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## Case studies



**Providing the right solution for you**

**Honeywell**

**Honeywell**

# Contents

Honeywell Security Group successfully works with many companies to provide innovative security solutions that respond to unique and varying requirements. Whether you're in the commercial sector, retail, finance and banking, airports, etc., Honeywell can help you to better address your security concerns and find the right solution to suit your needs. In this brochure, we present a number of case studies to show how our solutions are benefiting many companies around the world, and to show why companies choose the trusted Honeywell brand.

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■ Cameras and Domes ■ DVRs and Boxed NVRs ■ Systems ■ Intelligent Analytics Solutions



Founded in 1911, StandardAero is one of the world's largest independent aviation service businesses. StandardAero specializes in maintenance, repair and overhaul for commercial, air transport, military, business and general aviation, industrial aircraft and helicopters. Its 4,000 employees located in 26 facilities in the U.S., Canada, Europe, Asia and Australia serve customers from more than 80 different countries.

## Customer Needs

- To keep the facility secure while simultaneously ensuring that visiting pilots, directors of maintenance and owners had unrestricted access to their planes.
- Security solutions had to be as effective as a physical escort and invisible to customers.
- To develop a solution to balance regulatory requirements with customers' needs.

*"We've investigated other options but nothing seems quite as effective."*

*Melissa Maddox, vice president, legal risk management for StandardAero*

## Honeywell Solution

The first time a customer visits the StandardAero facility in Augusta, Georgia, he is given a picture ID badge that is programmed in the Pro-Watch® security management system to grant access in authorized areas during his visit. As the visitor moves throughout the hangars, RFID sensors recognise the presence of a badge and activate the Honeywell cameras installed in each zone, and the security operator is able to track him through the facility on monitors integrated into Honeywell's MAXPRO® VMS video management system.



## The Benefits

- Rather than feeling as if they're being followed and watched all the time, the Honeywell system gives StandardAero customers a greater sense of personal freedom and independence when they're in the facility and helps them feel their aircraft is more secure, which benefits StandardAero.
- While it remains unobtrusive for StandardAero's customers, the system has gotten the attention of the Department of Homeland Security. That agency is interested in implementing best practices for security programs at airports and aviation repair.



## Airports

## Products



MAXPRO® VMS Video Management System



Pro-Watch® Corporate Edition



HD4 Series Indoor/Outdoor IP Mini Domes



ACUIX™ PTZ Dome Cameras

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Crédit Agricole Finistère based in Quimper is one of 39 regional banks forming part of the French banking group Crédit Agricole. Its activities include business, commercial and private banking. The Finistère head office has chosen video surveillance, access control and intruder, and fire detection solutions from Honeywell. The bank's branches are equipped with Honeywell video surveillance solutions.

## Customer Needs

- Crédit Agricole Finistère head office is around 20000 m2 spread over six floors, and several buildings (main building, call centre, technical building and social building). Its banking network consists of approximately 132 agencies, 328 cashpoints and 236 "Point Vert" facilities (basic banking services offered by a local retailer).
- Risk prevention is a major concern. In the branches the risks are mainly associated with malicious intent and the protection of individuals. At head office main concerns are about securing the buildings and technical installations, the confidentiality of archives and the protection of individuals.



*"Honeywell is a versatile manufacturer offering solutions which interface and integrate with each other, whether linked to video, access control or intruder detection."*

*Mr Queleenec, designer and head of CIDEL Quimper*

## Honeywell Solution

- Crédit Agricole's head office was equipped with "ESSER by Honeywell" fire security systems, and by Honeywell access control solutions, video surveillance and intruder detection solution. All security management is handled centrally at head office and the viewing of video images is enabled via remote monitoring through a partner.

*"I am satisfied with the Honeywell security solution and I recommend it. I found no issues as our requirements evolved. The Honeywell solution is upgradable and allowed most of our needs to be met."*

*"We have never had any problems associated with equipment limitations. Honeywell's open products were able to respond to all our needs thanks to their programmable functions."*

*Mr Lagadic, head of security, Crédit Agricole Finistère*

## The Benefits

### A security system that is 'open', integrated, flexible and upgradable

The security system needed to integrate access control, intruder detection and Central Technical Management, particularly through the feedback of technical information and the management of access points. The HID badge reader system is a real plus for time management.

The head office is equipped with the PRO220 controller, around 80 OmniProx™ readers for around 1000 badge users, 75 HD31PX indoor/outdoor IP cameras and several Fusion IV NVRs. The video protection and access control systems interface with the intruder detection system thanks to the Honeywell Galaxy® Dimension control panel managing more than 400 intruder detection points as well as the Honeywell fire detection system. At the branches, the Honeywell video solutions installed comprises around 40 Fusion hybrid recorders (IP and analogue).

### A bespoke, user-friendly access control system

The Honeywell solution was programmed to manage controlled access to the back office for external staff with the use of the Galaxy TouchCenter touchscreen keypad. Doors can be controlled through a choice of modes: for example, free access during the day, or the use of a badge required to gain access to the back office.

### Strong local technical support and a close relationship with Honeywell

CIDEL's strong local presence, local distribution availability, and the expertise of its engineers, along with the relationship with Honeywell meant that any negotiations carried out were always made in close three-way collaboration.

### A reliable security system responding to the requirements of the insurers, the surveillance company and the regulations in force

Crédit Agricole's insurers required an APSAD-certified installation, made possible by the Honeywell NF&A2P type 3-certified Galaxy Dimension. The installation also needed to conform with national video surveillance regulations (APSAD R82), as well as respond to the constraints imposed by the individual sites in line with each branch (e.g. recording).



## Finance

### Products



**Galaxy® Dimension WIN-PAK® with Galaxy Integration**



**PRO2200 Access controller**



**Badge readers and badges: OmniProx™ range**



**Fusion IV digital video recorder (16 and 32 track)**



**HD3 Series Indoor IP Mini Domes**

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QBE Insurance Group is Australia's largest international general insurance & reinsurance group, and one of the top 25 insurers and reinsurers worldwide. Outside London, QBE has underwriting centres located in Birmingham, Bristol, Chelmsford, Glasgow, Leeds, Manchester and Stafford.

### Customer Needs

- To upgrade the existing security equipment and to install an integrated access, video and intruder solution.
- Each QBE site would use the same video, access and intruder equipment with complete connectivity and integration so that teams could monitor each building remotely and obtain the necessary management information.

*"When I joined QBE part of my remit was to have a single integrated security solution across our various sites, the challenge for me was to do this cost effectively and to demonstrate a return on investment, but to also get the best security solution available for our budget. Honeywell and Direct Security made this possible and now we are reaping the rewards as a business. I trust Direct Security to recommend the right products for the job and for QBE. I have every confidence they will continue to do that. We see the Fusion DVR, WIN-PAK® system and Galaxy as setting the standard for the continued development of security & business continuity across QBE in the UK."*

*Mark Thomson, head of european security, QBE*

## Honeywell Solution

QBE had considered removing the existing Honeywell WIN-PAK® access control system which would have incurred a considerable cost to the business. However, Direct Security produced a solution that would allow the WIN-PAK system to continue to deliver considerable cost savings. With a more integrated system across all sites and better reporting, the expectation was to reduce the need for any additional security guards and to generate efficiencies by providing the staff with comprehensive training on an intuitive, easy to use system. Direct Security introduced an upgraded Honeywell WIN-PAK® system which would allow the three main QBE offices to be connected and managed together. The server for the new Honeywell WIN-PAK system is located at Leadenhall Street in Central London which enables central control and monitoring of all three sites. An upgrade of firmware at Leadenhall Street allowed the existing controllers to integrate with the new Honeywell WIN-PAK system. New door readers were installed in Chelmsford. "The upgrade gives additional confidence in the system," stated Paul Anderson, Direct Security. "The network connectivity enables QBE to monitor the systems from any site. We will soon be able to monitor the system remotely or run diagnostic tests or reports meaning that we can identify potential problems before they happen and administer the system remotely if required." The ongoing project will see the remaining six UK sites connected via the Honeywell WIN-PAK® system. The readers will change to I-class technology. Currently QBE uses standard proximity cards. The readers and smart cards installed can be programmed for multiple sites which mean that staff traveling between the company's UK sites require only one card to allow them access to all of the sites. The smart card is capable of storing and processing information and so it has multiple uses from cashless vending, personal information storage and control of access to restricted areas - keeping a record of accumulated points for discount purchases and verifying authenticity.

### The Benefits

The security operation now benefits from a combined systems approach with remote connectivity and integration across all of the UK offices. The systems can all be controlled from the security hub in London which allows the team to centrally monitor all CCTV and alarm events whilst being able to run consistent and holistic access control reports. Importantly, the system is highly scalable, allowing for seamless expansion and development in the future, in line with business requirements.



## Finance

### Products



WIN-PAK®  
with Galaxy  
Integration



16 Channel Fusion  
Digital  
Video Recorder

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SmartCity Malta is a self-sustained industry township for knowledge-based companies located in the Ricasoli Estate in Malta. Developed by SmartCity, a conglomerate promoted by Dubai Holding member TECOM Investments, in partnership with the Government of Malta, SmartCity Malta is home to a vibrant knowledge-economy community anchored by leading global, regional and local companies.

## Customer Needs

Situated at the heart of SmartCity Malta, 'SCM01' is a commercial building covering 12,000m<sup>2</sup> of office space spread over seven storeys, providing a series of flexible office suites together with shared facilities and ample parking for knowledge workers and visitors. SCM01 is the first leadership in energy and environmental design (LEED) certified green building in Malta. A key element in optimising SCM01's efficiency was enabling the Honeywell Pro-Watch® security management system to share signals with the Tridium Building Management System (BMS). SmartCity Malta required a mechanism that would aid in seamlessly integrating the two systems. It invited Building Services consultants from 'Sciicluna & Associates' to determine the most appropriate solution, who in turn selected systems integrator 'Engineering for Science and Industry (ESI) Malta Ltd to manage the design and installation.

*"ESI's expertise in using the HSDK has effortlessly combined what previously would have been two distinct processes for controlling the BMS and the security system into one easy-to-use system."*

*Shadi Khoja, business development manager – ICT, SmartCity*

## Honeywell Solution

- Honeywell Pro-Watch® Corporate Edition controls the access of SCM01's 30 doors, and ESI Malta Ltd also provided detailed expertise integrating the Pro-Watch system with the Tridium BMS by producing a specific adapter using the Honeywell Software Development Kit (HSDK). This adapter enables Pro-Watch and the BMS to efficiently share each other's input and output signals.
- Intruder detection is integrated with the Pro-Watch system. Sturdy and reliable DUAL TEC® motion sensors and door contacts from Honeywell are installed throughout the building. Alarm outputs triggered from these are managed by MAXPRO® VMS video management system and live video instantly shows the area in question on the video wall. At the same time, the BMS sounds a siren and increases the brightness of the lights in the area where the intruder is located.
- Video surveillance of the public areas is carried out with Honeywell IP PTZ mini-dome and box cameras. The high definition images are captured and managed by the MAXPRO VMS which also integrates with Pro-Watch.
- Honeywell OmniAssure™ MIFARE card readers monitor when an access control card is presented at door entry and exit points. Using Honeywell PW6000 intelligent controllers, Pro-Watch sends signals to the BMS whenever an access control card is presented to one of the readers. The access control cards can be programmed with cardholder's credentials including their personalised preferences for temperature and lighting settings. Due to the integration with the BMS, these settings are then applied based upon the person's location in the building
- The BMS also receives inputs from other security and safety related systems which are displayed and recorded via Pro-Watch. Such systems include; fire alarm (where the individual 'fire zone' is identified), emergency lighting, Uninterruptible Power Supply (UPS), back-up power generator, water leakage alarm, IT infrastructure and voice alarm system.

## The Benefits

- SCM01 green building enables its tenants to operate in an efficient, comfortable and productive environment.
- The system can continuously check the occupation status of each room / zone by monitoring the presence of access control cardholders and adjusting the lighting and flow of fresh air accordingly.
- As the BMS integrates with other non security related infrastructure systems and equipment within the building, critical alarm statuses and conditions from these systems are sent and recorded as events in Pro-Watch. This innovative feature gives the operators visibility of the status of other building infrastructure services which in turn enhances the safety and business continuity of the building occupants and owners.
- The data from the BMS, which includes inputs from Pro-Watch, also provides new energy-analytic reporting tools and Key Performance Indicators. These readings ensure that the building maintains operational efficiencies.
- Via Pro-Watch, the BMS assesses the occupation levels of the building 24/7. At night time, to optimise security, additional footpath and car park lighting can be turned on when any cardholders working late leave the building.
- The security team manages and controls the system via a dynamic, user-friendly graphical user interface - 'Alarm and Event Monitor', which displays clearly all alarm statuses and conditions from the BMS and Pro-Watch. For added convenience the interface is integrated with computer tablets and smart phones for access away from the control room.

## Commercial

### Products



**Pro-Watch®  
Corporate Edition**



**PW-6000 Intelligent  
Controllers**



**MAXPRO® VMS Video  
Management System**



**OT31HONAS  
OmniAssure™  
MIFARE Readers**



**HD3, HD4 and HCD  
HD IP Mini Domes**



**ACUIX™  
IP PTZ Camera**



**DT7235T DUAL TEC®  
Motion Detectors**

**Honeywell Software  
Development Kit (HSDK)**

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Obel was developed by the Karl Group and is located on Donegal Quay on the river Lagan beside the Lagan Weir. The development consists of 282 luxury apartments, and this ultra modern construction has two underground car parks and commercial and retail space in development.

## Customer Needs

- CCTV solution with the capacity to record and store surveillance footage to provide 24/7 video monitoring of the underground car parks and lobby area of the building.
- Cameras to be vandal resistant and able to withstand the damp environment of the underground car park as it is very close to the river Lagan.

*"We chose Honeywell because of their quality and cost effective video solutions."*

Clive Kinnear, Building Protection Systems NI Ltd

## Honeywell Solution

### Honeywell vandal resistant colour mini domes :

- Resistant to attack whilst having an environmentally suitable housing.
- Delivers high quality pictures and resolution.
- Cameras are able to withstand the rigors of the car park environment – damp, cold, moist and low light conditions.

### Honeywell colour mini domes :

- Captures clear, crisp video and improves recorded video quality when used with a digital recorder.
- Tamper resistant housing protects the camera and cabling.
- Discreet housing.

The HD3 is a camera and lens unit integrated as a one-piece, tamper proof and compact unit that can be surface or flush mounted for fast and easy installation. It is attractive and unobtrusive yet provides a crime-detering presence around-the clock with its excellent low light imaging protection.

### Honeywell 16 Channel DVRs :

Performance Digital Video Recorders (DVRs) have been installed to record and store the video footage from the domes in the car park and the lobby. They are monitored onsite by a dedicated operator.

## The Benefits

- Peace of mind for the tenants.
- 24 hour surveillance of the building and car park.
- Secure environment to live in.
- Video evidence is quickly and easily extracted from the DVR for police intervention.

## Commercial

### Products



Remote View App compatible



HD3 Series Indoor IP Mini Domes



HD4 Series Indoor/Outdoor IP Mini Domes



17" LCD Monitors

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United Business Media Limited (UBM) is a leading global business media company employing over 6,000 staff in 30 countries. The corporate head office is based in Central London, at Ludgate House. UBM has a wide portfolio of exhibitions and media brands serving a broad range of industries and markets globally.

## Customer Needs

- To modernise an antiquated CCTV system in Ludgate House main security control room.
- The need for an advanced state of the art video management solution.
- Central video management across three remote UBM sites.

*"Given the existing Honeywell equipment on site and the need for seamless integration and interoperability, I was very comfortable in recommending MAXPRO® VMS as the solution to meet the client's requirements."*

*John Moran, managing director at Minerva Integrated Security Services*

*"The new system is more user-friendly and its improved screen layout enables us to quickly and easily track anyone or anything inside or directly outside the building."*

*Paul Gosnell, head of security at Ludgate House*

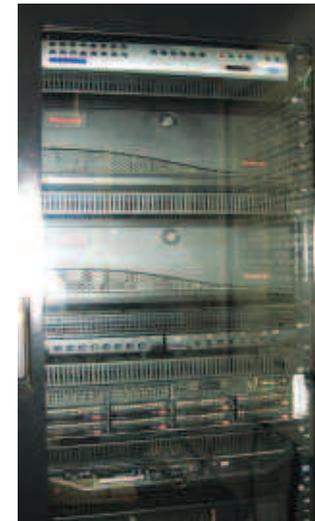
## Honeywell Solution

"With such an old video system, the new technology needed to compliment and be interoperable with the existing access, intrusion and DVR equipment to enhance the overall operation," commented Paul Gosnell, Head of Security at Ludgate House.

Of particular importance was for the video management system (VMS) to work with existing third party PTZ domes and CCTV cameras situated inside and outside the building. These cameras comprise a mixture of analogue and IP devices. Honeywell's MAXPRO VMS controls multiple sources of video subsystems in a facility to collect, manage and present video in a clear and concise manner.

MAXPRO VMS intelligently determines the capabilities of each subsystem across various sites, allowing video management of any analogue or digital video device through a unified configuration and viewer.

Minerva Integrated Security Services installed the MAXPRO VMS solution in the security control room, replacing the old equipment with an attractively ergonomic video wall and work station set up. The result is a clean, modern control room that is not only user friendly for the operator, but energy efficient and safety compliant.



## The Benefits

- MAXPRO VMS enables the user to create camera sequences or "salvos" that utilize a number of cameras or PTZ domes to track a typical path throughout the building.
- MAXPRO VMS helps considerably to mitigate external threats and risks.
- MAXPRO VMS is a highly cost effective solution. A key feature is its capability to control a hybrid of analogue and IP cameras and domes. This meant that UBM could make best use of its security budget by not having to replace existing camera technology with more up to date devices.

## Commercial

### Products



MAXPRO® VMS



16 Channel Fusion Digital Video Recorder



WIN-PAK® access control software integrated to Galaxy® Dimension intruder system



Honeywell Access Control Panel



OmniClass™ Door readers

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Waste Management, Inc. is the leading provider of comprehensive waste and environmental services in North America. Waste Management (WM) offers a full range of environmental services to nearly 21 million residential, industrial, municipal and commercial customers. Headquartered in Houston, TX, the company's network includes 413 collection operations, 370 transfer stations, 283 active landfill disposal sites, 17 waste-to-energy plants, 131 recycling plants, 95 beneficial-use landfill gas projects and six independent power production plants.

### Customer Needs

- WM had little or no security at their sites. Facilities that had alarm systems were antiquated and didn't respond back to one centralized location. WM wanted to create a cost-effective system to provide better reporting and keep their employees safe and secure.

*"Not only does this provide confidence for our security team, knowing that we can count on a particular system to actually work, but it also provides safety to our employees. And our employees know that there's always someone looking out for them."*

*Alex Aguilar, technology and project manager – Corporate Security for Waste Management*

## Honeywell Solution

- WM created a Life Safety Control Center to protect its physical assets. There they monitor video, intrusion, fire, access control and environmental alarms from one central location. The central station is staffed 24/7, 365 days a year.
- WM choose Honeywell's Active Alert® intelligent video analytics as standard practice for its 2,200 locations. It wanted to save the operator time and allow him/her to focus on alarmed events only.

### The Benefits

- WM was able to address the security needs of a number of sites in remote locations with high value assets, and the cash-based business with trucks that pay WM for services with Honeywell's video analytics.
- WMs landfill sites have lone workers and usually there's not much supervision. "Using Active Alert we can set parameters to count each vehicle that enters the scale and we cross reference that with how many tickets were actually entered during that day," says Aguilar. "We can also set other parameters so if anyone bypasses the scale, we get notified."
- WM operates an airport hangar that houses planes for executives and critical customers. With Honeywell's video analytics technology, they will be notified if unauthorized personnel approach the hangar. In addition, they use the software in the hangar facility to watch their fuel island.
- WM also uses the analytics to increase employee safety. "One of the ways we've been able to use Active Alert is to determine if people are in areas that they shouldn't be. A lot of people could get injured using our heavy equipment. We set events based on where this particular machinery is located. If anyone enters an area where they're not supposed to be, an alarm gets triggered at our central station and we're able to contact local authorities or the site personnel and let them determine whether or not we can pursue it with authorities," explains Aguilar.
- At the corporate facility, they've been able to use the software on a daily basis to provide safety for employees. If employees are entering the garage late at night, there's usually no security except for cameras. "We've been able to use analytics on those particular cameras and set restricted zones during specific times. If a certain event is triggered within that timeframe, our guards are notified and they're able to determine if someone is entering a restricted area," explains Aguilar.

## Commercial Products

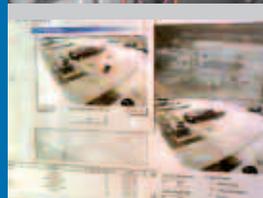
### Active Alert® Intelligent Video Analytics



Camera 16: Platform On Track Stop



Camera 17: Platform Leaving In restricted zone 2



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The Royal College of Art (RCA) provides a unique educational experience in art and design to a community of carefully selected and exceptionally talented postgraduate students from around the world. The RCA is implementing an exciting expansion programme at its campus in Battersea, London, which will have a transformative effect on the College and the areas of teaching it covers. These plans include enhanced building security to maintain the protection of staff, students and assets.

## Customer Needs

- The RCA's top priority is to provide a safe and secure environment for its staff and students at all times. Due to the diverse cultures and ages of its students, the College needs to address both differing learning styles and lifestyle needs. To ensure this is covered, access to the College buildings is provided from early morning until midnight seven days a week. The RCA also needed to consider protection of student work and intellectual property. With these factors, coupled with a number of incidents where the College was unable to use poor quality recorded images as evidence for onsite events, it was agreed that there was a need to upgrade and enhance the current CCTV system to deliver continued security for all.

*"The high quality images delivered by the cameras specified coupled with the fantastic customer and technical support from Honeywell ensured a smooth and timely delivered project."*

*Darren Martin, technical sales surveyor, Red Alert*

## Honeywell Solution

- Honeywell HDZ IP PTZ domes and Honeywell HD4 Indoor/Outdoor vandal resistant mini-domes.
- Red Alert, a multi-discipline security company and Honeywell Security Group demonstrated the new IP camera range to the College. The RCA agreed that the proposed IP solution would provide the required enhancements to its existing system, deliver the enhanced images and quality of service needed, whilst also allowing for cost effective future enhancement.
- Honeywell's new HDZ IP PTZ (Pan Tilt Zoom) cameras were installed to monitor the perimeter and grounds, whilst a number of Honeywell's high definition indoor/outdoor mini-dome cameras were chosen to monitor activity in common and critical areas.

*"The RCA has benefitted greatly from the enhanced security provided by this installation. The clear and concise images provided by Honeywell's high definition cameras ensures more robust and trustworthy security, whilst the ease of integration with our existing CCTV system ensured minimum disruption while maintaining safety at all times."*

*Christopher Franklin, facilities manager, Royal College of Art*

## The Benefits

- A Reliable Brand, a Trusted Security System - Through expertise in similar installations and experience with the Honeywell CCTV system, Red Alert delivered a reliable solution that meets the continued needs of the College.
- Innovative Products - The HDZ IP PTZ domes provide the College with brilliant, crisp picture quality ideal for areas requiring detailed surveillance. These cameras provide high definition images, even in low light environments, ideal for external use at the College, monitoring car parks, storage areas and quiet access points ensuring complete safety.
- Enhanced Image Quality - The upgraded system delivers clear and concise images ensuring incidents are fully identified, recorded and actioned accordingly, eradicating previous situations where prosecution was not possible due to poor image quality.
- Flexible and Scalable - New products needed to integrate with the current system, whilst allowing for future expansion. Introducing IP technology provides increased options and flexibility for future cost effective and strategic enhancements.
- Ease of Use - The enhanced system allows easier and smoother security management for the site as it is managed from one location and from a single user interface enabling time and resource efficiencies.
- Cost Savings - The professional security system installed offers significant material cost savings by supporting the limited manpower of the security team with innovative and reliable security protection.



## Education

### Products



HDZ IP PTZ domes



HD4 Series Indoor/Outdoor IP Mini Domes

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London South Bank University (LSBU) is one of London's largest and oldest universities. Since 1892 it has provided students with vocationally-relevant, accredited and professionally recognised education. As a cosmopolitan university with over 25,000 students, it draws students from over 130 countries. The Estate covers 125 000 square metres with the main campus comprising 17 buildings set adjacent to the transport hubs of Waterloo and London Bridge stations, and just a short walk from many of London's major landmarks.

## Customer Needs

- Operational security was addressed by tendering for a new security contractor for the Estate, and VSG Group was appointed in 2010 as the new manned guarding provider.
- There was a need to address the shortfall in physical security equipment and systems deployed across the Estate.
- The Estate security systems and equipment had grown on an ad hoc basis over the years, presenting management with the issues of incompatible legacy systems and an outdated security control room. VSG proposed to take over the monitoring of the LSBU Estate during out of hours periods by linking it to a virtual control room environment in VSG's alarm receiving centre (ARC) located in Northampton. This proposal included the release of control room staffing cost over the term of the manned guarding contract against capital cost investment by VSG towards upgrading the Estate security system capabilities and refurbishing the on-site control room environment.
- Cornerstone GRG Ltd were appointed as an independent specialist Security Consultant to draw up the scheme design, confirm the technical specifications with VSG Group and to project manage the delivery to practical completion and final sign off on behalf of LSBU.

## Honeywell Solution

- Together Cornerstone and VSG developed a modified solution designed around Honeywell's Pro-Watch® security management software suite which integrates the CCTV and alarm monitoring aspects. It allows the integration of existing analogue cameras and Honeywell Galaxy intruder alarm panels across an IP network.
- Honeywell hybrid Fusion H.264 network video recorders (NVRs) located around the site and linked to LSBU's IT infrastructure, pushed the legacy cameras to enhanced performance and eliminated the problem of long cable runs. However, Honeywell high definition HD4 cameras are installed as upgrades are implemented.
- Using Pro-Watch, everything can be networked to both an onsite control room and – central to the new security strategy - an offsite ARC managed by VSG. The Honeywell Galaxy panels have been simply upgraded to allow network communications via WebWayOne across the site and to the ARC. This allows remote monitoring and paves the way for future upgrades.
- The onsite control room was extensively modernized providing a more professional and ergonomic workspace with modern low power monitors, maximizing the user friendly and intuitive interface and controls provided by Pro-Watch.

## The Benefits

- This reorganisation and investment has created a security solution that enables more intelligent deployment of manpower and technology.
  - The remote ARC operation has freed up resources which have been redeployed on site.
  - The new control room on site is a professional environment improving morale and commitment from staff. Now co-located with the control room, a new Security Office provides a logical focal point where staff and students can report problems, or seek advice.
  - All fire and security alerts triggered by the Galaxy panels can be monitored by both the on and off site control rooms and both facilities provide a 24 hour emergency helpline service. During the night and at other selected times monitoring is switched to the remote ARC, but the manned guarding team is on site and free to provide physical responses as required.
  - The resilience of the whole solution has been improved by the location of dedicated Fusion H.264 NVRs in relevant buildings, and because these are now networked to not only the main control room on site and the remote VSG ARC but also to a back up control facility on site. Hence, a cost effective solution is facilitated by IP technology and the Pro-Watch software suite.
  - The introduction of IP technology and the WebWayOne communications has provided increased options and flexibility for cost effective future enhancements and strategic expansion of the system.
- Overall the enhancements have enabled LSBU to achieve its goal of providing a safer and more secure environment for staff and students. Incidences of theft have been reduced and the arrest rate increased with the NVRs recording evidential quality images.



## Education

### Products



Honeywell Pro-Watch Software Suite



Honeywell Galaxy Intruder Alarm Panels



Honeywell Fusion H.264 Hybrid NVRs



HD4 Series Indoor/Outdoor IP Mini Domes

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The University of District of Columbia (UDC) supports a broad mission of education, research and community service across all member colleges and schools, which include the Community College, College of Agriculture, Urban Sustainability and Environmental Sciences, College of Arts and Sciences, School of Business and Public Administration, School of Engineering and Applied Sciences, and the David A. Clarke School of Law. The university has approximately 6,000 students enrolled at four locations throughout the DC Metropolitan area.

## Customer Needs

- The UDC's mission is to provide education and training for all residents of the District. Classes are offered early in the morning, late at night, and on weekends. In addition to students of conventional college age, some are 60 or 70 years old. University officials must address the different learning styles and lifestyle needs of the students, so technology-enhanced security is essential. And with a student population made up of 65% women, personal safety is paramount, especially since many use public transportation.
- In addition to ensuring the physical and personal safety of students 24/7, administrators must view safety in terms of protecting electronic data and other records. Advantech, a mid-Atlantic region systems integrator, provided an integrated solution that fulfils their immediate needs, but also lays firm groundwork for future expansion.

*"MAXPRO VMS was a great solution because it integrates directly with Pro-Watch. The cameras at the satellite locations can all be monitored from the main campus."*

*Eric Schaeffer, president of Advantech*

The UDC installed Honeywell's Pro-Watch® security management system five years ago, which meant they were well prepared for expansion over the years. The first phase of the security upgrade included adding a new command and control and dispatch operations centre, and also involved integrating the existing access control doors with existing analogue cameras and new IP cameras. UDC officials wanted to increase the coverage across the main campus and satellites, but they wanted to manage the data through one graphical user interface. By adding MAXPRO® VMS, they were able to pull everything together on one screen.

In addition to supporting an unlimited number of card readers and users managed with Pro-Watch, MAXPRO VMS also supports the third-party cameras across campus, allowing the university to leverage their investment in existing analogue technology.

*"The deciding factor for this upgrade was the fact that all of our systems were separate. Nothing communicated or worked together. With MAXPRO VMS, we're able to view our cameras where and when we need them based on the situation."*

*Lt. Ron Culmer, safety and security specialist at UDC.*

*"We want to streamline operations as much as possible with technology. The Honeywell solution meets our needs now and will continue to do so far into the future."*

*Larry Volz, chief of police and director of public safety at UDC*

## The Benefits

- According to Culmer, one of the main benefits of the integrated Honeywell solution is how easy it is to use. He says some of his operators are very technology-oriented, while others are highly customer-service focused. But whatever technical skills and comfort level they possess, they're able to operate efficiently—in fact, many have been able to log in to the video management system and set up some of the minor functionality before they receive any type of formal training on the system.
- As the UDC adopts a new system for student accounts and HR, the next phase will be to integrate that with Pro-Watch to automatically populate the cardholder database with records of students and staff for badging and ID management. The UDCs intent is to have one card that can be used for anything from parking access to vending, bookstore purchases and dining services—in addition to access control and security purposes. They're confident the Honeywell technology will support that goal because of its scalability.



## Education

### Products



**Honeywell Pro-Watch®  
security management  
system**



**Honeywell MAXPRO®  
VMS video  
management system**

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# St. Georges Technical High School - Delaware, USA



Located in Central New Castle County, St. Georges Technical High School is a 225,000 square ft. school designed to accommodate 1,000 students in Middletown. Configured to support small learning communities, the school includes academic classrooms, career-training labs, teacher offices, and student services.

## Customer Needs

- When the school district determined that security was vital to day-to-day operations, they consulted with Mahaffy & Associates, Inc. to design the system, who selected security integrator Advantech.

*“The integrated security system at St. Georges is an ideal template for any school. It is a unique project since it is truly a one system/one card solution with true data integration of the sub-systems, IP video, smart card technology, and its own network.”*

*Eric Schaeffer, president of Advantech*

## Honeywell Solution

Traditionally, the fundamental systems that comprise security in a building of this size are three independent systems: Access Control, Intrusion Detection and CCTV.

“This project is unique because it offers true data integration since Intrusion, Access Control and CCTV are in one networkable/expandable system,” explains Eric Schaeffer, president of Advantech.

The system features IP cameras which provide easy expansion. To ensure efficiency, the system operates on its own network eliminating bandwidth impact to the school’s computer network. “Due to the large footprint of the school, IP cameras offered a solution that would allow the information to be directly coupled to the system head end. The availability of the network to support IP cameras offers a low cost solution when adding additional cameras in the future,” explains Edward Fayda, P.E. for Mahaffy & Associates.

PTZ cameras monitor the perimeter grounds and interior cameras monitor activity in common and critical areas. Conventional digital video recorders were substituted with hot swappable, digital hard drive storage arrays using RAID5 recording technology. This permits future expansion of the system with minimal upgrade costs.

## The Benefits

- In the event of an alarm, the system can be programmed to recognize the point of alarm, and change from time-lapse recording to real-time recording.
- Unlike conventional proximity cards, smart cards can be programmed to contain a variety of information such as a photograph, biometrics, and the access levels granted.
- The security system is automatically disarmed based on a valid in card read to that area of the school, simplifying operation and eliminating user caused false alarms.
- Lost cards can easily be deprogrammed from the system without the need for changing locksets and reissuing brass keys.
- In a crisis, school officials have the ability to “Lock Down” the school at any time.



## Education

### Products



Pro-Watch



MAXPRO® VMS



HD4 Series  
Indoor/Outdoor IP  
Mini Domes



True Day/Night  
Cameras

### Advantech products

Industrial In-wall PC  
In-wall Touch  
Screen 105"  
Custom Integration  
Software for  
VISTA-250 & Security  
Mgmt. System

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[www.honeywell.com/security/emea](http://www.honeywell.com/security/emea)



## CityCenter complex - USA



The massive new CityCenter complex is the largest privately-funded construction project in U.S. history. The 18-million square-foot facility spreads over 67 acres and includes the ARIA Resort and Casino, which hosts more than 4,000 hotel rooms, 10 bars and lounges, and a 150,000 square-foot gaming space with 145 table games and 1,940 server-based slot machines.

### Customer Needs

- 360 degree IP cameras to cover the casino floor, as well as megapixel cameras that can capture clear identification shots of people traveling between different areas.
- To capture data from CityCenter's parking and retail locations.
- To allow security personnel to review cash handling from anywhere within the facility, and conduct both post-forensic and real-time analysis.
- To allow personnel to quickly retrieve and view video from any camera to pinpoint and resolve issues as they arise.

*"The amazing thing about these cameras is the image quality and the low light level performance."*

*Ted Whitind, surveillance director*

## Honeywell Solution

From an installation perspective, the system's network configuration saves hardware space, as well as time and money on equipment and labor, because it eliminates the need for transmitters and receivers.

ARIA is in the process of implementing Honeywell's new HD3MDIP fixed mini-dome network camera, which is ideal for casino floors due to its superior picture quality and ability to capture high-definition images in variable conditions, including low lighting. It can also reduce the number of cameras needed to monitor table games.

*"The amazing thing about these cameras is the image quality and the low light level performance. Most casinos are quite dark, which has always been an issue for CCTV systems. The Honeywell HD3MDIP handles low light better than any camera I have ever seen, and the resolution is fantastic. Instead of using two cameras to cover table games with suitdependant payouts, we can now use a single camera and read every card," said Ted Whiting.*

### The Benefits

- While any upgrade from an analog system to a digital system will show immediate benefits in a surveillance department's efficiency, this system has given ARIA some successes that would have been impossible with a less robust digital CCTV system.
- MAXPRO VMS let them retrieve and review video quickly from any camera, regardless of camera type or manufacturer, so they were able to apprehend a suspect.
- From an installation perspective, the system's network configuration saves hardware space, as well as time and money on equipment and labour, because it eliminates the need for transmitters and receivers.



## Gaming

### Products



MAXPRO® VMS



HD3 Series Indoor IP Mini Domes



IDM  
(Integrated Data Manager)

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Since 1948, the Albany Housing Authority (AHA) has been providing good housing in safe neighborhoods across Albany, NY. The agency owns and operates 1,800 public housing units and administers an ongoing public housing rehabilitation program averaging \$2.5 million annually. Today, the Authority offers families a foundation from which to build successful lives through quality rental, homeownership, employment and small business opportunities.

## Customer Needs

- To create a comprehensive security approach against vandalism and the cost that it brings to operations.

*“Number one, vandalism creates a negative image of the property and number two, it costs money to remove it.”*

*Steven Longo, executive director of the AHA.*

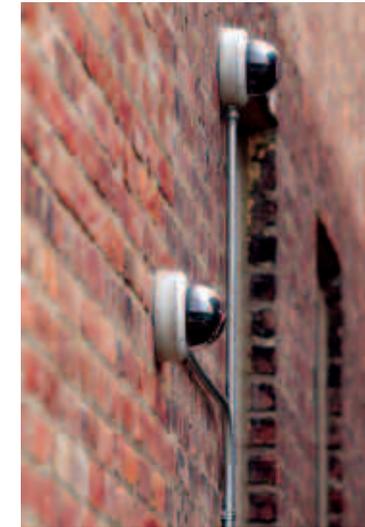
*“From any of our offices, we can see video from all our properties and that’s a great tool as a result.”*

*Peter Ragsdale, AHA’s director of administration*

## Honeywell Solution

Since their properties are spread all over the city with about thirteen locations, the AHA wanted a single, unified platform. To meet these concerns, FES Installations of Madison designed a security solution that deployed Honeywell fixed cameras, PTZs and Performance Series DVRs. With this powerful combination, they were able to provide AHA with sufficient and adequate coverage of the areas that they wanted to protect, and tie that back into their central offices in order to watch all their properties at one time.

*“The software is Internet-based so that we can watch it from our homes if we’re so inclined. And certainly the police are able to see the properties at any given time if an alarm comes in. That’s been very useful so that when they’re coming to the scene, if it was vandalism, then they know where to go and exactly what was going on. It’s that intelligence on the ground that has given us an advantage,” explains Longo.*



### Government

### Products

HRDP DVRs

Remote View App

HD4 Infra red true day night vandal resistant camera

ACUIX™ PTZ Domes

HFVMS Management Software

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## The Benefits

- The video surveillance is not used just for criminal conduct, but also for supervisory capabilities.
- As a result of the new installation, the residents and staff are much more secure.

## Trenton Housing Authority - New Jersey, USA



In existence since the late 1930s, the Trenton Housing Authority (THA) provides decent and affordable housing for low and moderate-income residents throughout the city of Trenton, N.J. Its mission is to provide safe and sanitary housing for residents and to lead them toward self-sufficiency. For the past 30 years, the THA has served nearly 2,000 households. Today, the THA is an autonomous body that is chartered by the State of New Jersey, partially funded by the federal government and governed by a seven-member Board of Commissioners.

### Customer Needs

- To create a safer environment, where people could feel comfortable walking to and from their housing units, regardless of the time of day.
- To provide officers with tools that could help them become more efficient and effective.

*"MAXPRO VMS is ideal for a central command center where multiple operators are required to view numerous cameras all at the same time."*

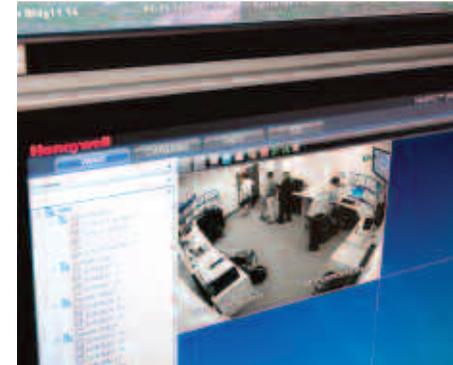
*Maureen Bruen, regional sales manager of Honeywell's Video Systems*

## Honeywell Solution

Since the housing communities were spread across multiple locations throughout the city, THA officials sought complete convergence of all THA video. Officials also needed the video to be centralized so they could manage it more cost-effectively.

"One of the challenges in our industry is gathering information from locations across an entire city and sending it back to one location. And how do you balance cost and technology effectively, so it works?," says Michael Vertolli, president of ComTec Systems.

In response to these needs, ComTec designed a unique wireless network to transmit CCTV, access and other data to a command and control centre. The wireless solution proved to be especially economical, since it did not require putting fiber in the ground and trenching or digging up existing environments.



A critical piece of the installation is Honeywell's MAXPRO VMS a unique video management system that bridges the gap between analogue and digital video systems.

### The Benefits

- Enables the integration of all camera systems and provides a single user interface to manage the entire system.
- Multiple operators can share incidents with other operators using simple drag-and-drop functionality.
- Since its implementation, crime has decreased, and illegal dumping and unauthorised use of certain areas has also been significantly reduced. Most importantly, the community feels secure, fulfilling the THA's mission to create safer communities for its residents.

## Government

### Products



**MAXPRO® VMS**  
(Video Management System)



**Rapid Eye™ DVR**



**ACUIX™ PTZ Rugged Dome**



**HD4 True Day/Night Mini Dome**



**WIN-PAK® Access Control**



**UltraKey Controller**

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Ziekenhuis Amstelland general hospital provides high quality medical care in a friendly environment and on a small scale, primarily to the residents of the Amstelveen region. Following a large-scale new construction project that took place in 2009-2010, and with a major renovation of the old building during 2011, Amstelveen Hospital has transformed itself into a brand new hospital, and security aspects were reexamined in great detail.

### Customer Needs

- To reassess the entire security system as additional areas had been added for various treatments and some areas has been enlarged, all of which needed to be made secure and required security solutions to manage the expansion in the capacity to treat patients, and the magnitude of the daily flow of people throughout the hospital.
- An optimized security system to safeguard personnel, patients, medicine supplies and the medical equipment were of vital importance.
- In this large-scale renovation, the primary need was the expansion of the camera system, as well as switching to an integrated IP security solution for inside the buildings and surrounding premises.

*"There are a lot of changes in the market, technology moves fast and we wanted to let our customer experience the differences in image quality."*

*Arjan Kleuver, project manager at BAM Techniek*

## Honeywell Solution

For the selection of the right supplier, a tender was issued. "Not long after the trials had started it became clear that the Honeywell cameras were superior in the transition from day to night, delivered crisp high quality images, and exceeded their competition in price-performance ratio," said Peter Karsman, Head of Facility Operations, Amstelland Hospital.

In addition to the 90 Honeywell cameras, six Honeywell Fusion IV Network Video Recorders (NVRs) were installed with FVMS software. The powerful Fusion IV has the capacity to support up to 32 IP cameras and when combined, multiple Fusion NVRs can support hundreds of cameras, meeting the requirements of large-scale integrated IP systems like the one installed in Amstelland Hospital.

### The Benefits

- Installing the Honeywell cameras and network video recorders have provided Amstelland Hospital with a robust integrated IP surveillance solution.
- For Amstelland Hospital, the new IP system brought a significant improvement in efficiency gains. Thanks to the pre-installed motion detection settings, the cameras are only activated to record when motion occurs. With the video management software, a site map can be preloaded, pinpointing the exact location where the incident is occurring. The Honeywell solution improves safety, and enhances the quality of the information provided to security and reception personnel.
- The video management software makes it possible to preset a variety of user rights. This functionality is of crucial importance with regard to the Law for the Protection of Personal Data, and makes it possible to define who has viewer or data recapture rights for the recordings which ultimately are required to protect against illegal use of the images and guarantee the privacy of employees and patients.
- Choosing the Honeywell high definition cameras that require minimal bandwidth also enables substantial financial savings. The clear image quality and the problem-free transition from day to night registration ensure the continuity of reliable data collection and a good situational overview at all times.

## Healthcare

### Products



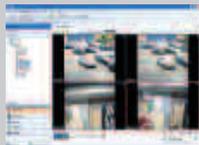
HD3 Series Indoor IP Mini Domes



HD4 Series Indoor/Outdoor IP Mini Domes



Fusion NVRs with FVMS software



HFVMS Fusion Video Management Software

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# South West Acute Hospital - Northern Ireland



The Western Health and Social Care Trust's South West Acute Hospital is a brand new, state of the art development located north of Enniskillen, Northern Ireland. Spanning 52 acres, and costing £270 million, the Hospital was constructed to deliver a wide range of services including acute medicine, day and elective surgery, critical care, accident and emergency services, and consultant-led maternity services. The facility offers the most modern clinical practices using the latest technologies which enhance patient care, and is Northern Ireland's first to provide 100% single en-suite room accommodation.

## Customer Needs

- The main Hospital building as well as staff/key worker accommodation and 11 car parking areas required monitoring by a robust, reliable and flexible security solution to safeguard patients, visitors and staff.
- It needed an integrated security system with CCTV monitoring that was tried and trusted and able to meet the complex security requirements of this state of the art facility. The solution specified required integrated IP and analogue cameras monitoring.

*"We selected Honeywell's video recording and monitoring solutions due to our familiarity with the extensive and versatile product range on offer, and having installed Honeywell equipment for a number of years we were confident that the proposed solution would match the performance specification of this particular project,"*

*Clive Kinnear, Senior Manager – Security Systems, BPS.*

## Honeywell Solution

BPS was awarded the contract by Northern Ireland Healthcare Group (NIHG) to install the CCTV security system.

The solution installed comprised over 300 cameras, a combination of Honeywell pan, tilt and zoom (PTZ), and vandal resistant fixed domes with true day/night capabilities, as well as 22 HRDP digital video recorders (DVRs) installed across the facility to protect key areas. Honeywell's MAXPRO® matrix was deployed to allow security operators to manage this multifaceted security system and monitor visitor, staff and patient traffic throughout the Hospital as well as the surrounding grounds.

Although security was paramount across the whole facility, three areas in particular warranted special attention:

### Accident and Emergency

The safety and security of staff, patients and visitors using the hospital is of paramount importance. By installing Honeywell's PTZ domes detailed surveillance is possible in the Accident and Emergency Department, and clear detailed images can be retrieved should an incident occur. It also acts as a preventative measure and early warning system, so that major incidents can be quickly intercepted and diffused. Honeywell HRDP DVRs ensure that all events can be accurately recorded and stored, easily accessed and used as evidence if required in the event of a security breach or a health and safety incident.

### Car park and remote outside areas

A number of 'Help Point' buttons were installed around the site providing additional security. Linked to the MAXPRO® matrix, on activation these buttons trigger the nearest PTZ cameras to rotate into pre-set positions that give immediate views of the surrounding area from different angles. Security staff can then manually control the cameras, allowing them to provide timely and appropriate action to potentially high-risk situations.

### Staff and worker accommodation

This is a high traffic area with people coming and going around the clock. Honeywell's indoor mini-dome cameras are ideally suited for this purpose due to their ability to adjust to variable and low light conditions, ensuring sharp, crisp colour images in dark or backlit environments such as windows and doorways. This delivers reliable security with usable video evidence if required, regardless of the lighting conditions. Honeywell's ACUIX™ ES PTZ domes were also installed in this area as they feature privacy zone settings, and are ideally suited to such sensitive areas as they protect privacy whilst offering a high level of security. Combined with Honeywell's DVRs these cameras use motion detection to automatically boost the image per second recording rate to capture additional details of a scene, and capture maximum detail at building entrances and exits. This provides a system that maximises and streamlines security, and is easy to control and manage the safety of patients and Hospital employees.

## The Benefits

### Reliable security system

Through expertise in similar security installations and experience with the tried and trusted Honeywell CCTV system, BPS was able to deliver a reliable solution that met the customer's exacting requirements.

### Choice and flexibility to meet all security needs

Honeywell's versatile range of cameras suited the diverse applications and lighting conditions that are typical within a hospital environment.

### 24/7 protection and peace of mind

Staff, patient and visitor security is ensured around the clock with continuous CCTV monitoring of high risk areas.

### Future proof and expandable to support the Hospital's evolution

The CCTV system is future-proof ensuring that expansion requirements can be addressed in a cost-effective manner.

## Healthcare

### Products



ACUIX™ ES,  
PTZ Domes



DVRs Performance  
Series



HD3 Series Indoor  
Mini Domes



MAXPRO® Matrix



UltraKey Plus  
keyboard

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The Whitegate Health Centre, a new NHS Primary Care Centre located in Blackpool, Lancashire, was opened to the public in September 2009. The Primary Care Centre was built as part of a wider NHS initiative to bring non emergency / surgical health services under one roof to enable hospitals to concentrate on the provision of emergency, surgery and specialist health care.

## Customer Needs

- A comprehensive integrated security solution was required to protect and monitor the patients, staff and visitors who use the facility.
- The security solution specified required integrated digital video recording, access control, intruder detection and CCTV (IP and analogue cameras).
- One of the most important aspects of any major security installation is the capability of different products to seamlessly integrate and interoperate with each other. The end user benefits from a reliable, customised and state-of-the-art integrated security system.

*"The breadth of the Honeywell product range and our integrated solutions meant that Black Box could specify a complete security system from a single reliable supplier."*

*David Barnes, Blackbox Security*

*"This system enables us to monitor the building inside and out so we are able to correct any issues before they turn into problems."*

*Dave Hamilton, facilities manager, Eric Wright Group*

## Honeywell Solution

The challenge was to combine access control, CCTV (IP and analogue) and intruder systems into a cohesive integrated and user-friendly system. Honeywell was selected because of the seamless interoperability of WIN-PAK®, Fusion Digital Video Recorders (DVRs) and the Galaxy Dimension intruder control panel which ultimately creates a robust and reliable end-to-end solution. The Honeywell WIN-PAK access control system includes 104 smart card proximity readers and twenty seven Honeywell control panels.

From a video perspective, WIN-PAK offers complete enhanced digital video integration to the two Fusion DVRs installed in the centre's security control room. Integration allows video to be linked to both access control and Galaxy intrusion events and alarms. Video clips can easily be recalled with the software, based on a time or event. With integration, users can have complete camera control, including pan, tilt and zoom, and can verify live users with stored images using the video verification option. The Honeywell Equip IP True Day Night box cameras were installed in the health centre canteen area as a means of preventing shrinkage and monitoring movements and activity within this area of the building. This particular camera is specifically designed for object recognition which is required in locations where variable and low light conditions exist – like a canteen. Set-up is quick and easy and can be customised through a web client or from a Network Video Recorder (NVR).

## The Benefits

- Hospitals and Health Centres are considered to be prime targets for crime. The Honeywell solution incorporating DVRs and cameras provides a robust, accurate and dynamic video system to monitor, capture and record images and footage.
- The speed, accuracy and efficiency of the system aids security staff in dealing with any issues which may occur, either in real time or in providing evidence for later actions.
- The seamless integration and interoperability provides major benefits to the customer. For example, the doors controlled by the WIN-PAK access control system are also monitored by cameras enabling the security manager to gain visual verification of all people accessing the controlled doors. WIN-PAK enables security staff to know exactly who is in the building and in a particular zone at any given time, and combined with integrated video surveillance staff can monitor the building in real time and thus deliver a safer and more secure environment for all.

## Healthcare

### Products



**16 Channel Fusion Digital Video Recorder**



**WIN-PAK® Access Control System and Galaxy Dimension**



**Honeywell Access control panels**



**OmniProx™ door readers**



**Honeywell Equip IP True Day Night box cameras**

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DeLaMar Theatre is located in the heart of Amsterdam. The driving force behind this new theatre is the VandenEnde Foundation created in 2001 by Joop van den Ende and his wife Janine, and whose main objective is the promotion of culture and cultural entrepreneurship. Joop van den Ende is the founding father of one of world's largest media production companies Endemol Productions. After an intensive building project DeLaMar Theatre opened in November 2010. It is a contemporary theatre promoting first-class entertainment for a wide audience. It has two large theatres seating 1,500 persons and has several spacious lounges as well as a Grand Café. The lounge areas also house a very special art collection and specially commissioned over-sized photographs by Dutch art photographers with the theme 'theatre'.

## Customer Needs

- The facilities, visitors, employees, and assets of the theatre including the valuable art collection, inventories and administrative documents must be safeguarded and protected from theft and vandalism at all times.
- When there is an evening performance DeLaMar Theatre can count on thousands of attendees, as well as the presence of staff, visiting technicians and actors coming in and out, and moving through the various rooms. Thus the need to assess front of house and back of house security needs. Front of house includes controlling the continuous flow of people and securing the art collection while maintaining a welcoming and open atmosphere. Back of house includes securing offices, changing rooms, instrument storage, the stage area, as well as managing unauthorized personnel from other production teams sharing facilities at other times within the same period.

*"The challenge in the project was not only to design a workable system in all sense of the word, but also the exclusion of issues that may arise from the human factor. This is also the direct reason why we deliberately chose to integrate intrusion with the video surveillance system."*

*Stephan Azijnman, project manager and co-owner, Shield Beveiligingstechniek*

## Honeywell Solution

- The changing programme, teams, function groups and the associated variety of levels of authorization required in connection to time logs and areas created the need for an advanced security system. Guided by previous positive experiences with security installations at other Endemol Productions locations, DeLaMar Theatre selected Honeywell security solutions, and the installer Shield Beveiligingstechniek due to its extensive experience in advanced security integration design.
- Honeywell WIN-PAK® allows users to manage their access control and integrated security systems using floor plans. DeLaMar Theatre chose the proven and reliable Galaxy® Dimension intruder panel with a variety of IP and analogue cameras from the ACUIX™ range and Performance Series connected to a Fusion IV 32-channel digital video recorder with VideoBlox.

*"We talk about 'Front of House' and 'Back of House', and the security of each of these areas has its specific requirements."*

*Patrick Uni, building manager, DeLaMar Theatre*



## The Benefits

- The security solution meets all the specific needs for security and flexibility per area. The integration of access control, intruder and CCTV has provided one manageable system.
- Since the opening, the number of incidents of theft has drastically reduced and human errors leading to security breaches can be identified and rectified automatically.



## Leisure - Sport

### Products



**WIN-PAK® PE**  
Access Control System  
and Galaxy Dimension



**OmniClass™**  
Door readers



**Matrix Switch**



**Fusion IV DVR**



**True Day/Night**  
WDR camera



**HD51X Vandal**  
resistant Dome



**ACUIX™ ES,**  
PTZ Domes



**DT7550 Anti-Mask**  
Dualtec® sensor



The Royal Armouries Museum is housed in a multi-million pound purpose-built complex located at the heart of the £150m Clarence Dock development in Leeds city centre. The museum is home to the national collection of arms and armour, which comprises over 70,000 examples of arms, armour and artillery dating from the Middle Ages to the present day. It includes the royal armours of the Tudor and Stuart kings, and arms and armour of the English Civil Wars.

### Customer Needs

The Royal Armouries Museum contains many priceless artifacts. Therefore, it is essential that the security system, and in particular the video solution, can effectively monitor such an important heritage site. The existing digital video recorders (DVRs) and CCTV matrix were considered to be inefficient and obsolete. As a result, faults were regularly reported, regular engineer visits were required to fix and if necessary, replace the parts or components that caused the fault. Added up over the course of a year, this meant considerable cost to the customer and was not the best use of resources from the installer's standpoint. In addition, the integrity of the video management security was at risk due to the constant faults, repairs and downtime.

*"We couldn't be happier with the new video management system, my team is now able to retrieve and download high quality images in no time at all from the Fusion systems and the MAXPRO matrix, and the ULTRAKey controller enable the operators to easily manage the entire system."*

*Adrian Payne, security manager, The Royal Armouries Museum*

## Honeywell Solution

Honeywell Fusion DVR and Honeywell MAXPRO CCTV Matrix:

- Six Honeywell Fusion DVRs were installed in a dedicated server room located adjacent to the security control room on site. The recorded video data is stored in several RAID storage units giving a five terabyte memory capacity. This allows the team to store more footage and higher quality images over a longer period of time than the previous system allowed. This is important in a museum / gallery environment where suspicious behaviour can be tracked over time and then stored for longer periods if required as evidence at a later date.
- The Honeywell MAXPRO Matrix replaced the previous CCTV matrix. It controls 90 existing fixed and fully functional dome cameras positioned inside and outside of the building.
- The Honeywell ULTRAKey™ fully programmable keyboard controller was chosen because of its intelligent, user-friendly control of the CCTV management system. This was installed in the security control room along with several monitors and control equipment.

### The Benefits

- The security operators are now able to instantly review a recording of an incident and high resolution still images can be produced, saved and printed.
- The Royal Armouries Museum has benefited from the security upgrade in the form of lower system maintenance costs. Fewer installer engineer call-outs are required, the equipment is reliable and the on-site security team has been fully trained to manage any issues that may arise. Over the course of a month or a year, real value is now added to the bottom line due to these cost savings.
- The MAXPRO CCTV matrix has integrated seamlessly with the legacy cameras on site. The intruder alarms and Fusion DVRs are also integrated in the system. This has saved significant cost for the customer as an immediate replacement of the camera and alarm system was not required.
- The Honeywell MAXPRO matrix and management system provides the front-end control for every security function. A major benefit of integration is that operators are not required to have multiple skills to operate CCTV, access control and fire systems for example. They are simply trained to manage one front-end system.



Leisure - Sport

### Products



16 Channel Fusion  
Digital  
Video Recorder



MAXPRO CCTV  
Matrix



ULTRAKey™  
Keyboard Controller

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## Shopping Centre EUROMA2 - Rome, Italy



Euroma2 is one of the biggest shopping centres in Europe. Situated in Eur, a neighborhood in the outskirts of Rome called Castellaccio, it has five floors, two of which are underground parking. Euroma2 counts more than 220 shops and 20 restaurants. The shopping mall has four thousand parking spaces available for its customers.

### Customer Needs

- A digital platform with the technology based on only one brand that could provide an integrated security system including video, access and intrusion detection.

*"We are very satisfied with the new Honeywell Fusion DVR. We are much better equipped to handle video incidents. The management of the shopping centre security systems is a lot easier and efficient."*

*Attilio de Micheli, security manager Euroma 2*

## Honeywell Solution

- More than 280 Honeywell interior and exterior cameras and domes.
- PTZ ACUIX with Day/Night technology and Wide Dynamic Range, rugged domes to prevent exterior vandalism and vandal-proof mini-domes for interior applications with a discrete design to match the interior decoration and style of the shopping centre.
- The cameras are linked by an unshielded twisted pair (UTP) to 16 channel Fusion digital video recorders (DVRs), 20 of which have been installed in different technical rooms.
- The technical rooms and the control room are connected via a 1Gbps ethernet network over optical fibre. In the control room there are two PC work stations which enable the technicians to monitor, reproduce or save any video source from the system by means of the Honeywell Fusion Video Management System (HFVMS) software.
- A Honeywell WIN-PAK™ access control solution manages access to the entrances of the shopping centre linked with two Galaxy® intruder alarm panels creating an integrated system to protect the buildings.
- The Honeywell digital DVR Fusion system includes a software platform that can share and process video signals for other Honeywell solutions such as intelligent video analytics-Active Alert®, which can be used to track people, people and objects.

### The Benefits

- The security operators are now able to instantly review a recording of an incident and high resolution images can be produced enabling security staff to locate and apprehend a suspected thief or vandal.
- The RAID storage units allow the team to store more footage over a longer period of time. This helps police and the legal process if charges are pressed. Overall, the operation has become more effective and efficient.



### Retail

#### Products



16 Channel Fusion Digital Video Recorder



ACUIX™ domes



HD3 and HD4 Series IP Mini Domes



Honeywell True Day Night camera



WINPAK



With around 800 high street stores, 19m passengers a year and over 30,000 employees, Thomas Cook is one of the world's leading leisure travel groups.

### Customer Needs

In 2007 the Thomas Cook Group Head of Security Steve Nelson determined the business requirement for a compact digital video recording solution for each store, easy enough for a store manager to use. After undertaking a thorough examination of the DVR equipment market, he approached Challenger 2 Limited, a national security company based in Bristol, who recommended a short list of three potential DVR solutions that met the minimum standard required by Thomas Cook.

Following a further review process Steve Nelson chose the Honeywell HRDP Performance Series Digital Video Recorder, which has been used to replace the company's existing VHS recording systems in each store.

*"As soon as Challenger 2 approached Honeywell with this project, I knew the HRDP Performance Series Digital Video Recorder (DVR) would fit perfectly."*

*Bob Atkin, UK South regional sales manager at Honeywell Security Group*

## Honeywell Solution

Providing an advanced feature set and with cost-effective pricing, the Honeywell HRDP Performance Series is an ideal DVR for a wide variety of surveillance applications for small to medium-sized retail, financial, warehouse, and educational facilities. The availability of web browser remote access in addition to remote software means that the HRDP provides new application possibilities to suit customer requirements. Business owners or Security Managers can check on their businesses from virtually any location using a PC with a web browser and internet access. A similar feel and operation to that of the Honeywell Fusion range makes the HRDP easier for installers and customers to adopt.



### Retail

### Products



### The Benefits

The HRDP Performance Series DVR has been installed in all of the Thomas Cook stores, with a mix of 4, 8 and 16 channel DVRs, dependent on the size of the store.

*"Our UK & Ireland store network employs over 5,000 of our people and it is imperative to create the safest possible working environment for them. The deterrent value of CCTV remains a matter for debate, but providing the police with good quality images of criminals to aid a conviction is a key element of my crime reduction strategy and the Performance DVR is intuitive enough for a non technical person to both operate and secure evidence from, increasing the likelihood of obtaining a conviction following an incident. We are delighted with the Honeywell product expertly installed and serviced by Challenger 2," commented Steve Nelson at Thomas Cook.*

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The Eden Shopping Centre in High Wycombe provides one of the most exciting retail and leisure destinations in the UK. It contains an array of big name shops, a 12-screen cinema, bowling alley, library and exclusive restaurants. It provides secure car parking for 1580 cars and a bus station for the town.

## Customer Needs

The system specification demanded :

- An easy-to-use integrated solution that could provide discreet surveillance in this prestigious shopping centre.
- A state-of-the-art integrated access control and digital CCTV solution providing video surveillance to all main public walkways, the multi-storey car parks, service yard areas and a new bus station.
- To be able to centrally manage door access throughout allowing an efficient, manageable but secure process for staff access to all authorised areas.

*“We now have an affordable, sophisticated security solution that meets our needs now and one that is flexible enough to expand and meet our needs in the future.”*

*Daniel Tomkinson, centre director, Eden Shopping Centre*

## Honeywell Solution

The Honeywell Security solutions consists of a WIN-PAK™ Access Control system with Honeywell controllers, approximately 30 OmniClass™ readers which enable integration with the 200+ CCTV cameras, the Fusion Digital Video Recorder (DVR), Fusion Video Management System (FVMS), MAXPRO matrix and Honeywell monitors to provide the control room video wall.

- Honeywell wide dynamic cameras were installed in areas of high contrast light conditions, such as in the bus station and service yard area.
- Honeywell Orbiter PTZ cameras, vandal resistant mini domes and Day / Night box cameras (all with NVT built into the heads) were also installed to provide optimum surveillance angles – so that no area was left uncovered.
- All Orbiters are connected via a MAXPRO matrix with images recorded and stored on 14 Fusion DVRs, each with real time live display, thus enabling a quick reaction time when needed.
- Using the FVMS Management Software, security staff are in total control of the information being relayed via the system and can use relevant features of FVMS including : importing of maps, monitoring live video, monitoring alarms, exporting saved video and simple user management to pinpoint areas and activities of concern.
- Access to all ‘non-public’ door entrances is managed by the WIN-PAK system, Honeywell controllers and OmniClass readers. Any emergency exit doors are alarmed and are connected to cameras so that, in the event of a trigger, an alarm notification appears on the WIN-PAK control screen, enabling security staff to identify the location of the alarm and view live images from the camera monitoring that area via the Fusion DVR.

## The Benefits

- The in-store security teams are confident that any criminal activity can continue to be recorded outside of their store resulting in reduced crime and a safer shopping experience for customers.
- The comprehensive CCTV is also used to quickly locate a lost child and shopping centre customer service staff are alerted and take care of the child until he/she is reunited with its parent.

Thanks to the integration of the access control with the CCTV, unauthorised door access has been eliminated and alarm events such as a fire door opening can be responded to quickly and precisely.

### Retail

### Products



16 Channel Fusion Digital Video Recorder



Maxpro Matrix



WIN-PAK™ Access Control



OmniClass™ Readers

Honeywell fully functional dome, mini-dome and True Day/Night box cameras

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## Port of Wilmington - Delaware, US



The Port of Wilmington is one of the busiest import/export gateways on the east coast of North America, handling over 400 vessels per year and nearly 5 million tons of cargo, operating continuously in maritime trade since 1923.

### Customer Needs

- To secure 100% of their perimeter.
- To increase employee safety and prevent potential losses from remote cold-storage warehouses.
- To comply with the Coast Guard's requirements for increased security.

*"Honeywell worked with us until everything was suitable. The system is simple to use and works the way it was intended."*

*Randall Horne, director of engineering & maintenance, port of Wilmington*

## Honeywell Solution

- The wide-area surveillance system consists of special application fixed cameras monitoring the entire perimeter of the port. Honeywell PTZ day/night cameras are also placed along the perimeter for threat interrogation and tracking.
- Integrated with the initial gate security surveillance system, the existing Rapid Eye DVRs were complemented with 4TB of additional video storage utilising the Fusion DVR platform and Video Management Software.
- A complete fiber optic network was placed throughout the port's campus to transmit the cameras' images data back to the video recorders for viewing.



### The Benefits

As a result of the integration, drivers are now able to use the Transportation Worker Identification Credential (TWIC) smart card for both purposes. Upon presenting their card to an iClass smart card reader, the transportation worker's picture pops up for the gate operator to verify, alongside a live video feed from the Rapid Eye camera. If the operator does not get a match, he can override the gate's automatic response.

## Seaports

### Products



Pro-Watch  
Corporate Edition



Fusion &  
Rapid Eye  
DVR Management  
Software



16 Channel Fusion  
Digital  
Video Recorder



Honeywell PTZ  
camera

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