoother surface flow, helping airports manage existing infrastructure more effectively.
- **Operational Resilience:** By replacing the traditional out-the-window model with a digital environment, airports can centralize or virtualize apron control independent of physical tower proximity, to better support backup environments and operational resilience.
- **Scalable Digital Foundation:** Built on the Chorus platform, Digital Apron enables seamless data sharing and allows airports to add digital capabilities across the airside without duplicating integrations or creating operational silos.

SEARIDGE TECHNOLOGIES

Ready to centralize your apron operations? Connect with our team to schedule a personalized demo and see how Digital Apron can help you improve awareness, alignment, and capacity utilization across your apron environment.

For more information on our solution or to speak to our team:

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