How smart is your surveillance system?

Face Detection & Recognition in a Crowd (iQ-Face)

Non co-operative

Multiple Faces

Distant Views



Convergence with iQ-Hawk

22 pixels between the eyes

Works well in low resolution

Wider Face angles

iOmniscient's iQ-Face is the world's first many-to-many Facial Recognition system that can operate in a crowded scene. iQ-Face is a family of various Face Detection (iQ-FaceD) and Face Recognition (iQ-FaceR) systems offered by iOmniscient. The iQ-FaceD can detect and record faces in busy environments for manual review. The more comprehensive iQ-FaceR incorporates iQ-FaceD and then automatically recognizes multiple faces which can be matched against a specified database or multiple databases.

iQ-Face excels in uncontrolled environments with variable lighting, continuous movement, low resolution and variable facial angles. It increases the probability of identification of wanted individuals in a crowd.

All iQ-Face systems are fully integrated with the iOmniscient range of Detection products and can operate with iQ-Hawk, which converges Detection and Identification systems in a single camera.

What makes iQ-Face different?

- Operates with low resolution cameras at a distance (requires only 22 pixels between the eyes)
- Excels in uncontrolled environments with non-cooperative individuals
- ➤ Detects multiple faces in a crowd (iQ-FaceD), and simultaneously recognizes them by comparing them with one or more specified databases (iQ-FaceR)
- Recognizes faces from variable facial angles
- Fully integrated with iQ-Series detection products
- Can integrate with other recognition technologies. eq. iQ-Driver Match (optional extra)
- ➤ Automates Surveillance with iQ-Hawk (optional extra) & multiple Video Analytics

See Through the Crowd





Operates at long distances and with low resolution

Face Detection (iQ-FaceD) Applications

- ➤ iQ-FaceD (which can be purchased separately) can detect the presence of faces even in a crowded scene
- Optimizes storage (by storing faces only)
- > Selects quality video (e.g. only with faces & frontal view)
- Records faces based on time/date
- Expedite search & forensic analysis using face images only (eg. speed up police investigation)
- Face Counting
- Tailgating

Face Recognition (iQ-FaceR) Applications

- iQ-FaceR enables the system to present possible matches from faces stored in a database (or multiple databases)
- > Queue Management to determine average, specific or individual waiting times
- > Identifying potential threats in high security areas such as airports and banks
- > Driver identification to verify vehicle ownership in secure car parks
- ➤ Improve customer service by identifying VIP guests in hotels or casinos
- ➤ Identifying blacklisted individuals such as shoplifters in a mall
- Tracking suspect footpath across non-overlapping cameras

Advanced Access Control & Attendance System

Uses low resolution (22 pixels between the eyes) Track and recognize multiple faces in a crowd



Multiple Faces
22 pixels between the eyes
Wider Face angles
Works well in low resolution
Non co-operative
Convergence with iQ-Hawk
Distant Views

