

Case histories

Global security solutions

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RETAIL CHAINS AND OUTLETS

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RETAIL CHAINS AND OUTLETS

ALÌ SUPERMARKETS

Stores nationwide across Italy

DESCRIPTION

The Italian Ali Supermarket chain

Ali, a well-established Italian chain of supermarkets, hypermarkets and shopping centres spanning the nation, has stores in the Veneto and Emilia-Romagna regions divided across two channels: Ali and Aliper.

Its strength lies in recreating the high level of service of the old-fashioned grocery store in a supermarket setting, through an offering that delivers good value, quality and peace of mind.

NEED

The needs of operators in the retail chain business

Major supermarket chains like Ali need all-encompassing security to keep their individual stores safe from theft, vandalism, and other threats.

The expansive nature of spaces in stores can encourage the ill-intentioned to get up to no good, hence the need for total surveillance.

In addition, some areas inside stores are more at risk of fire, given that they are home to powered machinery inside which heat can build up.

SOLUTION

Security within easy reach: the Ali stores

To meet Ali's specific brief, we developed an ad hoc solution whereby the intrusion detection system is based on the high performance of our ETR control units: the unit allows for various functions to be added to manage systems and integrate with building automation, with the added bonus of rapidly handling multi-system applications.

All-encompassing protection can be achieved with a multi-pronged approach and by deploying the various devices in a strategic layout so that they create adjoining detection areas along the customer aisles, effectively giving the ill-intention individual no opportunity to evade them.

In Ali's case, on the intrusion detection front, our response to the brief was to produce a solution involving ceiling- and wall-mounted detection sensors that would work in synergy to deliver total protection.

For fire prevention, the fully fire code compliant system installed employs control panels from our Tacora series.

On the CCTV front, the chosen option was to use surveillance cameras and relevant mounts from the PRO line, for direct visual monitoring of the various areas.

To handle supervision across different types of system, the client opted for the GLOBALPRO supervision software, for 24hr monitoring of system status: the software's visual interface means events can be catalogued in specific customizable boxes, so that events can be sorted by type for quick and intuitive viewing. In addition, the opportunity to use a number of monitors connected to the PC results in a simple and immediate overview.



ARCAPLANET

Stories nationwide across Italy

DESCRIPTION

A love and a passion for animals: this is Arcaplanet in a nutshell

Arcaplanet - a market leader in the pet food sector with just shy of 200 stores across 14 regions - is the first fully owner-operated Italian supermarket chain devoted entirely to pets. Its mission consists in meeting the needs of all pets and their owners through an extensive range of products, a professional approach based on experience, and a never-ending stream of promotional activities of every description.

NEED

Large stores and security: the challenges posed

Every day, there are hundreds of people who visit the specialist retail chain's stores, either as customers or simply to browse: hence it is essential to have a simply and centrally managed system in place to provide uninterrupted protection and keep people and staff safe. By their very nature, stores and retail activities are often exposed to risks of various kinds, including common criminal acts (shoplifting, theft, acts of vandalism) - hence the need for continuous surveillance of the area in question - and marked exposure to the risk of a fire breaking out given the massive floor area.

Arcaplanet, a giant in pet food retail, has opted to go with centralized systems to protect its stores.

SOLUTION

PRO line, for continuous, comprehensive monitoring

The line of e-Vision PRO devices used for video surveillance features unparalleled versatility thanks to the impressive and continuously updated variety of products. Two kinds of solutions have been adopted:

- » the multistandard line, made up of various models with various different features, it exploits traditional analogue coax cabling, making for lower installation costs and shorter time frames, and allowing for the integration of existing systems;
- » the IP line, which is ideally suited to new installations, complex situations, or sites requiring remote monitoring, with a resolution of up to 8 Mpx and NVR offering innovative features.

The use of such an extensive range of products all communicating continuously with each other in zero time creates a synergy allowing alarm events to be anticipated, keeping goods safe at all times and creating the effect of deterring people from committing the criminal act.

SOLUTION

The solution to fire risk issues: the Tacòra line

For prevention and full security, look no further than the fire alarm system based on the Tacòra series of high-performance cutting-edge control panels. The Tacòra series offers the Arcaplanet retail chain a twofold advantage:

- » by exploiting a dual operating mode - conventional or conventional/analogue addressable hybrid - the series is great for both boosting existing fire alarm systems and implementing a new system.
- » it offers supreme ease of programming and use, with a user-friendly graphical interface featuring a graphic display and indicator LEDs.



OFFICIAL ROLEX DEALER

Pescara, Italy

DESCRIPTION**Rolex, style and luxe**

For over a century, elegance and refinement have come as standard with Rolex watches, adorning the wrists of explorers and champions the world over, from the highest mountain peaks to the most remote ocean depths.

Today, Rolex is something of a fixture at the most prestigious sports events, such as golf, sailing, tennis, horse-riding and motorsports, and is an unfailing patron of culture, science and exploration with an international reach.

The official Rolex store in Pescara is working hard to introduce this philosophy into the Abruzzi region, too, making these stylish watches available to the local population.

NEED**A high level of security for high-end jewellery**

Securing the store involved, most importantly, selecting hi-tech, cutting-edge devices that would enable intruder protection to be integrated with an ultra-secure video surveillance system, to ensure a suitable level of protection for the items kept inside the store.

SOLUTION**EL.MO. has come up with a tailor-made solution**

The intruder protection system was designed based on the use of a PREGIO-series burglar alarm control unit connected to detection devices, including volumetric detectors with anti-masking, anti-blinding, crawl-protection, look-down (orientation change detection), and removal protection functions, ensuring tampering is not an option.

In addition, selective microphones have been installed to cover the strong room, and burglar alarm buttons located in various prominent points around the store, allowing the warning to be sent immediately to the control unit and, consequently, to the police in the case of imminent danger.

When it came to the CCTV solution, the option chosen was NVR with 8 channels connected to 4Mpx IP security cameras from the e-Vision line, which come in a bullet version for exterior use, and minidome version for the interiors.

unicomm

UNICOMM

Stores nationwide across Italy

About UNICOMM

Unicomm is one of Italy's leading businesses in the Retail Chain industry, cementing its place in the market with a whopping 200-plus stores carrying its Famila, A&O, C+C and Emisfero hypermarkets brands all across the country.

The Unicomm business philosophy is based on meeting people's needs in terms of providing a relaxed atmosphere and leaving them with more free time, through a safe shopping experience that offers value for money and quality.

Consequently, security is one of Unicomm's cornerstone values: security that spans various fronts, including protecting stores, to ensure customers and employees alike are comfortable and feel safe.

Protection in retail chains, the needs to be addressed

Like shopping centres and department stores, these large chains are prone to being on the receiving end of criminal acts, encouraged by the vastness of the area.

In these large spaces, there may well be areas that are more susceptible to suspicious behaviour, which may not be picked up by employees or security guards. Furthermore, there are target areas that are statistically at higher risk of theft - namely such sections as beer, wine and spirits, cakes and tinned goods - which thus require additional supervision.

In addition, fires are more likely to break out in said zones given that they are home to powered machinery inside which heat can build up.

Unicomm stores, tangible security

With a view to protecting the site and deterring thefts, our R&D department has designed an ad hoc solution tailored to the Unicomm case, based on control units from the ETR series: fittingly, this line offers the option of integrating multiple system management functions and working in synergy with building automation systems, while also providing a series of programmable logics that allow complex multi-system applications to be managed in a straightforward way.

Inside a supermarket, intrusion detection is a highly complex affair: in Unicomm's case, the complex solution - determined together with their Security Management - plays a key role and includes the different technologies of ceiling- and wall-mounted detectors being used in conjunction with each other.

To avoid the risk of a fire breaking out, we have employed a fire alarm system based on Tacòra-series control panels, which provide for centralized, code-compliant management of all fire protection devices located throughout the area in question.

To ensure all areas inside the stores are covered by visual monitoring, security cameras and relevant mounts from the PRO line were installed.

The installation solution adopted to solve the problem of securing the target areas is known as "trap protection": with the strategic placement of the cameras and various detectors, a series of adjoining detection areas can be established along the customer aisles, resulting in all-encompassing protection.

Our thanks to Wegma Srl for handling installation and managing works on site.



D.M.O.

Stores nationwide across Italy

Hygiene, beauty and more: the large DMO group

The D.M.O. Group has extensive experience in perfumery, personal hygiene, pet food and pet accessories, and since 2018 it has also been serving the catering industry, offering customers an original and innovative proposal in line with the company's vision. The prerequisite for all the companies in this large group is to meet all the tangible and intangible needs of citizens by ensuring their health and hygiene, both their own and that of their pets, through an offer tailored to every need, fulfilling the many varieties of personal taste.

The risks associated with large-scale retail trade

Large specialised retail chains such as Caddy's, Beauty Star or l'Isola dei Tesori need all-round protection to protect individual shops from theft or vandalism: the large spaces inside the shops can encourage unwanted actions by criminals and expose certain areas to greater risk.

In addition, the presence of electrically powered equipment means that some areas within the shop are more susceptible to fire risk.

EL.MO.: a tailor-made proposal for centralised security

The proposal was configured and customised according to the needs expressed by the client. As far as DMO is concerned, the intrusion detection system is based on the high performance of the ETR/PROXIMA control panels, which support all the functions necessary for the correct management of the installations.

The sensors are strategically positioned to create a real 'trap' for criminals: the devices are placed in such a way as to cover contiguous areas in a complementary manner, thus allowing the transit along the obligatory passages to be monitored with maximum effectiveness and instantly identifying suspicious movements; all this to catch criminals in the act.

The system was supplemented with a proposal for fire detection. In this case, the system is developed from powerful, high-performance, state-of-the-art Tacòra series control panels, combined with support sensors for signalling events or situations that may indicate a fire.

A complete and perfectly integrated security system cannot ignore a good video surveillance system: in the case of DMO, a complete range of devices and relative supports belonging to the e-Vision PRO line was used, allowing proper supervision of critical areas and giving security managers the opportunity to also rely on visual control.

The GLOBALPRO supervision software was proposed for the cross management of the different types of systems, to ensure continuous monitoring of the installation status and ease of use, thanks also to the possibility of connecting several monitors to the PC.

In addition, the straightforward, user-friendly interface makes it possible to set up an even more schematic visualisation, thanks to the possibility of subdividing events by type.



PATERNO GROUP - EUROBRICO

Stores in Triveneto and Lombardy

DESCRIPTION

Paterno Group: family and the link with the territory

The Paterno Group is a prestigious family business based in the beautiful Valsugana region. The Group manages a number of businesses, including Eurobrico S.p.A., which has been operating in the DIY sector for more than 25 years, with more than 28 stores in Triveneto and Lombardy.

NEED

Safety as a core value

In order to guarantee the safety of the stores located throughout the territory and the ease of management of the systems, Eurobrico expressed the need to have a tool that would allow centralised control of all the systems to be installed, managing them from the headquarters. In addition, there was a need to centralise the management of all types of systems to be implemented (anti-intrusion, fire-fighting and video-surveillance) through a single, powerful but easy-to-use software, which would facilitate the supervision and control of devices and systems remotely, with the opportunity to provide a complete and structured reporting of events and to integrate portions of existing systems.

SOLUTION

A solution for every need

In order to protect the shops from theft, intrusion and fire, ad hoc systems were installed and coordinated by the GLOBALPRO supervision software from EL.MO.

The visual interface of the GLOBALPRO software is structured so as to automatically categorise events in specific customisable boxes: in this way events of the same type, of the same nature or referring to the same site will be immediately assigned and visible in specific boxes, making it possible to consult them quickly and without the risk of information overload. In addition, by using several monitors connected to the PC, a simple and immediate overview can be obtained.

Anti-intrusion protection is provided by PROXIMA series control panels and volumetric motion control sensors, strategically placed to ensure protection in all designated areas. For protection against fire risk, a system was set up based on Tacora TA4000 control panels combined with point- and linear-type detectors, for guaranteed protection in accordance with the law. Finally, a structured IP video surveillance system was implemented with a 32-channel NVR and cameras for visual control of the areas.



iN's MERCATO

Stores nationwide across Italy

DESCRIPTION

iN's Mercato: Quality shopping

iN's Mercato is one of the leading Italian brands in the discount sector, with a network of over 360 shops in Abruzzo, Emilia-Romagna, Friuli Venezia Giulia, Lazio, Liguria, Lombardy, Piedmont and Veneto. Founded in 1994 by the Pam S.p.a. Group, it has grown over the years, developing an independent structure based on a single philosophy: giving more value to shopping and people's lives. With a careful selection of its producers and constant monitoring of the supply chain, iN's guarantees high quality standards at the best price, with products that meet all the requirements of well-being, health, lightness and respect for the environment.

NEED

Protection in large-scale retail chains: what problems are there?

One of the challenges that a large chain of supermarkets has to face every day is keeping safe a place that is very large and of interest to potential wrongdoers.

The need for a company operating in this sector is related to the ease of use and maintenance of security systems, with a view to ensuring business continuity, understood as the ability of the organisation to continue to provide products and services and to carry out all normal activities while managing other situations.

In the case of iN's, more specific needs were also considered, including:

- Centralisation of security systems;
- Integration with video surveillance and access control systems;
- Development of customised control unit functions according to specific needs;
- Integrated access control.

SOLUTION

EL.MO. has the solution!

An ETR-based solution was adopted to ensure total and effective protection of the entire site. It is ideal for large-scale installations, as it implements specific functions such as gate management, interfacing with access control and video surveillance systems, and centralising the entire security system.

The system was customised to the customer's specific requirements: a dedicated solution was created for the specific problem of access control, integrating all the functions offered by the access control system with the potential of the anti-theft system. A wide range of detection devices were also installed, including FLY ceiling and DT4000 wall-mounted volumetric sensors and optical-acoustic devices for detecting and signalling alarm situations.

For visual inspection of the rooms, an IP-based video surveillance system was implemented, including high-resolution (5 Mpx) cameras to ensure detailed inspection of areas where access to details is required.

A system based on various types of fire sensors and control units from the Tacòra series has been adopted to combat the fire risk. These offer a user-friendly interface with graphic display and LED signalling that enables the entire system to be operated quickly and intuitively.

ADVANTAGES

Tangible safety: mission accomplished

Safety is a passion that EL.MO. has been cultivating for years, and every success nurtures the enthusiasm and commitment to progress. EL.MO.'s objective is to give certainty to its customers by ensuring their peace of mind and serenity, resulting from a completely safe condition.

Our certified quality products and ad hoc developed solutions are the means by which we strive to achieve our goal: eliminating worries and anxieties and facilitating timely intervention actions when an alarm event occurs.



AQARY BUILDING MALL

Silêmanî, Iraq

DESCRIPTION

The Mall par excellence

The Aqary Building is a modern Shopping Center in Silêmanî (or Slemani), a city in central-western Iraq not far from the border with Iran, which includes a great variety of shops, restaurants and other commercial establishments aimed at providing entertainment and various kinds of services to the citizens of the charming Kurdish city, which has about 800,000 inhabitants.

NEED

There is no fun without safety

As with any large shopping complex, the Aqary Mall also needed a fire alarm system capable of complying with the strict security regulations, for the protection and safety of not only the large number of people present in the building, both visitors and personnel, but also the goods sold and stored there.

SOLUTION

Security: an easy job for EL.MO.

For this specific case, the project was designed to cope with the long distances of the building: the chosen control unit was **HEKLA**, an **analog-addressable** fire control unit based on a modular architecture and able to grow according to needs. HEKLA control units are in fact able to work both individually and in **networks** with a consistent number of units: for this project, two control units were installed, each combined with a loop card, which allowed the control units to manage up to 500 total addresses on 2 or 4 loops each, in order to **cover the whole complex** and efficiently protect the structure.

The expansion was necessary as the fire prevention system is composed of additional **400 devices** from the **FYRA** series, EL.MO.'s proprietary line of analog-addressable devices, designed to ensure well-structured teamwork, always synchronized and optimally managed by the HEKLA system. In particular, **optical smoke detectors**, **sounders** with light indication and **manual alarm buttons** were installed to secure the shopping center, ensuring a simple yet effective system despite the distances and complexity of the building.

ADVANTAGES

Simplicity and Effectiveness

The EL.MO. fire detection system is able to respond optimally to all the safety needs deriving from complex and extensive contexts such as large shopping centers: an easy and immediate system in use, both from an operational and interfacing point of view, as it is designed to be considered and managed as a single control unit. From a single point (be it a control unit or a keypad) it is possible to view the status of the system and program its operation, receive all signals, and control all outputs, greatly simplifying all prevention and management activities.

We thank WAN COMPANY FOR COMPUTER NETWORK DESIGN AND INSTALLATION AND COMPUTER TRADING LTD for the design and commissioning of the installed systems.



AUTOMOTIVE INDUSTRY

ROSSOCORSA

Milan, Italy

**DESCRIPTION**

Finding the edge is all about pushing limits: Rossocorsa's mantra

Backed by 25 years of experience, the official Ferrari and Maserati dealer Rossocorsa have opened a new dealership in Cinisello Balsamo, in the northern region of Lombardy.

Rossocorsa's style stands out for the distinctively refined design of its interiors, with display spaces that are very much showcases: the stylish touches and attention to detail inside the dealership, further enhanced by the glamorous luxury sports cars on show, mean it is more akin to an art gallery.

The development of the business has been built on this passion and painstaking care, which are also responsible for its steady growth and success in northern Italy, and Rossocorsa remains true to this spirit as it continues to achieve ever-new goals.

NEED

The challenge: video surveillance connected to the burglar alarm

The primary objective of securing the Rossocorsa premises was to protect the prestigious cars, a result achieved with the design of an exemplary protection system.

The need to thwart attempts to break in and steal the cars informed the decision to install an integrated system, and resulted in a precise, actionable design of the whole security system leveraging the modular nature of communication incorporated into EL.MO. products.

SOLUTION

Modular system design and rigorous efficiency: setting a new bar

Effective protection for the site was achieved with the combined use of TRIALV485 volumetric detectors, managed in a unified system through the PREGIO2000 control unit, ande-Vision surveillance cameras from the PRO line, in both minidome and bullet models, depending on which fit in better with the installation site in terms of both function and aesthetics.

Playing a key role in meeting the client's brief, the burglar alarm system and video system could be connected by virtue of the innovative InstaVision video verification system fully integrated in our proprietary e-Connect system management platform.

The use of InstaVision - enabling this innovative integration - opens up new functions: as soon as the burglar alarm system reports a suspicious event, the user is alerted to the trouble and has access to the real-time footage of the incident, even being able to check what was happening in the zone in question a few seconds before the warning was given.

In addition, with the use of devices that communicate via ULTRABUS technology, the whole system architecture has been simplified considerably: there is no longer any need for concentrators, for example, hence the system requires significantly less cabling, which also results in a reduction in installation costs and shorter time frames.

ADVANTAGES

Daring is the secret to success

With the premises secured, Rossocorsa are free to go about their everyday business with complete peace of mind, sure in the knowledge that they have gone for an effective and reliable security system, investing in the protection of the showroom's precious goods.

Passion is part of our everyday here at EL.MO., too. It's what drives us to new heights in everything we do, while curiosity and the courage to enter the arena give us the strength to continue seeking new solutions to cater perfectly to changing security requirements, which inevitably morph over time to mirror new developments in technology.



PROGRAM

Florence, Italy

**DESCRIPTION****PROGRAM: extensive range of car hire solutions**

Operating in Italy since 1992, Program is part of the international Salford Van Hire Group, which boasts 50-plus years of experience in Europe in the management of company fleets. The Group manages a fleet of over 13,000 vehicles - which it hires out to privately and state-owned enterprises - ranging from low-, mid- and high-powered cars to commercial vans, with over 70 million Euros a year in sales.

NEED**The demand for protection on all fronts: EL.MO. hits the mark**

Program's Florence site needed an all-round security system designed to keep a check on a wide range of circumstances and situations, including potential break-ins and the danger of fire. The project called for supervision of the premises, which include both outside and inside spaces, while providing the option for personnel to promptly check the events taking place in the zone in question.

SOLUTION**A bespoke installation solution**

Having assessed the brief, we presented an all-encompassing solution that would involve the three fields EL.MO. is specialized in - intrusion detection, fire protection and CCTV - so that they could communicate with each other by means of the InstaVision video verification system integrated in our proprietary system management platform: e-Connect.

InstaVision allows PROGRAM's security management team to receive alarm notifications from each of the systems in real time and to analyse the situation straight away.

As soon as an event occurs (such as a break-in attempt or early signs of a fire), a live feed can be viewed via the e-Connect app, displaying the images recorded at the exact time of the alarm event, as well as footage recorded a few seconds before the event.

The intrusion detection system put forward includes DT2000 and TRIAL485 interior and exterior detectors, for volumetric motion detection; LEDA485 exterior sirens to sound the alarm; and a multifunction touchscreen to control turning the devices and the whole system on and off and entering settings, all of which is managed by our PREGIO2000 control unit, with its high-end technology. The detection side of the offering was supplemented with full perimeter protection employing tamperproofed columns with a 250m range.

To protect against the risk of fire, a system was designed based on point detectors, centrally managed with the aid of the Tacora fire control panel, in compliance with safety standards and the fire code.

For remote control of the system, the proposal included the ATLANTE2K remote control, which has buttons for switching on and shutting down the whole system, buttons for day and night zoning, and buttons for controlling programmable outputs for applications such as automatic gates, exterior lighting, and so on.

ADVANTAGES**EL.MO.: a name to rely on, no matter what the danger**

The system's devices are set in a strategic layout, effectively acting as a theft deterrent with their considered placement ensuring surveillance of the company's whole premises.

In addition, should the system pick up a break-in attempt or early signs of a fire, the images received courtesy of the integrated InstaVision video verification service would allow the security management team to take prompt action and stop the incident from happening.

Our thanks to EBS Bagnoschi Simone for managing works on site.



HORECA INDUSTRY

SAN DOMENICO HOTEL

Savellettri di Fasano (Brindisi), Italy

DESCRIPTION

The San Domenico Hotel makes a dream holiday a reality

Masseria San Domenico, a 5-star luxury hotel in Savelletri di Fasano, has retained all the architectural features of the original ancient fortified farmhouse dating from the 15th century, comprising a watchtower belonging to the Knights of Malta.

A lush Mediterranean garden is home to a large saltwater swimming pool, while a private road lined by olive trees and palms leads straight down to the private white-sand beach for the exclusive use of Masseria guests: a high-end deluxe resort of equally high aesthetic appeal.

NEED

Maximum protection, maximum peace of mind

The brief for the San Domenico luxury hotel expressed the need to make the hotel safe both to protect the fortified farmhouse's original architecture and to provide guests with a sense of security, while also protecting them for the duration of their hotel stay.

At the same time, the establishment's guests were to be assured privacy, allowing them to feel completely at ease and free to enjoy all the hotel's amenities without any worry.

SOLUTION

The technological solution put forward

The video surveillance system designed to protect the hotel's common areas was produced based on an optic fibre network stretching 1.2 km, via which all the security cameras from the e-Vision Premium TBMX line could be connected to the VM500 NVR, exploiting centralized recording, which also has advantages in terms of the devices' strategic placement. Via this network, we were also able to deliver centralized protection of the hotel's access points, ensuring control of the flows of people entering and exiting the establishment on a daily basis, alleviating the concierge staff's workload.

ADVANTAGES

Advantages

Installing the fibre-connected video surveillance system has allowed us to systematically protect the luxury establishment from suspicious or unauthorized entry, making it much easier for security personnel to keep a check on the comings and goings. And all while keeping guest privacy front and centre, with GDPR-compliant data processing.



VIU MILAN HOTEL

Milan, Italy

DESCRIPTION

As they say in the local dialect, “De Milan ghe n’è domà vun”

The saying (there is only one Milan) could not be more fitting for a metropolis like Milan and carries a veiled affection for the wonderful city and its many facets.

The nuances and colours of the old city centre can be fully appreciated from the VIU Milan Hotel, with its rooftop terrace taking in the majesty of the city skyline. A recently completed 5-star hotel offering all the modern conveniences and a sense of security to make guests feel at home.

NEED

Security in the world of luxury hotels: the needs to be met

The one essential ingredient for wellbeing is feeling safe: hence the brief from the VIU Milan Hotel’s Security Management to secure the whole establishment, a need made all the more acute given its location in the middle of the large city.

The security system was designed to meet the effectiveness and reliability specifications and the need to ensure uninterrupted monitoring of movements, keeping track of the large number of people who visit the hotel every day, providing total surveillance for even some rather vast areas.

SOLUTION

The EL.MO. solution

In light of the need to monitor guest movements in real time, and for the simultaneous surveillance of multiple areas, a Premium-series CCTV video surveillance system from the e-Vision line was installed, including a range of different camera models based on the various requirements in terms of installation and functions.

The larger, higher traffic areas were fitted with fisheye cameras as they were an excellent fit given the hotel’s need to have a panoramic overview, both top-down and from a wall-mounted location, enabling them to monitor the flow of visitors from every angle. In this regard, the fisheye cameras’ wide-angle lens is perfect for recording everything that happens in every corner of a room, in the lobby or along corridors, eliminating blind spots altogether.

The fisheye cameras from the Premium line can be used to provide a 360° panoramic overview that, once processed with the image dewarping feature, looks like it was recorded by 4 individual cameras.

Thus we have top-quality high-performance products catering to the need for constant, efficient control of all target areas.

ADVANTAGES

What are the advantages?

The installation solution put forward has allowed the VIU Milan Hotel to handle full surveillance of the premises and constant monitoring of all the comings and goings associated with the day-to-day life of a luxury hotel, to minimize the risks of inappropriate movements and allowing the team to take prompt, effective action should an alarm event occur.

Our thanks to Mitan Telematica for handling installation and managing works on site.



PRIVATE SECTOR

PRIVATE VILLA

The Marches region (Ancona), Italy

DESCRIPTION

The home: much more than just a building

A suitably protected home is the bedrock of our security. Our dwelling is home to the most important experiences of our life: protecting the family's harmony and privacy, therefore, calls for the use of precise, reliable systems, so that every member of the family can continue to feel safe.

NEED

Small things make perfection... and perfection is no small thing

For a renovation project in an isolated location, the owner expressed the need to secure the property while being sympathetic to its setting aesthetically speaking, echoing the specific tastes of the client and delivering the highest possible level of security.

EL.MO. products have been devised to serve as decorative objects where so needed: their home-friendly design and the fact they come in a range of colours attest to the focus on suitability for a domestic setting and make sure they fit seamlessly into any surroundings.

SOLUTION

EL.MO. has the solution!

To make the premises safe, we produced a bus-based intrusion detection system using TRIAL-, GRIFOX- and STRIXO-series exterior detectors employing 485 technology, with the aim of ensuring that the owners' pets and small plants located around the pathways would not set off the alarm. In addition, full perimeter surveillance has been implemented to keep a check on all potential access points to the building.

The use of TRES-series interior motion sensors allows the occupants to keep track of movements and people entering the interior, and with the touchscreen connected to the PREGIO-series control unit, they have full control of the whole system at their fingertips.

The system can also be remote controlled thanks to the features of our NG-TRX technology, which delivers completely secure wireless control.

The burglar alarm equipment is supplemented with a series of AHD security cameras installed to meet the need for visual monitoring and recording of the course of events both inside and outside the building.

Lastly, the security system was integrated with the existing home automation system, exploiting the modular nature of EL.MO. products and the fact the system comes ready to communicate and work in conjunction with home automation control systems.

Our thanks to E.S.T. SRLS for managing works on site.



PRIVATE VILLA

Santo Domingo, Dominican Republic

DESCRIPTION

EL.MO. makes it across the Atlantic!

The reliability and specific features of security systems play an integral role in protecting our property, whether buildings or their contents, whether tangible or intangible property. And so it was with the prestigious installation carried out in a wonderful villa just outside Santo Domingo, whose owner runs a road maintenance and construction business back in northern Italy.

SOLUTION

The advantages of all-encompassing protection

The number one requirement in the client's brief was to have a functional, effective and reliable system to constantly monitor the outer perimeter and every room inside their cherished Dominican villa.

The job of the system - which had to have a remote monitoring and control feature - is to anticipate and report any break-in attempt, to protect both the building and the personnel who live on site. It was clear straight away that the best solution and choice of material would be the line of control units and components employing our NG-TRX wireless technology given the efficiency of the equipment and its practical installation: properties that allowed installation work to go ahead and be finished within a relatively short time frame, avoiding invasive work on the site to be protected. Since this would be an entirely wireless system, the decision was made to use the VICOMPACT2K control unit, while when it came to the detection equipment, the home was alarmed with TRIAL2K and SCORPIO2K, to protect the outer perimeter and interiors respectively.

ADVANTAGES

Proven effectiveness

The client was hugely satisfied with the result.

In the 12 months following installation, would-be intruders attempted to break in on a number of occasions, and all attempts were picked up in advance by the TRIAL2K detectors, and hence thwarted even before they could actually manage to break into the building and damage doors and windows in the process, or harm the occupants.

The client is also particularly grateful for the control unit's sound and effective communication system, and for the opportunity to be able to constantly supervise all the goings-on and, where necessary, take prompt action on a system installed around 8000 km away.

Our thanks to AELCO Srl for handling installation and managing works on site.



PUBLIC SECTOR

CAP GROUP

Lombardy region, Italy

DESCRIPTION**CAP Group, ninety years young**

“Bringing water into Milan’s households”: this has been the mission of the Drinking Water Consortium (CAP) since it was established in 1928 to handle the water supply of the City of Milan and its surrounds. Today, in terms of assets, the CAP Group is the leading mono-utility provider on the national scene and serves a catchment area with a population of 2 million with its integrated water supply service, managing network and plant assets, and planning and carrying out investments, routine maintenance and repairs.

NEED**To operate safely, people need to feel safe**

In every city, dozens of wells are installed, tanks erected, kilometres of pipes laid to reach houses, villages and even the most isolated farmhouses, and to ensure that everyone has access to that most essential of commodities: drinking water.

To ensure worksites are protected against theft or tampering, the brief called for systems to cover control rooms, including excavating equipment, and other machinery and tools, as well as ensure privacy in the command centre.

SOLUTION**A bespoke EL.MO. solution**

The installation solution put forward involved the use of PREGIO2000-series intrusion-detection control units to ensure all burglar alarm devices are centrally managed.

The dual-technology DT2000 detector was chosen for volumetric protection with anti-masking and crawl-protection functions, for tracking movements and individuals entering certain areas within the site.

Use of the e-Connect platform addressed the need for centralized control, enabling the system to be controlled and supervised remotely, allowing operators to handle surveillance from strategic locations.

The stylishly designed NIRVA intrusion-detection keypad has been used for local control of the intrusion-detection control unit, its compact size making it suitable for installation in what are usually excessively tight spaces.

In the event of an attempt to break into the protected areas, the alarm is given immediately by the SA101LBSI exterior sirens that - thanks to 2 powerful horns - enable operators to take prompt action and check out the situation.

PROSPERO RENDELLA CIVIC LIBRARY

Monopoli (Bari), Italy

**DESCRIPTION**

Knowledge accessible to everyone

The Prospero Rendella Civic Library in Monopoli is the epitome of a modern, engaging approach: a “Knowledge Hub”, a multimedia and multicultural space whose aim is to cater to the needs of an ever-evolving public, keeping pace with developments in technology and social relations.

NEED

Need serving a purpose: bringing together tradition and the now

Technology is a very important issue for the facility since - in addition to storing books and works of every kind - it offers technological and multimedia access, ensuring that knowledge is available to all free of charge, with a view to preventing any form of marginalization, whether physical, technological, social or cultural.

To protect the premises from damage and from theft or vandalism, and to keep visitors and equipment safe, a cutting-edge security system was produced that was also sympathetic to the heritage values of such a historically and artistically significant building.

SOLUTION

Security seen as an inherent value: an ad hoc solution

To provide the site with 360-degree protection, the chosen solution used a PREGIO2000 control unit: our first “green” control unit, designed to perform all its functions in an entirely environmentally friendly way, minimizing consumption and, consequently, money wasting.

Once again, the modular nature of EL.MO. products came into its own here: the intrusion detection system has been integrated with a lighting and temperature-control system, to make the various systems easy for operators to control and use.

DT2000-series volumetric detectors have been used for volumetric protection of the spaces, delivering impressive noise immunity and accurate detection of alarm conditions.

The system is controlled using a capacitive touchscreen with an advanced, innovative design that, in addition to managing the commands and pulses sent to the intrusion-detection control unit, also makes a decorative feature.



OPERA PRIMAZIALE PISANA

Pisa, Italy

DESCRIPTION

The architectural complex: a wonderful setting on the River Arno

Opera della Primaziale Pisana (OPA) are a non-profit organization concerned with managing and looking after the architectural complex that incorporates the magnificent monuments set around the city of Pisa's cathedral square, Piazza del Duomo. This complex includes architectural works of cultural and artistic interest, such as the Cathedral, the Baptistery, the Camposanto, the Sinopie Museum, the Opera del Duomo Museum, and the world-famous Leaning Tower. The site is also home to service buildings, such as administrative offices and storehouses.

Bringing security to a priceless site

Given the sophisticated nature of the target site - linked to the wealth of unique features of inestimable artistic and historical merit - the place was in need of protection against acts of vandalism, terrorism, and common criminal acts, while it also required a system that would detect early signs of a fire, provide video surveillance, and pick up potentially dangerous situations in general. These needs were divided into various sets of measures:

» **INTRUSION DETECTION/ACCESS CONTROL** measures: monitoring for intruders during closing hours and immediate alerting to the presence of unauthorized individuals, as well as restricting access to certain areas not open to the public.

» **CCTV** measures: providing a centralized view of all security cameras deployed to cover each point of interest, as well as counting people in certain predetermined areas, and analysing suspicious behaviour.

» **FIRE PROTECTION** measures: picking up fires at an early stage and detecting smoke in the areas of interest. » **SUPERVISION** measures: checking the integrated operation of systems at all times.

The brief was to secure a site of the utmost artistic and cultural significance, wherever possible without interfering with the monuments' harmony, elegance and uniformity of style. The placement of the security devices was determined taking into account the need to keep them hidden from view and the brief's demand for complete and continuous supervision of movements in the area.

EL.MO.: an effective response to every need

In terms of systems, the solution adopted included the use of equipment that would blend in with its surroundings as much as possible, hence neutral in colour and extraordinarily compact in size, in order not to undermine the order and artistic purity of the location.

The comprehensive GLOBALPRO supervision software was used for centralized control of the intrusion detection, fire protection, CCTV and access control systems, enabling 24hr monitoring of the status of EL.MO. security systems, both locally and remotely, in order to view the information collected by the devices quickly and effectively, structured based on customizable logic and graphics. In addition, the software's flexibility means it can be reconfigured at any time to include additional control units or accommodate new operating requirements.

MIRASYS software is used to manage the video surveillance system. This software allows operators to manage and check recordings, to run video analysis for a more in-depth look at movements, and provides facial recognition, all of which is supervised in real time by the police.

SOLUTION

A culture of security: an OPA prerogative

OPA have always been known for their painstaking devotion in the exemplary conservation of Pisa's architectural complex, so it was only natural that they should be proactive in seeking a reliable partner capable of meeting the architectural site's care and protection needs.

Maintenance and attentive management of the security system are key if the whole network of equipment is to operate correctly: Opera Primaziale Pisana work tirelessly and with the utmost professionalism every day to ensure the total conservation of the city's exceptional artistic and cultural site, which draws tourists and experts from every corner of the globe on a daily basis.

ADVANTAGES



TIRANA INTERNATIONAL AIRPORT

Tirana, Albania

DESCRIPTION

Secure travelling: Tirana International Airport

Tirana Mother Teresa International Airport, also known as Rinas Airport from the name of its location, is the only international airport in Albania. Located nearby the Tirana capital, it manages the entire air traffic of the country, and it offers international connections mainly in Europe, the most frequent routes are to Milan, Rome, London and Istanbul.

From 2019, proving significant growth, the airport provides services to more than 3.3 million passengers annually and is now a modern gateway to the country, confirming itself as the eighth busiest airport in the Balkans.

NEED

Promptness of verification and intervention

As all airports, also the Rinas hub has significant security systems for the protection of passengers, goods and materials in transit, as well as securing all officers and service operators. EL.MO. has intervened on the buildings complex by integrating an existing security system, in order to answer the needs that emerged from the growth in recorded traffic and to increase the safety of personnel: promptly notify to all staff members any alarm/risk situation, including the most extreme areas of the compound which covers considerable distances, thus facilitating the deployment of verification and protection services.

SOLUTION

Power and flexibility

We implemented the system through ETR panels, powerful intrusion detection control units able to adapt their characteristics to any development of the building-system, even complex multi-system applications. Each control panel has three independent RS485 serial lines, which have been wired to reach the crucial and sensitive centres located at the ends of the system: terminal and cargo areas, VIP zone and surveillance center. Concentrators and repeaters have extended the range of the serial lines up to 3000 meters each (natively 1 km of range), on which LEDA485VOX sirens and panic buttons have been connected, then integrated into the existing system. The sirens, which combines voice functionality with LEDs lights, can emit pre-recorded alarm voice announcements: different voice messages have been created to signal different alarm areas, terminal area or CCTV. The purpose was to increase the alarm signalling and improve patrolling activities, boosting the rapidity and the compound's protection level overall.

The panic buttons and sirens identify the specific area of the event, while the ETR control panels allow the preservation of events in the control panel's history log, facilitating verification and safety activities.

ADVANTAGES

The benefits: worry-free travel

The great distances and the complexity of the already existing system have not compromised the commissioning of the EL.MO. solution, which has brilliantly answered to the needs of promptness and assistance to airport protection activities: despite the massive traffic that continues to register, the Tirana airport can count on an additional level of verification and security to safeguard passengers, staff, and all of the hub's services.



RETE FERROVIARIA ITALIANA (Italian Railway Network)

National territory

DESCRIPTION

RFI: free movement of persons and goods

The Ferrovie dello Stato Group is one of the largest industrial companies in Italy, with a long history of serving commuters and passengers on high-speed trains under the banner of sustainability and integrated mobility.

NEED

Protecting passengers and railway sites: the needs

In order to ensure that railway lines are properly protected, there are certain difficulties, such as the presence of high-voltage current transmission elements that generate a lot of electromagnetic interference, as well as the vibrations generated by passing trains. Ferrovie dello Stato turned to EL.MO. for the installation of advanced security devices (video-surveillance, access control, fire-fighting, anti-intrusion) and their centralised management, suitable to be installed in locations with critical environmental conditions. The objective was to protect hundreds of sites (stations, power distribution centres...) that could be easy targets for vandalism or terrorist attacks along the various routes.

SOLUTION

The technological solutions put forward

The ability to offer a full range of solutions has enabled EL.MO. to design and build video surveillance systems for access control and fire and intrusion detection that work in synergy in complex environmental conditions. Fixed and motorised high-resolution cameras were installed for video surveillance to ensure 24-hour monitoring, and are suitable for installation in environments with electromagnetic interference. Proximity card controllers and readers were installed in the area of access control, with the aim of preventing unauthorised access to sensitive areas (e.g. technical rooms). Furthermore, the creation and use of specific readers compatible with the RFI badge (single card for staff recognition and access to staff areas) were also developed. To protect the areas closed to the public, control units and sensors were installed, both in the anti-intrusion and fire-fighting sectors: detectors that communicate with the control unit report attempted intrusions into sensitive areas, while the fire-fighting sensors give early warning of the onset of a fire. The centralised control of all systems is provided by the GLOBALPRO supervision software, which enables the security staff to carry out 24-hour monitoring of the status of all systems, which work in direct synergy.



POSTE ITALIANE (ITALIAN POSTAL SERVICE)

National territory

DESCRIPTION

National mail has a name: Poste Italiane

Poste Italiane is Italy's largest infrastructure, active in the mail and logistics sector and in financial and insurance services. With 158 years of history, Poste Italiane is today the largest logistics company in Italy and a leader in the financial, insurance and payment services sectors. It is an integral part of the economic, social and productive fabric of the country and represents a unique reality in Italy in terms of size, recognition, capillarity and customer trust. For years, it has been working with EL.MO. Spa, which guarantees the high level of protection and security that is essential for a company of this size.

NEED

Safety culture in all its forms

Poste Italiane has expressed the need to comprehensively protect its many branches in order to act in the service of the safekeeping and confidentiality of the personal mailing of each of its customers. The needs were twofold: protection of the premises, employees and customers themselves from vandalism, theft and robbery, reinforced by visual monitoring of the postal premises, and protection from fire risk.

SOLUTION

All-round integration with EL.MO.

As part of the anti-intrusion branch, the system installed is based on the use of TITANIA line control units which guarantee high performance and are able to control a large number of devices. The use of keypads from the METIS line allows control of the anti-intrusion system from strategic points with the convenience of not having to go to the control centre, as well as the combined use of volumetric sensors including DT4000, avoiding the danger of crawling and masking, to ensure correct detection of events. In addition, it was decided to apply selective microphones in particular areas to detect even the slightest vibrations, in order to pick up any abnormal or unexpected movements. Furthermore, the use of fog systems from the NEBULA series was the ideal solution as a theft deterrent: when certain conditions occur, the device is activated by exhaling a dense vapour that forms, in just a few seconds, a thick blanket of fog which makes it impossible to see and orientate, resulting in the intruders having to abandon their intrusion attempt. To reinforce the entire anti-intrusion sector, it was decided to make use of an extensive video surveillance system consisting of PRO line cameras and video recorders, which ensure visual control of sensitive areas. Finally, a system for detecting dangers arising from fire risk situations was also provided, managed by a control unit from the Tacòra line and equipped with a wide range of devices including sensors, buttons and sirens for sound signals.



SPORTS FACILITIES

KIOENE ARENA

Padua, Italy

DESCRIPTION

Kioene Arena: a jewel of architecture and technology

The San Lazzaro indoor sports arena, which since 2015 has been known as the Kioene Arena, is the most important sports arena in the city of Padua and one of the most important in the Veneto region. In addition to important music concerts and conventions, the structure also hosts the home matches of Padua's teams specialising in many disciplines, including those played by the first team of the famous Kioene Padova club, which is involved in the prestigious Superleague championship.

NEED

Protection needed for safe reopening

necessary to provide a system that could quickly and reliably measure the body temperature of those entering the facility, as well as properly manage the influx of people into the building. In addition, the need to restrict entry and make access dependent on the proven presence of a protective mask, in line with current anti-contagious regulations, was brought to light.

SOLUTION

The perfect solution comes from EL.MO.

In order to meet the above verification requirements, EL.MO. proposed an integrated system that would ideally meet the needs.

The PROIPF01TC thermoscanners based on Artificial Intelligence of the e-Vision line were used, ensuring the detection of body temperature through the Face Detection function by simply focusing on the person's face: if all the parameters are acceptable, i.e. if the temperature is within the norm and the presence of the mask worn correctly is detected, the barrier is raised automatically allowing the regular entry to the structure.

In order to allow easy detection even for people with reduced mobility or in wheelchairs, an alternative version of the face panel was installed: this is the PROIPF02TCL, a thermoscanner with an integrated device for detecting the temperature simply from the wrist.

In order to ensure that the panels are placed at eye level, in areas where there is no provision for displaying electronic equipment, support posts were installed along with an access control bar and a self-retaining base.

ADVANTAGES

The advantages of a state-of-the-art system keeping up with the

The benefits of an integrated EL.MO. system are measurable in terms of savings: thanks to the automations made possible by the panels, it is not necessary to provide for the presence of personnel in charge of temperature control and verification of the presence of protective masks, eliminating the danger of exposure to the risk of contagion. In addition, detection times are reduced to a minimum: the panels check that all parameters are within the norm in just a few moments.



BANKING SECTOR

BNL-BNP PARIBAS

Offices all over the country

DESCRIPTION

BNL-BNP Paribas, savings specialists

BNL-BNP Paribas Group, with over 100 years of history, is one of Italy's leading banking groups, with 2.7 million customers and 13 thousand employees. Since 2006, the Bank has been part of the BNP Paribas Group, one of the world leaders in banking and financial services.

The Group offers a wide range of solutions to meet the needs of entrepreneurs for business reorganisation, risk protection, planning for the business sale or transfer and asset management after the sale, always with a view to sustainability, valuing all forms of diversity, respecting the environment where they operate and supporting a more inclusive economy for all, mindful of the future and the new generations.

NEED

The bank's security system? It must be impregnable

Due to its nature as a place where money and valuables are stored and managed, the banking environment requires protection to ensure that sensitive areas such as the vaults used for storage, as well as the office area and adjacent areas of the building are unassailable.

An essential requirement is the immediacy of the response in the event of suspicious activity or unauthorised behaviour being detected, in order to foil it in time.

In addition, the banking system needs adequate widespread tools to centrally manage the entire system and to respond and act promptly in the event of a robbery, to ensure the safety of employees and to protect the safekeeping of valuable assets.

SOLUTION

EL.MO.: a tailor-made solution

In order to ensure the security of the banking areas from the danger of unwanted intrusions and suspicious movements within the areas, it was decided to structure the anti-intrusion system using the power of the TITANIA series control units, which guarantee a very wide management coverage and ensure perfect adaptability to the continuous evolution of the building-system and future expansions. In addition, thanks to the large number of devices in the field connected to the control centre, it is possible to fully control a very large area, through a 'trap' detection system structured in a way that covers all potentially exposed areas and obligatory passages.

The most sensitive areas are covered by NEBULA, the fog system that saturates the rooms in just a few seconds by emitting a high-density chemical compound in the air, which refracts light and prevents visibility even from a few centimetres away. The result is that thieves are unable to find objects, open safes or armoured cabinets, protected by the latest generation of seismic detectors, leaving them with no option but to immediately escape.

For fire prevention and security in large applications such as banks, it was decided to use the powerful Tacòra series control units connected to a robust system complete with smoke detectors, optical-acoustic alarms and number plates, all certified and compliant with current fire regulations. The complete security system also integrates the video surveillance system, through the new range of e-Vision® brand cameras with IP technology able to ensure optimal images in any conditions with a resolution of up to 4K.

For the centralised management of all the systems installed, it was decided to use the GlobalPRO supervision software, which allows the status of the EL.MO. systems to be monitored 24 hours a day, both locally and remotely, and to integrate all the systems present on the LAN network at the same time.

BANK OF GHANA

Accra, Ghana

DESCRIPTION

The very meaning of security: Bank of Ghana

The Bank of Ghana is the State's central bank, as formulates and implements monetary policy to promote and maintain price and financial stability, and it represents an active force in Ghana's independence since its establishment in 1957. The Bank, while ensuring a sound payment system, is also active in developing worldwide financial inclusion policy, as well as issuing and redeeming proper currency notes and coins. For its new and modern five-storey building in the centre of Accra, the Bank of Ghana has relied on EL.MO. to provide high-end security systems, an effective and quality solution, as expected from an Italian manufacturer with over four decades of history and know-how. The site is adjacent to the Accra

NEED

The need

For this particular application EL.MO. has provided a tailored solution in order to grant the maximum and most reliable security as to expect in such environments: credit institutions are highly targeted locations, always under threats of attacks, vandalism, and robbery, as well as highly sensible places for personal data. For these reasons, the Bank has asked EL.MO. the provision of a well-structured security system based on intrusion detection, simple yet effective, able to stand any challenge, as well as to guarantee system modularity through a common logic of centralization, granting the uniformity of Security and protection standards also for future integration, also for remote sites and branches, that might be geographically distant but connected.

SOLUTION

EL.MO. offers a concrete response to the need

After careful evaluation EL.MO. delivered a simple yet effective solution based on the powerful TITANIAPLUS intrusion detection control panel, especially suited for banking, commercial or industrial installations. TRIAL485V, DTS3000L and TRES01485 sensors for wall or ceiling mount, protect the building both internally and externally, while NEBULA security fog system prevents criminals to find and thief precious objects as well as restrain them until law enforcements arrive to the scene. The steam, that saturates the environment in a few seconds, is totally harmless for humans and animals, as it only reduces visibility up to a few centimetres. The joint force of detectors and fog systems prevents any attempted theft and intrusion, which is also made unequivocally clear by the powerful LEDA485VOX external sound systems, which guarantee an immediate response in case of alarm.

The whole system is configured on ULTRABUS, EL.MO. advanced RS 485 serial line that grants full control and programming of devices via software, either locally or remotely. In addition to allowing up to 3 km wired range, ULTRABUS guarantees a considerable reduction in the number of field devices (concentrators and cabling) and costs, with the added bonus of advanced settings.

GLOBALPRO is the supervision software entrusted to monitor 24/7 (both locally and remotely) the intrusion detection system. It is designed to show the information in a simple and quick way, structured according to customizable logics and graphics. The software responds to various user's needs: installators, surveillance institutes, service centres, dealers and end-users. An extremely useful tool for the Bank of Ghana, in order to keep under control the security of the site.

The whole systems, thanks to the devices and advanced technologies employed, is certified IMQ EN50131-3 grade 3 environmental class II, EN50131-6, the minimum level of security expected in such institutions.

ADVANTAGES

What are the advantages?

Thanks to the security solution provided by EL.MO. the Bank of Ghana has been able to provide financial services without the dread of malicious attacks, protecting not only valuable items but also customers and employees. The level of protection has been satisfactory enough to lead to new integrations of EL.MO. solutions in other Bank of Ghana branches.