

# DTVA



DTVA is a high-end digital tower video system providing enhanced vision and AI-powered monitoring for upgraded airside control.

## Transforming Airside Operations

Using ultra-high-resolution panoramic cameras and AI-powered Computer Vision, DTVA replicates and enhances the traditional tower experience, offering an unprecedented level of detail and elevated situational awareness. It delivers a seamless 360-degree view of the ground and also the airspace with a resolution level that can exceed the limits of the human eye. DTVA enables operators to manage complex airside tasks from a dedicated monitoring room making it an ideal solution for contingency, emergency, and remote tower applications.

## How can you benefit by using DTVA?

- DTVA is able to enhance airside monitoring at large airport hubs by incorporating AI and AR technologies, enabling air traffic controllers to make data-driven decisions in both routine or critical situations while receiving augmented, real-time information at their workstations.
- The system delivers fully functional visual feedback for emergency or contingency towers, ensuring continuous air traffic control operations when the main physical tower is out of action, minimizing disruptions and maintaining operational safety.
- DTVA supports remote operations, allowing for the centralized monitoring of multiple smaller size aerodromes from a single remote tower center, reducing infrastructure and operational costs.
- DTVA delivers low-latency, real-time video streams that enable air traffic controllers to monitor airside operations with high precision and reliability.
- The system automatically detects, classifies, and analyzes both cooperative and non-cooperative objects in the monitored area, automatically registers landings and take offs, moreover alerts for runway incursions.
- DTVA includes glide path monitoring through a dedicated dual-vision camera equipped with a thermal module, ensuring accurate oversight of aircraft approach and landing even in low-visibility conditions.

## Technology helps see and understand more

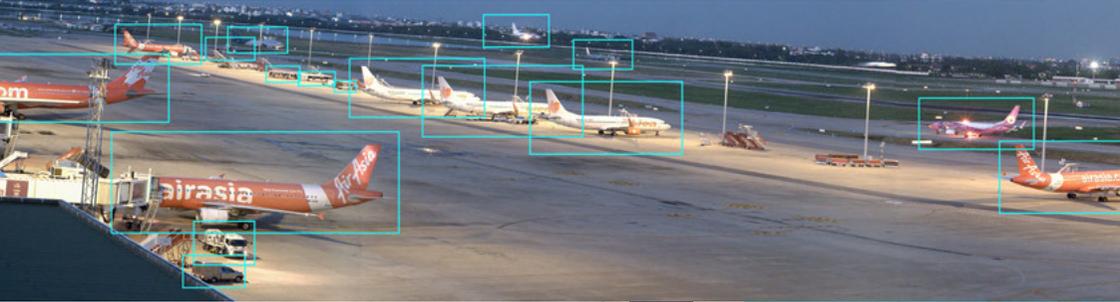
Logipix Panoramas deliver high-resolution images ranging from 300 to 906 MP, vastly surpassing the capabilities of standard 4K cameras and even the human eye. Operators can take advantage of this immense resolution by using digital zoom to create binocular views, allowing them to focus on distant objects with exceptional clarity. The true power of the system lies in its edge AI algorithms, which analyze these massive images in real time. By processing full-size visuals, the AI can detect irregularities that may be invisible to operators, no matter how far away they occur. This proactive detection enables the system to guide operators' attention toward critical events or areas, allowing them to focus on what matters most. As a result, situational awareness is significantly elevated, helping operators make faster, more informed decisions that enhance both safety and efficiency across the entire airport.

## A solution for versatile scenarios

DTVA offers a flexible and scalable solution, making it ideal for airports of all sizes, from small regional hubs to large international hubs. It can complement a physical tower, whether installed within the tower itself, at a separate location on-site, or even at a remote location. Additionally, DTVA could serve as the intelligent eye for contingency and emergency towers, ensuring uninterrupted operations in critical situations. The system's resolution and configuration are customized to each airport's specific requirements, with camera placement and numbers tailored for optimal coverage.

**DTVA not only replicates the tower view for operators but also enhances detection of irregularities and potential issues, while facilitating faster, more informed decision-making through advanced AI technology.**





## ABOUT LOGIPIX

Logipix is among the most innovative technological companies in the world, developing and manufacturing smart video monitoring solutions specifically for large-scale projects and wide areas. Our company is deeply engaged with the constant research and development to provide complete, intelligent systems using the latest microelectronic and computer technology available, while considering the specific characteristics of different application areas. With many years of experience improving some of the largest and busiest airports around the globe, Logipix can be your trusted company, who contributes to create safer, sustainable and more efficient environments at your airside.