

# BioFace® Prison Security

Live Facial Recognition  
Controlling Prison Access



**PROBLEM** To ensure the high security of their facility, prison systems commonly employ the use of badges for all inmates, employees, and vendors. But in prisons with very large populations, there have been instances of prisoners escaping by acquiring a guard's or a vendor's badge, then impersonating that individual at an exit point.

New prisons, or prisons upgrading their security, must solve this problem. With many access points to control, and thousands of individuals passing through every day, prison officials seek a technology solution that unifies their control processes, provides fool-proof security, is simple to use, and is cost effective to install and operate.

**SOLUTION** BioFace® Prison Security is a Facial Recognition application designed to meet the needs of prisons with a large population. The BioFace® Automated Biometrics ID System, a powerful software platform for building Facial Recognition applications, allowed this to be developed/installed for reasonable cost.

The key components of BioFace® Prison Security are:

1. A *database of facial images* for each inmate, employee, and vendor. It also defines the rules for access privileges / restrictions.
2. *RF IC cards* for all personnel with embedded identification information. These cards can also enable other RF IC applications. Currently, automated employee tracking is in place.
3. A central *BioFace® Facial Recognition Server* configured to perform 1:1 facial image matching (the captured facial image is compared only against the stored images for the individual's ID).
4. At every access point, an integrated *FaceGrabber™* to capture the image of the individual seeking access, an *RF IC card reader*, and a client PC to display information per the search result. In an invalid access attempt, alerts are issued at the Access Control point and the Central Management Station.



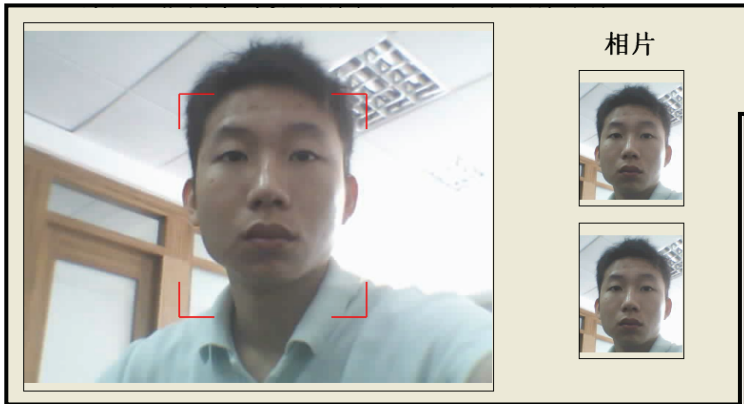
**IMPACT** Since 1Q08 activation of BioFace® Prison Security at a very large prison in Asia, the facility has been 100% secure. Prison Officials are pleased with their mistake-proof access control system, and report it easy to use and administer. Also, because the system is touchless, there has been a reduction in the spread of contagious disease.

## CHARACTERISTICS

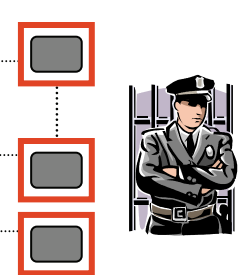
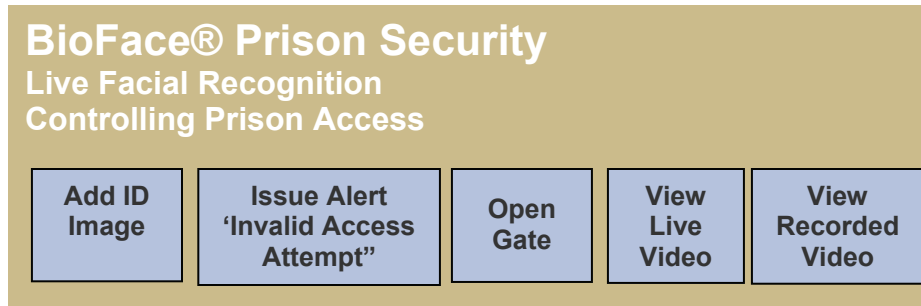
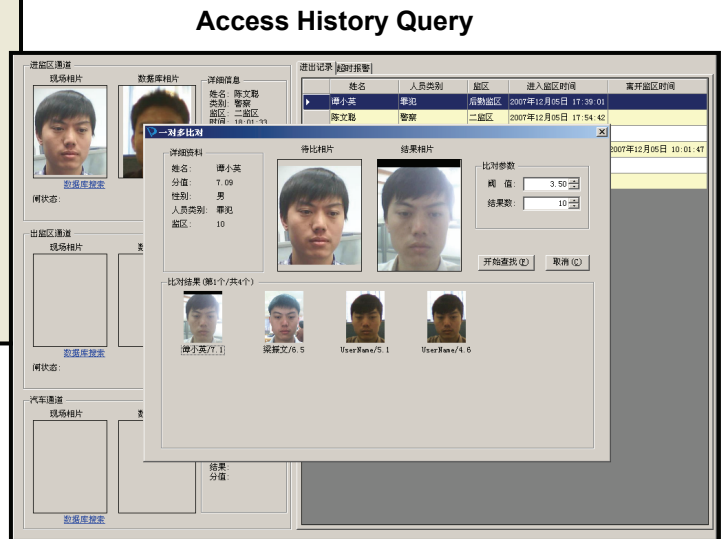
<b>Market</b>	Government's Criminal Justice System
<b>Client</b>	Provincial Prison
<b>Location</b>	Large Asian Country
<b>Integrator</b>	PinnacleSoft Technologies
<b>SW Platform</b>	BioFace® Automated Biometrics ID System
<b>FR Algorithm</b>	L1 Faceit® G6
<b>Source Image</b>	BioFace® FaceGrabber™ Captured Still Image
<b>Camera</b>	1.3 Mpixel

## FEATURES

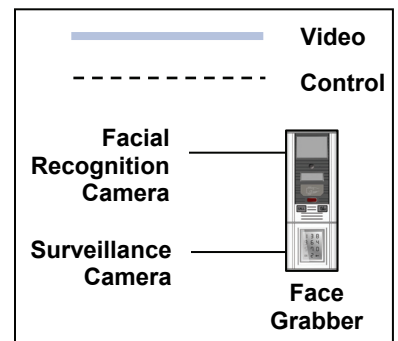
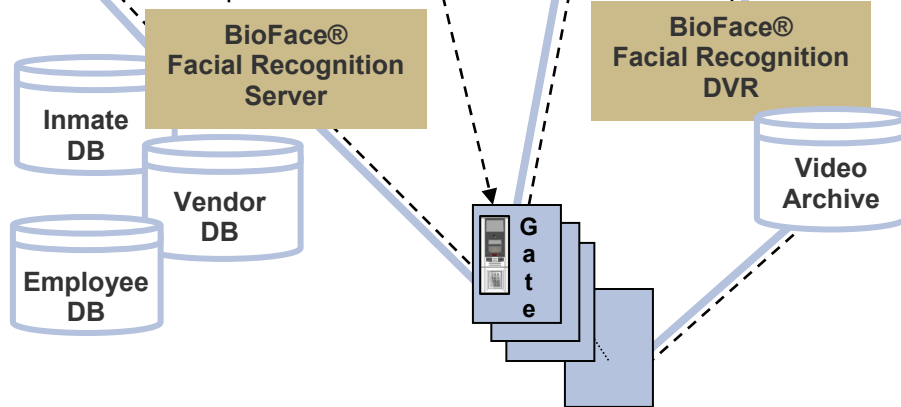
<b>Database Size</b>	Small: 10 Thousand Facial Images
<b>Database Content</b>	Inmates, Employees, Vendors
<b>Search Type</b>	1:1
<b>Network</b>	LAN
<b>Server</b>	Intel Xeon 1.6 Mhz 2G RAM
<b>Clients</b>	Access Control Station Management Station Intel dual core 1.83 MHZ 1G RAM
<b>Performance</b>	- Realtime 1:1 Search/Match <1 sec



Access Request (match)



Monitors



**Bio Recognition Security, LLC**  
 1301 Custer Rd  
 Suite 352-1011  
 Plano, TX 75075  
[www.biorecognitionsecurity.com](http://www.biorecognitionsecurity.com)

Fax: (214) 296-9331  
 Phone: (214) 296-9532 x101  
 Tollfree US (800) 618-1246 x101  
 (800) 618-1BIO x101

