

Catalog 2020



ISOTEC



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ETHOS

Isotec Security, Inc. is the best custom Safety Entrance manufacturer in the world thanks to our culture of never being satisfied with the status quo. Security threats grow and change daily and so do we, constantly working to remain one step ahead. Listening, understanding, and expanding on our clients needs to craft perfect solutions is why we are the number one name in optimized and personalized security ingresses.

Our promise is to maintain 100% accountability to do what we say and when. We accept accountability to maintain open and direct communication channels internally and with our clients; ensuring that all actionable information is known throughout our organization. The conviction to be personally responsible for maintaining the cohesive effort required to complete our mission is core to our business.



HISTORY

Originally formed in 1998, the company took on a new leader and was reestablished in 2008. David Barnes, CEO, has overseen a wave of innovative technological advancements in the security world that stems from a lifetime of service and originality. Isotec has since become the #1 Safety Entrance choice for the United States Government and gained certification for Designated Anti-Terrorism Technology by the Department of Homeland Security.



“Creativity is our nature. Every problem has a solution if you examine all the angles and that’s where we do our best work.”

One size does not fit all when it comes to security. Across all industries, experts know what they need protected, but not always how to protect it. Our duty to our community, our staff, and our clients shapes every decision we make. There isn't an ounce of can't or quit in this company.

Creating brand new, effective solutions for our clients' security needs isn't just our job, it's our identity.

MISSION

As a company, our mission can be broken into three parts:

- To prevent violent crimes or security breaches from occurring in public, private and government workplaces.
- Promote a safe corporate attitude that enables the growth and development of our team members.
- Provide strategic and tactical advantages for our clients with products and processes; tested, proven and credentialed to keep safe and protect their employees and those they serve.





TESTIMONIALS

“ The best part is Isotec’s openness and willingness to listen to the customer’s needs and solve creatively ”

David Thomason

“ On-time delivery and a focused design group that’s responsive to our needs. ”

Robert Crawford
Convergent Technologies

“ Isotec systems allows us to adapt to our clients requirements and has become the standard in Industry that everyone compares to. ”

Ron Sherman
RHS Consulting

“ They were already the vendor of choice. I work with them to ensure the architectural design and Isotec product work together. The collaboration process has been great ”

Donna Marion
Studio Southwest Architects

“ We’ve been working with Isotec for about 3 years. I enjoy working with them as they can react quickly to needs in the marketplace. ”

Michael Hurtado
Astrophysics



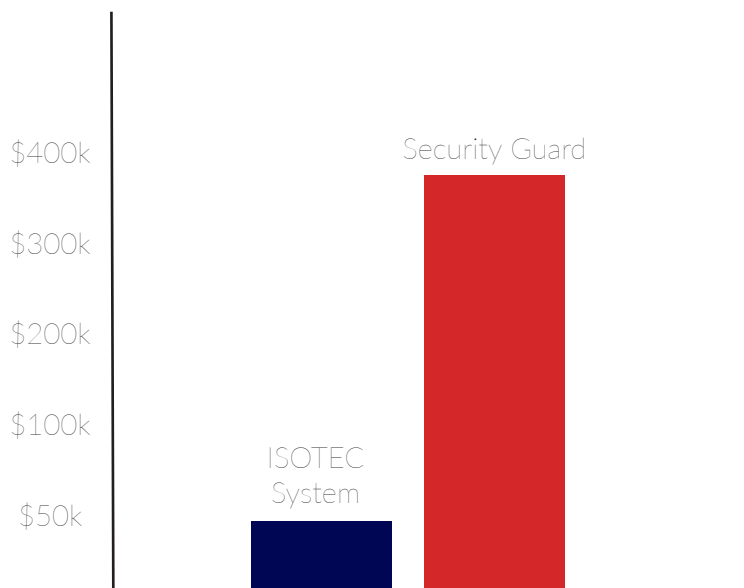
COMPETITIVE ADVANTAGE

The status quo is the greatest threat to innovation. In our industry, it can also be the difference between life and death.

The most common form of physical security is the guard. Human security personnel can only react to a situation. An Isotec system prevents one. Bias and human error can also result in a public relations issue or, more dangerously, a breach in security. An armed assailant versus an armed guard just adds another weapon to a high stakes altercation. A mantrap holds the threat in an enclosed area, safely, until reinforcements can arrive to de-escalate the situation.

As well as being the safest answer, it is also the most cost effective. The return on investment in one of Isotec's systems is immediately accretive. A traditional guard will need a yearly salary with benefits and can only protect the building while on site. Our systems are a one time investment with a minimum CapEx10 year average lifespan, and higher rates of success.

10 YEAR COST DIFFERENCE



“ Not even the status quo can hold us back, tech advances overwhelm it because the difference is between life and death. This is a struggle, status quo has no chance. ”

No true competitor exists for these one-of-a-kind systems. There are other mantrap manufacturers, but none with the wide array of optimization capabilities or the capacity to craft entirely new panaceas.

Less than 5% of the mantraps we manufacture are standard. We pride ourselves on our ability to optimize the base models to craft the perfect solution to our clients' security needs. However, there are certain features that are prioritized in all models.

All of the foundation models have the rare ability to be retrofitted as a seamless addition to a current building. The 'one size fits all' thought process makes it nearly impossible to match an older building's looks and layout, a large part of why personalization is in such high demand. When safety is a must, but destroying the front of a building is not, we do everything we can to make a beautiful, functional, and secure point of entry.

Each base unit is designed to be handicap accessible. Safety Entrances are able to conform to any city or state specific requirements, with the entire facility's layout used to examine different options. Every base model is designed with consideration of ANSI and ADA code compliance.

For contactless entry, the newest addition to our optimized features are automatic doors. While manual doors are standard, automatic options are available and can be combined with several other optimizations for a hands-free model.

There are preprogrammed algorithms in place that allow for automatic overrides in emergencies such as fire, to allow for a faster exit. As always, safety is the number one priority so integration with existing fire alarms is common, meaning when the alarm goes off, the doors will not put human life at risk.

STANDARD PRODUCTS



The ideal solution for a highly classified location or a small business's security needs, our Single Lane model is made for 50 person occupancy areas. While it may be perfect for a compact structure, it also has the versatility to handle high traffic points. Several Single Lanes are often combined using common walls to satisfy high volume areas due to their bi-directional lane. This economical model is also the go-to for some of the most complicated projects. A favorite for data centers and critical infrastructures, the single lane is tremendously adaptable.



SINGLE LANE SAFETY ENTRANCE



Rough Openings

Height - 91"

Width- 65"

Depth- 98"

DOUBLE LANE SAFETY ENTRANCE

Rough Openings

Height - 91"

Width- 106"

Depth- 115"

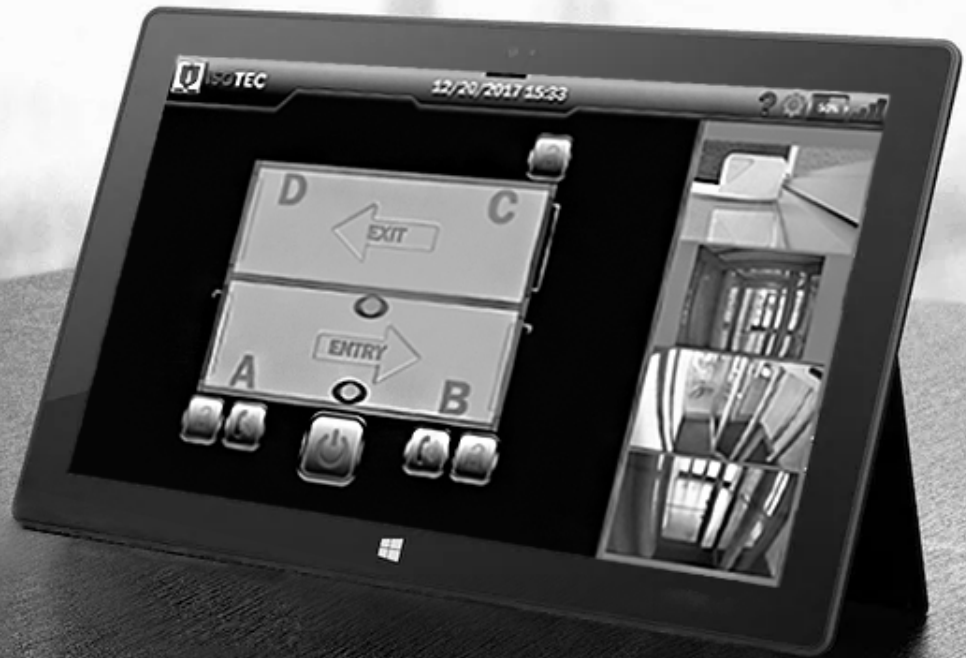


The best security is a strong visual deterrent; stop the risk before it starts.

The most popular model is the Double Lane Safety Entrance system, as it is excellent for medium to high traffic locations. Designated entrance and exit lanes lend themselves to the fast through-put time. Welcoming as a storefront, this is the financial institution industry's go-to model and an astute product for public facing companies.



The Double Lane offers an obvious security structure without slowing down the flow of traffic to the level that a guard individually scanning each entrant would. At the same time, it keeps it welcoming to those who do not pose a threat.



SYNERGY

Our flagship electronics operating system is Synergy, the brains behind the brawn.

Synergy is an isolated system, closing a vulnerability that many other security products have. Coming in both tablet and desktop formats, the intuitive functionality with simple directions and pre-designed commands make training quick and minimizes complications. The smooth interface makes video viewing and intercom communication easy for staff. Each console can be tailored to individual needs including language options and camera angles. Hardwiring is the system standard and provides maximum security. For those with a preference of mobility, the tablet can control access remotely; which also allows for a single person to control several systems simultaneously. While the Synergy Tablet operates on its own intranet for extra cyber security, the desktop is the most popular electronic option to support the physical structure.

IQ & ACE (Access Control Electronics) were created to update older Isotec, Novacomm, and Hamilton Safe entrances. While a 12-year-old design may be physically operational, the system may require electronic revision to support it. Rather than replace an entire mantrap because it's original company is no longer in operation, ACE can quickly fortify its safety abilities.

IQ & ACE are designed to extend the life of legacy mantraps

Most security needs can be grouped under 3 main objectives:

Access Control

For areas that are restricted to a group of people. High value areas, whether it's information, personnel or products, need to be protected.

Asset Protection

Whether it's data, materials, or finished goods, we can create a system that keeps your assets secure.

Weapons Detection

High threat locations can risk reacting to threats or can proactively prevent them.

We assess what the situation needs and design the perfect security system using only the best tech available.

OPTIMIZATION



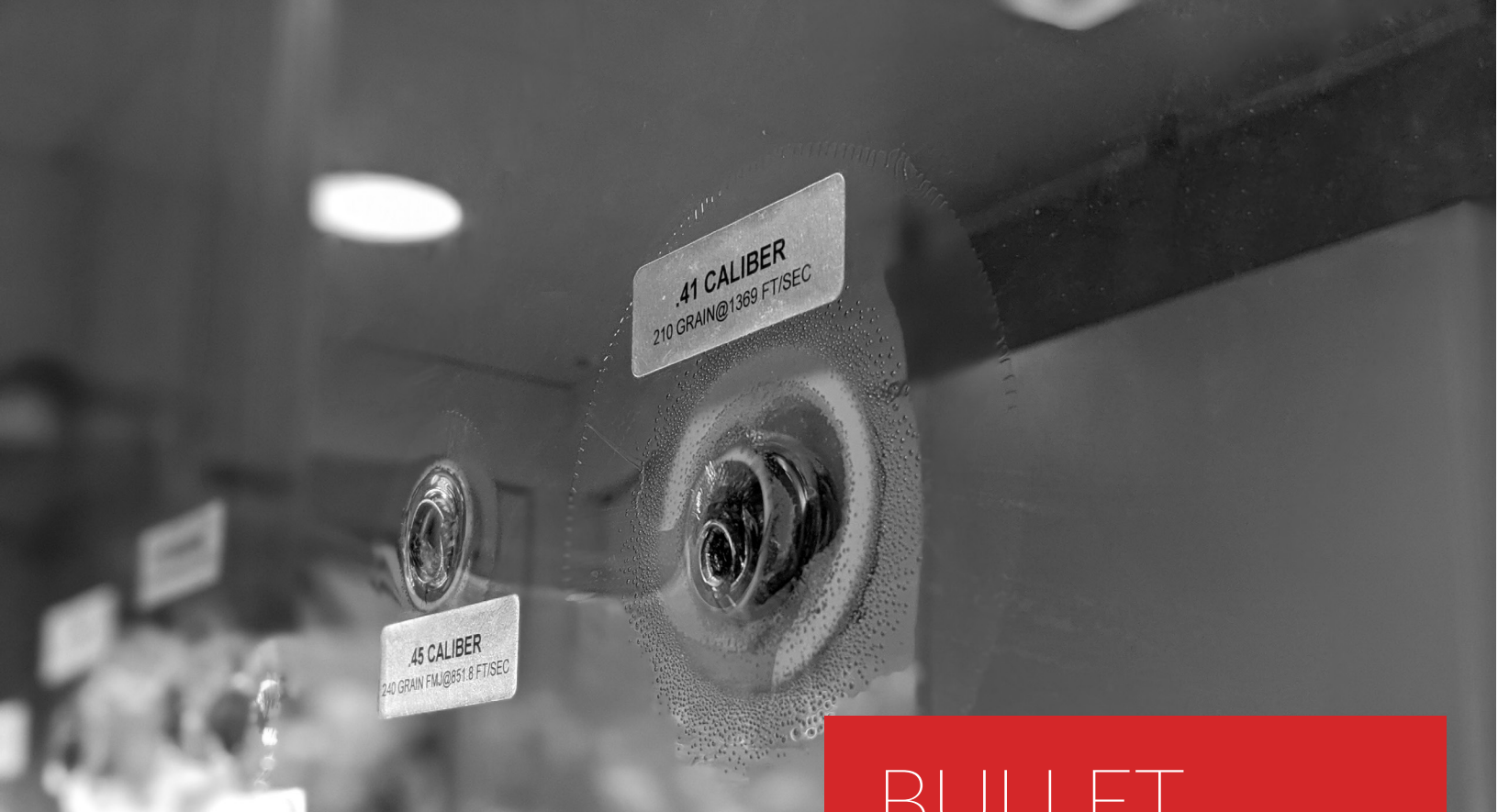


AESTHETICS

One of the many aspects that makes our systems stand out from the crowd is our capability to work with buildings' designs.

We can retrofit our systems to adhere to any building's look. A classy bronze, a modern white, or exciting teal. Whatever the color or finish is, we can match it. Even our glass can be treated to fit the style and spirit of a company's location. Mirroring, tinting, and logo integration is commonplace and effortless.

When designing a building, a security professional may not account for the necessity of architectural harmony. An entrance is the first representation guests get of a company, so the message it gives should be one of both grace and safety.



BULLET RESISTANT GLASS

Anti-Attack glass comes standard in all Isotec units, although Bullet Resistant (BR) glass as high as UL Level 8 has been incorporated into systems. Our team will evaluate what level glass is required for the site.

Isotec recommends UL glass that does not spall to protect those outside of the mantrap while a threat is contained inside. Spalling is the spray of the sharp debris that flies out when glass is shot, leaving innocent bystanders in danger's way.

Another stand-out quality of our BR glass is, unlike most protective glass, the polycarbonate will expand without visible warping the inner layer. This glass can expand or contract as needed while still leaving a virtually flat surface.

Stylistically, we can add logos and graphics to this surface, additionally offering a wide variety of tints and mirroring selections.

Only the highest quality parts make their way into our Safety Entrances. For metal detectors, we trust CEIA. With the ability to detect weapons as small as a pocket knife or as large as an assault rifle, it is programmable for any company's specific needs. A cut above the rest, it scans the entire body, reducing risk of cleverly hidden threats.

Not only great for weapons detection, it can also be used for asset protection. Sometimes the risk of an item leaving the facility is just as high as one entering. For those situations, a metal detector is the simplest integration option. Many models have been assimilated into the mantraps, leaving room for different sizes and detection levels.

METAL DETECTORS



Access control is the most important aspect of location security; making sure only the right people get into restricted areas. We can integrate any form of access control into our systems for an easy and secure transition.

There are hundreds of card and FOB reader manufacturers on the market, as an experienced systems integrator we have yet to come across one that couldn't be incorporated into our systems. If there is already an access control system in place that utilizes a credential device, we are able to include that to reduce training time and additional work for the staff.

Biometrics have also been included, even those as simple as a thumbprint or as complicated as retina scans. Facial recognition scanning can occur at any desired point within the mantrap, using cameras that can be hidden for additional security.

Our 'trusted employee' feature allows certain individuals automatic bypass from precautionary deterrents, like a metal detector. This means that armed guards and other authorized personnel would be able to pass through without being slowed down by the system.

CARD READERS & BIOMETRICS





MILLIMETER WAVE DETECTORS

The highest level of discrimination comes from the Millimeter Wave Detector (MMW). The ability to integrate this advanced imaging technology is exclusive to Isotec Safety Entrances. Commonly seen in airports, this allows threats of nearly any size to be noticed, even down to a micro-sd card.

When watching for company assets or potential threats that are either very small or non-metal, the MMW detector offers the optimum results. Able to quickly perform a full-body scan, it's uncommon skill of detecting miniscule objects makes it a must for operations like confidential data centers.





X-RAY

Working simultaneously with the mantrap, x-rays machines with artificial intelligence are most commonly placed between lanes for accelerated scanning. The items and the person are checked for weapons or assets at the same time, isolating them if need be for safety. The x-ray systems use AI to track certain items and notify personnel when they are detected. This technology also offers greater speed and reliability than a traditional guard, as the AI eliminates the mental fatigue from staring at a screen, reducing human error. Safety Entrances that integrate x-rays are becoming especially popular in mailrooms of Fortune 500 companies.



LEFT OBJECT DETECTION

The largest security threat is a smart criminal, and one of the biggest work-arounds is the left object. Dropping a weapon in the exit door as someone leaves only to be picked up once inside, leaving an explosive on the wall, or setting an EMP on the ceiling to erase valuable information, are rare but smart ways to bypass a metal detector or similar barrier. The Left Object Detection feature prevents or notifies personnel of potential danger. Instantly, the system can scan itself using infrared and video analytics to make sure the area is clear of even very small devices before releasing the second door.





ANTI-TAILGATING/ ANTI-PIGGYBACK

Frequently overlooked, tailgating is a huge threat to secure areas. Without proper protocols and technologies, an authorized user can bring in unauthorized individuals. We craft our systems under a zero trust policy. When access control is a main concern, a key card alone might not be enough.

Tailgating is a devious and common way to circumvent access control measures. In this method, the authorized individual is likely unaware that an unauthorized person is following them or using their credentials to get into the secured area. Often as simple as catching a door before it closes, tailgating just takes a little information and good timing. Whether the goal is prevention or detection, Isotec has Anti-Tailgating technology to keep a restricted area protected.

Piggybacking is the more insidious form of tailgating, where the authorized individual is aware and complicit in letting the risk follow them inside. This could be the passing back of a keycard, sharing of a password, or holding the door open for the threat. Statistically, the most common threat to a company are the employees themselves. With this in mind, Isotec has invented systems that can notify security personnel that a breach has occurred so the situation can be dealt with immediately.

OUR PROCESS

FIRST CONTACT

Prequalification and security needs. Discussions to see best ways to handle threats and draft solutions.

SITE SURVEY

Examine location, use information to create renderings optimized for this site.

ESTIMATE

Prioritize which security options are needed and within budget, leading to a finalized quote.

PERMIT

Permits are usually required for the site and necessary changes made.

PO

Purchase order is issued by the client. Terms and conditions are set so manufacturing can be prepared.

KDA

A Key Dimensional Aspects form is crafted and sent.

BUILDING

Manufacture vestibule and complete factory acceptance test.

INSTALL

Securely ship parts to site. Certified security integrators install.

TRAINING

Complete site acceptance test and train staff on the new Safety Entrance.



Intake Questionnaire

What are you trying to protect?

How many people need access to it daily?

What are your needs?

Access Control

Weapons Detections

Asset Protection

Where are you located?

When would you like the project completed?

How did you hear about us?

Company Name

Contact Name

Phone

Email

GLOSSARY

Safety Entrance

Isotec's term for two sets of magnetic interlocking doors placed several feet apart to create a closed space. This space is used to control access, detect weapons, or protect assets.

Mantrap

The outdated industry term for Safety Entrances. Our standard units do not come with the function to trap suspects inside, although this is a possible configuration. Other terms include: Vestibule, Sally Port, Portal, Booth, and Security Door,

UL Rating

Underwriters Laboratories is the largest 3rd party safety certification agency. The rating of Ballistic Resistant glass comes from their testing,

Millimeter Wave (MMW)

The millimeter wave detectors used in our system utilize radio waves between 30-300 Gigahertz. These waves will pass through clothing but reflect back harder material.

KDA

Key Dimensional Aspect drawing provides the material dimensions for manufacturing the Safety Entrance.

For additional resources, please visit IsotecSecurity.com



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