SIEMENS

CCTV

Access
Control

Intruder
detection

Short Guide to
Security Products

Interoperable systems made simple.

A message from the head of Security Products

I would like to thank you for your interest in Security Products from Siemens. This small guide offers a quick reference of our range of products in the cornerstone technologies of Access Control, Intrusion and Video Surveillance. It is also intended to provide an indication of how the products can be applied, with examples of the networking capability of our systems.

My objective is to offer you an attractively priced, professionally supported selection of excellent security products. Excellence plays a key role in our thinking.

At Security Products I have ensured that substantial investment has been made in our customer support systems. My intention is that our products should be available and accessible. They should be supported in the best way possible whether it is through real experts on the end of a telephone or via excellent online information. I am interested in our customers' success.

Customer satisfaction comes from good products properly installed by people who have been suitably trained. I would encourage any customer to look at our training and personal development programmes which are designed to help our customers build on their existing expertise and keep them up to date with developments in technology and trends in the security world.

Security Products has a network of partners and a plan to develop more. Our partner offering is designed for those customers who see the benefits of a longer term business relationship and are prepared to make the investment in training and in a commercial alliance.

I hope you find the contents of this booklet useful as a reminder of Security Products but if you do require further information we will be delighted to help.

Best wishes
Peter Hawksworth

Peter Hawksworth,
Head of
Security Products

Security Products from Siemens – You're safe with us!

About us

The Security Products business segment is part of Siemens Building Technologies and has its headquarters in Solna, Sweden. Our lean structure and short decision making processes enable us to quickly develop and deliver the innovative world-class products and systems our customers need.

The primary focus of the SP business is to develop and deliver cutting-edge access control and intrusion detection products and systems. We also offer a complementary portfolio of video surveillance products and a range of interfaces to third-party equipment. We sell our products and systems via an established and highly trained network of partners around the world.

Our market-leading portfolio of products, systems and interfaces makes it easy for our partners to design and install comprehensive security systems that meet all the requirements of end-customers – large and small, in both the private and public sectors – around the world.

SP has local sales offices in Austria, Czech Republic, Denmark, Finland, France, Germany, Ireland, Italy, Norway, Poland, Portugal, Russia, Spain, Sweden, Switzerland and the UK. Customers outside these countries are served by our international sales team.

Access Control Portfolio Overview

READERS, CARDS AND TAGS

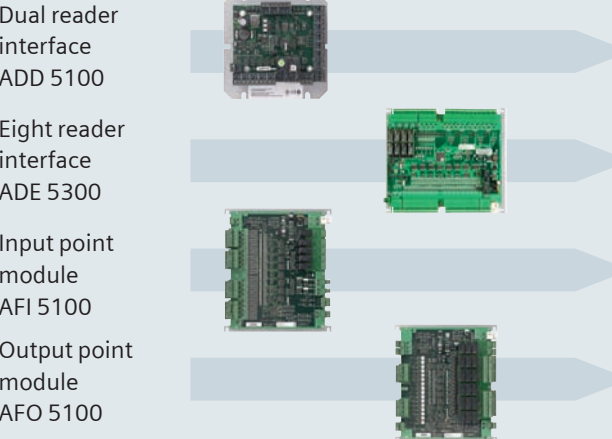These products are available both as readers and as Granta reading heads.

Siemens reader technologies include:
Smart Card 13.56 MHz, Cotag, Proximity 125 kHz and Magnetic Stripe.

SINGLE DOOR PRODUCTS

Codoor   Codelocks

Bewacom

Compact card reader

DC800

CONTROLLERS, DOOR CONTROLLERS AND INPUT/OUTPUT MODULES

Dual reader interface ADD 5100

Eight reader interface ADE 5300

Input point module AFI 5100

Output point module AFO 5100

Advanced central controller (ACC and ACC-Lite)
- Peer-to-peer communication and event management
- 500,000 cardholders per ACC
- ACC has multiple ports with up to 96 doors over 6 field level networks
- Integration to Siemens intrusion systems

CONTROLLERS, READER MODULES AND INPUT/OUTPUT MODULES
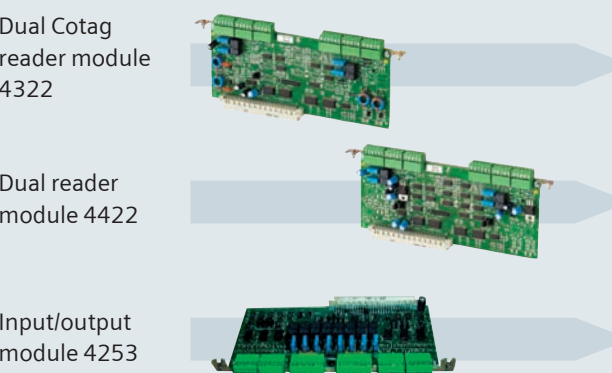
Dual Cotag reader module 4322

Dual reader module 4422

Input/output module 4253

Modular controller
- Up to eight doors per modular controller
- Reading head technology integrated into the controller itself
- Integrated Cotag handsfree technology
- Intelligent monitoring and control of third-party systems via CLIC
- Up to 100,000 cardholders available per controller

CONTROLLERS, DOOR CONTROLLERS AND INPUT/OUTPUT MODULES

Door controller DC12

Door controller DC22

Input/output module IOR6

InfoPoint IP812 Used for reservation

Segment controller
- Up to 16 controllers in one system
- Peer-to-peer communication
- Holds the complete database and can operate independently without a PC or server
- Integration to SISTORE™ digital recording systems from Siemens
- Buffer for 10,000 events

ADVANCED ACCESS CONTROL

SiPass integrated

Main features
- Supports virtually unlimited number of doors and cardholders
- Available in multiple languages
- Highly scalable
- Built-in integration to Siemens intrusion and video surveillance systems
- Automated functionality through event tasks
- Intuitive graphical user interface
- Comprehensive alarm management
- Built-in report generator

Security controller   System administration   Visitor management

- Support of HR and business processes
- Integrated Photo ID
- Support for custom Wiegand card format
- Mifare card encoding
- Online firmware configuration and download
- Salto integration

ADVANCED ACCESS CONTROL

Granta

Main features
- Modular access control for up to 4,096 doors and 100,000 cardholders
- Supports Cotag handsfree technology as well as a broad range of other reading technologies
- Use of reading heads makes system particularly cost efficient
- Available in four core languages
- Customer translatable
- Multi-system management capability
- Easy to integrate with CCTV, intrusion and other systems

Security controller   System administration   Visitor management

STANDARD ACCESS CONTROL

SiPass Entro

Main features
- Software to support up to 512 doors and 40,000 cardholders
- Twelve languages as standard
- 480 access groups and 240 time schedules
- 240 zones with five functions include: alarm control, anti-passback, roll call, entrance limitations and interlock
- 64 reservation objects
- 192 floors elevator control
- Smart and easy integration with up to 16 SISTORE DVRs and 128 cameras

Security controller   System administration   Visitor management

INTEGRATION WITH INTRUSION PRODUCTS

- Improved operational efficiency with centrally managed security and building management systems

INTEGRATION WITH VIDEO SURVEILLANCE PRODUCTS

- Improved out-of-hours security and evidence gathering with alarm triggered video recording

■ Please note that some products may not be available in your country. Contact your sales manager for further information.

Access Control Product Portfolio – Security and accessibility in perfect harmony

Our access control portfolio consists of products and systems that ensure that the right people always have access to the right places at the right times, and the wrong people never do. Our access control systems are also easy to integrate with our intrusion detection and video surveillance systems to create truly interoperable security systems.

While security is of utmost importance, our access control products and systems have also been designed to provide a high level of convenience. As a result, our products are not only robust and reliable, they are also very easy to install, use and maintain. All of our systems are both flexible and scalable, which means it's easy to modify or expand them at any time to meet changing needs.

Whatever the customer's needs might be – from managing access at a single door to overcoming the security challenges of large enterprises with thousands of doors and cardholders – we are confident that our access control portfolio offers the ideal product or system to do the job.

Detection & monitoring

Control level

Alarm transmission and verification

Remote services

Integration

PERIMETER & PERIPHERY SURVEILLANCE

Glass break detectors
Passive and active

ISxxx
External PIR detectors

IMKW6-10
Door / window contact

IS43x
Active IR beams

ROOM & OBJECT SURVEILLANCE

ADM-I12W1
Motion detector (Fresnel lens)

E-Line Motion detectors
Grade 2/3 (Fresnel lens)

IR160W6-10
Motion detector (black mirror)

Ultrasonic detectors
UP3xx
Grades 2/3

GM7xx
Seismic detectors

MAGIC Motion Detector
PDM12-Ixxx

MAGIC Motion Detector
PDM18-Ixxx

ALARMING & SIGNALLING DEVICES

Si2 Way
Outdoor siren

Silent alarms

Wireless detectors and peripherals

Wired detectors and peripherals

SPC SERIES

SPC4XXX/ SPC5XXX/SPC6XXX control units
- 8 to 512 inputs
- Up to 120 wireless inputs
- 6 to 512 outputs
- 4 to 60 partitions with independent settings
- Up to 32 keypads
- Up to 64 '2-year' calendars
- Up to 512 definable users

SPCK42x
Wired LCD keypads with/without integrated card reader or wireless receiver

SPCK62x
Wired LCD comfort keypads with/without audio/ card reader

IRCW6-11
Remote control

System units

SPCExxx/SPCPxxx
System expanders and power supplies

SPCN110
PSTN module

SPCW130
SiWay X-BUS expander

SPCN310
GSM module

SPCW110
SiWay wireless kit

Programming/Maintenance

- Local programming via keypad
- Configuration transfer/back-up with Fast Programmer
- Local or remote programming via PC (SPC Pro software)
- Local or remote programming via onboard web server

Door control

SPCA210
2-door expander

SI SERIES

SI1xx/SI2xx/SI3xx/SI4xx control units
- 6 to 464 inputs
- 5 to 154 outputs
- 3 to 16 partitions with independent settings
- Up to 32 verification zones
- Up to 32 keypads
- Up to 20 "2-year"calendars
- Up to 497 definable users

IRCW6-11
Remote control

SAK84/SAK94
LCD keypads. Add on key switch/ annunciation modules

SAK51/52/53
LCD keypads with 2-line display. With/ without audio

System units

SAT12
Addressable expander

SMN42/SMN43
IP and IP/GSM modules

IEGW6-12
SiWay/Si2Way wireless E-Bus gateway

SML51
PSTN module

Programming/Maintenance

- Local programming via keypad
- Local or remote programming via PC (Sylcom software)

Door control

SiPass card reader (arm/disarm)

SMG71
Addressable card reader gateway (SI4xx panels)

COMMUNICATION METHODS

- **IP**
  - Primary source of communication
  - Alarm transmission
  - Configuration and maintenance
  - Audio/video verification
- **GSM/GPRS**
  - Primary source of communication or
  - Back-up to PSTN communication
  - GPRS back-up to IP communication
  - Alarm transmission
  - Configuration and maintenance
  - SMS alert and control
- **PSTN (analogue telephone networks)**
  - Primary source of communication
  - Back-up to GSM communication
  - Alarm transmission
  - Configuration and maintenance
- **Smartphone application**
  - SPCanywhere

App Store Google play

COMMUNICATION METHODS

- **IP and GSM (GPRS)**
  - SMS alerts
  - Event transmission
  - Remote maintenance over IP (GPRS back-up)
- **PSTN (analogue telephone networks)**
  - Alarm transmission CMS and voice
  - Audio alarm verification
  - Configuration and maintenance
- **ISDN**
  - Alarm transmission CMS and voice
  - Audio alarm verification
  - Configuration and maintenance

AUDIO/VIDEO VERIFICATION

SPCV32x
Adressable 2-way device with speaker/microphone. Audio verification over IP.

IP camera for audio video verification

AUDIO VERIFICATION

WAC12
Addressable 2-way device with speaker/ microphone. Audio verification over PSTN/ISDN.

ALARM MANAGEMENT

- Connection to Central Monitoring Station (CMS) over IP and GSM (GPRS)
- Alarm notification and verification (audio, video) over IP
- Alarm notification over PSTN
- Alarm notification via SMS event messages

REMOTE PROGRAMMING & MAINTENANCE

- Store and retrieve controller data via SPC Pro, SPC Fast Programmer or Web server
- Off-site pre-configuration
- On-site or remote firmware upgrades
- Full access to security and maintenance functions via the on-board Web server or a PC with SPC Pro

ALARM MANAGEMENT

- Alarm notification and verification (audio) over PSTN and ISDN
- Alarm notification via SMS event messages
- Voice announcements to designated individuals (incl. audio verification)
- Redundant connection via IP and GSM (GPRS)

REMOTE PROGRAMMING & MAINTENANCE

- Configuration and maintenance over PSTN, ISDN and IP
- Off-site pre-configuration
- Parameter and service events server
- Full access to security and maintenance functions via a PC with Sylcom

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INTEGRATION WITH ACCESS PRODUCTS

- Improved operational efficiency with centrally managed security and building management systems

INTEGRATION WITH VIDEO SURVEILLANCE PRODUCTS

- Improved out-of-hours security and evidence gathering with alarm triggered video recording

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Video Surveillance Portfolio Overview

Intrusion Detection Product Portfolio – For superior detection and high false alarm immunity

Our intrusion detection portfolio consists of systems and devices for detection & monitoring, control & operation, alarm transmission, alarm verification and remote services.

Both our Sintony and SPC controllers and their wide range of system components such as keypads and expanders provide installers and end users with unmatched flexibility and scalability. They also offer a cost-effective design and installation concept. The innovative technology behind our wired and wireless detectors and contacts for perim-

eter and periphery surveillance, room surveillance and object surveillance, as well as our alarming & signaling devices, provide superior immunity and high detection reliability. Furthermore SPC is offering full remote access to security and maintenance functions via the onboard Web server or a PC with SPC Pro and multipass communication.

Siemens' intrusion detection products and systems are designed with both installer and end-user requirements in mind. Easy integration with our SiPass integrated access control system ensures that full interoperability is built in as standard.

Field level

Control level

Software management level

Integration

ANALOGUE CAMERAS

Fixed dome with IR	Day-night camera	Day-night camera
Auto focus camera	Vandal resistant auto focus fixed dome	Vandal resistant varifocal dome
Fixed varifocal dome	Speed dome	Weatherproof housing
Pan-tilt heads	Telemetry receiver driver for pan-tilt heads	Infrared lighting

IP CAMERAS

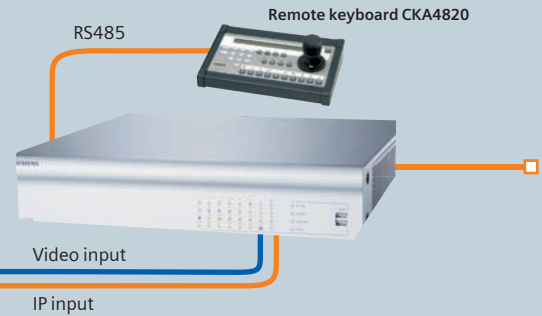| IP box camera | IP Fixed Dome | Compact camera |
| IP PTZ Dome | Vandal resistant IP fixed dome | |

ANALOGUE CAMERA TRANSMISSION

SIMATRIX NEO
- Expandable up to 224 video inputs
- 32 video outputs
- Modular and scalable system
- Simultaneous multi-protocol-telemetry
- Ethernet connection
- IVM interface

Max 256 alarm inputs
RS232
Video input
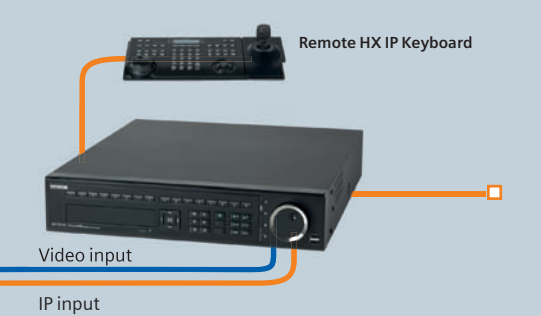
ANALOGUE CAMERA RECORDING

Remote keyboard CKA4820

SISTORE AX
- 4/8/16 video inputs
- Up to 400 ips 4CIF
- Up to 4 audio channel inputs
- H.264 capability
- PTZ control
- IVM connection
- Export via DVD writer

Video input

SINGLE CAMERA IP ENCODER

CNE1000 IP Encoder
- 1 channel 4CIF, 25 ips
- MJPEG, MPEG4, H.264

Video input

MULTIPLE CAMERA IP ENCODER / DECODER

SISTORE CX
- Real-time video codec
- 4/8 analog video inputs
- Up to 200 ips 4CIF
- 1/2 IP camera inputs
- 2/4 monitor outputs
- PTZ control
- IVM connection

Video input
IP input

HYBRID VIDEO RECORDER

RS485
Remote keyboard CKA4820

SISTORE MX 3G
Hybrid video recorder
- 8–32 analog video inputs
- Up to 400 ips 4CIF for analog
- Up to 32 IP camera inputs
- Up to 100 ips 4CIF for IP
- Direct streaming of IP cameras
- Up to 8 video monitor outputs
- 16 audio channel inputs
- Up to 4 audio channel outputs
- PTZ control, IVM connection
- Export via DVD writer

Video input
IP input

MONITORING AND CONTROL

Remote HX IP Keyboard

Vectis HX
- Hybrid technology
- Full HD resolution
- H.264 compression
- Remote access via Siemens RAS, Internet or Smartphone
- ONVIF2 compatibility
- High resolution up to 2 megapixels per IP camera
- Integration of VSS_SDK interface

Video input
IP input

IP CAMERA RECORDING

RS485
Remote keyboard CKA4820

SISTORE MX IPVR
IP Hybrid video recorder
- Up to 32 IP camera inputs
- Up to 800 ips 4CIF for IP
- Direct streaming of IP cameras to MX client
- Up to 4 video monitor outputs
- 16 audio channel inputs
- Up to 4 audio channel outputs
- PTZ control
- IVM connection

IP input

IP CAMERA RECORDING (SOFTWARE ONLY)

SISTORE MX NVS /
Vectis HX NVS
IP camera recording software
- 4 to 64 / 8 to 64 IP camera inputs
- Megapixel recording up to 5 MP
- Direct streaming of IP cameras to client
- PTZ control
- IVM connection

IP input
IP input

SIEMENS RAS REMOTE VIEWING OPTIONS

SISTORE AX / Vectis HX RAS
licence-free remote administration software. Can retrieve and view images from one or more remote workstations. Can also be remotely accessed via a standard Web browser.

SISTORE AX / Vectis HX I RAS
SISTORE AX / Vectis HX I-RAS allows you to access remote sites and monitor live video via network connection, anytime, anywhere using your iPhone or iPod Touch.

App Store Google play

EMBEDDED REAL-TIME VIDEO ANALYSIS

SISTORE CX EDS
Outdoor motion detection and tracking

SISTORE CX ODR
Detection of abandoned or removed objects
Up to 8 surveillance channels

Video output
LAN
Video input

SISTORE MX REMOTEVIEW SOFTWARE

SISTORE MX RemoteView
the remote viewing software provides a direct link to allow immediate access to images over the network, or send SMS and if required an e-mail. This included RemoteView software can also perform a "site-tour" – automatically connecting and disconnecting to predefined remote sites allowing the operator to simply sit back and watch the tour on the monitor.

INTEGRATION WITH ACCESS PRODUCTS

- Improved operational efficiency with centrally managed security and building management systems

INTEGRATION WITH INTRUSION PRODUCTS

- Improved out-of-hours security and evidence gathering with alarm triggered video recording

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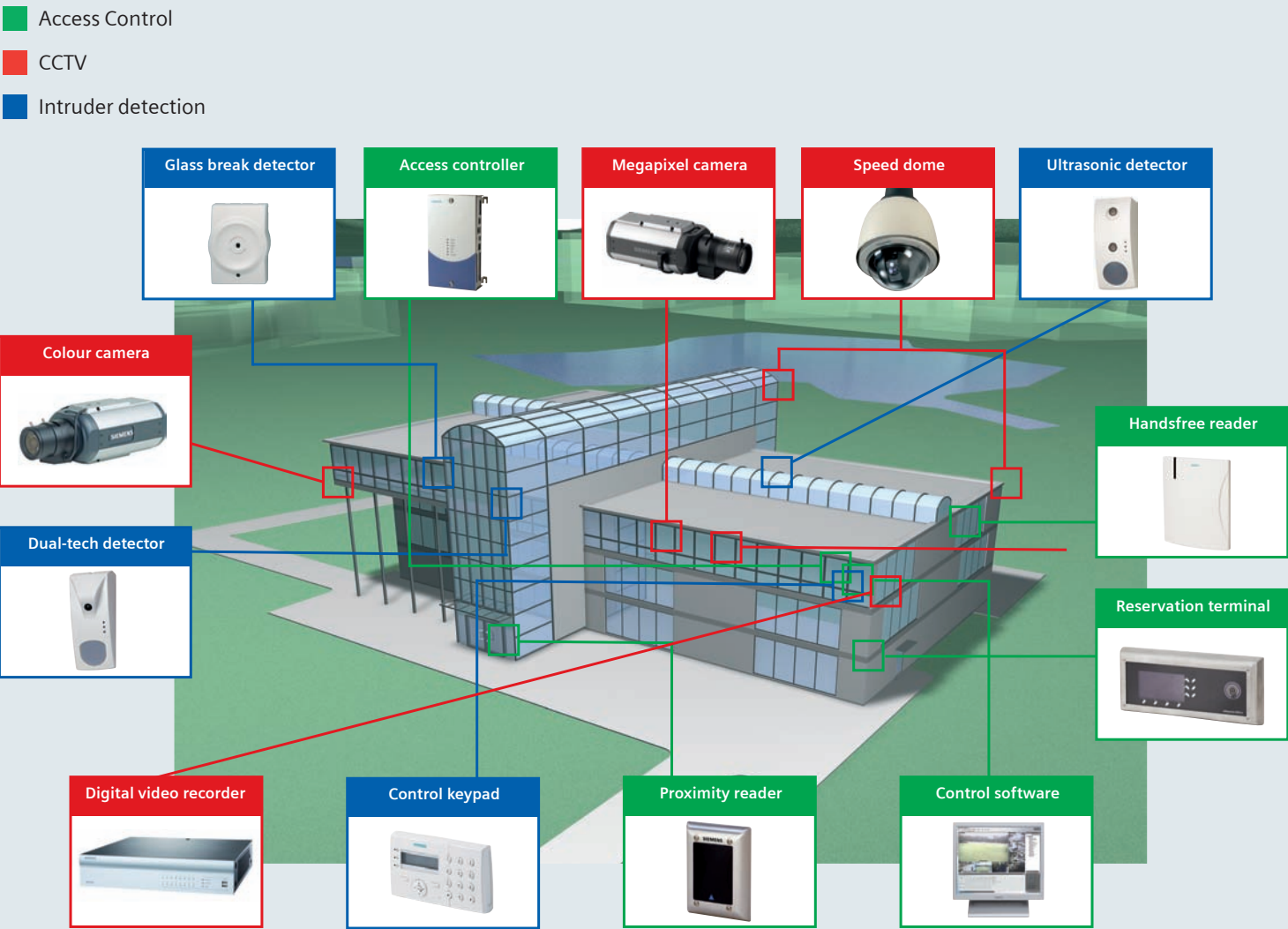# Video Surveillance Product Portfolio – Full visibility around the clock

Our video surveillance portfolio is designed to complement our access control and intrusion detection portfolios. It consists of dome and bodied cameras (both with IP variants), lenses, digital video management systems, matrix systems, pan & tilt heads, housings and accessories. As with all Siemens products, the latest manufacturing techniques are used to produce video surveillance equipment of exceptional quality.

Siemens' video surveillance products and systems are designed with both installer and end-user requirements in mind. Easy integration with our SiPass integrated and SiPass Entro access control systems ensures that full interoperability is built in as standard. In addition to this, remote access via internet or smart phones is easily achieved to ensure you are always in control, even when you are on the move.

Interoperable security systems

Electronic security systems from Siemens have inherent interoperability capability, meaning that regardless of the system size, the components can interact and be controlled from one central point at all times. So regardless of the business application, everybody can benefit from a centralised security management which focusses on their specific risks and priorities.

- 🟩 Access Control
- 🟥 CCTV
- 🟦 Intruder detection

Glass break detector · Access controller · Megapixel camera · Speed dome · Ultrasonic detector

Colour camera

Handsfree reader

Dual-tech detector

Reservation terminal

Digital video recorder · Control keypad · Proximity reader · Control software

Wind turbine manufacturing

Siemens installed a comprehensive and fully interoperable security system for a wind turbine and blades manufacturer in the south of Spain, whose primary objective is to generate a type of sustainable energy that benefits both society and its stakeholders. The security system supplied by Siemens was effectively a turnkey solution that manages security in the wind turbine plant from a single control room (supported by a back-up secondary control room). The comprehensive security system sits on its own dedicated network, and is fully interoperable with SiPass access control, Intrunet intruder alarm and SISTORE video surveillance systems working together to provide a centralised management of complete sequences of events.

Österreichische Post AG

The importance of interoperability for organisations with a large number of satellite operations has been demonstrated by a project in which Siemens Building Technologies has supplied a managed security system for some 1310 post offices throughout Austria. The system was supplied to Österreichische Post AG, based on their requirements for a robust, reliable and easily monitored security system. By using the existing LAN network, Siemens were able to provide a solution which combined intrusion detection and video surveillance for each Post Office, with the system reporting back to the Siemens control centre located in Nuremberg, Germany.

George Pappas Automobil

Georg Pappas Automobil AG in Salzburg, Austria, established its new HQ to accommodate a remarkable display of famous classic cars and to provide a wide range of automotive services to its customers. As a result, an optimum fire and security system with the flexibility to monitor from a single control point was required. The solution from Siemens was a system comprising access control, intrusion detection, video surveillance, fire detection, fire protection and extinguishing, and audio evacuation, all controlled from the building's security control centre.

Great Ormond Street

Great Ormond Street treats over 90,000 patients each year for some of the rarest and most complex conditions. It is a high pressure environment, with a heavy and constant throughput of staff, patients and visitors. As a result, it required a system that could cope with this wide variety of users, including a high number of visitors, and yet be so convenient to use that it did not interfere with the day-to-day functioning of this unique medical facility.
In choosing an access control system, the hospital was also looking to the future. Pending modification of the hospitals existing IT systems, it needed visitor ID cards that could also be used to facilitate cashless vending throughout the building, enabling patients and visitors to use their ID to purchase, for example, phone calls and refreshments.

East Midlands Ambulance Service, UK

East Midlands Ambulance Service was one of Siemens largest SiPass Entro sites in the UK, consisting of over 5000 cards and 210 doors. Thanks to the systems built in migration, EMAS has now been upgraded to Siemens SiPass integrated access control platform with no redundancy of hardware. The large Ambulance service, split over 41 separate ambulance depots, boasts an impressive SiPass system that secures three separate counties through the networked system. Originally chose for its scalability, SiPass Entro has proven a very effective access control solution for the Ambulance Trust, but with additional sites coming online they decided it was time to upgrade the system to allow for further future expansion, hence the migration to SiPass integrated.

Answers for infrastructure.
Our world is undergoing changes that force us to think in new ways: demographic change, urbanization, global warming, and resource shortages. Maximum efficiency has top priority – and not only where energy is concerned. In addition, we need to increase comfort for the well-being of users. Also, our need for safety and security is constantly growing. For our customers, success is defined by how well they manage these challenges. Siemens has the answers.

"We are the preferred partner for energy-efficient, safe, and secure buildings and infrastructure."

www.siemens.com/securityproducts