

# Face Recognition for Law Enforcement

## Problem 1: Release of Wrong Inmate

An inmate's appearance may change during an extended stay in jail. Law Enforcement officers can find themselves in the position of not knowing if the inmate who is up for release is actually the person arriving for release. A violent criminal might force his fellow inmate, who shares criminal's general physical characteristics, to give his identification documents, allowing the criminal to escape the prison.

## Problem 2: Suspect Identification

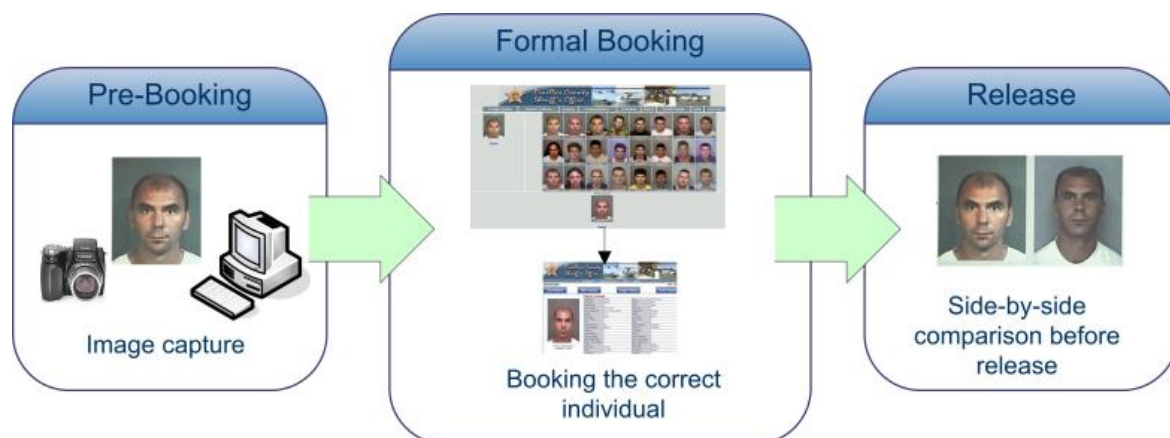
During suspect identification process, the most prominent problem results from the lack of timely information, which often allows suspects to get away with providing false identification, hampering law enforcement, and sidetracking investigations.

## Solution: Viisage Face Recognition Technology

Viisage's Face Recognition technology is designed to identify a person using distinguishing facial traits. It has become one of the most promising and powerful technological developments for the Law Enforcement to address the issues of identity in the booking, release, and criminal investigation processes. It's a tool that complements deputies' training and judgment and reduces costly delays that can occur when attempting to ascertain an suspect's true identity.

## How the Solution Works?

- **Pre-Booking:** Immediately after an individual enters the jail, his or her photograph is taken. The image is used to establish the arrestee's physical condition upon arrival at the jail and is saved in the individual's record for future investigations.
- **Formal Booking:** The picture and basic demographic information captured in the pre-booking stage is used to select the correct individual to be booked. Here the Viisage Booking software allows deputies to quickly and easily record an abundance of additional information, such as scars, marks and tattoos, additional portrait (with or without glasses) profile images and a signature (if desired). The image can then be used to conduct a preliminary face recognition search to access the arrestee's history or confirm identity. When the record is complete, a standard movement sheet and an inmate identification card is printed.
- **Release:** Once again Face Recognition is employed for verification of an individual's identity. A photograph taken at the time of release is compared against the formal booking image. The result is a side-by-side comparison of the two photos along with a rating based on the face recognition result, ensuring the release of the right inmate.

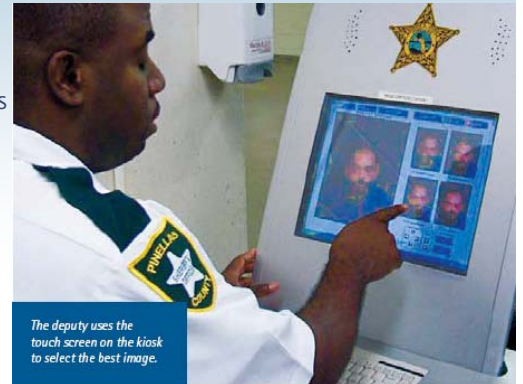


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## Case Study: Pinellas County Sheriff's Office (PCSO)


The PCSO encountered a number of problems with its legacy booking system, such as limited number of photos per record, a proprietary format and inadequate availability of these records throughout the department. Applying Viisage's experience with secure identification and face recognition technology and the experience from numerous PCSO corrections and investigative personnel, a new system was developed to address pre-booking, formal booking, and release functions.

By using face recognition on the pre-booking image, deputies have the ability to compare the suspect's face against more than 700,000 images already in the database and match the image to the correct identity. With statistics showing that over 60% of those arrested are repeated offenders, the PCSO identifies hundreds of individuals each year using only their faces.



The benefit of accessing a complete criminal history based on face alone is immediately realized. Equipped with full knowledge of the arrestee's criminal history, the officer is able to handle each case with the appropriate care and caution. Further, when a match is found, the suspect's basic demographic data is automatically entered, regardless of alias names they may give, and the new record is linked to his previous bookings, hereby creating a more efficient process.

## Why Face Recognition from Viisage? Identify Suspects. Verify Inmates' Identity.

Face Recognition	Pre-Booking	Booking	Release
<b>Process</b>	<ul style="list-style-type: none"> <li>Data Entry</li> <li>Facial Scan</li> </ul>	<ul style="list-style-type: none"> <li>Complete Booking</li> <li>Document Issuance</li> </ul>	<ul style="list-style-type: none"> <li>Image Verification</li> <li>Capture Image Changes</li> </ul>
<b>Features / Functions</b>	<ul style="list-style-type: none"> <li>Direct Data Entry</li> <li>Text Lookup</li> <li>Facial Lookup / Scan</li> </ul>	<ul style="list-style-type: none"> <li>Automatic Head Finding</li> <li>Printing Capability</li> <li>Facial Lookup / Scan</li> </ul>	<ul style="list-style-type: none"> <li>Image Verification</li> <li>Capture Image Changes</li> </ul>
<b>Benefits</b>	<ul style="list-style-type: none"> <li>Inmate / Arrestee Identification</li> <li>Maximize Time with Inmates</li> </ul>	<ul style="list-style-type: none"> <li>Alias Identification &amp; Matching</li> <li>NIST Compliant Images</li> <li>Image Archiving (Image/Scars/Marks/Tattoo's)</li> </ul>	<ul style="list-style-type: none"> <li>Release of the RIGHT Inmate</li> </ul> 

## Components

### Software

- FaceEXPLORER
- FaceFINDER
- Viisage PICS
- Windows® XP or Windows® 2000

### Hardware

- PC
- Camera



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