



Mach-SmartSense®



Checkpoint Personnel & Asset Tracker

- Precise Real-Time Location System
 - Improving operational efficiency
 - Reducing queue waiting times and congestion
 - Enhancing overall public safety, security and service
- 30cm Location Accuracy with 2D & 3D Visualisation
- Maximises Floating Resource Deployment
- Valuable Asset and Security Equipment Tracking
- Erroneous Movement Alerts
- Incorporates the ability to introduce
 - Real Time Movement Reports and Statistical Data
 - Integration to CCTV tracking

Mach-SmartSense® Checkpoint Asset & Personnel Tracker

Mach-SmartSense® is a comprehensive real time positional system, tracking personnel and assets throughout the complete checkpoint security facility to within 30cm.

Mach-SmartSense® personnel and asset tags transmit ultrawideband (UWB) radio signals to a network of fixed sensors which provides the location of each tag in the Checkpoint facility. Each tag is associated with a person or asset within Mach-SmartSense® database Providing checkpoint security management with 2D or 3D visualisation, enabling instant location of all security personnel or high valued assets.

With the availability of Mach-SmartSense® real time positional data, checkpoint security management can avoid potential congestion areas by rapidly deploying floating resources to where they are most needed.

The new Mach-SmartSense® addresses the security requirements and problems of the transport industry globally and satisfies these objectives with a totally integrated system that offers fast, efficient, secure and accurate screening of hand baggage.

With passenger satisfaction being of paramount importance, it has been recognised that the passenger experience is significantly enhanced when presented with the controlled, secure and managed environment that the Mach-SmartSense® solution guarantees.

Growing numbers of passengers mean that the challenges we face today will be greater tomorrow – Mach-SmartSense® is a scalable solution which is designed to cope with major increases in passenger traffic.

- ① Floating Resources
- ② Help Alarm
- ③ Security Offices Work Location
- ④ High Security Tray
- ⑤ High Value Asset Location



Mach-SmartSense® can be configured to enable Help and Erroneous Movement Alarms.

Help alarms are activated by the simple operation of pressing a button on the positional tag. An instant message will be displayed “Help required” together with location and operator details.

Erroneous Movement Alarms are activated by a positional tag being moved into an undesignated zone. An instant message will be displayed “Erroneous Movement” together with location, operator and/or asset details.

Together with Mach-SEMS® all personnel and asset movements and location can be logged ensuring the management have the full statistical data available for detailed analysis of operational efficiency and security concerns.

Mach- Secure® - Integrated Airport Security Solutions

The Mach-Secure® suite of innovative products and systems has been specifically designed for Airport security applications. These dedicated products and systems address the day to day operational and financial challenges faced by today's modern businesses. The Mach-Secure suite of products and systems will dramatically increase the overall efficiency of an Airport's security systems whilst enhancing the passenger experience and lowering the operational costs. For the first time Mach-Secure® introduces a totally integrated system solution to the Airport security environment.

Mach-Secure® Airport Security Products:

- Mach-SEMS® - Security Efficiency Management System
- Mach-SmartLane® - Automated Tray Handling
- Mach-SmartView® - Remote Search Facility
- Mach-SmartViewMatrix® - Centralised X-Ray Security Screening System
- Mach-SmartVision® - Integrated CCTV
- Mach-SmartSense® - Personnel Tracker
- Mach-SmartAccess® - Access Control
- Mach-SmartRoster® - Personnel Roster System
- Mach-SmartBRS® - Baggage Reconciliation Systems
- Mach-SmartSAC® - Security Audit and Sortation Systems
- Mach-SmartRegister® - PAX / Airline Spend Profile & PAX Locator
- Mach-SmartTutorial® - In Line Security Training
- Mach-SmartARCS® - Airport Regulatory Compliance Systems
- Mach-SmartPredict® - Dynamic Real Time Equipment Utilisation Planning
- Mach-SmartPupil® - Security Vigilance Monitoring System
- Mach-SmartDrop® - Automated Passenger Bag Drop
- Mach-SmartFlow® - Queue Analysis Management System

The Mach-Secure® suite of products and systems offers a coherent, structured and centrally controlled solution to provide the secure Airport of the future.



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