



## Facelt® Argus Facial Screening

Real-time identification of subjects on watchlists

Facelt® Argus is a real-time facial screening solution for a variety of market applications including, but not limited to:

- Border Crossing
- Transportation
- Sensitive Facilities
- Commercial
  - Retail
  - Banking
  - Casino

Identifying wanted people is always a challenge for inspection officers and security personnel. With Facelt® Argus, the job is much easier. Facelt Argus acts as a security barrier, providing actionable intelligence with more accurate identifications so security officers can be more effective. 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-alikes and even twins. It works with commercial, off-the-shelf equipment and interfaces with existing facial image files for fast, easy integration. With a scalable system design that can accommodate any number of cameras feeding into a central database, Facelt Argus can handle the throughput requirements of any size deployment.

### 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

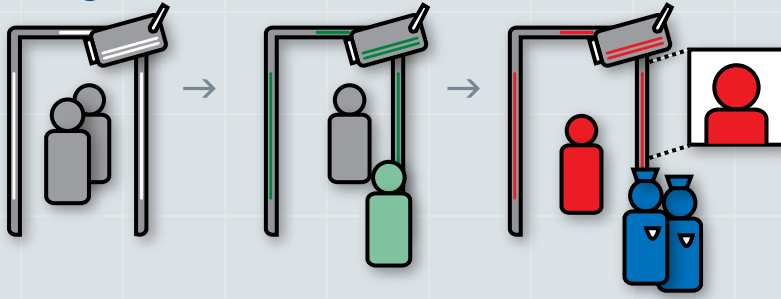
### MORE EFFECTIVE USE OF RESOURCES

- 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
- 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 clients



### 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 and other handheld devices.

### ABIS® System Back End

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

## System Requirements

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

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## 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  
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