



Facelt® Argus Facial Screening

Boost Your Loss Prevention Efforts with Real-time Identification of Shoplifters

Facelt® Argus Facial Screening helps retailers:

- Reduce losses due to shoplifting, employee theft, organized crime and retail fraud
- Leverage growing availability of retail crime databases
- Increase revenue streams through exceptional customer service

Retailers worldwide lose billions of dollars in revenue each year from shoplifting, employee theft, organized crime and retail fraud.

Data sharing initiatives between law enforcement and the retail industry promise to give retailers unprecedented ability to minimize these losses. The success of these initiatives hinges largely upon retailers' ability to harness massive amounts of data and transform it into intelligence that can be used to effectively identify and apprehend criminals.

Following years of development, fine-tuning and in-use validation, face recognition technology is, today, a proven technology for reliable, automated human identification.

Facelt® Argus Facial Screening is a face recognition-based tool designed specifically for the real-time identification needs of law enforcement. Facelt Argus makes the identification of wanted individuals easier for security personnel as it acts as a security barrier, providing actionable intelligence based on accurate identifications. Facelt Argus can relay alarm information to security officers on the scene in real-time. Because of the high accuracy of the underlying Facelt engine, the system has the ability to help identify large numbers of unfamiliar faces

quickly, distinguishing between look-a-likes and even twins.

While Facelt Argus is designed primarily as a loss prevention tool, it also has the potential to be used as a customer service tool that increases revenue streams by facilitating exceptional service.

MORE ACCURATE, REAL-TIME FACIAL IDENTIFICATIONS

- MultiView enroller compensates for pose and angle variations
- Facelt matching technology combines facial geometry and skin texture for maximum accuracy
- Adjustable thresholds accommodate changing security needs

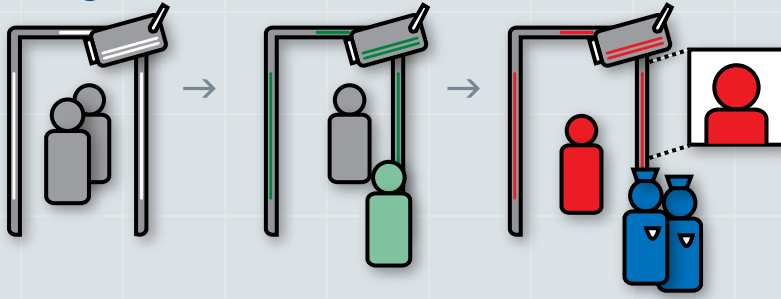
MORE EFFECTIVE USE OF RESOURCES

- System provides list of possible matches in real-time for human verification
- Operators can focus on suspicious persons versus general public
- Multiple watchlists can be monitored simultaneously
- Alarm details are customizable

EASY INTEGRATION INTO EXISTING INFRASTRUCTURE

- COTS high-resolution cameras, hardware, and databases
- Existing local image files
- Identix® ABIS® System backend for scalability and fault-tolerance

Facelt® Argus Process



How It Works

1. System and cameras are installed where people pass through critical locations.
2. Those who are not on watchlists do not trigger any alarms and are able to pass.
3. Criminals on watchlists trigger alarms to alert security personnel in real-time.

Facelt® Argus Screenshots



MultiView Enroller

Creates multi-pose 3D face models from 2D images and enrolls them into the ABIS® System.



Screening Monitor

Receives search results and relays alarms to client.



Face Capture Module

Finds faces in live video, assesses their quality, and submits them to the ABIS® System for search.



Alarm Monitor

Sample application that can be customized to send alarm detail to PDAs or other devices.

ABIS® System Search Engine

Handles the back-end search functionality using the highly accurate Facelt® algorithms. Scales to meet throughput requirements and any number of camera inputs with built-in fault tolerance.

System Requirements

Operating System	Windows XP Service Pack 2
Face Capture Module	Intel Pentium 4 3.2 GHz Processor or faster 512 MB RAM Firewire (IEEE 1394) interface
MultiView Enroller and Screening Monitor	Intel Xeon 3.2 GHz Processor or faster 1 GB RAM
ABIS® System	Back-end configured separately to meet throughput and camera input requirements

Real World Experience

Customer: Hudson's Bay Company (Hbc), Canada

Background: In the first project of its kind in the retail industry, Canada's largest diversified general merchandise retailer with more than 600 retail outlets, developed the Hbc Biometrics Facial Recognition Project using Facelt Argus to aid in loss prevention.

Solution: Their solution is used to create an alert and notification system for its loss prevention investigators when known offenders enter a branch of the retailer giant.

Results: The system has generated 22 alerts to date resulting in six arrests.

"Innovation is a way of life at Hbc and we wanted to improve our loss prevention efforts in an innovative and effective way without being intrusive. We researched current technology providers and found L-1's face recognition solutions to be the most advanced and ready for implementation."

Don Jobe

Gen. Mgr. of Loss Prevention
Hudson's Bay Company

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