



FACIAL RECOGNITION

<u>ATRICORPS.</u>

A world-class blend of security and technology.

BACKGROUND

Facial recognition technology has advanced dramatically over the past few years. The use of facial biometrics is now a reality in daily life for many consumers, like Apple's FaceID that unlocks a phone using facial features, or Facebook automatically suggesting which friends to tag in a photo using facial recognition.

However, the biggest implications for facial recognition are in the security industry, where we see law enforcement agencies use biometric software to scan surveillance footage and identify people of interest, schools to alert at the presence of known sexual predators or expelled students, and border patrol and airports to verify the identities of travelers.

FACEPRO

What is FacePRO?

FacePRO is Panasonic's facial recognition system that matches a person's face using live or recorded video from Panasonic i-PRO cameras to a database of enrolled faces and then sends alerts or notifications when a face is matched.

Accuracy

FacePRO uses deep learning technology that improves facial recognition performance by up to 500% compared to conventional systems. This deep learning enables recognition that was traditionally difficult for conventional facial recognition technology including:









SEARCHES AND ALERTS

You can enroll up to 30,000 faces in the database for matching. Specific faces that are enrolled in advance will trigger an alarm when detected. The applications for this could range from terminated employees, expelled students, known shoplifters, banned patrons, to wanted criminals. Conversely, FacePRO can notify a marketing team when special guests or VIP arrives at their facility.

Additionally, face images can be used to perform searches retroactively. For example, an image taken of a suspicious person can be searched to track when and where they entered the premises, where they went through the building, and when and where they exited.



ANALYTICS

The software also features an analytics section. In this area, a user is given the ability to analyze statistics such as people counting, and also allows them to detect demographics like age and gender. The system will then display the relevant information in an accessible manner.



Count people of detected face and evaluate their age and gender.



Display the result on the screen with statistical graph.



The statistical data can be saved as a CSV file for analytical use.

INTEGRATION

One of FacePRO's benefits is that it can be integrated with other electronic security elements including Security Management Systems (SMS) and access control. Because FacePRO communicates with the SMS, we can prescribe a set response to an alert like sending out SMS alerts, locking down doors, or tracking with pan-tilt-zoom cameras.



TriCorps is the only certified Panasonic FacePRO integrator in the United States armed with a mobile facial recognition demonstration kit. For information on scheduling a webinar or on-site demonstration of FacePRO, please contact TriCorps' corporate headquarters at 405.621.9006, or email us at info@tricorps.com.

APPLICATION EXAMPLES

Government Facilities

Government facilities can be targets for those who have grievances against the country. Studies show the life cycle of a terrorist incident includes broad target selection, surveillance, specific target selection, pre-attack surveillance, and attack rehearsal. In each of those planning phases, terrorists are physically on the premises collecting intelligence for their attack.

With FacePRO, you can load the entire FBI's most wanted terrorists list into your database and it would alert as soon as a recognized terrorist enters the property.

Schools

A school can load a database of sex offenders in their region. FacePRO would alert at their presence, as well as provide incriminating video evidence that they were within close proximity to the school.

Entertainment

TriCorps' TriWatch™ Intelligence Monitoring services can uncover threats made against individuals or corporations online. If a threat was made alluding to an attack on a baseball stadium, end users could upload pictures of persons of interest into the database to instantly alert if they arrive at the stadium. Additionally, a retroactive search could be conducted to uncover any previous visits to the facility.

Museums

Museums are targets for crime for various reasons - they house priceless artifacts or artwork, and memorialize historical events or ideals that prompt extreme responses from some individuals. Museums using facial recognition to alert on known criminals, terrorists or banned patrons can prevent harm to others, theft, and disruption to the business.

Retail

Many large retailers are victims of large-scale organized retail theft. Lists of known retail thieves can be loaded into the FacePRO database and used to alert when a recognized criminal is in their store. On average, a retailer could lose \$100,000 a year. FacePRO's software is a one-time licensing fee with the potential to save thousands in losses every year.

