CCTV

For unrestricted viewing and more detailed images: **Bosch introduces complete High Definition surveillance portfolio**

Complete HD portfolio from ‘scene to screen’

- HD quality throughout the system, from camera lens to monitor
- Ease-of-use and interoperability
- Greater image detail for improved video analysis

With over 40 years experience in security systems, Bosch has an uncompromising vision to deliver high quality, easy-to-use, smart and interoperable security solutions. With the introduction of a complete portfolio of HD solutions Bosch addresses the growing demand for HD systems in the network (IP) security market and takes image quality to the next level. With more detailed images, operators can distinguish small features in a scene – ideal for facial recognition and similar applications.

“Now is the ideal time for introducing a complete HD solution for capturing, viewing, storing and managing HD video”, said Gert van Iperen, director of Bosch Sicherheitssysteme GmbH. “And all the products in our Bosch HD portfolio are specifically designed to deliver HD image quality. They feature advanced H.264 video compression, intuitive operator software, ONVIF conformance and a ‘vision-friendly’ 16:9 aspect ratio.”

The Bosch H.264 implementation offers the benefits of broadcast quality video with up to 50% less storage space compared to MPEG-4. Every detail in the image is captured without any compromise in frame rate – an important feature for object recognition. Our The scalable recording solutions from Bosch allow security systems to be easily expanded to support HD, keeping initial investment costs down and supporting further system expansion.

Leading the way in interoperability, all Bosch HD products are fully ONVIF conformant to ensure they integrate easily with third-party security solutions. Bosch’s intuitive software offerings allow security personnel to view and manage both HD and standard definition appliances seamlessly in the same system. This gives operators an easy to use system and allows integrators to choose the appropriate imaging solution for each location in an application.

Smart functionality through Bosch’s IVA (Intelligent Video Analysis) includes automatic alarming and search. Optimized for HD, IVA provides more info in the same field of view, resulting in better analytics and more accurate analysis.

CCTV

Bosch adds ONVIF compliant dome cameras to its IP Camera 200 Series

Discreet surveillance solution combining professional security features with affordability

- New discreet domes offering full compatibility with other ONVIF compliant products
- Easy installation and integration with compliant video products from different vendors
- IP camera system that brings professional class surveillance into the reach of small enterprises
- Captures days of video with removable micro SD/SDHC card inside the camera

Bosch Security Systems is extending its IP Camera 200 Series with ONVIF (Open Network Video Interface Forum) compliant compact dome cameras. Compliance with the new ONVIF standard means the series offers full compatibility with other ONVIF surveillance products, providing users with greater freedom in specifying a system and helping them save on future upgrades or migration costs.

The series, which now includes four models, is easy to install and operate. Each camera comes with a Secure Digital (SD) flash memory card for storing days of recorded video without a connected PC. No technical expertise is required to set-up the cameras, customers simply insert the SD card, plug in the camera, and viewing and recording starts immediately. A single cable connection provides Power-over-Ethernet and handles viewing and recorded video. No additional equipment is required.

This solution can also be easily extended by connecting a video recorder, such as the Bosch Divar 700 Series, or an iSCSI server. Moreover, efficient H.264 image compression reduces the requirements for storage by up to 30 percent compared with traditional surveillance technology – an important cost-saving feature.

The cameras' dedicated surveillance software enables remote PC viewing of multiple cameras. Video can be archived for later use or to quickly locate specific events using a smart search facility. In addition, the cameras feature built-in motion, tamper and audio detection that can be used to trigger an action, such as setting off an alarm or increasing recording quality to capture extra details in a scene. Two-way audio capability allows operators to communicate with visitors or employees via the camera.

These all all-in-one solutions combine affordability with professional class CCTV performance that has become the hallmark of Bosch. They are thus ideal for small offices, retail shops, convenience stores, and classrooms.

CCTV

New “one type fits all” MIC Series pan-tilt-zoom camera

MIC Series 500 Classic combines easy set-up and operation with superior performance and reliability

- Designed for discreet integration into urban environments
- Rugged, vandal-resistant construction exceeds the most rigorous quality and performance requirements
- Easy camera selection, installation and set-up

Intelligently designed for easy camera specification, installation and system set-up, Bosch Security Systems’ new MIC Series 500 Classic is a rugged, high speed pan-tilt-zoom camera suitable for large, outdoor multi-camera applications like city centers, housing estates and industrial zones.

This robust, reliable camera is the latest addition to Bosch’s field-proven MIC Series camera range and more than a decade of operational expertise gained in some of the world’s most challenging surveillance conditions has contributed to its development.

Intended principally for multiple camera installations, the MIC Series 500’s compact, unthreatening appearance enables it to be discreetly integrated into urban environments. With its industry leading IP68/NEMA4X environmental rating and robust, cast aluminum housing which makes it resistant to vandal and projectile attack, the MIC Series 500 is also well suited for use in challenging surveillance conditions that would defeat most typical CCTV cameras.

With full pan-tilt-zoom functionality, the MIC Series 500 rotates at speeds of up to 120 degrees per second to allow camera operators a full 360 degree view and the ability to respond quickly and effectively to incidents in the camera’s coverage area. It features a high resolution wide-dynamic range camera that copes easily with changing light conditions and offers a choice of 18x and 36x zoom options. Precision engineered resolver technology enables pinpoint camera accuracy and absolute positioning.

A new product design feature allows the MIC Series 500 to be mounted upright, inverted or canted on-site without specialist tools and without compromising the camera’s IP rating. This “one type fits all” approach to camera selection enables simple project planning and installation flexibility.

System set-up is easy using the MIC Series 500’s powerful universal camera set-up software (Cam-set) which gives access to the camera’s advanced functionality including diagnostic tools, advanced configuration options and protocol programming. New functionality that allows camera settings to be copied and uploaded to multiple MIC Series cameras in one easy step makes customization and configuration of large scale camera installations quick and easy. For single camera configuration the MIC Series 500 new user-friendly on-screen display gives easy access to all the settings required to configure, commission and operate the camera.

Tested to the limit in the most rigorous quality and performance tests, the MIC Series 500’s consistently excels at every stage.

The camera comes with a comprehensive three-year warranty and advanced replacement guarantee.

CCTV

Bosch offers customers significant savings on its AutoDome modular camera system

Advanced technology at an affordable price

Bosch's revolutionary, IP and analogue AutoDome modular camera system allows you to upgrade functionality, adapt to changing security needs and migrate to new technologies without ever having to power down your system. One product with a series of interchangeable modules allows you to adapt your security system whenever and however you like. It's a simple idea but advanced technology.

Now Bosch Security Systems is offering its customers significant savings, by substantially reducing the price of its AutoDome 300 and 500 Series pan-tilt-zoom cameras. The cost reduction also applies to all modules and mounting options.

CCTV

Bosch announces new release of its Video Management System

Single, dedicated solution to handle all video management needs

- Single Operator Client for all recording platforms
- Enables easier system expansion and/or migration to the latest strategic recording platforms while preserving your initial investment
- Supports H.264 Main Profile, the latest innovation in video compression technology

Bosch Security Systems announces a new release of its Video Management System (VMS) with extended functionality that's significantly more powerful and easier to use than previous releases.

The Bosch VMS 2.2 features a single operator client for all recording platforms. This enables owners of existing systems, for example, the Bosch NVR or Dibos platforms, to more easily expand their systems to include the latest strategic recording platforms like Bosch Video Recording Manager, Local Recording and Direct-to-iSCSI Recording. Bosch VMS 2.2 seamlessly integrates all recording platforms to provide operators with a single user interface. It also provides system owners with a dedicated and cost-effective solution to handle all their video management needs, while preserving the investment they initially made in the system.

Bosch VMS 2.2 provides full support for the new H.264 compression technology, integrated into the company's new and upcoming Video IP products. Without compromising image quality, H.264 reduces the size of recorded video by an estimated 30% compared with traditional MPEG-4 compression. This significantly reduces network load and storage requirements, an important benefit for users of large scale or demanding surveillance systems.

Moreover, the Archive Player for video exports that comes with Bosch VMS 2.2 is easy to set up and operate with its familiar VMS look & feel, and provides comprehensive language support for 23 languages, including Japanese.

The new Bosch VMS 2.2 has been designed primarily to enable owners of existing analog and digital system or those contemplating installing a completely new system to move in the direction of VRM with all its associated benefits, including redundancy, load balancing, automatic fail-safe capabilities and H.264 support.

Existing users of Bosch VMS who have a Bosch VMS Software Maintenance Agreement (SMA) can also upgrade to version 2.2 completely free of charge.

CCTV

Major upgrade of camera set-up software for MIC Series cameras

Cam-set version 4.0 provides quicker, easier camera set-up and operation

Bosch Security Systems' powerful universal camera set-up software (Cam-set) for use with its MIC Series of high-speed pan-tilt-zoom (PTZ) cameras has been upgraded. Cam-set version 4.0 is a significant advance on earlier camera set-up software, with a complete redesign to make configuration and operation of MIC Series cameras even easier.

Cam-set version 4.0 includes a Quick Start configuration wizard which enables users to get their cameras up-and-running in seconds. The new software allows connection to multiple IP addresses simultaneously. Commissioning engineers can send identical file settings to all their MIC Series cameras in one go, a major time saving benefit in large, multiple camera installations like town and city centres.

Also included is a cameo window for displaying video streams from selected Bosch IP video devices on the network. This enables MIC Series cameras to be controlled directly, simply by clicking on the cameo scene. This new video camera feature delivers a simple, mobile surveillance solution of MIC Series camera, VideoJet encoder with built in HDD plus laptop.

Cam-set version 4.0 supports Bosch's newly released MIC Series 500's dual protocol packs. Users of earlier Cam-set versions will find security settings have also been simplified by bringing together all required passwords into one single location.

CCTV

Bosch IR helps uncover creatures from The Lost Land of the Volcano

Gordon Buchanan, a wildlife cameraman who works for the BBC, claims Bosch's AEGIS UFLED infrared illuminators have revolutionised night-time filming.

Lost Land of the Volcano is an exciting, three-part BBC nature documentary series that follows a scientific expedition to the island of New Guinea. During filming an international team of scientists, cavers and wildlife filmmakers ventured deep into the heart of the remote tropical island to explore a giant extinct volcano - Mount Bosavi. The team lived deep in the rainforest where they searched for rare and endangered species.

Using Bosch's AEGIS illuminators, the team discovered a new species of mammal, which they named the Bosavi Cuscus, living deep in the volcano's crater where it has developed in isolation from its other relatives, in time becoming a sub species of the silky cuscus family. Captured on film as it left its daytime hideout and went in search of food at night, the Bosavi Cuscus – which looks like a small bear – is a marsupial that lives in trees, feeding on fruits and leaves.

Having struggled for more than a decade using what he describes as 'Frankenstein' like lighting contraptions ranging from rally car headlights to hunting spotlights, Gordon has welcomed the advances in infrared technology that enable him to capture broadcast quality night-time footage. "Every lighting method I have used up until recently has had some kind of drawback – carrying heavy acid batteries on my back, for only two hours of filming power being just one of them," he says. "Now the team is able to access more remote areas as transporting the light, low power consumption infrared units is no longer an issue. The battery packs last for several hours and are interchangeable with our cameras."

Field of view was another issue for Gordon. Historically illuminators have provided an uneven blanket of light causing 'hot spots' in the captured image but, as Gordon explains: "The AEGIS UFLED units give the most consistent covering of light of any I have trialled. The distance the infrared light travels is also second to none. Whenever I am planning a shoot, Bosch's IR units will be one of the first pieces of kit in my bag."

The newly discovered Bosavi Cuscus

CCTV

Bosch's MIC Series cameras weather the storms to keep an eye on wildlife

Bosch Security System's rugged, reliable MIC Series pan-tilt-zoom cameras have weathered harsh environmental conditions for nearly a decade, to give visitors to the Scottish Seabird Centre (SSC) an insight into the otherwise inaccessible world of Scotland's coastal wildlife.

Plymouth-based Outersight (UK) Ltd specialises in designing wildlife observation systems for remote and hazardous locations. Managing Director, Peter Barlow has been working with the SSC for more than 10 years and designed the centre's surveillance infrastructure.

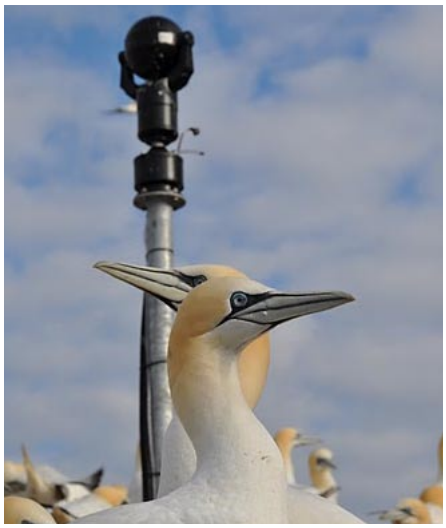
The SSC is one of the most popular visitor attractions in Scotland, winning many awards, and is a world leader in the use of remote cameras to observe wildlife which includes Sea Eagles, Gannets, Puffins and Grey Seals.

Visitors to the centre view footage on large screens and can actually move any of the 10 live cameras using a joystick which controls the pan and tilt of the camera and can be used to zoom in and out. This ensures they are always looking at something they find interesting. All focus and iris functions are carried out automatically by the MIC Series cameras which do an excellent job of optimising the picture. Web feeds are also available 24/7 via the SSC website.

The MIC Series cameras are renowned for their rugged design and durability, which is imperative for such remote locations, as Peter explains: "Many of the camera locations are not accessible during breeding season, or are on cliff faces that would require specialist climbing equipment to reach in the event of a camera failure. As the SSC is a charity, all expenditure has to be funded by donations or visitor ticket sales so minimising the cost of maintenance is essential."

The cameras are subjected to gusting winds in excess of 100mph, waves, sand and corrosion from sea spray but as Peter says, "the MIC Series cameras cope with all these tough environmental conditions impeccably".

Ensuring the birds are not disturbed by the cameras is of paramount importance: "The brushless design means there is very little noise from the camera as it moves, so birds are happy to nest nearby and visitors get as 'up close and personal' as possible."



The first MIC Series camera was installed in 2001 on the Isle of May, with video signals relayed via a fibre optic cable and analogue microwave link back to the SSC. Following the successful trial, cameras were upgraded on Bass Rock a year later and in 2003, another MIC camera was installed on the Scope Deck at SSC. Six more MIC Series 400 cameras were installed over the years, in various remote locations.

The compact design of the MIC Series cameras limits wind resistance, which in turn reduces vibration at high zoom ratios according to Peter: "The cameras smooth rounded design means it is very bird friendly and with a small amount of camouflage paint they blend well into their beautiful surroundings and are barely visible from a distance. We naturally want to cause as little disruption as possible."

MIC Series cameras feature full 360° continuous rotation and 320° tilt control to give SSC visitors a complete view. A toughened optically flat window and integrated wiper ensure the perfect image whatever the conditions. With their industry leading IP68 rating the MIC Series cameras are more than equipped to deal with the harsh Scottish coastal environment.

Communication Systems

The FIFA World Cup... What an experience!

What often gets overlooked is the business behind the FIFA organization. Congress Rental South Africa, a proud Bosch CRN member, was privileged to be chosen to supply all the simultaneous interpretation and conferencing equipment for all the meetings and ceremonies leading up to the 2010 FIFA World Cup.

These meetings included the 60th FIFA Congress opening ceremony and conference, as well as numerous smaller meetings for the various executive committees and member associations such as UEFA, AFC and CONCACAF.

Meetings began as far back as February, where Congress Rental South Africa provided interpretation and conferencing equipment (all Bosch) for the FIFA Medical conference in Sun City. This was a week long conference, and required interpretation of 4 languages for approximately 150 – 650 delegates, depending on the rooms used that day. The FIFA Medical conference was the start of what was to be a long list of FIFA related conferences.

As South Africa was counting down to the 11th of June, FIFA had a countdown of its own. For this prestigious association, the World Cup actually begins at least a week before the opening match. During this time the numerous committees meet to make final decisions with regards to the upcoming World Cup and those beyond, as well as reaching agreements on certain statutes and laws imposed by FIFA on its member associations. After these meetings are concluded, the member associations then meet to discuss issues within their designated geographical area. The referees also meet to help ensure that they are all on the same page, and to help ensure FIFA's mantra of Fair Play is upheld.

A final meeting, held the day before the opening ceremony of the 60th FIFA Congress, is where all the countries present why they should be chosen as the host country of the 2018 and 2022 FIFA World Cup.

For all these meetings Congress Rental South Africa supplied the Bosch simultaneous interpretation equipment and microphones. Because of the large number and sizes of conferences occurring simultaneously across a large geographical area, Congress Rental utilized the full range of Bosch conferencing equipment such as DCN Next Generation system with Concentus and Discussion delegate units, the DCN Wireless system and the digital infrared language distribution system Integrus. All functioned beautifully and the Bosch reputation for superb sound quality and operating systems was definitely upheld. Languages required varied considerably between meetings, however the most common were English, French, Spanish and German. The venues utilized for these preliminary meetings were Sandton Convention Centre, Gallagher Estate and Monte Casino.

All did not end with these meetings. Next was the 60th FIFA Congress, which brought together the 208 FIFA member countries across the globe. A number of VIPS attended this conference, such as President Zuma, former President Mbeki, President of FIFA Sepp Blatter, Pele, Sir Bobby Charlton, and Franz Beckenbaur.

The opening ceremony was held in Gallagher estate where achievements in the past year were toasted and honorary guests received Orders of Merit. Each of the 2000 delegates were able to listen to the proceedings in their chosen language through the use of the Integrus digital infrared receivers supplied by Congress Rental. The following day all the delegates attended the official FIFA Congress at Sandton Convention Centre, and once again Congress Rental South Africa provided all the interpretation and conferencing equipment including 1500 Integrus receivers, 7 interpretation booths and 30 Bosch DCN Next Generation delegate microphones.

For further information on what Congress Rental South Africa offers, visit the website on **www.congressrental.co.za**

Congratulations to Congress Rental South Africa on a job well done!

A brief summary of events supplied:

Venues used	Sun City, Sandton Convention Centre, Sandton Sun, Gallagher Estate, Queens High School, MonteCasino, Southern Sun Hotel Vanderbyl Park
No. of delegates	Approx. 6000
Languages Interpreted	Varying from 3 – 12 per room per day
Bosch Integrus Receivers	Over 2000 receivers were rotated among venues
Booths Setup	61

Communication Systems

Salvation Army International Headquarters selects Bosch wireless conference system

The International Headquarters of The Salvation Army uses its conference centre at Sunbury Court, located 20 miles west of London, England, for the election of its world leader. In preparation for the next election in January 2011, The Salvation Army has selected the Bosch Digital Congress Network (DCN) Wireless Discussion System for quality audio throughout the election process.

Among other meetings, the conference room hosts the High Council sessions at which the next General of The Salvation Army will be elected. When it was built in 1999, the conference room was equipped with a hard-wired system that could accommodate up to 50 units (100 delegates), but sound quality had always been problematic, as Mark Calleran, Chief Information Officer at The Salvation Army International Headquarters, explains: “The existing system was fairly elaborate, but despite continuous changes over the past six years, it never sounded like human speech, and with people whose first language is not always English it had been hard to hear. The sound quality was unacceptable and, being a hard-wired system, it was unexpandable and dictated the room layout, so gave us little flexibility.

“In 2009, when using the conferencing facilities at a West London hotel, we saw the Bosch wired DCN system in action. It worked perfectly and we were so impressed that as a result we approached installers to fit the system as part of a wider upgrade to Sunbury Court’s conferencing facilities. Moving from a hard-wired system to a wireless version not only gives us greater flexibility in terms of the room configuration, but the system is also fully expandable and transportable,” Mark says.

Though the system’s primary function is to improve audio quality at the conference centre, The Salvation Army also hosts conferences in other parts of the world, to which it will now be able to transport this system. “It really is a long-term investment to meet the needs of the organisation both now and for years to come,” Mark continues. “The Bosch flight cases offer robust storage to give complete peace of mind during transportation. “The first use of the system will be at our World Youth Convention held in Sweden in July, to be attended by 1,000 young people from the 121 countries that The Salvation Army works in. The convention will be conducted in English and translated for

delegates into four languages. Using an audio expander, we will also be offering a live streaming of the convention – video and audio – including the translations, so people can follow the convention online. This will be a good test of the ability of the system and not its normal use,” Mark says. The Sunbury Court system has a 140-person capacity, with 70 dual discussion units for delegates and five single units for the chairperson and top desk, but can be readily expanded with additional units as required. The sleek DCN-WDD-D Wireless Dual Discussion Units produce crystal-clear sound due to a very high signal-to-noise ratio and antenna diversity, guaranteeing maximum speech intelligibility at all times.

The system was installed by Northampton-based Fabtronic, and it was the first Bosch wireless installation, as Chris Hobbins of Fabtronic explains: “It was very easy to install with intuitive settings. We have been very impressed by the quality of the wireless system and would definitely recommend it for future projects.”

“We’re very pleased with the system so far,” adds Mark Calleran. “Where the previous system limited the number of users and the layout of the room, the wireless system offers us far greater freedom and portability. The fact that it can be readily transported means that we can bring the same quality of audio to Salvation Army conferences around the world,” he concludes.

Communications Systems

Castilla-La Mancha Vine and Wine Institute in Tomelloso

Industry:
Commercial

End User:
Castilla-La Mancha Vine and Wine Institue (IVICAM)
The institute was created in 1999 to improve vine cultivation in the region by enhancing the quality of both the grape and the wine produced. This Institute which is located in Tomelloso concentrates on three areas of activity: research, training and quality control. It also supports and coordinates the promotion of the Designation of Origin classifications that exist in Castilla- La Mancha.

Business Objective:
The Institute‘s large conference hall needed a reliable communications system that could support the provision of microphones, sound and lighting to each of the hall‘s 260 seats, as well as to the three seats on the chairman‘s table. It was also essential to install an advanced control system to manage the hall‘s operation.

Lastly, the discussion system needed to be reliable and robust, but it also had to be possible to extend it it in the future.

Solution:
A flush-mounted Bosch DCN-NG discussion system was installed in every Figueras seat in the hall so that all those present can take part in debates and discussions. This discussion system which is fully integrated into the seat comprises a short microphone, a loudspeaker and a push button to turn the microphone on and off. The three seats on the chairman‘s table also have a priority push button to control conference proceedings. In addition to the Bosch system, each seat is equipped with an adjustable table lamp.
The entire installation can be controlled from the chairman‘s table by means of three touch screens (one for each chairman) allowing them to interact with the Bosch control software. This means they can view and authorize microphone activation as well as view and control the flow of requests to speak for each of the 260 units in the seats and on the chairman‘s table. It also allows them to see current speakers and name them. All this information is displayed by means of a fully graphic synoptic view of the hall provided by the Bosch system software.

Outside view of the Institute and close-up of the railings

Result:
Due to its superior quality, this system fully satisfies the end user‘s requirements. Installation is straightforward thanks to its modular design and it also allows the system to be extended in the future very cost-effectively. A simultaneous interpretation system, electronic voting, attendance monitoring and closed circuit television can be installed without having to replace the current system.

Communications Systems

Press room at the Government of the Generalitat of Catalonia in Barcelona

Industry:
Government Buildings

End User:
Generalitat Catalonia
While the main façade of the Palau de la Generalitat is an important illustration of civil architecture from the Renaissance period in Catalonia, today the building functions as the seat of the Presidency and Government of Catalonia. Inside is where all the government activities and decision-making influencing the lives of Catalonians takes place, not to mention major political events, including audiences and receptions.

Business Objective:
It became important to establish a smooth flow of communication between members of the government and representatives from the media. Equipped with the latest Bosch multimedia technology for conducting press conferences, the new press room now enables journalists to carry out their job in the best way possible.

Solution:
The new press conference room in the Palau de la Generalitat measures 100 m² (1076 sq. ft.) and can accommodate up to 33 journalists in three rows of seats, plus ten additional posts for radio tasks. A highly intelligent sound system and digital simultaneous interpretation booths (Bosch DCN-IDESK-D Interpreter Desk) were installed, as well as an integrated DCNNG intelligent discussion system both on the chairman‘s desk (Bosch DCN CONFF Concentus Units), and the journalists‘ desks (Bosch DCN Flush-Mounted Microphone Connection Panes). This equipment automatically regulates the flow of speech, which, in turn, makes the press conferences run more intuitively, and creates a more pleasant environment, encouraging journalists from the various media to attend and participate.

Thanks to the XLR connectors installed in the Bosch DCN system‘s blank panels on the journalists‘ conferencing units, the institutional audio is received from the journalists and a wired translation is then sent through one of the channels.

Result:
The new press room is now fully up and running, and the installation of the new Bosch equipment has centralized all the equipment required to provide the best working conditions for all users.

View of the main façade of the Palau de la Generalitat

Communications Systems

Islazul Shopping and Entertainment Complex in Madrid

Industry:
Retail

End User:
Islazul Complex in Madrid
Islazul, which opened in April 2008, is located in the Pau de Carabanchel district and is one of Madrid‘s largest retail, entertainment and services complexes, covering an area of 256,000 m². Spread over three floors, it has a total of 180 stores. Its spacious and light facilities are a huge draw for the public, as the complex is lit up with natural light from the lightweight ETFE roof and it features environmentally-friendly bioclimatic architecture.

Business Objective:
In such a unique building that combines all the latest innovations in shopping mall architecture, one had to take care not to let the visible elements of the security systems detract from the esthetics of the surroundings. The biggest challenge was configuring a reliable CCTV system that would monitor sales floors and the parking lots, and a public address and voice evacuation system that would play ambient music as well as provide standard and emergency audible warnings.

Solution:
Cameras and domes from the Bosch AutoDome 300 Series and the latest-generation Bosch Divar recorders were chosen for the CCTV system as they met all the security requirements.
The challenge with the sound system was to combine performance and esthetics on the floors with large spaces and extremely high ceilings: the Bosch MCS 3500 wide-range ceiling loudspeakers and EVAC-compliant hemi-directional suspended loudspeaker turned out to be the perfect acoustic solution both in terms of sound quality and power and top notch design, making them easy to integrate into large-scale iconic buildings.

Result:
With the multifunctional Bosch public address system, which can be used for standard and evacuation announcements as well as ambient music, visitors not only enjoy a uniform, highquality sound, but the security of the people and facilities in the area is also guaranteed.
“The Ingevision group specializes in large-scale installations.
Our client is highly satisfied with Bosch solutions. For us, the Islazul shopping mall is a landmark project that has provided us with a way in to other similar projects. Our intention is to continue developing and maintaining our commitment to engineering and technological development. To achieve this objective, we will continue to count on the collaboration of a manufacturer of innovative technology such as Bosch.”

Islazul-Exterior view of the shopping mall

Communications Systems

New annex to the Vienna International Center relies on conferencing and security solutions from Bosch

The prestigious Vienna International Center (VIC) has chosen to rely on one supplier for its conferencing, evacuation and public address solutions in its new annex – Bosch Security Systems.

The VIC or „UNO City“ is an extra-territorial district of Vienna that constitutes the third most important office of the United Nations after New York and Geneva. With accommodation for around 5000 people, it is used by organizations such as UNIDO (United Nations Industrial Development Organization) and the IAEA (International Atomic Energy Agency).

The conferencing facilities of the Center have recently been extended with a new annex called VIC M. This extension comprises five self-contained conference rooms (including a press conference room) on the ground floor, plus large multi-room halls on floors one to three that are equipped with movable partitions, enabling them to be used as either individual, self-contained rooms or as multi-purpose rooms for large conferences.

With the VIC-M being such an important venue, the Center’s management wanted to make no compromises on its conferencing and security systems and that’s why they chose Bosch.

PKE Electronics AG (Bosch representative in Vienna) was therefore commissioned to install Bosch’s DCN Next Generation Conference and Simultaneous Interpretation System and Integrus Digital Infrared Language Distribution System. In total 744 DCN Next Generation Concentus units, 102 Interpreter desks and 1935 Integrus infrared receivers were installed in the various meeting rooms. All of the meeting rooms were also equipped with Bosch AutoDome cameras that automatically bring up the delegate who is speaking on the projector screen as well as to the monitors of the interpreters.

The Praesideo system was selected as the voice evacuation and public address system, operating with a sound system incorporating XLA Line Array Loudspeakers, both from Bosch. The system features one network controller, 25 Praesideo 500 W Power Amplifiers, 4 multi-channel interfaces and 24 basic amplifiers.

Since the installation, all rooms have been used almost daily by various organizations and the equipment has operated without any problems.

Communications Systems

Praesideo with a doubled heart

The redundant network controller solution of Praesideo Public Address and Emergency Sound System offers extra security for high risk applications like transport terminals and offshore sites.

Praesideo is designed to meet various emergency standards that are applicable all over the world. All units within the Praesideo network are supervised, from the microphone capsule of the call station to the loudspeakers. Furthermore the Praesideo system can be configured for redundant cabling using a ring cabling structure.

A nice additional feature to Praesideo redundancy is to have a Redundant Control Switch unit (RCS unit). This RSC unit switches the main network controller to a spare network controller in case the main Praesideo network controller fails.

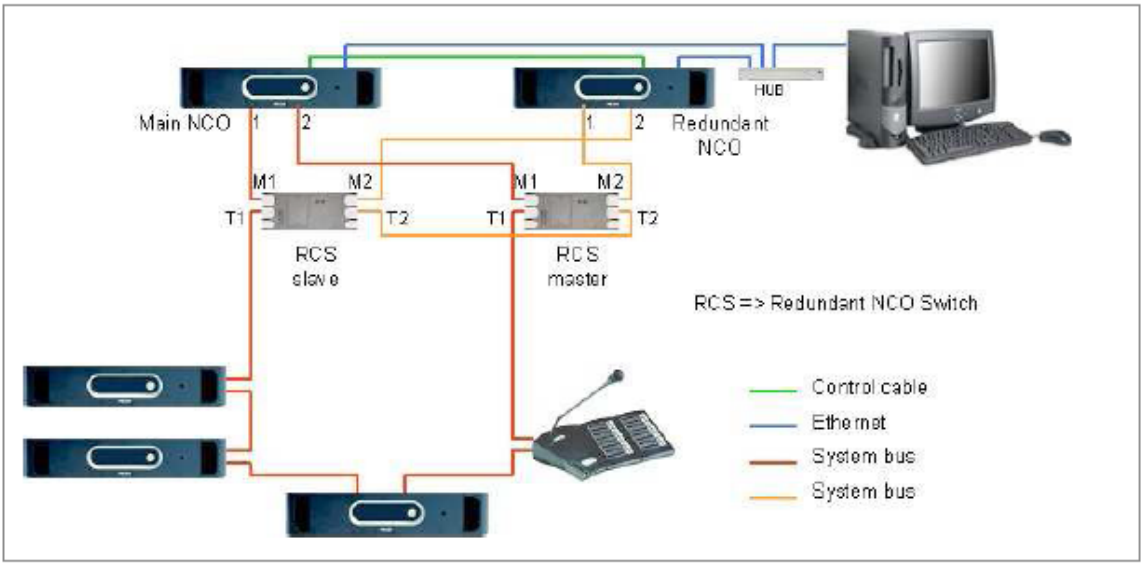
System setup
The Redundant Control Switch unit is based on the Praesideo network splitter (PRS-NSP) and consists of a master and slave unit. The main and spare network controllers are connected via the Praesideo system bus to the main input of the Redundant Control Switch units. The amplifiers, audio expanders, CobraNet interfaces and call stations are connected to the Praesideo system bus via the tapped output of the Redundant Control Switch units

The Redundant Control Switch units monitor the active main network controller. If a fault in the main network controller or a lost communication between the main network controller and Redundant Control Switch unit is detected, the redundant network controller will take over all functions of the main network controller immediately.

Application example
Cruise ships are built for pleasure voyages and become bigger and bigger, with more capacity for passengers. If an alarm situation arises, the first priority is to get everyone quickly in safety without panic.

A reliable emergency sound system is secured when a master and slave Praesideo system is placed at two locations on the ship, with a redundant network controller in the centre. In the event of one Praesideo system going down, the RCS unit will automatically switch to the second Praesideo system.

If you need more information about the Redundant Control Switch unit, contact your local National Sales Organization representative.



System bus cabling

Communications Systems

Hemi-directional Loudspeakers from Bosch installed at TÜDEMSAŞ railway machinery factory in Turkey

Full Audio over IP-based Public Address and emergency evacuation system designed and installed by Entegre Electronics

Established in 1939, TÜDEMSAŞ (Turkish Railway Machines Industry Inc.) repairs freight and passenger wagons and manufactures freight wagons and spare parts. Its factory in Sivas, Turkey has a total area of 287,467 m² with an additional indoor area of 96,000 m². The factory employs 1,500 people, making TÜDEMSAŞ one of the biggest industrial groups for the international railway market in the Balkans and the Middle East.

Between January and April 2010, solutions supplier and Bosch dealer Entegre Electronics from Istanbul designed and installed a public address and voice evacuation system at TÜDEMSAŞ, based around 50 Hemi-directional Loudspeakers from Bosch. The loudspeakers were installed in three buildings and cover around 50,000 m².

The public address and emergency evacuation system is controlled and managed from the factory's head office and security center. Business calls and emergency announcements can be made from both locations. The security center uses call stations with keypads. For the head office Entegre Electronics designed PC-based call stations with a graphical user interface that enable on-screen zone selection and both pre-recorded messages and live speech in the selected areas.

It's a full Audio over IP system. The three existing Praesideo systems installed in separate locations in the factory work together; both audio and contact information are distributed over the IP network. The factory's existing fiber-optic network configuration allowed optimal freedom in system design. It permitted the public address and voice evacuation equipment such as amplifiers, network controller, call stations and multi-channel interfaces to be located wherever required without having to install lots of additional cabling.

Powerful loudspeakers required

Bosch's Hemi-directional Loudspeaker has an innovative acoustic design that uses 14 specially positioned speaker drivers combined with advanced filtering to eliminate any flat spots in the frequency response. This gives consistent, high-quality sound reproduction over the whole coverage area and a broad frequency response over the audio range from around 60 Hz to over 17 kHz.

"The TÜDEMSAŞ factory is a very demanding environment," says Serhat Kacar, Project Manager, Entegre Electronics. "It's noisy, with average ambient noise levels around 85 dB, so Bosch's powerful Hemi-directional Loudspeakers are ideal. It's also a dirty, dusty and hot environment, so the ruggedness of these speakers is vital. The units are suspended from the 15-meter high ceilings with steel wires."

TÜDEMSAŞ management is very satisfied with the Bosch solution and is planning to install Bosch's Hemi-directional Loudspeakers in two other factories in 2011.

Access control system

Entegre Electronics also installed a state-of-the-art access control system and CCTV solution from Bosch at the TÜDEMSAŞ factory. The video surveillance system consists of 5 day/night AutoDome 300 IP cameras with 36X optic zoom, 3 NightSense FlexiDome IP cameras and 8 channel DiBos IP software. The FlexiDome cameras and one of the PTZ cameras are installed at the main entrance while the others are installed on a tower in the middle of the campus for viewing the whole plant.

Communications Systems

Bosch in the Netherlands organises local standards sessions

The National Sales Office in the Netherlands organised two afternoon sessions to inform their customers about changing standards and rules for voice evacuation systems in Europe and the Netherlands.

When implementing Voice Evacuation systems and Fire systems in the Netherlands, two local standards are of importance. The NEN2535 covers installation requirements for the design, the execution, the compatibility and the quality of a fire system where-as the NEN2575 is the local standard covering requirements for the design, the execution, the compatibility and the quality of a voice evacuation system.

The above mentioned installation and design standards specify when to use and how to implement fire and voice evacuation systems. For example the use of a silent or loud alarm evacuation is determined by floor space, number of building floors and visitor capacity of a building. But the standards also mention the product requirements for voice alarm and fire alarm systems. To make sure that the installation standards referred correctly to the new and obligatory European product standards EN54-16 (central equipment), EN54-23 (visual alarm devices) and EN54-24 (loudspeakers) the NEN2535 and NEN2575 (under construction) were revised quite thoroughly.

During the sessions an independent guest speaker, the director and owner of a well respected inspection company in the Netherlands, presented the major changes in the NEN2575 and NEN2535 standards. The experts of Bosch explained the consequences on a product and system level and demonstrated how the Bosch solutions fit the requirements of the revised standards, especially there were referring to the new EN54-16 product standard.

The two sessions were visited by 120 installers and consultants and turned out to be very much appreciated. The main message of the sessions, to show the market that ‘when choosing Bosch, you have the insurance to get products according the latest standards and guaranteed quality’ was communicated successfully.

Thanks to the Dutch NSO team.

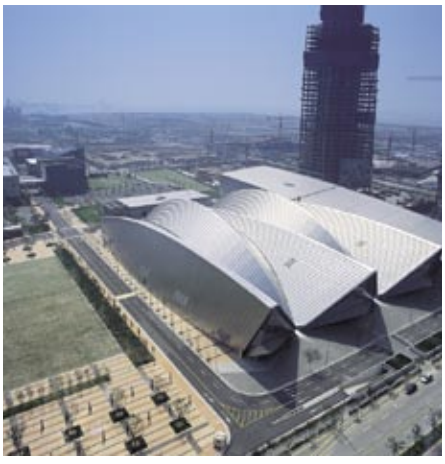
CCTV and Communications Systems

Bosch delivers total solutions in Korea

World's most advanced convention centre calls on Bosch Security Systems to answer all of its CCTV, PA and Conference Systems needs

When South Korea's third largest city, Incheon, decided to build a convention centre it also decided it should be the most inspiring, the most innovative, and the most technologically advanced convention centre anywhere in the world. And to achieve that ambition, the sponsors of the project knew that they would need to recruit and work exclusively with world-class leaders from a multitude of technological and artistic fields. That's why, for example, they commissioned the world-famous architect company Kohn Pederson Fox to create a truly breath-taking design – one that also complemented the local Korean landscape. The sponsors also insisted on using the most advanced conference facility equipment to provide delegates with equipment such as RFID card systems, WiFi Internet throughout all areas, and voice recognition cameras. Therefore, not surprisingly, the sponsors of the project chose Bosch Security Systems to provide eleven large-scale conference systems, an integrated facility-wide CCTV system and a centrally controlled public address, background music, and emergency evacuation system.

The result is a truly state-of-the-art, world-class convention centre: the Songdo ConvensiA. With a floor space of more than 54,000 square metres it incorporates two massive exhibition halls – each the size of a full-sized football pitch - hosting more than 500 booths. What's more, because the exhibition halls feature a single roof that is 32 metres high and with no supporting pillars, visitors enjoy a genuinely free-flowing atmosphere and spacious environment. In addition, the centre includes 23 conference rooms with a total capacity for 2,500 delegates and three premier ballrooms with a combined capacity for 2,000 people.



Everything about the Songdo ConvensiA is special. Including the exterior design, which purposely resembles the sight of upturned Korean fishing boats to express the notions of harvest

The way the centre was built with eco-friendly methods and how it conserved raw materials is equally impressive. During construction locally-sourced and recycled- materials were used to minimise the impact on the environment, and everything possible was done to minimise building waste. The relatively small amount of waste that was produced was almost totally recycled as well. Additional eco-friendly measures include 230 bicycle racks and shower facilities for employees who choose to commute on eco-friendly bicycles. The centre also offers preferred parking for fuel-efficient and carpool vehicles, the energy-saving lighting system indoors helps minimise the overall carbon footprint, and the self-sufficient outdoor landscape was specially designed to require no irrigation.

All this eco-friendly thinking has prompted the U.S. Green Building Council (USGBC) to award the convention centre a LEED (Leadership in Energy and Environmental Design) "Certified" rating, making it the first LEED-certified convention facility in the whole of Asia.

The Bosch surveillance system in full

In order to secure the property as well as to guarantee visitors' safety, the Songdo ConvensiA centre chose a Bosch Security System incorporating the future-proofed, IP-compatible AutoDome Modular Camera System. This innovative Pan-Tilt-Zoom camera features advanced intelligence capabilities to enable the capture of the most accurate images possible, as well as IP functionality for transmitting and storing those images in the most efficient way. In addition, as the AutoDome is modular and comes with a set of interchangeable parts, Songdo ConvensiA can easily adapt its video

surveillance resource to its changing needs or upgrade it as and when new video technology is developed.

To operate and control the video surveillance cameras, Songdo ConvensiA chose the Video Switcher – also from Bosch Security Systems. This combines both switching and computer technology to provide powerful performance and unique system features such as full matrix switching and programmable display of video from any camera on any monitor. These features can be controlled either manually or via independent automatic switching sequences

Bosch conference system
Songdo ConvensiA also requested Bosch Security Systems to equip eleven of its conference rooms with Bosch's DCN Next Generation Conference System and Integrus Infrared Language Distribution System. The total installation amounts to 120 Concentus units, 60 discussion units, and 400 Integrus receivers for global conference. These systems provide multi-lingual conference facilities with up to 32 channels for simultaneous interpreting, voting, identification, video display, as well as advanced software to ensure highly productive meetings.

Bosch PA system
As with all meeting centres, the Songdo ConvensiA needed a public address

system. But because this was Songdo, it wanted the world's first ever fully digital public address system: Praesideo, which also comes from Bosch Security Systems. Praesideo is not only a high-quality public announcement system but also a state-of-the-art evacuation warning system. The fully digital design provides crystal clear sound quality – comparable to CD, while the 20 power amplifiers and 4 call stations ensure efficient and flexible announcement, background music, and evacuation warnings for the entire site. Unlike traditional PA systems, the Praesideo from Bosch uses a network configuration rather than having all system elements connected to a central controller. This architecture gives real freedom in system design, since the 'daisy-chain' network topology means system elements can be connected (and added at a later date) to virtually any point.

A track record of success
In recent months the Songdo ConvensiA has successfully hosted a number of very large-scale events including the "Incheon International Logistics and Materials Handling Exhibition", the global conferences of the "World Water Forum", the "UN Environmental Forum", the "International Telecommunications Energy Conference", and most recently the "International Road & Traffic Expo" and "Head of Road Authorities" and "Road Engineering Association of Asia & Australia". This success is a powerful tribute to all the systems and facilities that are at work in the world's most advanced convention centre.

Fire

PC-based program creates a complete tender for Fire Alarm Systems

New Planning Software from Bosch for architects, engineers and consultants

- Generic terminology and intuitive navigation allow use with virtually no training
- Complete plausibility check on the fire alarm system ensures that every project detail is considered

Bosch Security Systems is introducing Windows-based Planning Software that supports the activities of architects, planners and specifiers at different stages of a fire alarm project. In the initial stage, it can make a first (approximate) price estimation of a new building based on the building type and size before full details of the building are in place. It can also make an estimate of system size, battery calculation and pricing based on the expected number of peripherals. And in the detailed planning phase, it enables the user to precisely design the fire alarm system including allocation of peripherals on different loops in accordance with the actual topology and type of application of the building.

With the new Planning Software by Bosch, engineers and consultants can create tenders through the use of a wizard covering all product categories of a fire alarm system in a very little time. Selection is simple, only the quantities of each product need to be added. All products are identified by their generic names known from the standards instead of manufacturerspecific names and abbreviations, allowing the user to create a tender without requiring detailed product knowledge. Additional relevant product information is automatically displayed when the cursor moves over a generic name.

Moreover, once the system specification has been created, a complete plausibility check can be made to ensure that no important aspects and accessories have been left out, thus guaranteeing that the bill of goods, which forms the basis of the price calculation, is complete.
The Planning Software provides a set of outputs in different formats and, moreover, provides important input for the effective installation of the fire alarm system. For Architects, Consultants, Specifiers (ACS) with an international focus or located in multi-lingual countries; the output can be created in various languages.

A separate monitor screen provides a full overview of the fire alarm system on various levels. This includes the appearance of the products in a preview together with the technically most relevant information for the products; details of the various loops, including current consumption, loop length, quantity of the various product types and the remaining capacity of each loop; plus details of the fire alarm system for each panel in a network, such as total number of detection points, and number of loops per panel.
In addition, for a structured overview, each panel and loop can be given an appropriate name.

As additional products may be requested, depending on countries, regions or even projects, the Planning Software provides a maximum flexibility by allowing the user to add his own choice of third party products. The user can also customize the tender templates provided by the tool, including automatic inclusion of the own company name and logo in all documents created by the tool.

Fire

Bosch extends its 420 Series of automatic fire detectors

Three new variants allow detection of even the smallest smoke particles

- New Dual Ray technology offers ultimate precision in smoke detection
- Achieves detection of TF1 fires with a dual-optical smoke sensor
- Series now has seven detector variants covering all possible environmental conditions and requirements

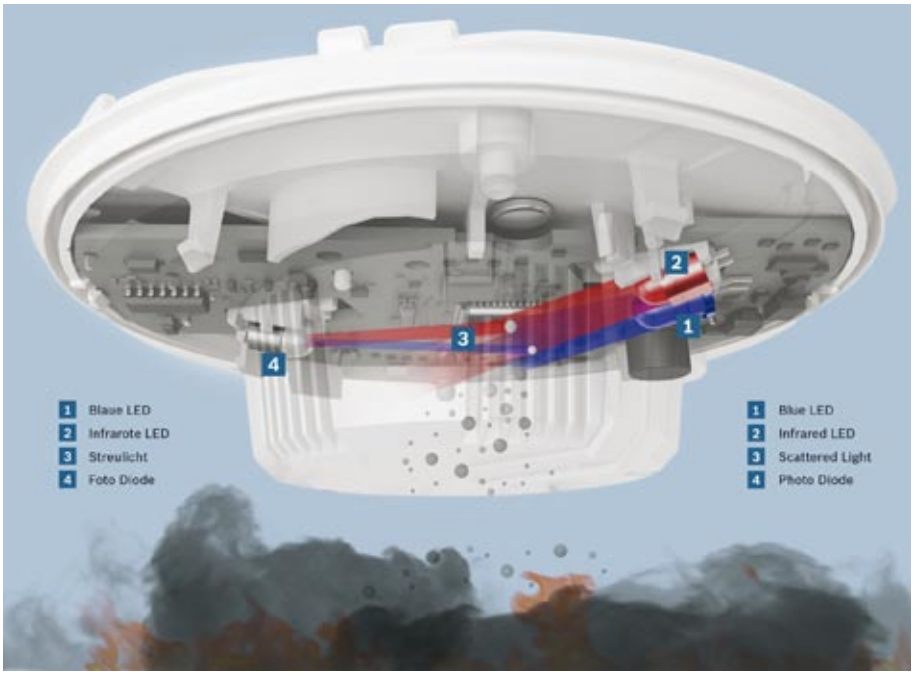
Bosch Security Systems is extending its 420 Series of automatic fire detectors with three new variants offering enhanced smoke detection.

The new variants feature Bosch's innovative Dual Ray technology. This makes use of a dual-optical sensor that relies on the scattering of light emitted by two LEDs with different wavelengths (one infrared and one blue light) to measure smoke density and particle size. This enables the detectors to provide even more reliable differentiation between smoke particles and other particles caused, for example, by disturbances such as dust and steam.

Three new variants embodying Bosch's Dual Ray technology are being added to the FAP 420 Series – the FAP-DO 420 (Dual-Optical Smoke Detector), the FAP-DOT 420 (Multisensor Detector Dual-Optical, Thermal) and the FAP-DOTC 420 (Multisensor Detector Dual-Optical, Thermal, Chemical). Their addition brings the total number in the series to seven to provide optimal choice of detector variants meeting all likely application requirements. Like the original four members of the series, the new variants feature Bosch's powerful ISP (Intelligent Signal Processing) technology, through which all sensor signals are pre-processed continually by dedicated internal evaluation electronics, analyzed and linked with each other via a built-in microprocessor. This ensures best-in-class differentiation between real fires and disturbances.

The new variants are capable of detecting test fires TF1 (open wood fires), i.e. very light smoke with small particles, and are the first detectors attested by VdS to TF1 and TF8, in addition to the required test fires of EN54-7. The dual-optical FAP-DO 420, thus offers a significant advantage over some competitor systems which require a multisensor detector (optical and thermal or a dual-optical and thermal sensors) to provide reliable detection of TF1 fire The dual-optical detector also allows the FAP-DO 420 to make full use of the surveillance area, providing a cost-effective solution.

With the new additions, the FAP 420 Series is capable of detecting all test fires (TF1 to 6 and TF8) and of covering all possible environmental conditions and requirements.



Fire

Security for the Serdika shopping centre located in Sofia, Bulgaria

Bosch supplies all security technology via local partners

- Redundant design of all critical components
- 3,900 fire detectors and 3,600 loudspeakers installed
- Integrated video, access control and intrusion detection systems

Bosch Security Systems has supplied all security technology for the Serdika Centre in Sofia. The systems were installed by local partner companies. The new complex became one of the largest shopping centre in Bulgaria when it opened in March 2010. Besides 51,000 square metres of retail space on three levels, the Serdika Centre also includes an eightstorey office complex with 30,000 square metres of office space, which should be completed at the end of the year, as well as 1,600 parking spaces.

panels from Bosch's 5000 Series receive signals from around 2,400 fire detectors; another panel and over 1,500 detectors are to be installed in the office complex. The redundantly designed panels not only monitor areas accessible to the public, but also critical areas like substations and ventilation shafts via special detectors. In addition, the panels control the smoke extraction and fire extinguishing systems in the entire building as well as escalators and lifts in the event of a fire alarm.

The public address and evacuation system Praesideo, which has a total of 39 digital audio channels, is closely connected to the fire detection system. Announcements and evacuation instructions are issued via 2,200 loudspeakers in the shopping centre and 1,400 in the office building. The system is set up redundantly and continually monitors amplifiers, microphones and loudspeakers as well as the corresponding lines to guarantee faultless operation at all times.

Bosch and its partners also implemented a video monitoring system, an intrusion detection system as well as a system for access control in the office building. The video monitoring system works with over 100 cameras and a total of 14 monitors for service personnel. It covers the entire premises, including the shopping centre, the office building and the parking spaces and ticket machines.

Certified by Dekra

"When planning this project, the security concept played a key role from the very start", explains Vassil Jilkov, Technical manager of Serdika Center Sofia. "We set great store by reliable and integrated systems and thus decided to obtain all security technology from one source at an early stage.

With Bosch and its local partners, we covered the entire range of security technology both in terms of products and expertise and can be certain that the systems will work together smoothly in an emergency. High level on safety is a standard for all ECE Shopping Centers." In order to document this security, project developer ECE had all fire protection and evacuation technology certified by Dekra.

Intrusion

New range of entry-level passive infrared motion detectors from Bosch

Combining economy with reliable operation in low-risk environments

- High catch performance and false alarm immunity thanks to sophisticated signal processing
- Suitable for low-risk applications such as private residences

Bosch Security Systems is introducing a range of passive infrared (PIR) motion detectors for low-risk environments (EN50131-2-2 grade 1 and grade 2 risk levels).The new ISN-AP1 and ISN-AP1-T PIR detectors deliver economical, reliable performance in applications with a low number of false-alarm sources. Both offer the same features with the exception that the ISN-AP1-T also has a cover tamper switch.

The detectors incorporate an embedded microcontroller with sophisticated signal processing, including Bosch's proprietary First Step Processing (FSP) that responds to human targets virtually instantly without producing false alarms from other sources. FSP, moreover, automatically adjusts the detector's sensitivity to suit critical parameters in its surroundings such as signal amplitudes and timing, eliminating the need for the installer to select the sensitivity level. PIR sensitivity is also automatically adjusted to identify human intruders at critical temperatures, accurately detecting human body heat and further reducing false alarms. In addition, a Fresnel lens produces sharply focused images throughout the field of view, further enhancing the detectors' superior response to intruders.

Mounting height can be adjusted either between 2.0 and 2.4 meters or between 2.4 and 2.8 meters and installation is easy thanks to the Bosch two-piece design. During installation and mounting it's only necessary to remove the cover. The circuit board and optics stay intact, increasing installation speed, ease, and effectiveness.

Intrusion

MAP Modular Alarm Platform supports integrated security solutions with management software systems

The latest MAP firmware offers an open and well documented IP interface. The documentation of this interface is freely available to partners and customers, enabling them to integrate the MAP into any third party management software.

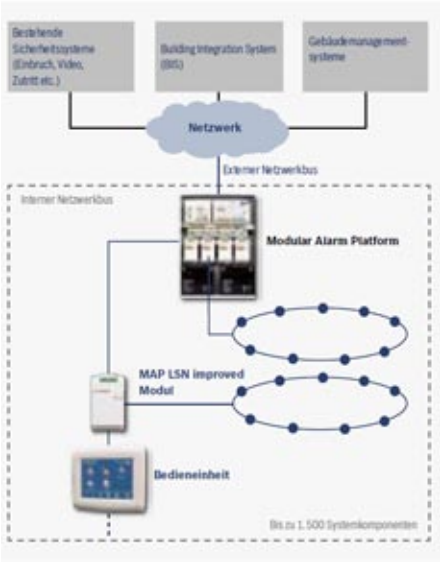
Further, the new MAP firmware also supports OPC server software, allowing partners and customers to integrate this modern intrusion alarm panel into Bosch‘s management software BIS.

As a result system integrators have the opportunity to offer complete Bosch solutions for integrated systems, from CCTV and access control to fire alarm and newest intrusion alarm technology. All of these individual components can be integrated into a centrally managed and integrated security solution.

The benefit for the end-customer is a complete and high quality solution for security and safety from Bosch Security Systems. Within this solution the BIS management system can be used to visualize events and to control all connected sub-systems.

Bosch has established a certified partner program which includes intensive trainings for high end systems like BIS and MAP to ensure highest quality for our customers - not only with respect to the product but also regarding installation, maintenance and service.

MAP is a modular and scalable system which grows with the needs of the customers. This alarm panel is based on Bosch‘s LSN field-bus technology. Direct LSN bus communication between the panel and the sensors enables visualization and control of each individual intrusion alarm sensor through the management software.



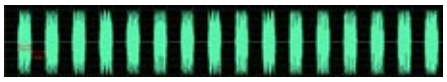
Intrusion

Bosch changes the rules for more reliable alarm-communication!

With the latest release of software for the D6600/D6100i Central Station receivers, Bosch has introduced a patent pending GSM/VoIP Compensation mode. You may be thinking, what is GSM/VoIP Compensation mode and what does it mean to me and my business?

First let's explain how things work and what is happening. Most alarm systems today use a PSTN (Public Switched Telephone Network) line to communicate with the central station receiver to relay the events. Many different protocols are used that include DTMF (Dual-tone multi-frequency), FSK (Frequency-shift keying), and pulse. The advent of digital transmission lines replacing traditional copper PSTN circuits has began to include using VoIP (Voice over IP) for the transmission of the audio. GSM also uses a compression algorythm like VoIP. The problem with VoIP is that it can compress (like an MP3) or alter (timing or amplitude) the audio signal which can affect the transmission of the event to the receiver. Let's show what a normal Contact ID event looks like and how VoIP can alter it.

Here is a normal Contact ID event. It consists of 16 DTMF tones that are 50ms each in length with 50ms of silence between them. The amount of tolerance allowed is +/- 10ms for either the tone or the silence. This is what that event looks like if it is not compressed or altered:



When VoIP or something alters the signal, this is what it can look like:

This is an actual recording of a panel over a GSM carrier. As can be seen there are timings as low as 19ms and as high as 84ms. An event that has been altered in this way will most likely not be processed in a standard receiver that receives Contact ID.

Now what did Bosch do? With the introduction of the GSM/VoIP Compensation mode, the D6600 and D6100i receivers will analyze the data and make an intelligent decision that the event is a valid Contact ID message or not, regardless of the timing for the event. This is also supported for 4-1 Express and 4-2 Express formats that are similar in construction to Contact ID.

How does this benefit you? If there are events that are not being received or many retries from the panel due to VoIP, this will eliminate most of those problems. The benefits that you will see would be:

- fewer calls to the receivers by the call getting processed the 1st time,
- less phone time due to less retries from the panel,
- greater confidence that the signal will be received correctly,
- happier customers or dealers.

Our analysis on a site that had documented VoIP problems showed:

- a 77% reduction in the number of Data Errors that many times were caused by VoIP,
- a 19% reduction in the number of NDRs (No Data Received) events that can also be caused by VoIP.

These exciting new features are available at no charge for any Bosch D6600 using D6641 line cards or D6100i receiver simply by downloading the latest D6200 software v1.35 from the local Bosch Security Systems website and updating your receiver. For any questions please contact your local Bosch representative.

Intrusion

How to choose the ideal motion detector for each application

Even for experienced installers it is not always easy to choose the ideal motion detector for each application, risk, environment and customer requirement. Bosch offers a complete range of high quality motion detectors which cover every application.

From PIR detectors to Tritech technology, from the Blue Line series to our high-end range, called Professional Series, you have many choices for each customer. But which detector is the right one for their needs?

The first question which needs to be answered is the required security level. Is there an official requirement for an EN50131 grade 3 motion detector? Even if it is not officially required, a professsional installer should recommend an EN50131 grade 3 tested motion detector if many people can enter the premises without control, such as in large retail stores or warehouses. Here, a grade 3 motion detector with anti-mask technology is strongly advisable. Also, for installations with high value and hence high risk merchandise or goods, such as leather clothing or goods, jewelry, cash, PC equipment and tobacco products, a grade 3 detector is recommended not only because of anti-mask technology, but also because of their higher catch performance over grade 2 detectors.

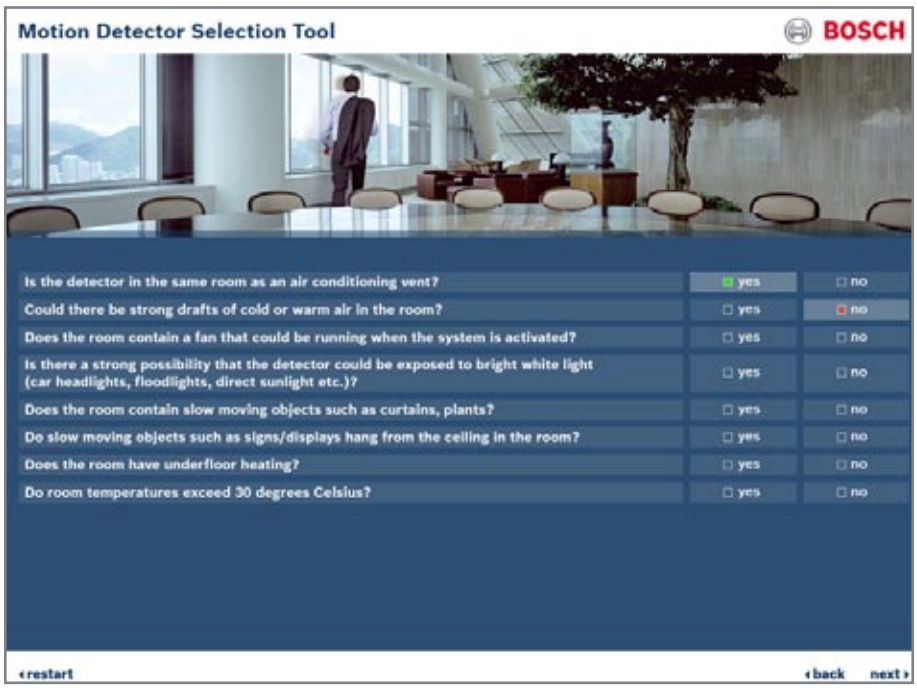
Having analyzed this, we need to decide if a PIR or a Dual Motion Detector, which is usually a combination of PIR and microwave technology, should be installed.

Therefore, it is important to know PIR detectors are challenged when the target is to reduce the false alarm risk to a minimum. As an experienced installer who understands the costs and annoyance of false alarms, I would always recommend a Dual detector. Nevertheless, in many applications, PIRs can do a great job, provided it is a high quality PIR from a manufacturer you can trust. In any case, it is advisable to install a dual motion detector if one of the following conditions exist:

- Is the detector in the same room as an air conditioning vent?
- Could there be strong drafts of cold or warm air in the room?
- Does the room contain a fan that could be running when the system is armed?
- Is it possible that the detector could be exposed to strong white light, e.g. car headlights, floodlights, direct sunlight, etc.?
- Does the room contain slow moving objects such as curtains or plants?
- Do slow moving objects such as signs or displays hang from the ceiling?
- Does the room have underfloor heating?
- Does room temperature exceed 30 degrees Celsius?

If one of these conditions exist, a Blue Line dual motion detector is now required. If more than one of the above conditions exist, it is advisable to install a Professional Series dual motion detector.

Next, we need to look at the required coverage area. Areas up to 11 x 11 meters can be covered by a Blue Line model. For larger areas up to 16 x 21 meters for PIR or 18 x 25 m for dual detectors, you need to choose a Professional Series model. For areas larger than this, consider special long-



range motion detectors to protect long and narrow corridors.
We can recommend one of our ceiling mount detectors for special room conditions, including:

- Large halls where detectors cannot be mounted on a wall
- Large offices with cubicals where wall mount detectors are not possible
- Small convenience stores with many shelves, where the field of view is better from a vertical perspective than horizontal.

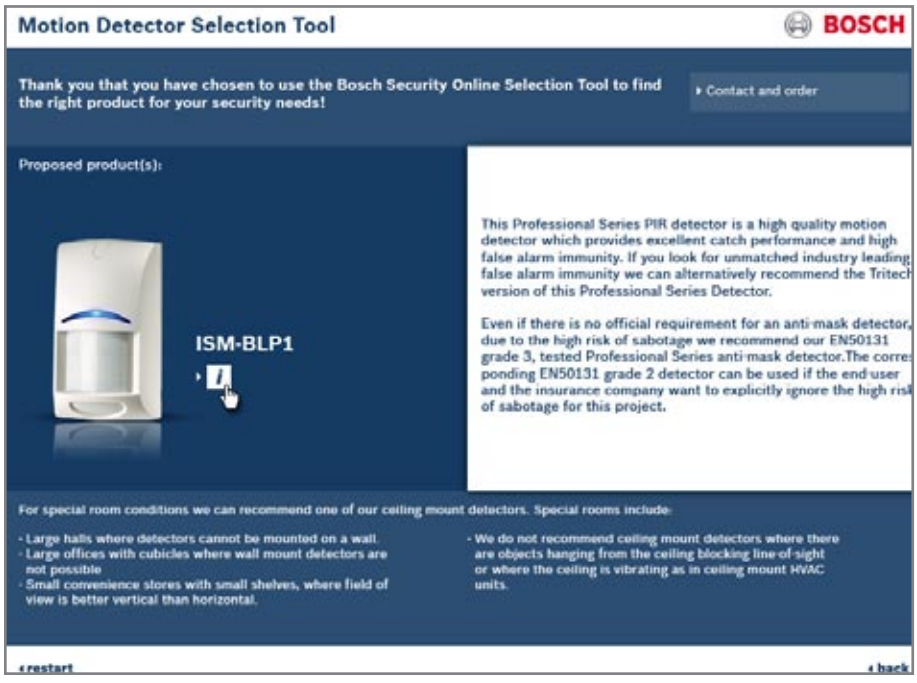
We do not recommend ceiling mount detectors when there are objects hanging from the ceiling blocking the field of view or when the ceiling vibrates, such as when a ceiling mount HVAC unit is installed.

Last, but not least, we need to determine if there might be small animals or pets moving in the protected area while the alarm system is armed.

Experienced installers know that birds, mice or spiders can be present or get trapped inside a warehouse or large retail store. With conventional detectors, these animals and insects often set off false alarms, which are expensive and frustrating. This is of course not only valid for warehouses and retail stores but also in other commercial properties. Pets should also be considered as a potential issue in private homes. Even if the homeowner does not own a pet now, there is the possibility they may have one in the future. Here, the possibility to activate and deactivate the small animal immunity in the Professional Series motion detectors can be a great benefit.

There are many aspects to consider when choosing the ideal motion detector for each customer, and you need some experience to decide correctly.
To support our partners, Bosch has developed an interactive motion detector selection tool for installers and commercial end users.
The tool asks several questions to determine the criteria which are important for selecting the right detector for the application.

Then, the tool proposes the ideal motion detector according to the specific requirements of the applicaton and provides additional professional advice from Bosch Security Systems, if required. In addition to the tool, our intrusion alarm specialists are more than happy to support you, if you need further assistance.



Access and Systems

Bosch doubles capacity of its Access Easy Control System

Firmware upgrade allows up to 32 readers per controller

- Easy expansion without additional investments
- Seamless integration of access control and video surveillance
- Supports latest Video SDK and hybrid recorders

Bosch Security Systems doubles the capacity of the Access Easy Control System, its access control solution for small and medium sized applications. Through a firmware upgrade, the AEC panel now allows a second BUS connection adding 16 readers to the same controller, enabling each controller to support a total of 32 readers. It can now also monitor up to 32 supervised auxiliary inputs and control a maximum of 32 auxiliary relay outputs, doubling these figures as well.

The new firmware v2.1.6.1 also makes it easier to seamlessly integrate access control and video surveillance for an additional layer of security. For this, the Access Easy Control System supports a maximum of 128 video channels with up to 3 channels per door. The new firmware now adds compatibility to the latest Bosch Video SDK that includes connections to Bosch 700 series DVR. This DVR is the first Bosch embedded digital recorder to offer hybrid functionality with support for 8 or 16 analogue cameras and up to 8 H.264 IP video streams. With up to 4 TB internal storage and optional RAID-4 protection, this 700 series was designed for applications that demand the highest levels of data availability.

The new firmware allows customers to extend the area managed by the AEC without the need to buy additional controllers, lowering overall cost without sacrificing the system´s ease of use. Being entirely web-based, the AEC can be managed locally or remotely using a standard web browser.

Care Solutions

New Carephone 62 – Care Solutions becomes future-proof

The product group Care Solutions celebrated the launch of the new Carephone 62 on 12th August 2010 in the headquarter in La-Chaux-de-Fonds, Switzerland. Together with the ST management board, represented by Gert van Iperen and Peter Ribinski as well as the CRS representatives of the NSOs Germany, the Netherlands, Belgium, Switzerland and the Export division, the product group was proud to celebrate its latest innovation.

The new Carpehone 62, which was launched in due time end of June, is characterised by its modular structure, making the device compatible with the analogue, the IP as well as the GSM network. Thus, logistics and warehousing costs are reduced substantially. Programming of the device can be done easily via a Micro-SD card, making the Carephone 62 a real Plug-and-Play solution. The modern design as well as the telecare capability of the device are further benefits of the Carephone 62, just to name a few.

After the presentation of the brand-new Care Solutions film Gert van Iperen and Manuel Paul, head of the product group Care Solutions, warmly welcomed the participants. Afterwards, each management team of the product group presented its challenges, its personal contribution to make Care Solutions future-proof as well as the fun parts during this large Carephone 62 project. The NSOs Germany and Netherlands, being the first countries where the new device is available, demonstrated their local product introduction strategies. The presentations were followed by life demonstrations of the Carephone 62 in combination with the new Social Alarm Management Software, LMS5 Professional.

At night, the group went to the harbour of Neuchatel, where they enjoyed a boat trip as well as a nice evening dinner on the famous Lake of Neuchatel.

Care Solutions

Dedication of first Bosch Full-IP Social Alarm Monitoring Center

On 16th June 2010 the first Bosch Full-IP Social Alarm Monitoring Center was dedicated. Care Solutions celebrated together with the German Red Cross (DRK) in Heidelberg the official handover of the Social Alarm Management System (LMS) 5 Professional to the customer. During the official event in the town hall of Heidelberg, Alexander Sacken, representative for Care Solutions, submitted symbolically a gift-wrapped manual of the new software to the mayor Dr. Eckart Würzner as president of the DRK chapter Rhein-Neckar / Heidelberg e.V. and CEO Thomas R. Locher. Within the framework of the press conference that took place afterwards both partners highlighted the performance and the innovative character of the new social alarm monitoring software.

One outstanding feature of the LMS5 Professional is the ability to receive emergency calls not only via the analogue but additionally via the IP network. As the number of IP connections in private households is constantly increasing, the Bosch social alarm monitoring software is future-proof. Integrated voice recording of the LMS5 Professional ensures that every telephone conversation can be recorded. Together with the initiated actions these records can be documented and archived. When needed, the complete history of a subscriber as well as the recorded telephone conversations are available by the click of a mouse. Furthermore, the LMS5 Professional is characterised by a redundancy concept which also includes the possibility of replication. Thus, the Bosch social alarm monitoring software meets completely the security requirements in a lifesaving area.

Care Solutions

New sensor portfolio: from social alarm to telecare

With the help of a social alarm system consisting of a Carephone and a Pendant Transmitter, elderly people can easily call for help in case of an emergency. Concerning the Pendant Transmitter people have the alternative to chose the model that suits their needs best: besides the classic Pendant Transmitters Tx and S37 Bosch Care Solutions also offers the Carewatch, an elegant wristwatch with an integrated alarm button. Furthermore, the Fall Detector not only detects falls automatically but is also characterised by a manual alarm button, thus representing another alternative to **actively** call for help.

In case of several environmental risks at home, a so-called **passive** alarm, further increases the safety - not only, but especially for the elderly living alone. In order to ensure these environmental risks, Bosch Care Solutions has extended its social alarm peripheral portfolio and now offers numerous detectors: the **Smoke Detector** secures the risk of a fire by sending an optical as well as an acoustical alarm to the monitoring centre in case of smoke detection. In rooms where the usage of a Smoke Detector is not possible, e.g. in the kitchen due to the development of steam, the **Temperature Detector** provides additional safety. The danger of gas leaks is reduced through the usage of **Gas Detectors**; Bosch Care Solutions offers three different models for various gas types: a methane, a propane / butane as well as a carbon-monoxide detector, thus providing a maximum of safety.

The **Flood Detector** ensures the risk of water damages as an alarm is automatically sent out to the monitoring centre in case a liquid of 1mm height is detected. Last but not least, the **Motion Detector** as well as the **Contact Detector** provide additional safety as they can be used to secure the home against unwanted visitors from outside. Plus, the Motion Detector can be used as external daily button, i.e. the activity monitor on the Carephone is automatically reset if the user moves.

With this extended peripheral portfolio Bosch Care Solutions has strengthened its position in the social alarm market and clearly demonstrates its competence also on the area of telecare.

Care Solutions

The Carephone 62 sets a benchmark in technology and design

- Compatible with analogue, IP and GSM telephony
- Fast and easy programming via SD card

The new Carephone 62 from Bosch is characterised by its technical versatility and its flexibility. The device can be used in combination with the analogue telephone network as well as with broadband connections (Voice over IP). In addition, a modem ensures the compatibility with the GSM network. Consequently, one device fits three different connection types. Thus, a smooth installation of the Carephone 62 is guaranteed, independent of the existing telephone connection at the end-user's home. Furthermore, the social alarm service provider benefits from reduced warehouse costs, as one device can be used with three different transmission networks.

Fast and easy programming of the device can be done via a Secure Digital Memory Card (SD Card). This „plug and play" solution reduces the risk of programming errors, thus saving time and money for the social alarm service provider. Furthermore, the SD card permits a detailed analysis of the stored event data. Besides the SD card, the Carephone 62 can also be programmed remotely by the social alarm monitoring center or locally, using either the integrated keyboard or programming software running on a laptop.

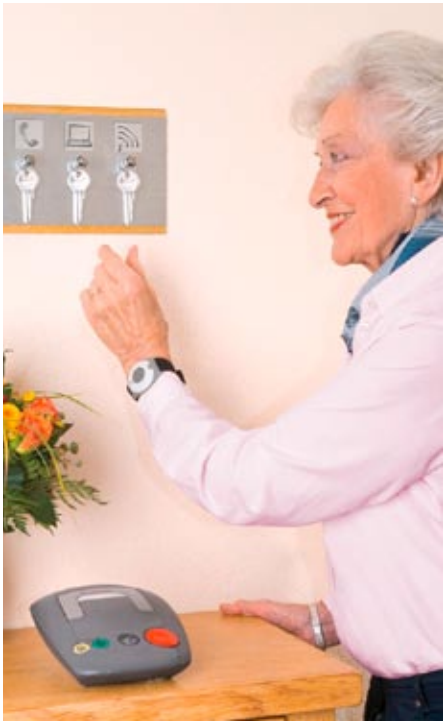
The device features a modern and elegant design. The top cover can be customized according to the customer needs. By replacing the top cover, the social alarm service provider easily benefits from cost savings whereas the end-user appreciates the new look of the device.

The Carephone 62 conforms to protection class IP32. This reduces significantly the risk of damage or malfunctions caused by liquid spillages, dust or dirt. The device is designed to be either table or wall mounted and thus can be installed according to the requirements of the end-user. The new device is characterized by its voice-guided operation, enabling end-users to be addressed in their native language. Programming of the

device by the social alarm service provider is simplified, too. Languages which have not been pre-defined can be added via the SD card; alternatively it is also possible to deactivate the voice function.

The Carephone 62 can be used not only with the Tx Pendant Transmitter but also with the Carewatch. Moreover, the Fall Detector with the integrated manual alarm function is also compatible with the device. Thus, the end-user can choose the Pendant Transmitter according to his individual needs.

A large selection of additional wireless peripherals, like e.g. a Smoke Detector, Gas Detector or Flood Detector, can be connected with the Carephone 62 and guarantees a maximum of safety for the end-user and the relatives. Hence, the device presents the basis of an Ambient Assisted Living (AAL) system which can be adapted to the end-user's specific safety requirements.



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