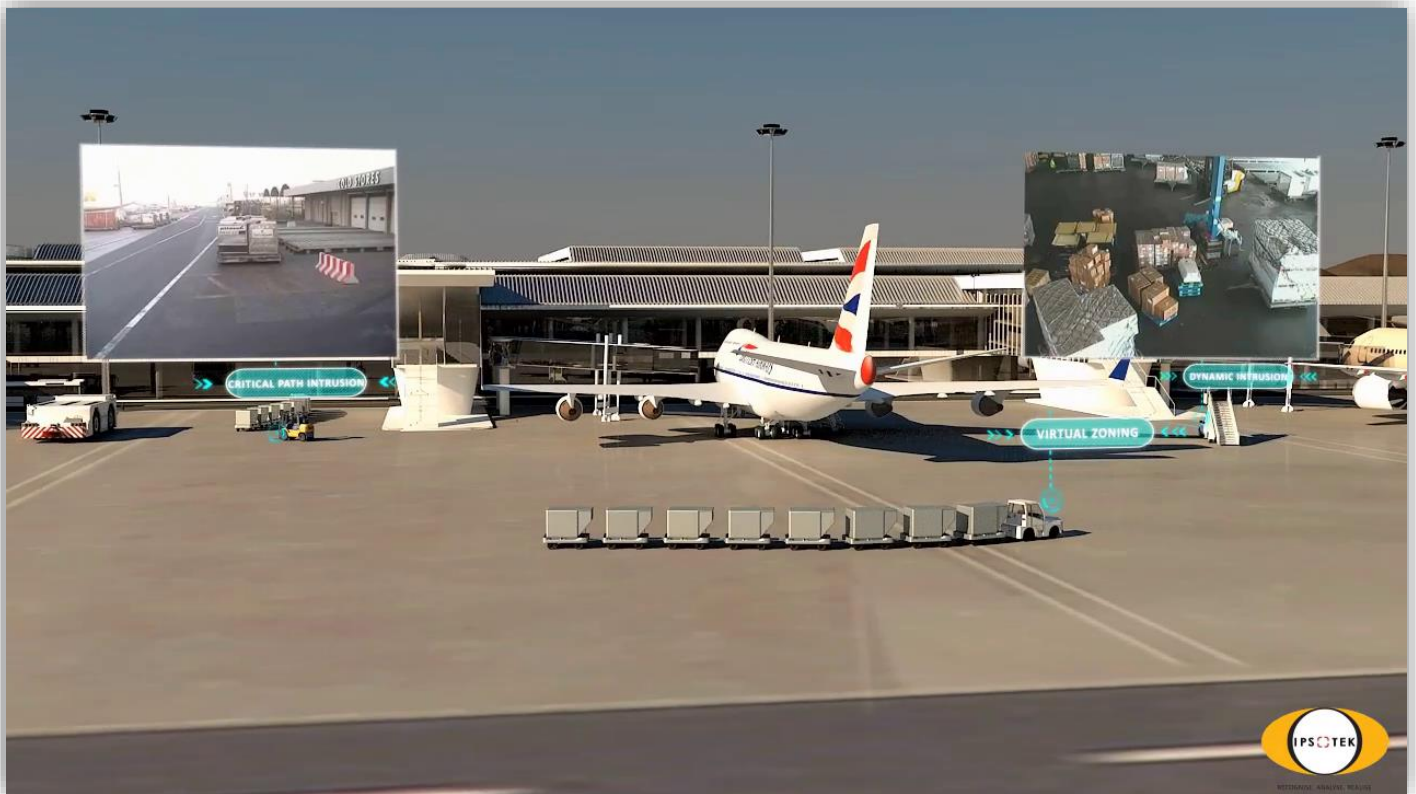


Ipsotek Aviation References



RECOGNISE. ANALYSE. REALISE.

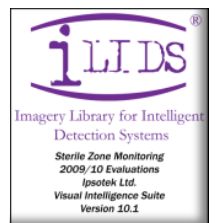


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RECOGNISE. ANALYSE. REALISE.

1. Introduction

Since its inception in 2001, Ipsotek has grown into an award-winning video analytics company known for its achievements throughout the years, delivering Advanced Video Analytics at a number of projects in different industries around the world.

The aviation industry is a fast-paced, ever-changing environment that requires faultless high levels of security. Ipsotek has developed and successfully deployed an Airport Suite of advanced video analytics solutions; specifically designed to increase security whilst providing significant cost savings and an enhanced service quality. Ipsotek's video analytics have improved the efficiency of identifying threats; enabling a reduction in security personnel required to manually police airport areas, and thereby also eliminating the risk of human error.

Ipsotek offers four core solutions designed to improve safety, security, and operational efficiency in the aviation industry:

VISuite is the core Video Analytics engine that implements the Ipsotek patented Scenario-Based Rule Engine (SBRE). The SBRE is a powerful tool to define behaviours of interest acutely as they unfold in the real-world dynamic and complex environment. The SBRE GUI is derived from conceptual description of activities as they are explained by a human operator.

Through integration with 3rd party systems VHost can resolve complex behavioural patterns that include data from Video Analytics fused within formation from access control, ANPR, Face Recognition, PIDS systems among many other 3rd party technologies.

VIFace is a Facial Recognition solution that instantly detects, tracks, and recognises multiple faces in live video. Faces are simultaneously compared against image galleries in real-time. VIFace can be combined through Ipsotek's SBRE with other Ipsotek solutions in order to improve event detection and tracking accuracy.

VIForensics is the forensic search tool that operates on the metadata provided by VISuite to scan through pre-analysed video and search for an event or for a face. VIForensics works by searching the metadata that has been collected and stored by VHost and provides an effective way for content-based video retrieval. The metadata contains information about every object, person, and vehicle the Video Analytics system has detected and tracked. This information includes the object's direction, speed, colour and path that it took.

Tag and Track is an award-winning tracking system that operates on a network of overlapping and non-overlapping CCTV cameras to track a "tagged" individual. The metadata generated by VISuite is used to determine the path of individuals across the camera network. In an operational role, once a person has been tagged, the system takes over and automatically follows that person, intuitively waiting and reacquiring them should they disappear into areas not covered by the CCTV network.



2. References

The below table highlights 38 deployments at 26 airports worldwide that Ipsotek technology is deployed at.

Year	Airport	Solutions
2018	Abu Dhabi (AUH), MTB, UAE	VA, FR, Tag and Track, VIForensics
	Muharraq (BAH), Bahrain	VA, FR, VIForensics
	Jakarta (CGK), Indonesia	VA (two projects)
	Toulouse-Blagnac (TLS), France	VA, VIForensics
2017	Abu Dhabi (AUH), MTB, UAE	VA, FR, Tag and Track, VIForensics
	Amman (Marka) (ADJ), Jordan	VA
	Balikpapan (BPN), Indonesia	FR
	Birmingham (BHX), UK	VA
2016	Hurghada (HRG), Egypt	VA
	Changi (SIN), Singapore	VA
	Calgary (YYC), Canada	VA
	Jakarta (CGK), Indonesia	VA
	Doha (DIA), Qatar	VA
2015	Muscat (MCT), Oman	VA
	Salalah (SLL), Oman	VA
	Al Bateen (AZI), UAE	VA
	Calgary (YYC), Canada	VA (two projects)
	Edinburgh (EDI), UK	VA
	Southend (SEN), UK	VA
	Liverpool (LPL), UK	VA
2014	Abu Dhabi (AUH), UAE	FR
	Al Bateen (AZI), UAE	VA, FR, Tag and Track, VIForensics
	Glasgow (GLA), UK	VA
	Heathrow (LHR), UK	VA
	Doha (DIA), Qatar	VA
2013	São Paulo (GRU), Brazil	VA
	Al Ain (AAN), UAE	VA, FR
	Bristol (BRS), UK	VA
2012	Belfast (BFS), UK	VA
	Birmingham (BHX), UK	VA
2011	Heathrow (LHR), UK	VA
	Manchester (MAN), UK	VA
	Edinburgh (EDI), UK	VA
2009	Heathrow (LHR), UK	VA
2008	Sakhir (ICAO), Bahrain	VA
2007	Dublin (DUB), Ireland	VA