

# vScan Security System

## *An Interactive Visual Collaboration System for Access Control and Perimeter Protection*

### **Application Areas**

- Airports
- Large Events
- Border Control
- Office Buildings

There is an exponential growth in demand for security systems in the areas of Access Control and Perimeter Protection. Automated security technologies, such as Face Recognition and Identity Provisioning, serve as the first lines of defense. However, there remains a critical need to supplement these technologies with interactive visual communication between inspectors at checkpoints and security experts in central control rooms. vScan combines VCON's unparalleled interactive video technology with advanced biometric techniques. Going beyond the most advanced Face Recognition technology available in the industry today, vScan adds capability for fully interactive visual communication between field security personnel and centrally located experts. The result is an interactive visual collaboration network of geographically dispersed security personnel aided by automated security technologies. The vScan solution is based on VCON's IP-Networked Interactive Visual Communication technology, leveraging an underlying IP network that enables delivery of mass amounts of multimedia data from multiple checkpoints to remote control centers, reliably and in real-time.

### ***Live Distributed Video Capture***

VCON 's interactive video implements advanced compression and transmission capabilities, video switching infrastructure, and a wide range of video endpoints.

### ***Biometrics***

vScan implements advanced data fusion techniques to combine industry-leading Face Recognition technology and other biometrics to enable identity verification and comparison to an existing database of known suspects.

### ***Interactive Visual Consultation and Collaboration***

Visual communication is critical to enable inspectors to consult with supervisors when suspicions arise. Security inspectors at checkpoints consult with supervisors at remote control centers by interacting visually to analyze suspicious persons or objects. From a remote control center, supervisors have fully functional control of the security process at all checkpoints.



*vScan provides the highest level of security performance for terrorist identification, personal identity tracking, and crisis control.*

## vScan for Advanced Airport Security

*vScan was developed for a variety of security applications, one of which is Airport Passenger Control.*

Using VCON 's video endpoints, vScan captures a video image of a passenger, comparing him to previous video images from earlier checkpoints. Face recognition technology ensures he is not an imposter. Also, vScan will automatically compare the passenger's video image to a database of known criminal or terrorist suspects.

In the event that an inspector encounters a suspicious person or object, vScan enables interactive visual collaboration between inspectors and their supervisors in remote control centers. For example, suspicious objects in x-rayed luggage can be circled by the inspector and/or the supervisor and examined together in real-time.

### vScan's visual inspection and collaboration GUI:

Display selection: Passenger or Inspector

Airport security inspector consults with supervisor

Passenger's Check-In image compared to database of suspects below

Passenger's image at gate is verified against Check-In image

Database of known suspects

Video acquisition process

X-rayed baggage

Supervisor watches the passenger in live video as his x-rayed baggage is examined

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