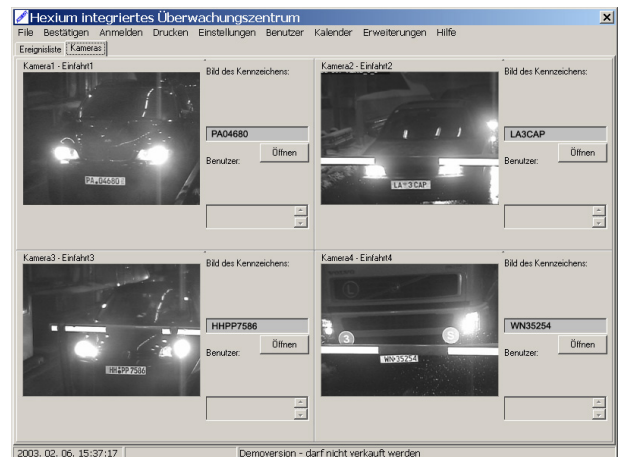


HEXIUM IDAXA

SURVEILLANCE, LICENSE PLATE IDENTIFICATION AND ENTRY SYSTEM



Hexium developed a complex system for surveillance, licence place recognition and entry purposes, called **HEXIUM IDAXA**. The name covers a complex program capable of handling thousands of users, cards and data system; servers, terminals, reader and identification devices, cameras, etc. In each case the system is installed depending on the request of the user. The software has a modular structure, therefore it is easy to install, to update and to service.

The **HEXIUM Idaxa** system consists of networks built up hierarchically to each other. There is the reader and the I/O device on the lowest level; these connect to the terminals via RS485 buses. The next level contains the terminals: there is also an isolated RS485 buses connection between the terminals and a central computer. The highest level contains the centers.

The **HEXIUM Idaxa center** continuously displays the most important information about the system, and can give an alert combined with a sound effect in every unusual case. In case of automatic surveillance of the entry spots the software displays the user's image, therefore bypassing can be easily supervised visually. The **HEXIUM Idaxa** system depending on its configuration gives the possibility to create guest images when handing out a card. With this function checking the guests becomes safer.

The integrated **HEXIUM Idaxa Condor** software module is able to issue operation based on license plate recognition with the help of digital image processing. Multiple number of cameras can be connected to the software which is able to continuously retrieve images from them. If the vehicle with the license number identified from the image has authorization to enter at the given time, the **HEXIUM Idaxa** software sends out the command to the terminal which performs the driving sequence set to this or performs a local control.

The **HEXIUM Idaxa** system offers distinction of operators based on authorization levels and allows the operator to perform its task based on them. Rights can be uniquely given to the program functions based on hierarchical structure.

The **HEXIUM Idaxa HAPON** and **sGTC** entry terminals with the **Hexium Idaxa Proximity Card** (HA-PC) and the **iButton** (made by **DALLAS Semiconductor**) id devices implement a modern entry system capable of fulfilling wide range of functions from a simple driving task (for example controlling a door) to complex tasks (for example after an area becomes empty, it sets the alarm and controls the grid). The **HEXIUM Idaxa** entry terminals are able to use proximity and **Dallas** readers, even at the same time. These devices have unique addresses, therefore multiple readers can be connected to one bus. Throughout the operation the supervisor (main) computer sends the data regarding the id devices to the terminals, which can work independently afterwards. In case of sabotage or any malfunction which occurs between the supervisor computer and the terminal, operation goes on uninterrupted according to the last known state.

The terminals store the authorizations in a non-volatile (EEPROM) memory, the event log entries (max 16.000) created while working in a SRAM memory protected by a battery. The terminals, depending on their type have multiple opto-coupled binary inputs (for sensors opening of the doors and other signals), inner tamper input and multiple output (morse) relays. Throughout this almost any kind of admission process can be easily solved. The possibilities are extended by the readers, which have their own relay output - these can be used for logical controls. .

Main features:

- *Handling of thousands of cards, license plates and users*
- *Handling of images of users, and, depending on configuration, guest images*
- *Flexible entitlement groups or individual authorization*
- *Calendar exception handling*
- *Person tracking, movement display set up automatically*
- *WEB based network operating*
- *Simplified basic level usage*
- *24/7 operating*
- *Anti Pass Back*
- *Flexible printing*
- *Preparing safety copy from the databases*
- *Automatic event archiving*
- *Event export to working-time registry*
- *Integrated card-printing*
- *Import/export function for a remote user and card installation*
- *Handling a copier with individual credit limits*
- *Automatic license plate recognition*
- *Image storage in the case of authorized and unauthorized license plates*
- *Intelligent help system*
- *Using local and IP cameras*

Technical information for HEXIUM IDAXA software components:

	Idaxa LE	Idaxa SA
Size of event log	500 000<	500 000<
Terminals on one port	4	20
Number of ports	1	4
RS232 port handling	yes	yes
RS485 port handling	yes	yes
Maximal number of users	20 000	100 000
Maximal number of organizational units	500	1 000
Maximal number of cards	1 000	10 000
Maximal number of authorization groups	100	100
Operator	yes	yes
Communication with the terminals	10 minutes	continuous
Maximal number of areas	100	1 000
Maximal number of gates	50	1 000
Maximal number of operators	10	100
Maximal number of license plates	-	100 000
Maximal number of cameras	-	40
Authorization levels	Per user, breakdown by functions separately	
Operating system	Windows 2000/Windows XP	
Hardware warranty	1 year (in case of maintenance contract 3 years)	
Software support	free in case of maintenance contract	
Printing	Log event printing User event printing (organized by users, organizational units or source time) Filtering (by gates, users, dates and times of the day) Identification device, receipt printing	

Technical information for HEXIUM IDAXA terminals:

	SGTC3	HA-PON3	HA-PON-R	HA-DFM
Number of event log entries	16000	16000	1300	-
Number of used id devices	6000	6000	1000	100
Number of reader lines of the terminal	3	3	1	1
Number of readers used by the terminal	16	8	2	1
Number of output relays	8	8	2	3
RS232 port handling	yes	yes	yes	-
RS485 port handling	yes	yes	yes	-
Operating mode	online/offline	online/offline	online/offline	offline
Authorization levels	Per user, breakdown by functions separately			
Hardware warranty	1 year (in case of maintenance contract 3 years)			
Software support	free software to help configuration, free update in case of maintenance contract			

Technical information for HEXIUM IDAXA reader and identification devices:

Readers	Id device	in- and output	display	buttons	working time registry	design
HA-PA-10-12 V/X	Idaxa proximity	+	-	-	-	mountable onto the wall
HA-PA-70-12X	Idaxa proximity	+	-	-	-	mountable onto the wall/stand
HA-PAW-12 I/O	Idaxa proximity	+	+	+	+	mountable onto the wall
HA-TIR20	TIRIS proximity	+	-	-	-	mountable onto the wall
HA-DON20	Dallas iButton	-	-	-	-	countersink into the wall
HXA-E	Dallas iButton	input	-	-	-	countersink into the wall
HA-DONTW I/O	Dallas iButton	+	+	-	+	mountable onto the wall
HXA-PIND	Dallas iButton	-	+	+	-	mountable onto the wall

The reader devices are suitable for indoor and also for outdoor usage except in the case of HA-PAW-12 I/O, we suggest to use these indoor.

V: indoor unit

X: outdoor unit

I: with label suitable for entering

O: with label suitable for exiting

Id devices	Idaxa/TIRIS proximity card	Dallas iButton
Communication	without touching	
Powering	parasite	parasite
Id code	individual	individual
Type of casing	plastic	stainless steel (MicroCan casing)
Resistance of casing	for example salty water, oil, alcohol, 10 % hydrochloric acid, high mechanical resistance	mechanically and chemically extremely resistant
Operating temperature range	-40°C..+80°C	-40°C..+85°C
Design form	card	keychain, id card pin, ring, etc.