



Horizon - Integrated Passenger Security System



Ultra Electronics are creating customised solutions to meet the security needs of airports and airlines. By using our expertise in communications, airport systems & security technologies we can create customised systems that protect and shield a passenger from any security breach throughout their entire journey.

Key Capabilities:

- Video Transmission from the aircraft to the ground
- Passenger Tracking
- Existing Systems Integration
- Identity Control & Management

Background

Passengers travelling by air come into contact with many security systems throughout their journey, almost none of which interact with each other. By integrating these systems together, greater situational awareness can be achieved and passenger security enhanced.

During many stages of a passenger's journey, security is either very lax or non-existent. One obvious stage is during flight, while passengers are under surveillance all the way until boarding an aircraft, once the aircraft begins its journey there is no visual means of determining what is happening inside. Another stage is during baggage loading and maintenance on the aircraft. Work around the airport should be secured to eliminate theft or sabotage.

With the advent of technologies such as RF tagging/tracking and intelligent video processing we can track passengers throughout the terminal and make sure departure times are not delayed due to the unknown location of passengers.

Requirement

A dynamically secure environment for passengers and crew throughout every stage of their journey, whether in the terminal or flying at 35,000 feet.

Staff should feel secure in dealing with abusive passengers and pilots confident in knowing every situation both internally & externally on their aircraft.

Solution

By closely examining existing security measures, we determine any critical security links and associated weaknesses. Then by working closely with our customers develop a customised solution that overcomes any of these weaknesses, to give airlines and airports a comprehensive risk managed environment.

Solutions include:

- Wired & wireless cameras throughout the aircraft, enabling situational awareness information to be viewed both by crew onboard the aircraft and, via satellite, by staff on the ground.
- Intelligent video processing to determine unusual passenger behaviour such as loitering or left baggage
- Keycards and facial recognition to control access to restricted areas or stop unauthorised people approaching baggage or an aircraft
- Mobile monitoring of video feeds on PDAs for security personnel and Federal Air Marshals.
- Passenger tracking for check in to arrival and through Customs.