

## iGWatch<sup>TM</sup>

## Facial Recognition System



### Powerful

- Automatic camera specific real-time alerts
- Live classification & enrollment, 2D static image search
- Easy-to-use interface provides simple access to iGWatch alerts and closest matches
- Fast database searches
- User definable confidence control for image matching
- Colour coded streaming alerts based on confidence
- Real-time subject enrollment
- Comprehensive security permission settings
- Complete alert link to subject physical characteristics, alias, group, details & incident history
- Integrates seamlessly with the iTrak Incident Reporting & Risk Management System

### Flexible

- Uses existing CCTV infrastructure
- Built in TWAIN support for image capture and face ready enrollment
- Image enrollment via scanner, digital camera or stored image
- Log provides access to historical face images for offline subject enrollment at any time
- Integrates into any security and surveillance environment

The iGWatch Facial Recognition System delivers an automated active real time surveillance and identification solution providing event driven alerts based on individuals under watch or excluded status. This biometric solution replaces manual systems such as operator comparison of surveillance subjects to “mug” books, while automating database searches against the iTrak subject information system.

The iGWatch System generates colour coded operator alerts with a match confidence level and presents both the live and stored database Images, enabling the operator to make the final identification decision.

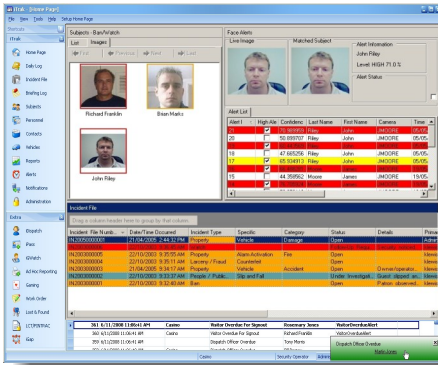
The iGWatch alerts are completely configurable to the level of detection & identification desired by means of the alert confidence level. Based on this confidence level, the system automates the subject database search, instantly narrowing down possible subjects from 1000's to one or more individuals in seconds. Once this match has been made, the full subject profile can be easily reviewed by simply double clicking the thumbnail image.

### Biometric Face Log

The iGWatch face log provides instant access by time, date and camera name to stored faces that have been isolated and tracked by the iGWatch system over a pre-configured time period. These in turn can be enrolled in to the system at any time.

Given the complexity and sheer number of cameras that need to be monitored in today's typical surveillance environments, subject identification is crucial. The iGWatch Facial Recognition System provides an automated real-time aid in this identification process.

## HOME PAGE



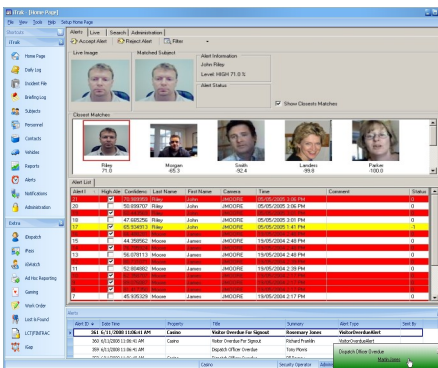
Integrated directly into the iTrak desktop and home page, the iGWatch Facial Recognition System becomes an integral part of an operator's daily routine, providing immediate and concise access to subject alerts.

The live facial recognition video pictures from pre-configured named CCTV cameras are displayed along with the matched subject images, time, date confidence level and relevant subject status.

An operator may then accept or reject alerts accordingly in real-time. Colour coding further expedites alert priority, and status.

As with all iTrak modules only authorized and relevant user information is displayed, ensuring reporting integrity and security by preventing access to unauthorized subject information.

## REAL-TIME ALERTS

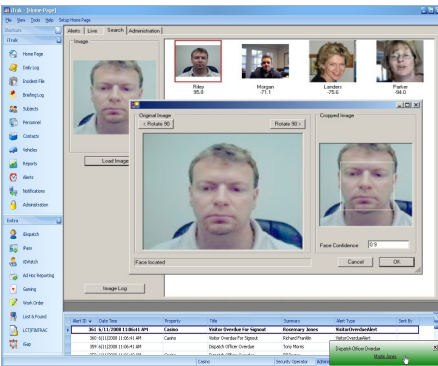


The iGWatch System delivers real-time alerts on matched subjects in the iTrak database. These alerts can be configured based on any required confidence level (i.e. 90%) and are colour coded to isolate and access high priority alerts vs. low alerts.

The system uses the identical sorting and searching grid view as all other iTrak modules providing consistent and easy alert identification for review, while reducing operator training times and mistakes.

The iGWatch System also provides the ability for authorized operators to accept or reject alerts. Once an alert has been accepted or rejected by an individual operator all other operators on the system are notified in real-time that the match has been isolated for review, thereby reducing subject confusion and providing a work flow process.

## LIVE &amp; OFFLINE SEARCH



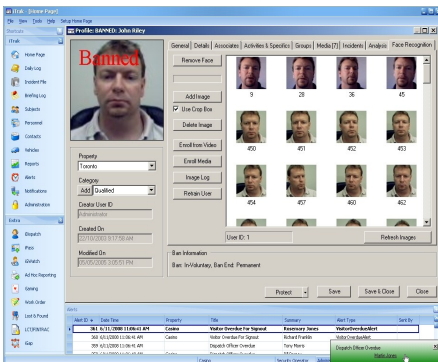
In addition to real-time alert generation, the iGWatch System allows authorized users to run live and 2D (static) image matching against the iTrak subject database.

Users can use any selected surveillance camera such as a PTZ (Pan, Tilt, Zoom) camera to run live video subject identification, while also displaying closest matches. If and when a subject is identified, their full profile can be immediately opened for review and appropriate action taken.

The 2D (static) image offline search allows operators to import any existing bitmap or JPEG image and run a match against the iTrak subject database. The system will then return the closest matches and confidence value.

Images may also be imported directly from the Face log, allowing historical identification of individuals that have been at selected properties, thereby allowing identification of individuals after an incident has been recognized.

## ENROLLMENT



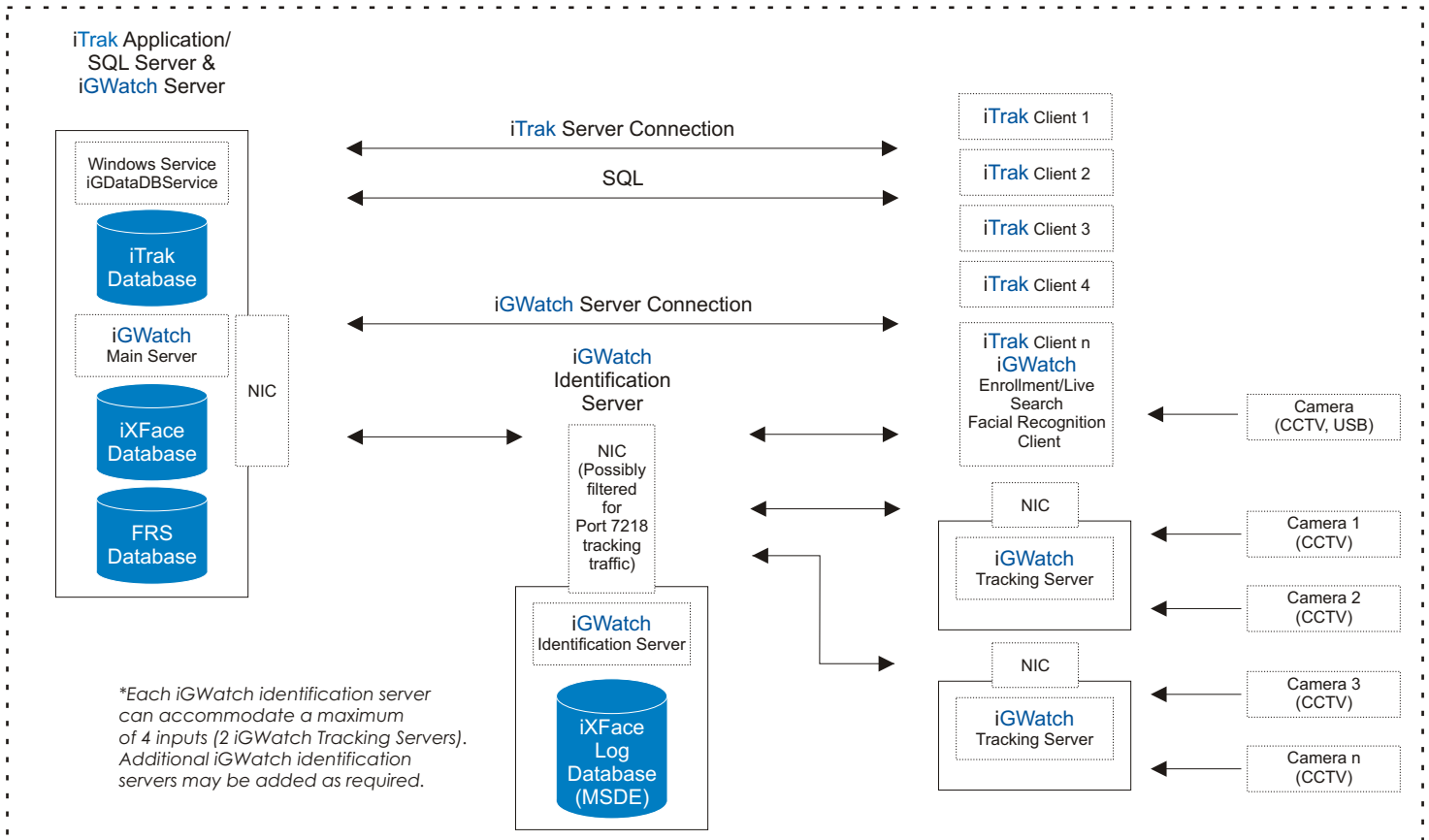
The iGWatch System is tightly integrated into the iTrak platform, providing easy subject face ready enrollment. Subjects can be enrolled from live CCTV camera feeds, the Face Image Log, bitmap file images or even from existing iTrak subject assets.

Once enrolled, the face ready subject is immediately available to all other properties on the network and alerts are automatically generated.

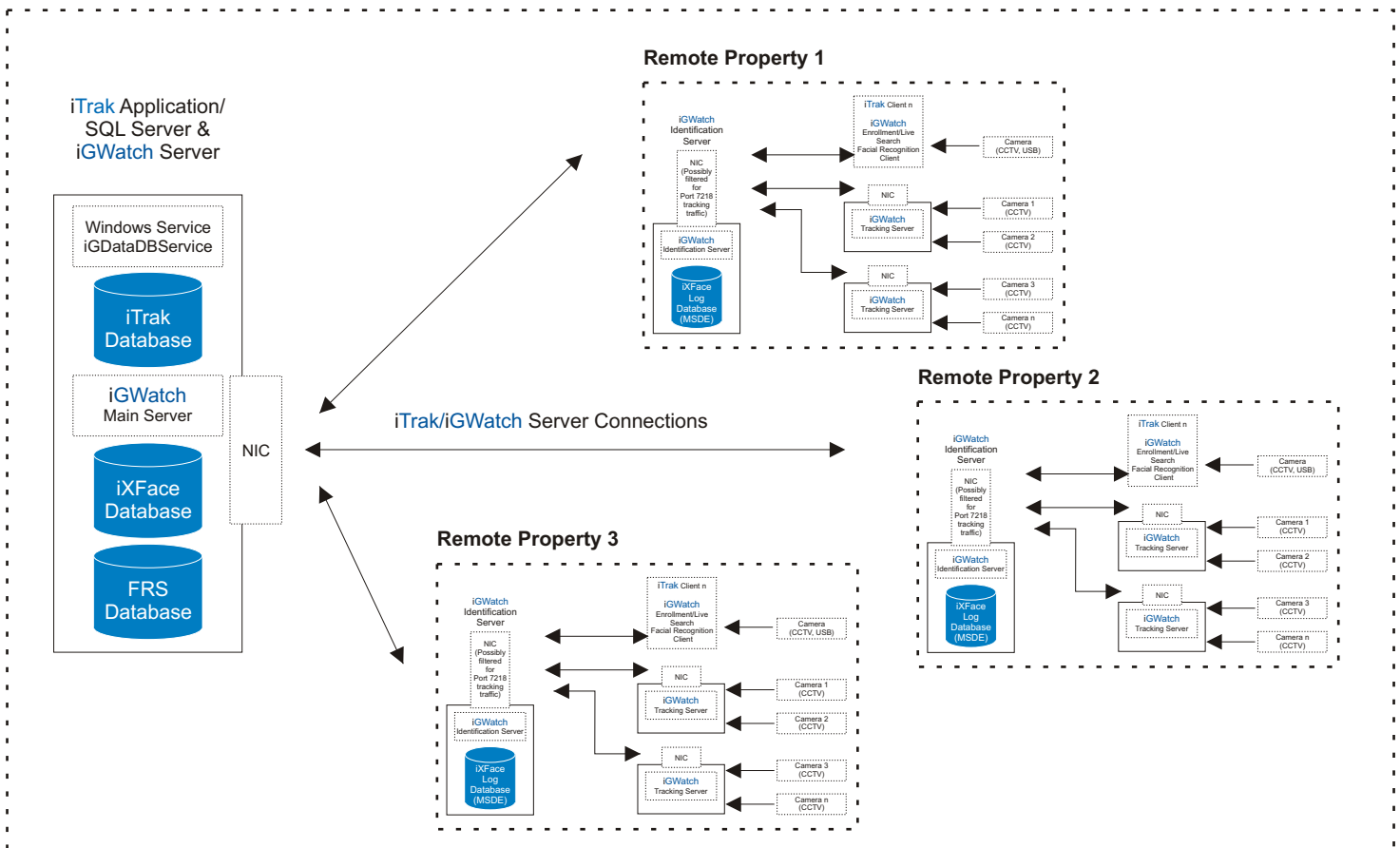
The iGWatch System also provides built in tools directly into the subject face recognition tab, allowing image maintenance. This ensures that the face data can be easily maintained and that there are no conflicting subjects enrolled in each other's profiles. Any changes are automatically updated by the server.

# ARCHITECTURE

## Standard Deployment



## Standard Multi Property Deployment



## REQUIREMENTS

**iTrak Client Software**

- Microsoft® Windows 2000
- Microsoft® Windows XP
- Microsoft® Windows 7
- Internet Explorer 5.5 or higher

**iTrak Client Hardware**

- Pentium III 800MHZ or higher
- 512 MB RAM (1 GB recommended)
- 100 MB available disk space
- SVGA Monitor capable of a minimum of 800x600 resolution
- Network Card (Networked installations)
- DVD-ROM Drive
- Mouse

**SQL Server Software**

- Microsoft® Windows 2000 Server
- Microsoft® Windows 2003 Server
- Microsoft Windows 2008 Server

**SQL Server Software**

- Pentium 4 2.0 GHz or higher
- 1 GB RAM (2 GB recommended)
- 350 MB available disk space
- SVGA Monitor capable of a minimum of 800x600 resolution
- Network Card (Networked installations)
- CD-ROM Drive
- Mouse

**Microsoft® SQL Server™ 2000**

- Microsoft Windows ® 2000 Server
- Microsoft SQL Server 2000 installed

**Microsoft® SQL Server™ 2005**

- Microsoft Windows ® 2000 Server
- Microsoft SQL Server 2005 installed

**Microsoft® SQL Server™ 2008**

- Microsoft Windows ® 2000 Server
- Microsoft SQL Server 2008 installed

\* SQL licences are not included in the price of the software.

**Recommended Additions:**

**iTrak Incident Reporting and Risk Management System**  
**iPass Visitor Management System**

**Recommended Modules:**

**iD Acquire**  
**iGNet Intelligent Global Network**  
**Active Directory**  
**Best Practices**  
**Lost and Found**  
**Gaming**  
**Work Order**  
**LCT/Fintrac**  
**WSIB**  
**Importer**  
**OSHA**