

Industry: Gemology

Client: IGI – International Gemological Institute

Application: Access control, Time & Attendance

Solution: smarti[®] Diadem and Electra a complete solution for access control based on facial recognition

Case Study

International Gemological Institute implements TAB Systems access control and time & attendance based on facial recognition



The Customer



IGI's supreme position in the gemological world is no coincidence. It is the result of continuous research, support and synergy with professionals and consumers alike. Around the world, IGI certificates bring confidence when buying or selling diamonds, gemstones and jewelry.

Total commitment to understanding consumer concerns has motivated IGI to

develop comprehensive analysis and clear documentation for consumers. This empowers jewelry buyers to focus on finding precisely what they want, with full assurance in the integrity and quality of the IGI certification.



IGI is the largest organization of its kind, with offices in Antwerp, New York, Hong Kong, Mumbai, Bangkok, Tokyo, Dubai, Tel Aviv, Cavalese, Toronto, Los Angeles, Kolkata, New



Delhi, Thrissur, Surat, Chennai and Shanghai. The IGI School of Gemology operates from Antwerp, Mumbai, Dubai and Cavalese, offering a variety of courses designed for professionals and consumer enthusiasts alike.

A certificate from IGI represents the all-important 5th C that no one should be without: Confidence. As the world's largest independent gem certification and appraisal institute for diamonds, colored gemstones and jewelry, IGI is a standard of excellence for industry professionals and consumers around the globe.

The Solution

IGI wanted to upgrade their access control system in one of their branches with biometrics. At the same time they also needed an integrated T&A system for their employees and their School of Gemology and a way to manage their visitors. To meet IGI's challenging requirement we used a **smarti**[®] DIADE and ELECTRA unit and fingerprint units.

We have secured their offices with access control by providing them a **smarti**[®] Diadem unit for the main entrance door, where the employees use it for access control and time & attendance. The Diadem is configured with PIN & Face functionality (1:1 recognition). The visitors use the video intercom function of the Diadem unit to contact the reception. The receptionist can see and talk to the visitor on his computer and open the entrance door to the visitor. We have also provided them with fingerprint access to their

laboratory and other office doors including the managing director's office.

They also have a training school, where students get training on cutting diamonds, polishing diamonds and grading diamonds. This facility is using a **smarti**[®] Electra for access control and time & attendance for the students, which gives the IGI a complete student's attendance and course payment status. Electra is being used with RFID cards that have been ID by IGI and they are issued to the students for each course and at the end of the course the students return the cards to IGI. This card is re-used for another student in the next course.

With the use of the **smarti**[®] system we fully met the IGI's requirements and an effective enforcement of security standards and recommendations was attained in the most reliable and economical way.

The use of facial recognition has proven itself to be very affective in achieving a higher security and reliability level with minimal additional costs.

The used solution prevents abuse; unauthorized and unsupervised access which is possible with more commonly used access solutions. It also gives IGI more control over staffing and students with the integrated time & attendance solution and over visitors with the integrated video intercom solution.