

From: Lisa De La Rionda [address deleted]
Sent: Tuesday, May 07, 2002 5:06 PM
To: [Randall Marshall]
Cc: Laura Beebe
Subject: RE: public records request

Mr. Marshall,

Attached please find the public information you requested regarding the interim report of the facial recognition technology test going on at Palm Beach International Airport. The forth page you referred to is a spec page from the Visionics web site and not transmittable in this email. This report is based on the first 4-weeks of an 8-week test period. Please confirm receipt of this information.

Thank you.

Lisa De La Rionda
Public Information Officer
Palm Beach County Department of Airports

cc: Laura Beebe, Assistant County Attorney, Palm Beach County

-----Original Message-----

From: Randall Marshall [address deleted]
Sent: Thursday, May 02, 2002 1:43 PM
To: [Lisa De La Rionda]
Subject: public records request

Ms. Lisa De La Rionda:

This is to confirm my request for a copy of the four page interim statistical report regarding facial recognition technology testing at PBIA. Thank you for your cooperation in this matter.
Randall C. Marshall, Legal Director
American Civil Liberties Union of Florida

Facial Recognition System Test (Phase I) Summary.

Palm Beach County, Department of Airports conducted a test of the Visionics “Argus” facial recognition system. The purpose of the test was to ascertain the effectiveness of this technology in an airport checkpoint environment.

Utilizing a test group of 15 airport employees and a data base of 250 photographs, the system features that were tested included:

- Face capture rate.
- False alarm rate.
- The ability to successfully identify test group against database photographs.

The data collected and compared to the manufactures advertised specifications revealed the following:

- Input photographs populating the database need to be of a good quality to avoid false alarms and insure successful matches.
- Motion of test subject head has a significant effect on the system ability to both capture and alarm on test subject.
- There was a substantial loss in matching if test subject had a pose 15 to 30 degrees (up / down, right / left) off of input camera focal point.
- Eyeglasses were problematic, glare from ambient light and tinted lenses diminished the systems effectiveness.
- System required approximately 250 lux of directional lighting to successfully capture faces and alarm on test subjects.
- Face capture rate was approximately 10,000 face captures per day. The actual traffic through the security check point is approximately 5,000 ticketed passengers and airport employees. There were multiple face captures for each event.
- The false alarm rate was approximately .4% of total face captures. Or about 2 – 3 false alarms per hour.
- Of the 958 total combined attempts there were 455 successful matches, (47% successful rate).

**Test conducted at Palm Beach International Airport
Concourse C security checkpoint, March 11th through April
15th, 2002.**

Facial Recognition Test Data Phase I

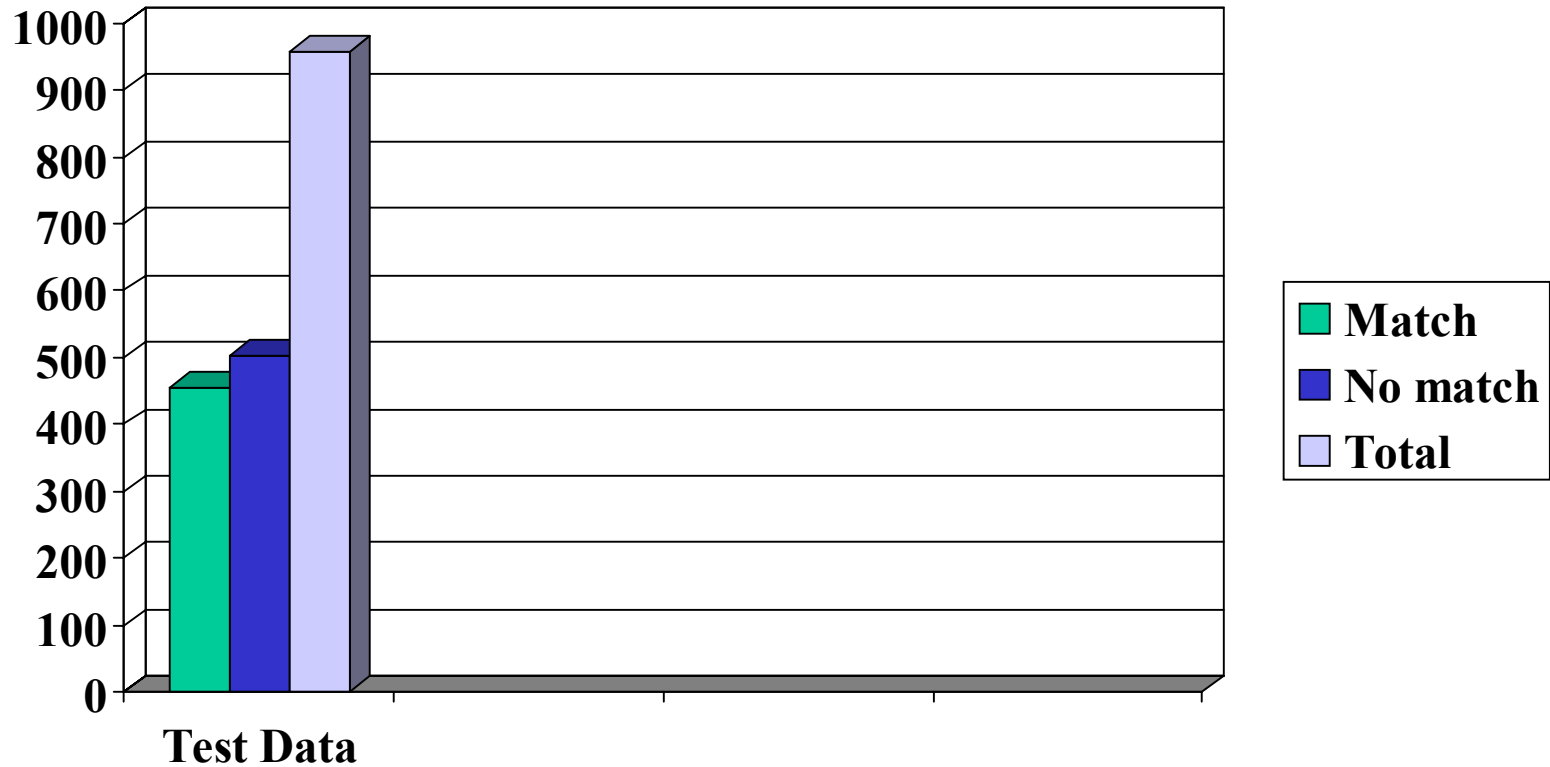
March 11th – April 5th

Data collected from 15 Airport Employee Volunteers.

Combined total attempts = 958

Successful matches = 455

Unsuccessful matches = 503



Facial Recognition System Argus Alarm Data

Multiple alarms (both correct & false) on each alarm event.

Security Check point “through-put” traffic is approximately 5000 passengers per day. Average face capture rate is 10,000 per day.

Total alarms = 3,455

Correct alarms = 2,374

False alarms = 1,081

