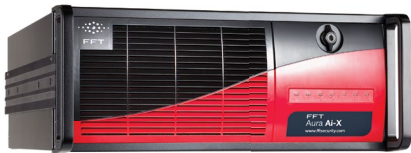


AIRPORTS



Aura Ai-X CASE STUDY

INTERNATIONAL AIRPORT, UNITED ARAB EMIRATES

BACKGROUND

Dubai International Airport is the primary international airport serving Dubai, United Arab Emirates, and as of 2023 is the world's busiest airport by international passenger traffic. The airport is situated in the Al Garhoud district and is spread over an area of 7,200 acres (2,900 hectares) with a perimeter of approximately 16 kilometres (10 miles).

CHALLENGE

With the client experiencing difficulties with nuisance alarms from an older PIDS controller, FFT offered to install its latest generation intrusion detection technology to demonstrate how machine learning could improve system performance, while seamlessly integrating with existing security infrastructure. The airport operators required Aura Ai-X to consistently deliver a probability of detection above 95% with a nuisance alarm rate of less than 5% before proceeding with the upgrade.

SOLUTION

To maximise intrusion detection while minimising false alarms, FFT's R&D team customised the PIDS machine learning algorithm using data from its global system installation library to process the environmental noise typically associated with a busy international airport. The demonstration Aura Ai-X controller was then installed and rigorously tested - immediately delivering results that exceeded client expectation. Multiple Aura Ai-X systems have now been installed to protect the perimeter of Dubai International Airport and the thousands of passengers and employees who pass through the gates every day.

Perimeter intrusions at busy airports can have serious consequences, regardless of the intent. Aura Ai-X seamlessly integrates with existing security physical systems to deliver real-time intrusion alerts to airport staff - including precise location information to support event verification and rapid response.

