



Intelligent Security Management System



Innovators in Security



iProtect™ Aurora:

How to manage your security technologies with one security system only

Security systems are mostly presented as individual solutions

Users who prefer electronic security systems will often have to select separate system solutions. Whether this involves access control, intrusion detection or camera surveillance; from an organisational point of view for a company these are all the same type of security issues. Because of this fragmented approach users are often confronted with inefficient and expensive security management.

End to end security

Given the fact that security systems currently form an integral part of the ICT network, data flow security needs to be optimized. With an access control system, the data flow starts with the reading of the smart card, and ends at the web client, which is where the system is controlled. Securing applications from the source to the end point is called "end to end security". Hackers are not able to manipulate this security system. In combination with DESFire smartcard and with the new generation of card readers, you can be sure that your security management system is optimally protected.

Complete and location-independent

iProtect™ Aurora offers the perfect solution for a very reliable and fully integrated security management. This is achieved by the integrated management of access control, camera surveillance, intrusion detection, time and attendance, parking management, intercom, and people protection. iProtect™ Aurora is "web based", i. e. all views can be displayed (in HTML) via Internet Browser. This means that no viewer software must be locally installed resulting in considerable cost reduction for the customer. At the same time, the use of iProtect™ via Internet is completely location-independent. Even administration is possible from any workstation worldwide.

End to end security

iProtect™ Aurora offers comprehensive security for:

- > Access control
- > Camera surveillance
- > Intrusion detection
- > Time and attendance
- > Parking management
- > Intercom
- > People protection



High-End Security Management

The safe workstation

The complete data transfer between the iProtect™ Aurora system hub and the workstations is SSL (secure socket layer) encrypted. The success of a possible hacker attack is reduced to a minimum by this standard for secure transmission via Internet. The most secure Internet sites, e.g. Internet banking, e-Commerce, and Internet shops are using SSL. iProtect™ Aurora offers the function "My iProtect" so that each employee can design his/her own user surface.

Multi-site applications

iProtect™ Aurora is extremely well suited for multi-site applications; several offices or branches can be managed centrally using just one iProtect™ Aurora system. Thanks to the use of TCP/IP communication, practically every connection between the various locations is possible: the possibilities range from LAN to WAN and include the use of ADSL, ISDN and UMTS.

Integrated intelligent video analysis

Unique report generator

Good reporting is essential. iProtect™ Aurora offers extensive possibilities. With assistance of our report generator, reports can easily be created and presented in a clear and well-organised style. The PDF format makes the reports easy to save, and they can be filed, printed or e-mailed later as required.

Buffering

It is not acceptable to use a system, which can not ensure that transactions are not lost during its application. This is why the Polyx network controller provides 100% certainty that the buffered transactions actually reach the exchange. Also the Polyx has a facility for connecting an emergency power battery so that under all circumstances operational reliability is guaranteed.

Individual user interface for employees

PoE/PoE+

Power over Ethernet, in short PoE, transmits power and data in the network over a standard UTP cable. In networks, this technology is used to supply active network components with power. In our security concepts, these are video cameras and network controller (and from here, card readers and locks).



Modular Security System

Access authorization

Extensive access management for up to 100,00 users. Besides a wide range of online cardreaders; wireless online and offline cylinders and electronic escutcheons have also been integrated into iProtect™ Aurora. The standard performance characteristics include: attendance registration, I/O management, alarm triggering, interactive site plans and visitor management. The integration of the iProtect™ Keybadge software module is optional; with this module cards can be personalised in-company with a passport photo, logo and texts. The Polyx network controller communicates between the card readers and the central server mainly via IP. Because of the unique and encrypted communication between these field components, there are substantial savings on cables and installation costs and the "end to end security" concept applied by TKH Security Solutions is easily realised. Furthermore, because of the way the Polyx has been designed, TKH Security can also focus on the energy consumption. The Polyx has an energy consumption of 1.5W, which is definitely a very low energy consumption.

Online, wireless online and offline access control

Camera surveillance

A further option we provide is the configuration of a camera observation and registration system, fully IP based. The images produced by the cameras are permanently displayed at the reception desk. From here, access can be given by means of sight control or via licence plate recognition. This is only one of many functionalities iProtect™ Aurora offers. Complete

integration into other iProtect™ Aurora modules guarantees that for example correct video images of the surveillance cameras are displayed for transaction overviews. Within a few seconds, camera images of specific events are available when for example a stolen ID card was used, burglar alarm triggered, or a request for verification is made.

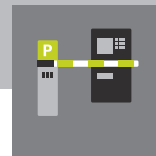
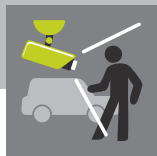
Intrusion detection

This module administers one or more intrusion alarm control units. Integration with access control, among other functionalities, can prevent false alarms and intrusion reports are verified immediately with video upon each event (transaction). iProtect™ Aurora can combine an alarm group that is based on various alarm points for a specific group of people. These alarm groups can also be bundled into a collection that can be collectively switched on and off. The different alarm points and groups, in combination with the corresponding status, can be visualised on the interactive floor plan.

Alarm management for all system areas

People protection

With its people protection module, iProtect™ Aurora guarantees correct alarm recording. Due to active tags, iProtect™ Aurora can tell exactly which persons are staying in certain areas and in case alarm is triggered, iProtect™ Aurora can activate corresponding processes (for example camera switching) and furnish appropriate reports.



Intercom

The iProtect™ Aurora intercom module forms integral part of the security concepts provided by TKH Security Solutions. Intercom calls are combined with correct camera images, and the user can switch (toggle) between different call requests. The locations of different intercom stations are visualised in an interactive floor plan and all intercom events are fully integrated in iProtect™ Aurora alarm handling.

Your partner in the field of all IP security solutions

Parking management

This module is excellently suited for the management of company parking areas. These parking areas can also be divided into blocks. Therefore, the system can be used for buildings where several companies are sharing one parking facility. The parking places used are allocated to individual companies. In addition, the module offers 'paid access', the option of introducing paid parking in your car park, with or without a ticket machine.

Intercom with 16 kHz bandwidth

Time and attendance

The time registration module is used to register the hours. Start and end times are recorded and the hours absent are specified. This gives you detailed information about the work hours accounted for by employees. The time registration module can easily

deal with a number of different collective labour agreements and different shifts. The different hourly employee contracts are also taken into account (0 hours, part timers and full timers). The time registration system is able to process data from a staff information system. The system can also be combined with data from the HR information system.

Power over Ethernet

Open standards provide for flexibility

iProtect™ Aurora is very flexible at handling connections to third applications. The system has been developed with regard to open interfaces. Standards like TCP/IP JDBC, JSP, and XML guarantee that also databases of other systems e.g. HR information systems, building management systems, etc. can be linked.

In-house development

A company-own team of more than 20 developers ensures that hard and software come up to our expectations. Thanks to many years of experience, we can provide users of iProtect™ Aurora with practical advice. Assistance during the project planning and installing stages as well as support for start-up are self-evident. In addition, we also offer training concepts and advise regarding already installed systems.



Customized Security Concepts

TKH Security Solutions offers security concepts of the iProtect™ Aurora Security Management System with three different basic licences:

- Small Business
- Medium Business
- Large Business

Advantages

The licence structure of the iProtect™ Aurora Security Management System offers a clear overview of different standards and optional possibilities.

These three standard licences are each characterized by their individual combination possibilities within the security system, the number of ID card readers, the number of possible concurrent users, and optional connections and functionalities.

For each licence, the overview shows available standard and optional features. Herewith, a customized iProtect™ Aurora is available.



Central hard- and software

The central iProtect™ Server, the basic licence, add-on modules as well as optional functionalities can be separately configured.

Based on a risk analysis, previously conducted, users of the iProtect™ System can decide on a standard or redundant server. By means of a simple configurator, the required iProtect™ Aurora basic licence will be determined. According to the size of the system, and the requested functionalities and connections, the system will be further developed. Further up-grades of the system will be considered.

Possible connections

By means of our JDBC toolkit, even third party systems can be connected to the iProtect™ Aurora Security Management System. For example: GALAXY, ATS, or LDAP.

TKH Security Solutions also provides support with more complex connections in form of personal consulting. This way, requests, demands, and approaches will be discussed and specified.

small business



Market segments for small enterprises

Office buildings

School buildings

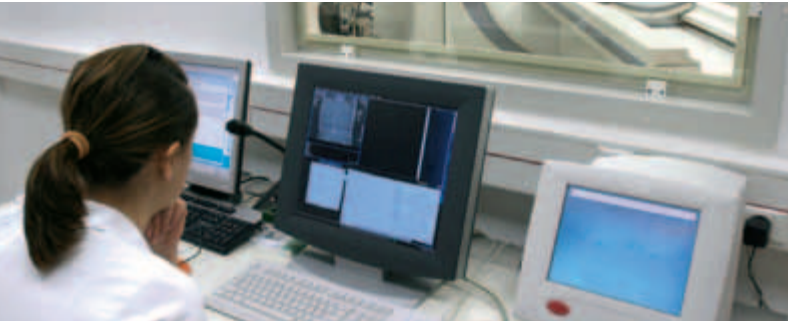
Municipal administration buildings

Recreation areas

Small companies

> iProtect™ Aurora – Small business

The basic licence “small business” consists of a comprehensive concept in form of access authorization, camera surveillance, and intrusion detection. This basic licence is provided with a plain intercom module, basic modules for access authorization, camera surveillance, and intrusion detection. Add-on options are covering the most interesting areas of application.



iProtect™ Aurora – Basic Modules

- iProtect™ Aurora Access authorization, Max. number of ID card readers online
- iProtect™ Aurora Camera Surveillance, Max. number of cameras in iProtect™
- iProtect™ Aurora Intrusion detection, Number of panels
- iProtect™ Aurora Intercom, Number of control centres

iProtect™ Aurora – Add-On Modules

- Module iProtect™ Aurora, Number of simultaneous operating users
- Module iProtect™ Aurora, Number of intelligent controllers ND+
- Module iProtect™ Aurora, Number of ID cards
- Module iProtect™ Aurora, Number of programmable processes
- Module iProtect™ Aurora, Licence plate recognition
- Module iProtect™ Aurora, ID card production
- Module iProtect™ Aurora, Company parking
- Module iProtect™ Aurora, Parking against fee

iProtect™ Aurora – Functionalities

- Functionality iProtect™ Aurora, KeyMap (interactive floor plans)
- Functionality iProtect™ Aurora, Visitor management
- Functionality iProtect™ Aurora, My iProtect
- Functionality iProtect™ Aurora, Logical circuits

	Default modules	
		extendable up to
<input checked="" type="checkbox"/>	8	32
<input checked="" type="checkbox"/>	4	4
<input checked="" type="checkbox"/>	1	1
<input type="checkbox"/>	0	1
<input checked="" type="checkbox"/>	2	4
<input checked="" type="checkbox"/>	1	8
<input checked="" type="checkbox"/>	500	2500
<input checked="" type="checkbox"/>	40	40
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input checked="" type="checkbox"/>	1	6
<input type="checkbox"/>		
<input type="checkbox"/>	0	8
<input type="checkbox"/>		

○ = Options

✗ = Default modules

medium business



Market segments for medium-sized enterprises

Health care

Industry

Government buildings

Social housing

Transport and logistics

> iProtect™ Aurora – Medium business

The licence “medium business” consists of access authorization, camera surveillance, and intrusion detection. This basic licence is provided with an extended intercom module, personal monitoring, parking management, time and attendance recording, add-on modules, user functions, and connection possibilities via interface for complementary security systems.



iProtect™ Aurora – Basic Modules

- iProtect™ Aurora Access authorization, Max. number of ID card readers online
- iProtect™ Aurora Access authorization, Max. number of videosewers
- iProtect™ Aurora Camera surveillance, Max. number of cameras
- iProtect™ Aurora Intrusion detection, Number of panels
- iProtect™ Aurora Intercom, Number of control centres
- iProtect™ Aurora People protection, Number of receivers
- iProtect™ Aurora Parking management, Number of terminals
- iProtect™ Aurora Time and attendance, Number of employees

iProtect™ Aurora – Add-On Modules

- Module iProtect™ Aurora, Number of simultaneous operating users
- Module iProtect™ Aurora, Number of intelligent controllers ND+
- Module iProtect™ Aurora, Number of ID cards
- Module iProtect™ Aurora, Number of programmable processes
- Module iProtect™ Aurora, Licence plate recognition
- Module iProtect™ Aurora, ID card production (key badge)
- Module iProtect™ Aurora, Company parking
- Module iProtect™ Aurora, Parking against fee
- Module iProtect™ Aurora, Residential parking
- Module iProtect™ Aurora, Validation node
- Module iProtect™ Aurora, Management cockpit
- Module iProtect™ Aurora, POS terminal
- Module iProtect™ Aurora, Cold stand-by

iProtect™ Aurora – Functionalities

- Functionality iProtect™ Aurora, KeyMap (interactive floor plans)
- Functionality iProtect™ Aurora, Visitor management
- Functionality iProtect™ Aurora, My iProtect
- Functionality iProtect™ Aurora, Logical circuits
- Functionality iProtect™ Aurora, E-mail support
- Functionality iProtect™ Aurora, Auditing
- Functionality iProtect™ Aurora, Group for hardware reports
- Functionality iProtect™ Aurora, Horizontal database separation
- Functionality iProtect™ Aurora, Distributed alarms
- Functionality iProtect™ Aurora, Info box

Default modules
extendable up to

X	16	80
○	0	2
X	4	64
X	1	1
○	0	4
○	0	8
○	0	32
○	0	1000
X	4	12
X	1	40
X	1000	5000
X	64	128
○		
○		
○		
○		
○	0	16
○		
○	0	16
○		
X	5	15
X		
X	8	32
○		
○		
○		
○		
○		
○	0	8

X = Default modules
○ = Options

large business



Market segments for large enterprises

Hospitals

Multinational companies

Government buildings

Universities

Airports

> iProtect™ Aurora – Large business

„large business“ is a very extensive licence in the field of security technology consisting of access authorization, camera surveillance, intrusion detection, intercom module, personal monitoring, parking management, time and attendance recording, and a wide range of add-on modules, user functions, and interfaces. There is no limit to the number of integrable components, functions, and connections.



iProtect™ Aurora – Basic modules

- iProtect™ Aurora Access authorization, Max. number of ID card readers online
- iProtect™ Aurora Access authorization, Max. number of videoservers
- iProtect™ Aurora Camera surveillance, Max. number of cameras
- iProtect™ Aurora Intrusion detection, Number of panels
- iProtect™ Aurora Intercom, Number of control centres
- iProtect™ Aurora People protection, Number of receivers
- iProtect™ Aurora Parking management, Number of terminals
- iProtect™ Aurora Time and attendance, Number of employees

iProtect™ Aurora – Add-on modules

- Module iProtect™ Aurora, Number of simultaneous operating users
- Module iProtect™ Aurora, Number of intelligent controller ND+
- Module iProtect™ Aurora, Number of ID cards
- Module iProtect™ Aurora, Number of programmable processes
- Module iProtect™ Aurora, Licence plate recognition
- Module iProtect™ Aurora, ID card production (key badge)
- Module iProtect™ Aurora, Company parking
- Module iProtect™ Aurora, Parking against fee
- Module iProtect™ Aurora, Residential parking
- Module iProtect™ Aurora, Validation node
- Module iProtect™ Aurora, Management cockpit
- Module iProtect™ Aurora, POS terminal
- Module iProtect™ Aurora, Cold Stand-by

iProtect™ Aurora – Functionalities

- Functionality iProtect™ Aurora, KeyMap (interactive floor plans)
- Functionality iProtect™ Aurora, Visitor management
- Functionality iProtect™ Aurora, My iProtect
- Functionality iProtect™ Aurora, Logical circuits
- Functionality iProtect™ Aurora, E-mail support
- Functionality iProtect™ Aurora, Auditing
- Functionality iProtect™ Aurora, Group for hardware reports
- Functionality iProtect™ Aurora, Horizontal database separation
- Functionality iProtect™ Aurora, Distributed alarms
- Functionality iProtect™ Aurora, Info box

Default modules

		Default modules	extendable up to
X	32	>	
O	0	>	
X	4	>	
X	1	>	
O	0	16	
O	0	>	
O	0	>	
O	0	4000	
X	4	60	
X	1	>	
X	2000	>	
X	64	>	
O			
O			
O			
O			
O	0	32	
O			
O	0	16	
O			
X	10	3200	
X			
X	8	256	
O			
X			
X			
X			
X			
O	0	256	

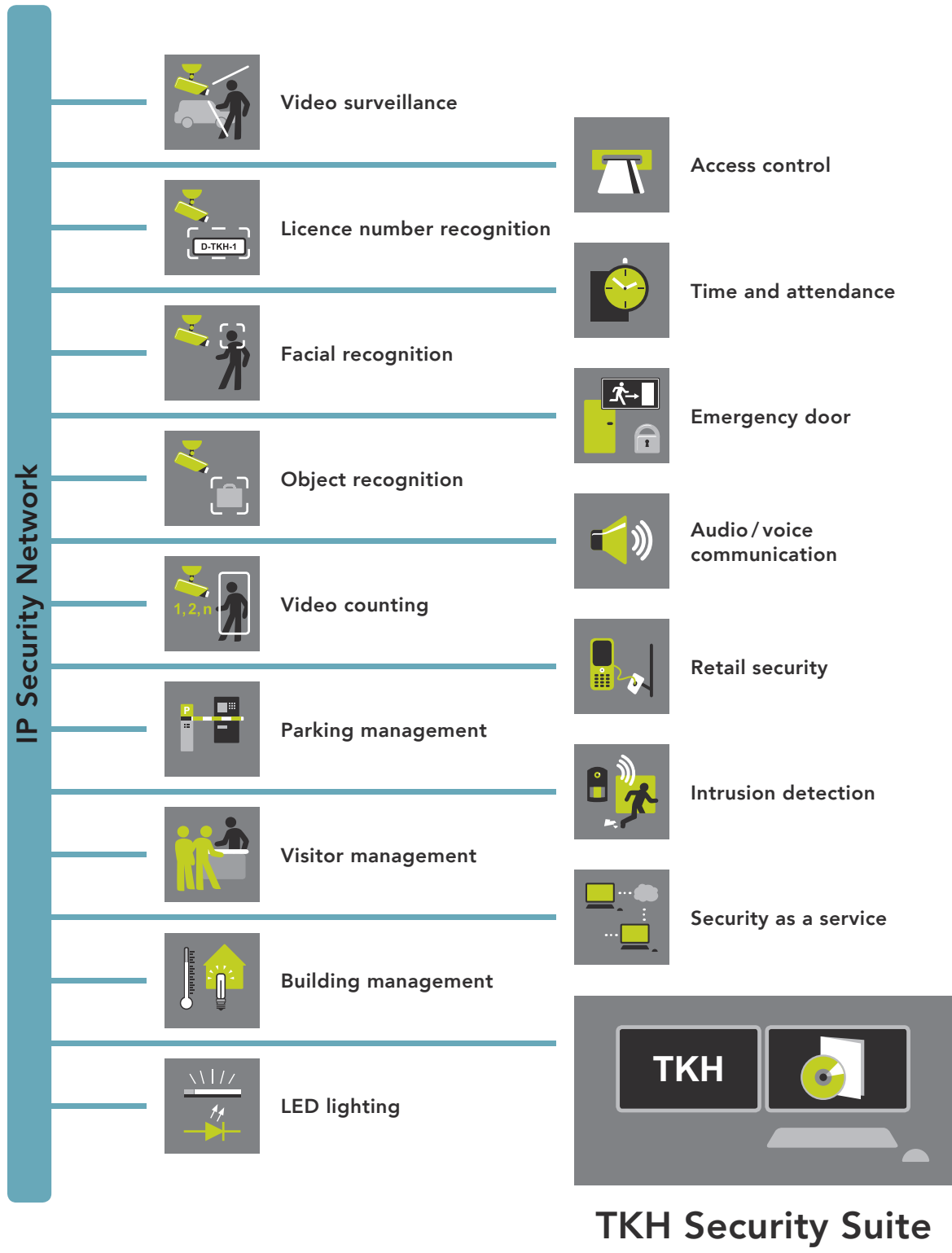
X = Default modules
O = Options

TKH Security Suite

A solution for everything

... but also from one single source. TKH Security Solutions sums up almost 30 years of experience of individual TKH manufacturers and expert teams. This makes it possible to meet today's demand for comprehensive security solutions.

100% IP based – integrated security solutions on the platform of the future.



TKH Security companies

Alphatronics BV

Watergoorweg 71
3861 MA Nijkerk
The Netherlands
T +31 (0) 33 2459944
F +31 (0) 33 2453149
www.alphatronics.nl

BB-Lightconcepts

Fabriekstraat 16-04
7005 AR Doetinchem
The Netherlands
T +31 (0) 314 392 2348
F +31 (0) 314 392 564
www.bb-lightconcepts.com

Commend Nederland BV

De Lind 3
4841 KC Prinsenbeek
The Netherlands
T +31 (0)76 2000100
F +31 (0)76 2000114
www.commend.nl

Keyprocessor BV

Paasheuvelweg 20
1105 BJ Amsterdam Zuid Oost
The Netherlands
T +31 (0) 20 4620700
F +31 (0) 20 4620799
www.keyprocessor.com

Scanton Parking +

Vleugelboot 20
3991 CL Houten
The Netherlands
T +31 (0) 30 2192050
F +31 (0) 30 2192060
www.scanton.nl

SecurityWorks BV

Melkrijder 15d
3861 SG Nijkerk
The Netherlands
T +31 (0) 33 253 04 25
F +31 (0) 33 253 09 05
www.securityworks.nl

Siqura BV

Zuidelijk Halfroond 4
2801 DD Gouda
The Netherlands
T +31 (0) 182 592333
F +31 (0) 182 592123
www.siqura.com

VDG Security BV

Radonstraat 10-14
2718 TA Zoetermeer
The Netherlands
T +31 (0) 79 3638111
F +31 (0) 79 3638118
www.vdg-security.com

Visit our

Security Experience Center:

Paasheuvelweg 20
1105 BJ Amsterdam
T +31 (0) 20 4620700
F +31 (0) 20 4620799

www.tkh-security.com



Innovators in Security