



Enhancing Security at Miami International Airport with FiberPatrol FP1150

Miami International Airport (MIA), a globally recognized transportation hub, faced significant challenges in securing its extensive Air Operations Area (AOA). Unauthorized access to this critical zone could lead to operational disruptions and security risks to airport and airline staff, and to aviation assets. To achieve the overall level of security they were after, MIA chose to provide their security teams with a modern physical perimeter intrusion detection system (PIDS) that detects unauthorized access into the AOA and pinpoints the exact location of the intrusion. As part of the overall solution, Senstar's FiberPatrol FP1150 fiber-optic fence-mounted sensor was selected.

SOLUTION

In the summer of 2024, MIA installed the **Senstar FiberPatrol FP1150**, a state-of-the-art perimeter intrusion detection system. The **FiberPatrol FP1150** is uniquely suited to the airport environment, offering long-distance coverage with a single, centrally located controller. Key features included:

- **High Probability of Detection with Minimal False Alarms:** Advanced fiber optic technology sensitive enough to detect any intrusion with algorithms to reject the effects of weather
- **Ease of Installation:** A single fiber-optic cable is attached to the fence with standard cable ties, minimizing installation complexity and costs
- **Lightning Immunity:** Ensures uninterrupted operations in Florida's lightning-prone environment
- **Seamless Integration:** Fully compatible with MIA's security management system

The system was installed along a portion of the airport perimeter, addressing the most critical areas.



FiberPatrol FP1150 installed at Miami International Airport

BENEFITS

The installation of FiberPatrol FP1150 has already provided MIA with several tangible benefits:

- **Enhanced Security:** Improved ability to monitor and secure the perimeter, reducing vulnerabilities to unauthorized access
- **More Effective Use of Security Staff:** Security staff spend less time doing regular patrols and can be deployed more flexibly throughout the airport
- **Operational Continuity:** Lightning immunity ensures system reliability and eliminates repair costs



FiberPatrol FP1150 Processor

WHY SENSTAR?

The evaluation team looked at various competitive solutions before selecting Senstar. The FiberPatrol FP1150 stood out for its:

- Proven effectiveness in large-scale, high-risk applications like airports
- Exceptional value in terms of installation and maintenance costs
- Ability to integrate to MIA's chosen security management system

LOOKING AHEAD

While the current installation covers only a portion of the airport's perimeter, MIA has plans to potentially expand the system in the future to ensure comprehensive coverage. This phased approach allows for continuous improvement and scalability.

CONCLUSION

The deployment of Senstar's FiberPatrol FP1150 at Miami International Airport is a testament to the solution's effectiveness in addressing the unique security challenges of large, complex environments. By enhancing perimeter security and operational efficiency, Senstar once again demonstrates its position as a trusted partner in critical infrastructure applications such as airport security.