

An Intelligent Solution

Governmental and law enforcement officials are always looking for ways to improve the overall security. State and national leaders cannot afford to take this responsibility lightly. A relatively new security measure has begun to emerge. That is the incorporation of biometric face recognition technology into standard video surveillance systems. Facial recognition offers several advantages. The system captures faces of people in public areas, which minimizes legal concerns. Moreover, since faces can be captured from some distance away, facial recognition can be done without any physical contact. This feature also gives facial recognition a clandestine or covert capability. Facial recognition system provides a cost conscious manager the tools to utilize the uniqueness of a human face to improve the detection, capture and subsequent identification of human beings with the least amount of effort.



WeibrIDGE FDFR is an application based on artificial intelligence that detects and records human faces via video stream. FDFR catalogs all human face events into a centralized database. FDFR Event Search - helps you obtain: face images, detection times, and entire human images. Facial recognition is able to leverage existing databases in many cases. FDFR collects face images, detection times and “entire human” (full body) images — then catalogs all human face events into a centralized database. Using the LineUp Event Search, you can enter a suspect image into the system — and instantly search through a time-based history of every possible match.

Applications

The applications that emerge from each of the features are numerous from practical uses in customer care to significant assistance in the enhancement of public safety and security. Significant improvements in efficiency and effectiveness are possible using:

- **White lists:** confirming identity of individuals with authorized access
- **Black lists:** a list of unwanted and banned suspects that may assist in improving public safety
- **VIP lists:** a list of important people that may insist on being treated with care
- **Banking transactions:** verification of the persons attempting a financial transaction
- **Entry and Exit verification:** ensuring people who enter in a vehicle leave in vehicle are one and the same
- **Ownership verification:** tag items to face
- **Mustering:** keep a tally of who is in and who is out.

Innovative Technologies

As a black list tool, Weibridge's FDFR harnesses the power of artificial intelligence to detect and record human faces via video stream. By sending instant alerts when security violations happen, FDFR gives law enforcement and other personnel an immediate advantage. Then, FDFR catalogs and stores historical events in an easy-to-access format that eliminates the need to search through hours of video surveillance tape. It's fast. It's accurate. And it works with existing CCTV systems. Intervene immediately during an event.



- Focus manpower on analysis and correction, not monitoring
- Detect, classify and search in real-time
- Define trigger alerts based on suspect images
- Capture still images of each object automatically
- Receive real-time alerts via audio alarm, page, SMS, e-mail, etc.
- Query against image and attribute database based on input images
- Receive online summary reports with user-defined filters
- Record and index all video feeds online and offline
- Determine cause of pixel changes (lighting, shadows, rain/snow, wind, etc.)
- Search occurrences of suspect image over a period of time from multiple cameras
- View by similarity rate, time order or by camera

As a white list tool, Weibridge's FDFR technologies permits authorized users entry to a property or to specific location in a building. There will no longer be a need for passwords or signatures, because the system recognizes and remembers the face of the customer. Weibridge's FDFR is a robust face recognition system would be able to recognize faces regardless of the face's expression, angle, features and lighting conditions.

