

OPENING INTELLIGENCE

RAISING THE IQ OF AN OPENING WITH
ELECTRONIC ACCESS AND EGRESS CONTROLS



- ACCESS
- EGRESS
- TIME AND ATTENDANCE
- PERSONNEL SCHEDULING
- NETWORKED SOLUTIONS
- SOLUTIONS INTEGRATION
- MAINTENANCE SUPPORT



Security & Safety
Proven Source. Proven Solutions.™

An  Ingersoll Rand business

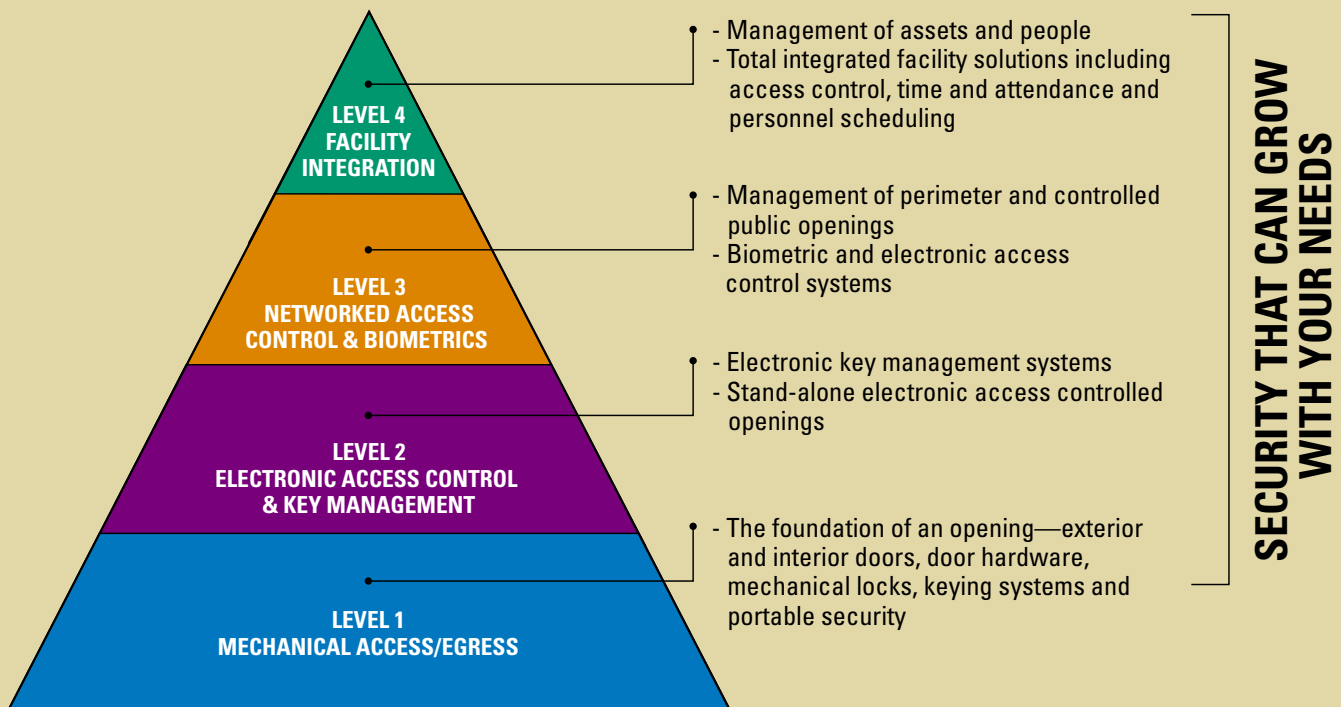
IR SECURITY & SAFETY —CONSULTANTS FOR LIFE

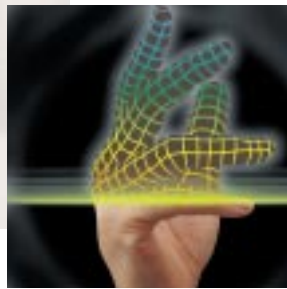
In today's changing environment, you must provide the highest levels of security and safety available for your facility.

IR Security & Safety Consultants and our national network of distributors can help. IR Security & Safety, known for more than 75 years for its leading brands, is now providing leading-edge electronic, biometric and mechanical solutions as well as integrated software solutions. These solutions are currently being used to control access while helping to ensure life safety in the world's busiest airports, government buildings and nuclear power plants, universities, hospitals, corporate campuses, manufacturing facilities, multi-family dwellings and retail establishments.

Only IR offers you 22 Security & Safety Consultant offices throughout the U.S. and Canada, who will create levels of security and cost-effective design to maximize access security and safety and minimize the construction, operation and maintenance of the total opening.

IR PROVIDES A MULTI-LEVEL, LAYERED APPROACH TO KEY MANAGEMENT, ACCESS CONTROL AND SECURITY.





BIOMETRICS: THE MOST SECURE FORM OF IDENTITY VERIFICATION FOR ACCESS CONTROL AND TIME AND ATTENDANCE

UNCOMPROMISED SECURITY

Recognition Systems HandKey II biometric HandReader uses the unique shape and size of your hand to ensure that only authorized people gain access to your facility. Typical card-only based access systems grant access to authorized cards, but they cannot verify who was using the card. The HandKey can easily integrate with card-based systems, providing the highest level of security available.

CONVENIENCE

It's so easy to forget your access card or keys, but not with the HandKey II. Your hand is your key. For many applications, the HandKey II allows you to eliminate the need for cards or keys. Simply enter your ID number on the integrated keypad and place your hand. Your identity is verified, and you are granted access in less than one second.

REDUCED OPERATING EXPENSES

The elimination of cards and their administration can offer tremendous savings. While the cost of the card itself is small, the creation and management of the card base is where the true financial costs lie. Estimates go as high as \$15 to \$30 per card, not to mention the cost of replacement cards when they are lost or additional cards are needed due to employee turnover. Recognition Systems HandPunch can save you up to 5% of payroll costs and pay for itself in a matter of weeks.

PROVEN INSTALLATIONS WORLDWIDE:

AlliedSignal Inc.
Bank of America
Brink's
Charles Schwab
Citicorp
Coca-Cola
DuPont
Equifax

Federal Bureau of Investigation
Federal Reserve Bank
Hawaiian Airlines
Los Alamos
NASA
San Francisco International Airport
U.S. Drug Enforcement Agency
U.S. Nuclear Power Plants



ACCESS CONTROL

Recognition Systems HandKey II biometric HandReader provides the most positive identification for access control. By measuring the unique size and shape of a person's hand to grant access, this ensures that a person trying to gain access is not using someone else's card or PIN. The HandReaders can be integrated using IR Interflex access control software or third-party software to provide a totally integrated access control solution for your facility.



TIME AND ATTENDANCE

Recognition Systems HandPunch Time and Attendance Terminals ensure that your payroll is free of fraud caused by "buddy-punching." No employee can punch in or out for another worker since the person's identity is positively verified each time they punch. A complete line of HandPunch clocks is available to suit the specific needs of any application. Features range from simple "punch and go" to complex data collection and employee scheduling. The HandPunch Time and Attendance Terminals can be integrated using Interflex time and attendance software to provide a total solution for your business.

Schlage
Stand-Alone, Computer-Managed Locks
Allow You to Program 1,000 Users and
1,000 Events in Seconds at the Lock

Schlage CM "Lock-Down" Lock
Provides Unmatched Security as You Can
Immediately Lock the Door from the Inside
in a Hostile Intruder Situation

Von Duprin
Computer-Managed Exit Trim

Locknetics
Delayed Egress Locking System

Locknetics
Universal Controllers

Von Duprin Chexit
Delayed Exit Device for Panic or Fire Exits

Von Duprin GUARD-X™
Exit Alarm Lock for Back Door Exits Where
Unauthorized Egress is Prohibited

Locknetics On Board
Access Control Management System with
LockLink™ Software Manages Thousands of Users
(Students and Employees) and Access Points

ETC
Provides Complete Building Integration Solutions
for Your Facility

Interflex
Provides Integrated Software
Solutions

Recognition Systems
HandPunch Biometric Time
and Attendance Terminal



Schlage E-Bolt
Electromechanical Locking System Means
You Never Have to Rekey or Replace
Locks Again

Schlage Cobra
Stand-Alone Computer-Managed Locks Let
You Add or Delete 100 Codes at the Keypad
in Seconds

Interflex
Smart Card Reader

LCN
AutoEqualizer Provides Easy Entry
for ADA Requirements

Von Duprin
Electric Strikes

LCN
Electromagnets

Dor-O-Matic
Low-Energy Power Operator

Smart Card Technology
One Card to Open Doors
and Make Purchases

PUTTING INTELLIGENCE AT ALL ACCESS AND EGRESS POINTS

Recognition Systems
Biometric HandKey II and HandKey
CM Provide the Most Positive
Identification for Access Control



**IR Security Service
Centers**
Remote-Monitoring
Capability Allows Personnel
to be Dispatched Before a
Problem Causes Downtime

ACCESS CONTROL—COMMON AREA AND PERIMETER DOORS

IR has total solutions for every access point in your facility ranging from stand-alone, computer-managed, battery-powered, non-wired locks to software that links together all computer-managed products to let you easily manage a facility with virtually unlimited users and access points.

Recognition Systems biometric HandReaders provide the most positive identification for access control. Schlage Computer-Managed (CM) locks and Cobra CM locks provide unmatched access control for common areas and perimeter doors such as in corporate offices, universities, hospitals, apartment buildings and commercial establishments. Schlage E-Bolt is ideal for residential doors.

EGRESS—LIFE SAFETY

Access and egress go hand in hand. Access control is achieved at any entry point, and life safety is assured so that everyone can exit a building quickly in case of fire or emergency. IR Security & Safety has stand-alone and networked capabilities to answer the different requirements of egress. Stand-alone applications include touchbar exit devices. Alarmed exit devices provide notice when someone is leaving a room where theft might be an issue. Delayed egress devices provide monitored exit. Networked egress includes hardware and software that also provides for time and attendance and personnel scheduling.

TIME AND ATTENDANCE

Recognition Systems biometric HandPunch Time and Attendance Terminals ensure that a person isn't merely carrying someone else's access card or PIN. The HandPunch improves payroll accuracy and simplicity by eliminating both buddy-punching and the need for badges. The HandPunch can be integrated using IR's Interflex time and attendance software or a wide variety of third party software packages to provide a total solution for your business.

PERSONNEL SCHEDULING

Recognition Systems biometric HandKeys provide the higher functionality of allowing access according to work schedules logged into a centralized computer. If someone is not scheduled to work on a particular day or at a certain time, he or she will not be granted access to that entry point, preventing them from working when not on the schedule. The HandKey can be integrated using IR Interflex access control software or third-party software to provide a totally integrated access control solution for your facility.

NETWORKED SOLUTIONS

Locknetics On Board, managed by LockLink™ software, is a stand-alone control system that can easily manage multiple users, multiple access points and multiple credentials throughout your facility. New users or access points can be downloaded at the opening into a PDA in seconds and later entered into the system.

SOLUTIONS INTEGRATION

However high the level of access control, it should be integrated into a total security solutions system. IR's 22 Security & Safety Consultant offices can provide you with totally integrated solutions through an exclusive audit, recommendations, specifications and aftermarket service. Interflex offers the technology to consolidate your entire online and networked security devices to a common database to ensure that whatever the circumstances or facility, the right people are in the right areas at the right time. ETC can integrate all of your building's control, monitoring and alarm functions.

For a complete description of these electronic and biometric security and safety solutions, please see pages 8-9.

TOTAL SOLUTIONS FOR THE LIFE CYCLE OF YOUR FACILITY'S SECURITY AND SAFETY REQUIREMENTS

EXAMINING YOUR FACILITY'S SECURITY MODEL

IR Security & Safety Consultants and our national network of distributors will identify, propose and implement security and safety enhancements that are specific to each and every access point. We will create levels of security with a cost-effective design to maximize access security and safety, and minimize the construction, operation and maintenance of the total opening. Our exclusive Site Survey and consultation will provide solutions needed to segregate the building spaces, beginning with the site perimeter and progressing throughout the building's public, private and restricted areas during occupied and unoccupied hours. Whether it's the first application of security hardware, or any future review, we have the ability to upgrade your security as your security needs grow.

PHASE I—SITE SURVEYS

Our Site Survey is an exclusive program offered by IR Security & Safety. The Site Survey can evaluate your building's key control, access points, building security and maintenance practices, also examining the suitability of recommended new hardware with existing hardware. Our report will provide the findings and identify the proper security solutions to significantly improve the overall security and safety of your building, staff and residents.

PHASE II—PROPER SPECIFICATIONS

This phase defines what facility owners require from their security systems, and the cost/value-effective hardware and software solutions. We will specify products to ensure the overall security and safety of your facility. We will then further ensure that specifications are adhered to throughout the submittal and installation stages.

PHASE III—DOLLARIZATION

It is important to realize that the total cost of the life of a door opening is far more important than just the original installation and application. Economic values will be derived from moving up to a higher level of security and safety. Five key economic values come from "raising the intelligence" of an opening with a computer-managed, battery-powered or networked access and egress system. (1) You can simply change a code without calling a locksmith to change locks. (2) You can prevent burglary, theft and vandalism. (3) Our first product installation will be correct. This means no callbacks. (4) Proper security systems create happier tenants and less employee turnover, as well as reduced owner liability. (5) Greater employee productivity results from advanced time and attendance and personnel scheduling solutions.

PHASE IV—NETWORKED SOLUTIONS

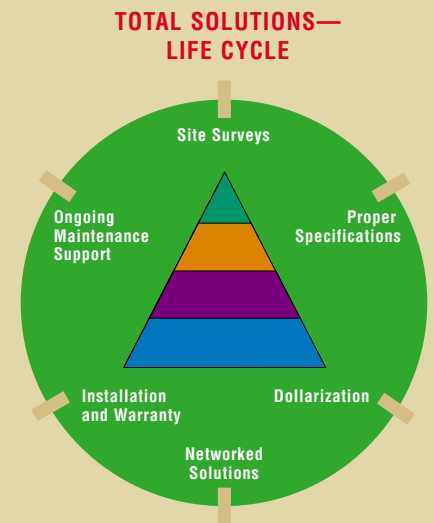
IR Security & Safety is the only provider of four levels of comprehensive, integrated security and safety solutions. For simple access and egress control, we offer the highest level of mechanical security solutions. For facility managers wishing to move up to greater security, we offer the leading brands in stand-alone, battery-operated, electronic access control solutions. For still greater security, we provide biometric verification. All of these products can be networked through Locknetics On Board—a stand-alone software control system that can manage multiple users, multiple access points and multiple credentials throughout your facility. Locknetics On Board can be integrated into an IR Interflex networked system, where both online and offline solutions can coexist.

PHASE V—INSTALLATION AND WARRANTY

We will provide continuing aftermarket service for the life of our products with the best warranty program in the industry. Right now, in many instances, our competitors just "sell" products. You must go elsewhere for service and/or warranty work on their products. We provide you with complete comprehensive service and warranty programs.

PHASE VI—ONGOING MAINTENANCE SUPPORT

Our national network of authorized IR Security Service Centers will provide total maintenance support to always keep your building up and running. We will serve you 24/7 in response to your everyday and emergency building needs. You should turn your higher level of electronic access and egress control systems over to the electronic experts at the IR Security Service Centers. We will provide continuing aftermarket service for the life of our products.



To find an IR Security & Safety Consultant near you, call 1-877-840-3621 or visit irsecurityandsafety.com.



ELECTRONICS—TELLING YOU WHO GOES WHERE AND WHEN

The three main components of an access control system are controlling WHO is authorized to go WHERE and WHEN. IR Security & Safety offers a comprehensive array of products that, when utilized together, provide unsurpassed performance and solutions to today's complex security issues.

WHO

Authorized users can choose a broad range of credentials for appropriate access through an opening. Only IR offers electronic access control solutions that can accommodate:

- Electronic keys
- Keycodes
- iButtons
- Magnetic stripe cards
- Proximity cards or fobs
- RF contactless Smart Cards
- Biometrics
- Or an integrated combination of multiple credentials for appropriate access at a variety of restrictive levels.

Unauthorized or unscheduled users will be restricted from gaining access through an opening. To reduce the probability of unauthorized access, IR offers multi-credential technology—*Linked Access™*—for higher security applications.

WHERE

IR Security & Safety offers solutions appropriate for all levels of access control:

- Highly restricted areas
 - A flight controller tower in an airport
 - A laboratory in a research institution
 - A computer room in a university
- Controlled public and private openings:
 - Public entry doors
 - Maintenance closets
 - Individual apartment and dormitory entry doors
 - Common area apartment and dormitory doors
 - Service entrances

In addition, IR is the leader in delayed exit systems that allow for free egress within a specified time after a request to exit is made. This gives an individual the ability to exit in the event of a fire, but will otherwise delay egress and trip an alarm or monitor. Typical applications include highly controlled areas such as the perimeters of airports, government buildings, nursing homes, factories and schools.

WHEN

IR offers *SmarTime™* features for programming credentials into the locking systems to work at specified times. You can define access for anyone at any time, on any or all days. You decide.

Auto-unlock and auto-lock capability is also available with many of the electronic locking systems. You can program an electronic locking system to automatically lock and unlock any door at any times you choose.

IR OFFERS THE MOST COMPREHENSIVE PORTFOLIO OF ELECTRONIC SECURITY AND SAFETY SOLUTIONS.

THE PENALTY OF LEADERSHIP

Being number one imposes a higher standard on our people and our brands. Competition imitates, but never duplicates what we provide. Customers and consumers expect more from the leader, raising the bar for our future work. The result is a philosophy that continues to give customers the very best in technology, products and services. At IR Security & Safety, we offer proven solutions to the widest range of customer needs, with brands that occupy positions of leadership in each of their categories. These brands have become the standard for the world and are often the target for others to challenge or to emulate. The effort to duplicate our leading brands is merely added proof of that leadership. The leader that truly leads remains the leader.



SYSTEMIZER™—ELECTRONIC SECURITY APPLICATIONS MADE EASY

What components are required to secure the door, provide power, gain entry, gain egress and monitor activity? Do you have a final wiring diagram to link these components together? IR Security & Safety has introduced Systemizer™, an easy configuration tool to identify the appropriate solution for each access point. IR has the leading brands and the Systemizer solution tool to provide the entire package in an easy-to-understand solution.

ELECTRONIC ACCESS & EGRESS CONTROL

SCHLAGE COMPUTER-MANAGED (CM) LOCKS*

Schlage CM locks are stand-alone, battery-powered, microprocessor-based, electro-mechanical locking systems. You can manually program users in seconds at the lock or manage data on a desktop or portable PC. Each lock manages up to 1,000 users and audits 1,000 events. The Autobolt security function provides a pushbutton inside that temporarily disables access outside. Opening or closing the door deactivates the security feature.



SCHLAGE CM SAFE SCHOOL "LOCK-DOWN" LOCKS*

Schlage CM Safe School "Lock-Down" Locks are a higher-level, electronic version of the Classroom Security Function for Schlage's D-Series and L-Series locks. An iButton reader on the inside of the lock allows you to immediately lock the door from the inside in a hostile intruder situation.



RECOGNITION SYSTEMS HANDKEY® II/ HANDKEY CM*

Recognition Systems HandKey II and HandKey CM biometric readers provide the most positive identification for access control. By measuring the unique size and shape of a person's hand to grant access, they ensure that a person trying to gain access is not using someone else's card or PIN.



SCHLAGE COBRA PROGRAMMABLE LOCKS*

With Schlage's Cobra Series locks, you can add or delete 100 codes at the keypad in seconds. A great solution for a limited number of users and access points.



SCHLAGE E-BOLT KEY MANAGEMENT SYSTEM*

Never rekey or replace locks again. E-Bolt software lets you quickly reprogram electronically controlled deadbolts to accept new electronic keys and make old keys inoperative. Since E-Bolt keys can't be duplicated, you control all keys. The E-Bolt provides audit trail reports and time and date access control functions.



VON DUPRIN CM EXIT TRIM*

Von Duprin's CM Exit Trim is a stand-alone, battery-powered exit trim for use on any door where an exit device is required such as a perimeter doors in public buildings. It provides the same features as the Schlage CM locks. The CM trim can easily retrofit to Von Duprin mechanical exit devices already installed in your facility.



VON DUPRIN CHEXIT®*

The Chexit controlled exit device is used on panic or fire exit hardware delayed exit applications. The Chexit system is ideal for highly controlled areas such as the exit of a health club, pool or clubroom.



VON DUPRIN GUARD-X™ EXIT ALARM LOCK*

GUARD-X provides code-compliant protection to back door exits where unauthorized egress is prohibited. Features include a bold red sign, a 100-decibel alarm, and a 2-inch deadbolt for maximum protection.



LOCKNETICS*

Locknetics offers a complete selection of electromagnetic locks, delayed egress locking systems, power supplies, pushbuttons, key switches, request-to-exit bars, PIR exit sensors, electric horns, door position switches, keypads, card readers, controllers and consoles.



LOCKNETICS UNIVERSAL CONTROLLERS*

Locknetics Universal Controllers provide access control intelligence to products such as electromagnetic locks, electric strikes, electrified locks, electrified exit devices, cabinet locks, elevators and doors.



VON DUPRIN ELECTRIC STRIKES*

Von Duprin 6000 Series heavy-duty electric strikes provide the maximum in door control and security where the remote release of a locked door is required.



DOR-O-MATIC LOW-ENERGY POWER OPERATOR*

The Dor-O-Matic Benchmark Swing is a reliable and affordable low-energy power operator that suits virtually any interior or exterior application.

TIME AND ATTENDANCE



RECOGNITION SYSTEMS HANDPUNCH

Recognition Systems HandPunch ensures that your payroll is free of fraud caused by "buddy-punching" since the person's identity is positively verified each time they punch. Features range from simple "punch and go" to complex data collection and employee scheduling.



LCN ELECTRIC AUTOEQUALIZER™*

Using a 10 million cycle cast iron closer, the LCN electric AutoEqualizer operates as a manual door closer and, when needed, is power operated with a pushbutton actuator. It is designed to meet ADA requirements and can be integrated into an access control system.



LCN ELECTROMAGNETS*

LCN Electromagnets are heavy-duty, electronically controlled door-holding magnets UL listed for smoke barrier or labeled fire doors. A manual door closer is used to control and close the door. Floor, recessed wall or surface-mounted magnets are available.



SMART CARD

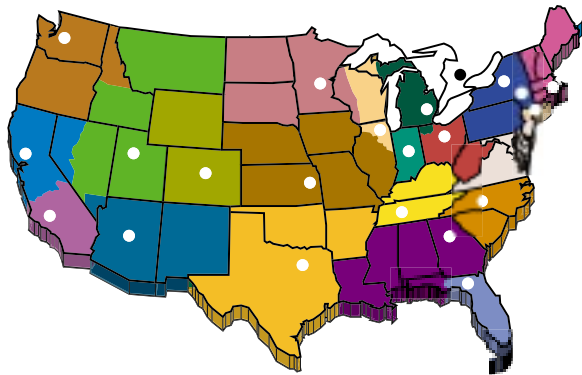
All Schlage, Recognition Systems and Von Duprin CM products are compatible with Smart Card technology. Users only have to carry just one Smart Card to gain access to authorized areas and perform daily financial transactions.

ACCESS & EGRESS CONTROL SOFTWARE



LOCKNETICS ON BOARD SYSTEMS*

Locknetics On Board is a new stand-alone system, controlled by LockLink™ software, that manages multiple access points, users and credentials. Computer-managed products include Schlage CM door locks, Von Duprin CM Exit Trim, Locknetics access controllers and credential readers and Recognition Systems CM biometric HandReaders.



TOTAL SOLUTIONS

IR SECURITY & SAFETY—CONSULTANTS FOR LIFE

Our network of consultants, distribution partners and Security Service Centers offers the most extensive security and safety solutions in the industry. With 22 Security & Safety consulting and spec writing offices throughout the U.S. and Canada, we can provide the services you need—from access and egress control to time and attendance, as well as asset tracking and personnel scheduling. IR Security & Safety, known for more than 75 years for its leading brands, is now providing biometric, electronic and mechanical security solutions, as well as software network integration.

To learn more about our exclusive Site Survey, visit irsecurityandsafety.com or call 1-877-840-3621 to contact one of our 22 Security & Safety Consultant offices.



INTERFLEX

IR's Interflex division can provide you with integrated software solutions for biometric and electronic access control, time and attendance, personnel scheduling and data capture techniques. Interflex software gives you the ability to link your entire online and networked security systems to a common database. For more information, call 1-860-582-8300.



ETC BUILDING INTEGRATION

IR's ETC division can provide you with complete building integration solutions for your facility. ETC has the capability to integrate all of your building's control, monitoring and alarm functions. For more information, call 1-800-788-7635.

*All computer-managed hardware is managed by Locknetics LockLink software, making your programming and site management simple and easy.

CASE HISTORIES

AIRPORTS

Since 1991, San Francisco International Airport has relied on Recognition Systems' HandKey access control readers to protect access to their entire airfield. More than 18,000 people use the system daily, which provides the utmost in security and proven reliability. In Tel Aviv, Israel, Recognition Systems hand geometry technology helps to speed travelers through border control by verifying their identity each time they enter the country. Millions of transactions have been performed, all increasing security and reducing wait times from a hour to a couple of minutes.



HEALTHCARE

Recognition Systems has been selected as the biometric access control of choice at Poudre Valley Hospital in Fort Collins, Colorado. Recognition Systems provides biometric HandReaders that are high security, easy to use and very reliable. In addition, they don't require cards to operate, which can be a real advantage for medical personnel on the go. Recognition Systems can be tied into an IR software-managed system or integrated within an existing system. To date, the hospital has installed 25 readers in operating rooms and other sensitive areas.



SCHOOLS

Searching for a solution to upgrade security on perimeter doors, the Jersey City Schools turned to Locknetics delayed egress devices—including electromagnetic delayed egress locks and electronic delayed egress exit devices, powered by Locknetics UL Listed power supplies. These locking solutions integrate into the school's existing access control software system. Perimeter openings are intended for emergency exit only. Should someone try to exit, an alarm sounds and the door remains locked for 15 seconds. This system can be tied into a closed circuit TV system to immediately show security who is attempting to exit.



RETAIL STORES

Recognition Systems' HandPunch Time and Attendance Terminals are widely used in retail environments to help control costs by eliminating "buddy-punching." With a diverse customer list ranging from Sam's Cheesecake and Gold's Gym to Krispy Kreme Donuts, the HandReader provides the most accurate payroll possible and a fast return on investment.



GOVERNMENT

Recognition Systems' HandKey hand geometry readers are a high-security mainstay in over 95% of U.S. nuclear power plants as well as government laboratories throughout the country. In addition, Canadian, Japanese and Russian power plants depend on RSI's hand geometry technology as a critical component of their security infrastructure.



MULTI-FAMILY FACILITIES

In 2001 and 2002, more than 10,000 Schlage E-Bolt Key Management Systems were installed in major multi-family facilities including Renaissance St. Andrews—Louisville, KY, Louisiana Oaks—St. Louis Park, MN, Todd Hollow Apartments—Park City, UT and Bordeaux Apartments—Newport Coast, CA.



GOLF/GATED COMMUNITIES

IR Security & Safety electronic solutions are perfectly suited for golf and gated communities, and when applied allow owners to access all of the areas they are authorized to enter using only one common credential. In addition, the management of the community will be able to gather real-time information from the access control software and know where and when their property owners are utilizing the service and facilities of the community.



UNIVERSITIES

The University of Rhode Island is using Locknetics On Board as a cost-effective, computer-managed security solution for its residence halls. The system, which includes LockLink software, Schlage CM locksets, Von Duprin CM exit trim and Locknetics hard-wired controllers, manages more than 1,000 installed access points. The university has also installed an IR Interflex networked system in administrative buildings, assembly halls and audio-visual storage areas. Future plans include linking these two IR systems together, with the Interflex software seamlessly managing both the online and offline access points.



IR is a global, diversified industrial enterprise with market-leading brands serving customers in the growth markets of Climate Control, Industrial Productivity, Infrastructure and Security & Safety.

IR is committed to a philosophy of Dual Citizenship. By seeking out synergies and integrating capabilities, every IR sector and company works together to offer comprehensive, total solutions to its customers.

Further information on IR can be found at www.irco.com.

IR'S MARKET-LEADING, TRUSTED BRANDS INCLUDE:



- Write for our other IR Security & Safety brochures:
- *Airport Security: Taking Control Now and in the Future*
 - *Engineered Solutions for High-Abuse Environments*
 - *Multi-Family Property Security Solutions*
 - *Your Leader in ADA Solutions*
 - *Security and Safety Solutions*

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