Security Management

TKH GROUP

TKH SECURITY SOLUTIONS

Innovators in Security

Integrated Solutions

Security
Management

Intrusion
Detection

Video
Surveillance

Access
Control

TKH Security Solutions

Solutions you can trust. A partner you can count on. TKH Security Solutions gives you peace of mind through complete security systems that meet your needs.

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iProtect

An integrated approach

Customers interested in an electronic security system often run into the same kinds of problems. Whether it is about access management, intrusion detection, or video surveillance, one issue that continually arises is having to create a system from separate components. Such a fragmented approach often results in an inefficient and expensive security management system.

An iProtect Security Management System brings all the modules and components together on a common platform. The uniform user interface gives security staff convenient control over all the functions and tasks required to maintain safety and secure property. Straightforward operation for various user groups ensures effective and efficient results.

iProtect offers a highly reliable and fully integrated security management system that includes:

- Access control
- Video surveillance
- Intrusion detection
- Parking management
- Intercom communications
- Time registration

iProtect is Web-based, which removes the need to install client software locally and results in cost savings. Moreover, system administration can be carried out from any workstation, anywhere in the world.

Key features

1. Event driven
2. Secure communication (SSL)
3. Innovative
4. Buffered transactions
5. Multi-site application
6. (Wireless) online communication
7. IP-based solution
8. Web-based

Key functionalities

1. Visitor registration
2. Distributed alarm handler
3. Interactive key map
4. Open standards for enhanced flexibility
5. Management reports
6. Business intelligence
7. Seamless integration with third-party devices

Integrated Security Management

Access Control
Online, Wireless online and Offline access control

Video Surveillance
The integration with the other iProtect modules guarantees that in transaction overviews the correct video images are displayed

Intrusion Detection
Alarms will be reported immediately to the security management system

Intercom
Easy operation, for the public and security personnel combined with very high speech quality ensure effective results

Parking Management
iProtect is extremely well suited for use with shared commercial buildings and paid parking

Time and Attendance
Gives you detailed information about the work hours accounted for by employees

1. Access Control
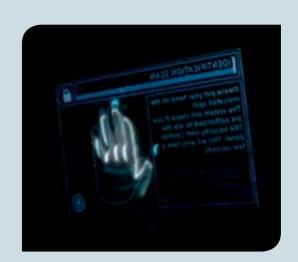
TKH Security Solutions ensures reliable and scalable access control systems through automatic visitor registration, attendance reports, and verifiable entrance badges.

- **Online card readers**
- **Wireless online**
- **Offline cylinders and electronic escutcheons**
- **Pincode readers**

Why Access Control?

An access control system helps you determine and maintain the necessary level of security for your facilities. This entails assessing who is allowed to enter specified areas, at which times, and from where. With varying requirements for different buildings and situations, TKH Security Solutions provides an extensive collection of integrated card readers and technologies to use with iProtect to ensure you implement the right access control system for your particular project.

Key features

1. **Easy installation**
2. **PoE+**
3. **End-to-End security**
4. **NFC compatible**
5. **Key badge printing**

Sirius card readers
Innovative range of card readers

Polyx
Intelligent network controller

Wireless online
Full range of electronic escutcheons and cylinders

MAS
Mechnical Access Solutions, such as locks and door automatics

Benefits iProtect

iProtect centralizes access control into a single security management system. With integrated online card readers, wireless online and offline cylinders, and electronic escutcheons, the daily maintenance of the readers, authorizations, events, and reports is carried out from one system and accessible to anyone anywhere on the network. The access control devices from iProtect contain components that are compatible with ISO 14443A standards and include a wide range of mainstream RFID brands, such as DES-Fire, DESFireEV1, Mifare, and Mifare Plus. When used together with the Polyx Network Controller, communication between card readers and the central server takes place primarily over IP. As a result of the unique and encrypted communication between field components, there are substantial savings on cables and installation costs. This guarantees a watertight access control system for every situation, from everyday management to proactive reaction during actual and critical incidents.

2. Video Surveillance

Video surveillance from TKH Security Solutions allows users to effectively assess situations and react to incidents from remote locations. Reputed for quality and reliability, our IP cameras, codecs, and recording solutions integrate proven video content analysis techniques with the latest streaming methods.

- Scalable
- Modular architecture
- VCA
- Number Plate recognition
- Centralized user management

Why Video Surveillance?

All our equipment is customizable and based on open standards, thereby simplifying integration and installation. Our video surveillance systems guarantee total oversight and efficient management in addition to promising the best possible solution for the actual task at hand.

Key features

1 Scalable and modular architecture

2 Support of graphical maps

3 Number plate recognition

4 VCA

5 Centralized user management

6 Automatic switch to failover server(s)

7 Fully customizable user interface

8 Straightforward video delegation

9 User-driven video wall adjustments just a click away

Benefits iProtect

Video surveillance is simplified and centralized through the iProtect Security Management System. Within seconds, video from preconfigured and event-triggered camera scenes can display on a video wall, ensuring swift and appropriate action, for example, if someone uses a stolen entry card, an intruder alarm goes off, or a verification request is sent.
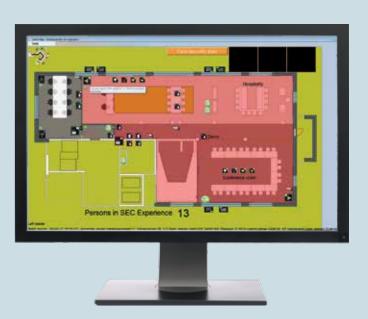
3. Intrusion Detection

The intrusion detection system from TKH Security Solutions is one of the first security alarm systems with an integrated IP dialer, providing more flexibility while reducing costs. The daily maintenance of all the different panels, events, alarms, and reports is carried out through the central iProtect Security Management Solution.

Integration with other network components can prevent false alarms, and intrusion reports are verified immediately with live and/ or historical video streams upon each event.

Why Intrusion Detection?

The intrusion system has a hybrid design, allowing for the use of both wired and wireless detectors. By connecting wireless expansion modules, users can integrate wireless detectors into the system.

Key features

1 Easy installation

2 Simple operation

3 16-616 zones, wired or wireless

4 32 sections, 40 keypads, 500 user codes

5 Full range of sensors and detectors

Benefits iProtect

Alarms can be reported immediately to the security management system. It is also possible to transmit alarms via the analog network using an optional PSTN dialer. In high-risk installations, a backup transmission channel can be used by connecting an optional GPRS backup dialer.

iProtect creates an alarm group based on a collection of points for a specific group of people. These alarm groups can be bundledand simultaneously switched on and off. An interactive floor plan provides a visual overview of these alarm groups and their corresponding parameters.

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4. Intercom

The intercom systems from TKH Security Solutions are among the best in the world, featuring signature professional design, a long lifes, innovative solutions, and excellent sound quality.

With the integration of intercom into the iProtect Security Management System, all modules and components are brought together on a common platform. Easy operation, both for the public and security personnel, and excellent speech quality ensure effective results.

Why Intercom?

TKH Security Solutions provides complete and customized intercom systems that bring you and the person you need to talk to within one click of a button of each other. Whether in a hospital, factory, metro system, prison, or other infrastructure, your intercom system from TKH Security Solutions gets you through to the people and services you require the moment you need them.

Key features

1 IP-based

2 Easy installation

3 Excellent speech quality

4 Simple operation

5 Pre-programmed scenarios available

6 Evidential recording and documentation

7 Flexible call transfers

8 Special Intercom stations for mobile personnel

9 Disinfectant-resistant intercom stations

10 Local and main control rooms

Benefits iProtect

The iProtect Security Management System integrates intercom, audio, video, monitoring, and control functions. This centralizes the system to allow operators from a control room to easily:

• Open doors, gates, and barriers after access verification via the intercom station
• Handle intercom stations for lifts
• View integrated video streams from intercom stations

The interactive map in iProtect shows the location of a call, and in the event that no one is on site, the call can be forwarded, for example, to a mobile phone.

A pop-up alerts operators when receives a request for access is made. Access can be granted after visual and voice verification.

5. Parking Management

The iProtect Security Management System offers extensive parking management module that is extremely well suited for use in shared commercial buildings. Parking management with iProtect enables the allocation of sections of the parking lot to specified users and allows the introduction of paid parking with or without a ticket machine.

- **Payment Machines**
- **Barriers**
- **POS**
- **Entries and exits**

Why Parking Management?

iProtect can be developed into a full-fledged Web-based security management system to effectively manage your parking application. Parking applications call for their own specific approach, design, and management technique. The versatile software and modular structure of the iProtect Parking Management Solution is designed to cover all forms of parkingallowing you to tailor your system to your particular project requirements.

Benefits iProtect

The iProtect system features a wide range of payment methods, including coins, banknotes, bank card, credit card, and debit card. The payment terminal supports one or more of these payment methods simultaneously. The basic module alone features flexible rate structure that facilitates linear, degressive, and progressive payment methods, as well as a random combination thereof. The coin and banknote safes are self-locking and their removal is registered with an ID card.

Company parking does not usually feature charges, but it does allocate parking spaces as efficiently as possible as parking space is often limited.

Key features

1 IP based

2 Simple operation

3 Management reports and statistics

4 Number Plate Recognition

5 Reservations and tickets

6. Time and Attendance

Hour registration

An increasing number of organizations are implementing electronic time and attendance. Hour registration is sometimes sufficient; that is, an employee's time of arrival and departure are recorded each day, and the intervening period is simply viewed as time worked. If necessary, a fixed break can be deducted from the calculated time.

However, some companies require more information, for instance, if they want to incorporate collective labor agreements or company regulations into the system. This ultimately provides a complete overview of the way employees spend their time at work.

- **Integrated in iProtect**
- **Individual "My iProtect" portals**

Key features

1 IP based

2 Interfaces with HRM databases

3 Management reports

4 Consultancy

5 Implementation of collective labor agreements

Why Time and Attendance?

The time registration module documents the hours in which an individual is present at the workplace. Start and end times are recorded and the hours absent are specified. This gives employers detailed information about the working hours of employees. The time registration module can easily deal with a number of different collective labor agreements and varying shifts. Hourly contracts can also be taken into account, such as part-time and full-time employees. The time registration system is able to process data from a staff information system.

Benefits iProtect

The time and attendance module from iProtect provides a complete overview for both employees and employers of how working hours are spent. By incorporating diverse working conditions into the system, such as variable working hours or collective labor agreements, iProtect gives companies the information they need to streamline the overall performance of the organization.

iProtect Licenses

TKH Security Solutions offers three different basic licenses with the iProtect Security Management System:

- Small Business
- Medium Business
- Large Business

Each license is characterized by the number of ID card readers possible for concurrent users, as well as optional connections and functionalities.

Standard and optional features are available with each license. iProtect can also be customized to meet project requirements.

	Small Business			Medium Business			Large Business		
		default modules	extendable up to		default modules	extendable up to		default modules	extendable up to
iProtect – Basic modules									
Access authorization, max. nr of ID card readers online*	✔	8	32*	✔	16	80*	✔	32	>*
Access authorization, max. nr of ID card readers offline*	○	0	32*	○	0	80*	✔	0	>*
Video surveillance, Max. number of cameras	✔	4	4	✔	4	4	✔	4	4
Video surveillance, Max. number of servers	○	0	0	○	0	2	○	○	>
Intrusion detection, Number of servers	○	0	1	✔	0	2	○	○	>
Intercom, Number of servers	○	0	1	○	0	4	○	0	16
Parking management, Number of terminals				○	0	32	○	0	>
Time and attendance, Number of employees				○	0	1000	○	0	4000
iProtect – Add-on modules									
Number of simultaneous operating users	✔	2	4	✔	4	12	✔	4	60
Number of intelligent controller ND	✔	1	8	✔	1	40	✔	1	>
Number of ID cards	✔	500	2500	✔	1000	5000	✔	2000	>
Number of programmable processes	✔	40	40	✔	64	128	✔	64	>
License plate recognition	○			○			○		
ID card production (key badge)	○			○			○		
Company parking	○			○			○		
Parking against fee	○			○			○		
Residential parking				○			○		
Validation node				○	0	16	○	0	32
Management cockpit				○			○		
POS terminal				○			○		
Cold Stand-by				○			○		
iProtect – Functionalities									
KeyMap (interactive floor plans)	✔	1	6	✔	5	15	✔	10	3200
Visitor management	○			✔			✔		
My iProtect	○	0	8	✔	8	32	✔	8	256
Logical circuits	○			○			✔		
E-mail support				○			✔		
Auditing				○			✔		
Group for hardware reports				○			✔		
Horizontal database separation				○			✔		
Distributed alarms				○			✔		
Info box				○	0	8	○	0	256
Control room functionality				○	0	4	○	0	>

* Max. number counts for online and offline together

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Conclusion

Central hardware and software

Based on a risk analysis, iProtect users can determine whether they need a standard or redundant server and select the appropriate software license.

According to the size of the system, the requested functionalities, and number of connections, future system upgrades are possible.

In-house development

TKH Security Solutions develops its own hardware and software in house. Owing to our many years of expertise in the security field, we can support iProtect users with expert advice. Our user support is twofold.

TKH Security Solutions guarantees your success through integrated, strategic, and market-specific solutions. With 40 years of experience in security management, we are industry experts. We are committed to improving public safety and mobility through high-quality, reliable, and innovative security systems.

TKH Security Solutions is committed to innovation and is always in search of technological breakthroughs. The result for security management is iProtect.

Services of TKH Security Solutions

We are able to assist in system design as well as provide technical guidance during deployment. We can also provide training and consultancy relating to the use of the system.

iProtect

TKH Security Solutions has sales and support offices across the globe. Wherever you are, we are ready to help you get the best security system for your specific situation. Please contact your local representative if you have any questions or inquiries.

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