

IDentry T45

HIGHLY VERSATILE AND FULLY FUNCTIONAL ACCESS CONTROL TERMINAL



As customer needs in security and versatility grow, COMMAX designed IDentry-T45 to meet all kinds of requirements not only on security but also on convenience.

IDentry-T45 with integrated controller is able to be applied to both single door control and external control panel. And a wide range of different types of interface ensure the smooth integration of new or existing system.

4 authentication methods in IDentry-T45 provide our customers not only the layered high security but also a variety of authentication methods to choose based on their environment. Especially, given the fact that IDentry-T45 supports CARTA, the COMMAX's special card credential, our customers come to understand how come IDentry-T45 does present reasonable price as well as world class high security and all that is possible. This cost-efficiency can save you trouble of suffering from high security-cost unbalance. Additionally, a built-in camera in IDentry-T45 performs face detection to strengthen access decision along with a fingerprint, card, and PIN codes.

IP65 ensures perfect outdoor use, making sure that accidental splashes do not harm IDentry-T45. High reliability of protection from water and dust will provide the readers extended lifecycle that makes IDentry-T45 more affordable and practical.

Reliability and high speed in fingerprint scan performance do highlight values of access control. IDentry-T45 recognizes fingerprints in any direction and reads subsurface to capture clean and clear images, even when surface fingerprints are absent or hard to distinguish due to skin and environmental conditions. IDentry-T45's powerfully fast speed optimized algorithm of fingerprint recognition moreover leads to have our customers do a double take and indeed leverages security.

IDentry-T45 also features video door phone clearly demonstrates the Commax DNA as a trusted smart home solution provider and the global top leader in door entry system. The video door phone functions to achieve stringent authentication and enhance user convenience level by identifying visitors or unauthorized persons and making access decision in the office.

Furthermore, ease of installation has becoming a more and more important issue. IDentry-T45 is able to be installed and connected over WiFi, and PoE that help simple and convenient installation and reduce installation cost.



IDentry-T45 meets all of your site's individual requirements, as optimized for a diverse of markets from small-scale business to large-scale projects.

High Security & Reliability

- Multi-layered authentication – 15 composition
- Fingerprint anti-spoofing technology
- More increased security level through face detection
- Highly secured COMMAX credential CARTA supported
- Anti-passback configuration available
- Tamper proof protection
- IP65 rated water and dust protection
- Most reliable fingerprint scan performance under highly tough conditions

Adaptability

- Flexible connectivity with controllers and devices through various interfaces
 - TCP / IP, 4 x RS485 and Wiegand
- Operation that couples with readers from other brands
- Supports all kinds of technology cards and custom formats as well as NFC mobile card emulation.
- Supports iCLASS / SE cards and readers
- Built-in 2 relays for door and alarm control
- IDentry customization support policy

Versatility

- Supports Stand-Alone and Controller integrated system configuration
- Simultaneously works on 125KHz and 13.56MHz frequency
- Video communication via V.O.I.P Door Entry products
- Access Control, Time-Attendance and Meal management modes by using 40 operation scenarios
- Image(face) capture for more sensitive uses such as Time-Attendance and access to secure areas

Performance

- The world's fastest fingerprint recognition
- Fast CPU & abundant memory
- 500K /10K of event logs and photo logs

Convenience

- Simplified installation through WIFI & POE
- Big TFT LCD touch screen with intuitive UI
- Convenient Management – Offline log data management and firmware update by using a USB memory stick or microSD, Self Diagnostics, Self error detection
- Voice output in multiple languages



IDentry-T45-T

SPECIFICATIONS

MODELS	T45-T	T45-K
CPU	ARM9	
Display	4.3" WVGA Color TFT LCD	2.8" Color TFT LCD
Key Pad	4.3" Touch Screen	Touch Keypad
Operation Mode	FP / Card / PIN#	
Fingerprint Sensor	500dpi / 360 degree recognition / Subsurface fingerprint scan	
FAR / FRR(%)	0.00001 / 0.01	
FP Recognition Speed	5,000 fps / 0.1 sec.	
Fingerprint Capacity	up to 50K	
RF Reader	125K and / or 13.56MHz	
Tech Cards	EM / HID Prox / Indala / Mifare / DESfire iCLASS / iCLASS SE / Felica / JAVA / NFC	
Camera	1.3M pixel	
Communications	TCP / IP, RS-485(Max 4)	
PoE+	Yes	
WiFi	Yes	
External Interface	Wiegand, USB memory card	
Input / Output	4 in / 2 out	
Event Log Capacity	500,000 events	
Photo Log Capacity	10K	
Power	12V DC / 2A	
Tamper Switch	Yes	
Multiple Languages	English, Korean, Chinese multilingual	
Door Phone	VoIP (Video and Audio)	
Operating Temperature	-20° to 60°C	
Operating Humidity	20% to 80%	
Environmental Rate	IP65	
Dimensions (WHD)	115mm x 165mm x 49mm	
Certifications	CE, FCC, KCC certificated	
Etc.	Self error detection / Voice output / DHCP	



COMMAX Access Control Solutions

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Contact information for
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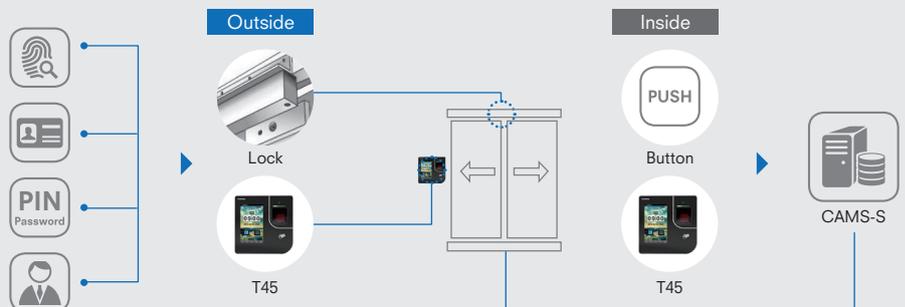
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Configuration

Stand Alone as Controller



Control Panel Integration



IDentry T20

SLIM, AFFORDABLE AND THE WORLD'S FASTEST
FINGERPRINT ACCESS CONTROL READERS



IDentry-T20 readers are used to arrange for more reliable and practical security, as our core COMMAX mission is to create new values in our customers' lives.

IDentry-T20 readers are to leverage customers' security systems in an affordable and practical way while meeting their strict security standards as well.

From card-based typical access control to advanced biometric access control, managing a number of doors in regard to the unit price of readers could be a challenge.

Affordability and practicality of IDentry-T20 series are able to help reduce unnecessary specifications and maximize investment-efficiency.

Three different types of IDentry-T20 meet customers' different needs and increase practicality to maximum by allowing customers to stick to essential options they demand.

IDentry-T20 readers offer choices as follows: Card, card with a LCD display, and card and fingerprint scan sensor with a LCD display.

IDentry-T20 achieved state-of-the-art, and the world's fastest fingerprint recognition rate, providing customers the assurance that their busy life can be securely and well managed.

Speaking of design, IDentry-T20 readers are practical frame type created to fit everywhere - even on the narrow wall, thanks to IDentry-T20's compact and slim design - and not to leave any single dead zone or spot insecure where could not be managed to install or expand access control system, resulting in enhancing customers' security system.

IP65 environmental rate of IDentry-T20 directly shows the practicality to adapt difficult customers' requirements, even though T20 series are not high-priced products.



By choosing IDentry-T20 Series, in the process of system integration and interworking, you can be free from suffering from system design with products which are expensive and even lack some functions.

High Security & Reliability

- Multi-layered authentication – 7 composition
- Highly secured COMMAX credential CARTA supported
- Anti-passback configuration available
- IP65 rated water and dust protection

Adaptability

- Flexible connectivity with controllers and devices through various interfaces
 - TCP / IP, 4 x RS485 & Wiegand
- Operation that couples with other brands' readers
- Supports all kinds of technology cards and custom formats as well as NFC mobile card emulation.
- Supports iCLASS / SE cards and readers
- Built-in 2 relays for door and alarm control
- IDentry customization support policy

Practicality

- Slim and Compact size : 1.8" width frame type
- 3 Different models according to use
- Supports Stand-Alone & Controller integrated system configuration
- Simultaneously works on 125KHz and 13.56MHz frequency

Performance

- The world's fastest fingerprint recognition
- Fast CPU & abundant memory
- Long RF authentication range
- 200K event logs and 5K finger print templates

Convenience

- Nifty Keypad interface by using fingerprint sensor area
- Convenient Management
 - Offline log data management and firmware update by using USB stick or microSD.
- Voice output in multiple languages



IDentry-T20-F

Specifications

MODELS	T20-F	T20-D	T20-C
CPU	32 bit	32 bit	32 bit
Operation Mode	FP / Card	Card	Card
Display	Color 1.8" TFT LCD	Color 1.8" TFT LCD	No
Fingerprint Sensor	- 500dpi optical - 360 degree recognition	No	No
FAR / FRR(%)	0.00001 / 0.01	-	-
FP Recognition Speed	5,000 fps / 0.1sec.	-	-
FP Template Capacity	5K		
Frequency	125K and / or 13.56MHz		
Tech Cards	EM / HID Prox / Indala / Mifare / DESfire iCLASS / iCLASS SE / Felica / JAVA / NFC		
Communications	TCP / IP, RS-485, RS-422		
Access Control I/F	2 Relay outputs		
External Interface	Wiegand x 2, Sensor Input, USB memory card		
Event Log Capacity	200,000 events		
Power	12V DC		
Languages	English, Korean, Chinese multilingual		
Operating Temperature	-20 ~ 60°C		
Operating Humidity	20 ~ 80%		
Environmental Rate	IP65		
Dimension (WHD)	48mm X 138mm X 38mm		
Certifications	CE, FCC, KCC		
Configuration Methods	Virtual Keypad/ Console/ Configuration card	Console / Configuration card	
Etc.	Voice output Configurable time-attendance		



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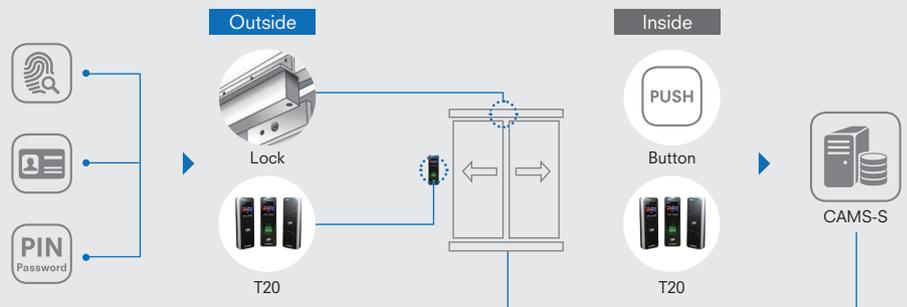
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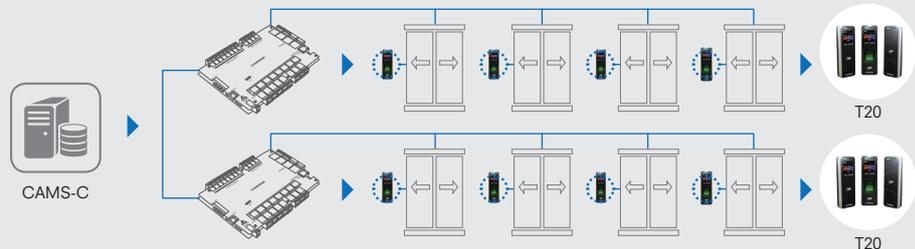
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Configuration

Stand Alone as Controller



Control Panel Integration



IDentry T65

STRONGER SECURITY IN RELIABILITY AND PRACTICALITY



As growing security needs called for security and extra add-on as well in existing access control solutions, COMMAX answers with IDentry-T65.

Secure, reliable, fast and multi-functional fingerprint terminal IDentry-T65 readers ensure customers stronger security by accomplishing two aims so called security and practicality with a single door access control reader.

Even though IDentry-T65 retains most of functions and performance that the market requires, such as color display, various tech card support, biometric recognition, built in controller and so on, IDentry-T65 never misses cost-efficiency for our customers.

IDentry-T65's powerfully fast speed algorithm of fingerprint recognition moreover leads to have customers do a double take and indeed leverages security. IDentry-T65 recognizes 50,000 different fingerprints in one second and saves up to 50,000 fingerprints and 500,000 events.

Reliability in fingerprint scan performance does highlight values of access control. IDentry-T65 readers recognize fingerprints in any direction and read subsurface to capture clean and clear images, even when surface fingerprints are absent or hard to distinguish due to skin and environmental conditions.

IDentry-T65 readers also feature joining telephone that clearly demonstrates the COMMAX DNA as a trusted smart home solution provider and the global top leader in door entry system. A built-in mic functions to enhance user convenience level by identifying visitors or unauthorized persons by audio door phone.

IP65 ensures perfect outdoor use, making sure that accidental splashes do not harm IDentry-T65 readers. High reliability of protection from water and dust will provide the readers extended lifecycle that makes IDentry-T65 more affordable and practical.



IDentry-T65 is the best answer for difficult customer demands that require not only various features but also good price at the same time.

High Security & Reliability

- Multi-layered authentication – 15 composition
- Fingerprint anti-spoofing technology
- Highly secured COMMAX credential CARTA supported
- Anti-passback configuration available
- Tamper proof protection
- IP65 rated water and dust protection
- The most reliable fingerprint scan performance under highly tough conditions

Adaptability

- Flexible connectivity with controllers and devices through various interfaces
 - TCP / IP, RS-485 and wiegand
- Operation that couples with other brands' readers
- Supports all kinds of technology cards and custom formats as well as NFC mobile card emulation.
- Supports iCLASS / SE cards and readers
- Built-in 2 relays for door and alarm control
- IDentry customization support policy

Practicality

- Supports Stand-Alone and Controller integrated system configuration
- Classy UI on the color TFT LCD display
- The world's fastest fingerprint recognition
- Up to 50,000 fingerprint templates stored
- Simultaneously works on 125KHz and 13.56MHz frequency
- Joins telephone communication
- Access Control, Time-Attendance and Meal management modes by using 40 operation scenarios
- Convenient Management – Offline log data management and firmware update by using a USB memory stick or microSD, Self Diagnostics, Self error detection
- Voice output in multiple languages



IDentry-T65

Specifications

MODELS	T65
CPU	32bit
Display	2.8" TFT Color LCD
Key Pad	Touch Keypad
Operation Mode	FP / Card / PIN#
Fingerprint Sensor	- 500dpi / 360 degree recognition - Subsurface fingerprint scan
FAR / FRR	0.00001 / 0.01
FP Recognition Speed	5,000 fps / 0.1 sec. .
FP Template Capacity	up to 50K
Frequency	125K and / or 13.56MHz
Tech Cards	EM / HID Prox / Indala / Mifare / DESfire iCLASS / iCLASS SE / Felica / JAVA / NFC
Communications	TCP / IP, RS-485
Access Control I/F	2 Relay outputs
External Interface	Wiegand, USB memory card
Input / Output	4 in / 2 out
Event Log Capacity	up to 500,000 events
Inputs & Outputs	4 in / 2out
Door Phone	Joint telephone
Tamper Switch	Yes
Power	12V DC / 500mA
Multiple Languages	English, Korean, Chinese multilingual
Operating Temperature	-20° to 60°C
Operating Humidity	20% to 80%
Dimensions (WHD)	165mm x 115mm x 49mm
Environmental ate	IP65
Certifications	CE, FCC certified
Etc.	Voice output, DHCP



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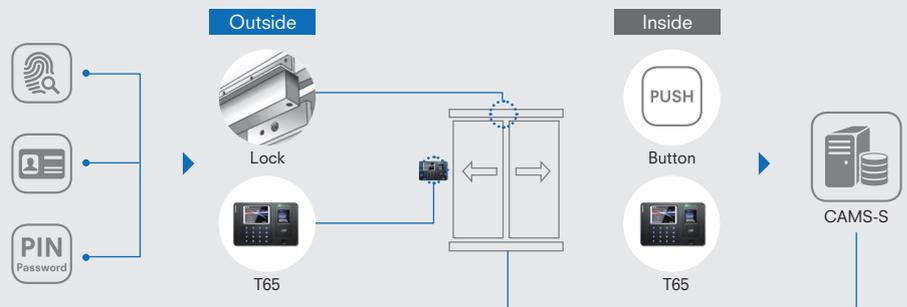
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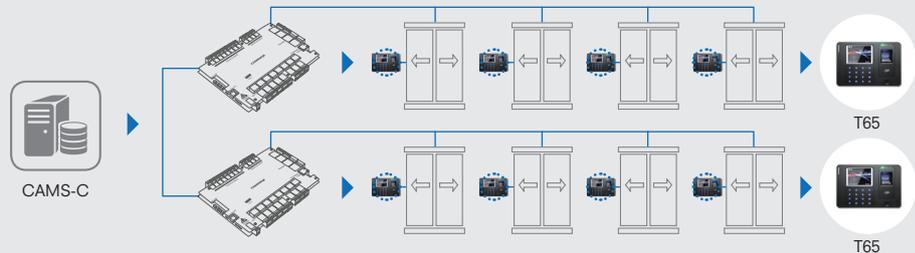
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Configuration

Stand Alone as Controller

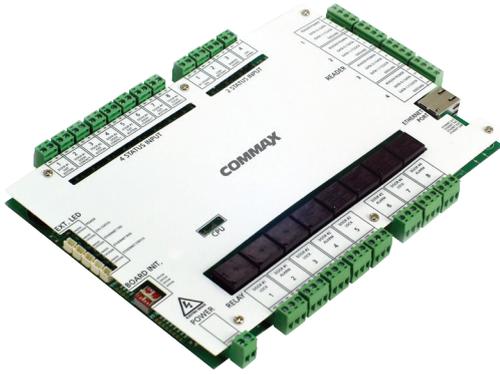


Control Panel Integration



IDentry-C4

SMART & EFFICIENT NETWORK ACCESS CONTROLLER



- Flexibility in System Integration
- Organic expansion
- Easy management

An internal web server inside the IDentry-C4 provides a convenience by simply accessing the remote controller from any web browser.

WEB ACCESS

The 4 reader ports that automatically detect and support multi-card formats connect to a variety of readers including HID ICLASS.

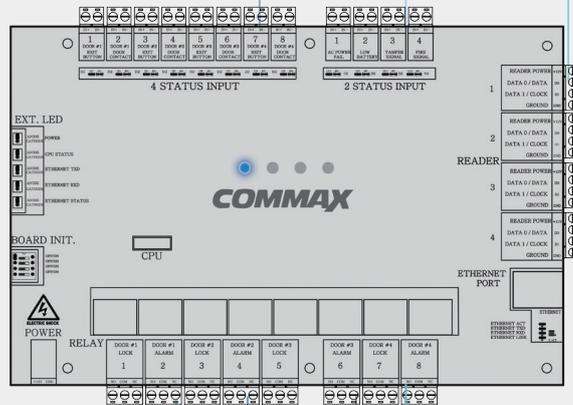
READER CONNECTION

UDP multicast communication on boards makes all the features as Global I/O control, Arm/Disarm, Fire con possible.

BOARD TO BOARD COMMUNICATION

The 12 inputs and 8 outputs on IDentry-C4 makes different input signals and output operations happen, which turns out more effective and flexible control in access control.

I/O



Experience the very high speed communication performance that On Board Real TCP / IP and Adapted Multiple Packet Protocol will show you.

ETHERNET COMMUNICATION

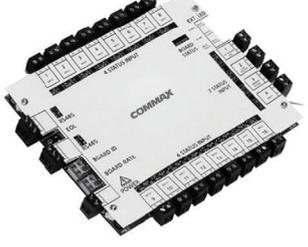
IDentry-C4 is able to connect to an extension interface board that has 16 inputs and 16 outputs each. Leverage your security investment and get rid of your trouble with the number of I/O.

EXTENSION I/O INTERFACE

The fact that IDentry-C4 supports global, timed and soft anti-passback, AES / 3DES encryption, and Duress / Escort mode only shows a little bit of all the amazing High Security features that IDentry-C4 has.

HIGH SECURITY

Specifications

MODELS	C4	CE16I	CE16O
			
	4 door controller	16 input interface	16 output interface
Network	100MB on board Ethernet TCP / IP	None	None
RS485	1	2(for redundancy)	2(for redundancy)
CPU	32bit ARM9 / 8bit AVR Processor	32bit Cortex M3	32bit Cortex M3
RAM	64MB	n/a	n/a
Flash Memory	32MB	n/a	n/a
Inputs Reader Ports	4	n/a	n/a
Reader Ports	12 ports (8 inputs of 4 status and defined 4 ports for power fail, low battery tamper and fire alarm)	20 ports (16 inputs of 4 status and 4 inputs of AC fail, low battery, tamper, rev)	4 ports (4 inputs of AC fail, low battery, tamper, rev)
Output	8(Form-C Relay) 5(Ext LED output)	16(Form-C Relay) 3(Ext LED output)	0 3(Ext LED output)
Dimension(WHD)	242mm x 158mm x 25mm	170mm x 135mm x 25mm	170mm x 135mm x 25mm
Operating Temperature	0°~75°C		
Relative Humidity	10~80%		
Power Consumption	MAX 1A / 12V	MAX 0.5A / 12V	MAX 0.5A / 12V
Certification	KC,FCC,CE		



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Features

- Embedded web server
- Anti-passback (Global, Timed, Soft)
- AES / 3DES Data Encryption
- Duress / Escort mode
- Four status supervised input
- Priority event processing
- LED operation status indication
- Electrical shock protection
- Rechargeable RTC backup battery
- Auto converting reverse DC input
- Pluggable terminal block



IDentry-CAMS

ACCESS CONTROL MANAGEMENT SYSTEM FLEXIBILITY AND
COMPATIBILITY IN SYSTEM INTEGRATION

- Modular based architecture
- Compatibility with 3rd party systems
- Integrated central monitoring



COMMAX, the market leader in door entry and video surveillance solution sectors, has already had a number of successful customer case studies that helped COMMAX scale up business on **integration**. IDentry-CAMS is a new access control management system from COMMAX.

IDentry-CAMS, based on accumulated knowledge in the industry, is designed for **flexibility** to quickly and easily integrate with different 3rd party systems. Also, it maximizes your **security** investment returns through an optimized Core System, which is a **modular** architecture, by gradually adding on features you need.

Integration with a wide array of systems including Access Control, Biometric Recognition, Video Security Management, Visitor Management, Time and Attendance, and Meal Management will revolve around IDentry-CAMS.

Moreover, the integration and deployment process offers auto-configuration feature to help system integrators and security operators.

Right Access to Right Integration, IDentry-CAMS



Features

Quick Search

- One click search for controllers on the network.
- Automatic basic data creation of doors, readers, inputs and outputs depends on the type of door and the location.

Device Setup

- Changes names and default settings of doors, readers, inputs and outputs.

Credential

- Card holder registration with multiple access rights and multiple access cards per person.
- Imported and modified cardholder's data into a badge.

Event Monitoring

- Real-time monitoring for events, alarm status and door status.
- User-defined monitoring view by grouping and filtering areas or groups.
- Customizable alarm and alerts as a pop-up alarm reminder and an alarm sound.
- Multiple customizable views by grouping and filtering events.

Database Scheduled Backup / Archive

- Performs automatic database backup in a certain period of time you set.
- Automatic database maintenance keeping the latest data in a certain time period and backing up the rest.
- Enhances system performance and speed related to the rapid growth in database and maintains the database size in an effective manner.

Door Monitoring / Control

- Monitors the door status(open, close, lock, release) and other peripheral devices.
- Remote-controlled doors(lock, unlock) and peripheral devices.

Graphic Map

- Dynamic and interactive graphical map view consists of various door, sensor, and peripheral device icons that changes depending on status.
- Remote-controlled doors and peripheral devices by clicking icons on the map.
- Customizable multiple views by grouping and filtering events.

Reports

- An user-defined report available by filtering, grouping and adding or deleting columns.
- Exports the report as an external file in Excel, PDF and any other file formats.

Time & Attendance

- Fixed or flexible working hours.
- A wide range of work options and exceptions.
- Exports reports as an external file in Excel, PDF and any other file formats.

Add-on Modules

Video Integration

- Unified monitoring view with video and event details for quick identification of threats
- Graphical maps with interactive video control
- Triggers video recording and live video pop-up upon access / alarm event arising

Biometric Integration

- An easy solution to enroll, manage and monitor fingerprint and iris biometric readers with single software
- Effective biometric template management - uploads and downloads Templates individually and / or to a badge from / to biometric terminals upon access rights

Visitor Management

- Secure visitor control integrated into access control
- Web pre-registration for visitors
- Self sign-in service on site
- Real-time list of current and pending authorized visitors
- Easily tracks relevant visits, visitor time in/out, host details and more
- Pen interface for digital signature

Meal Management

- Verifies types of meal (e.g. breakfast, lunch, dinner and more) based on the time the meal is consumed, and readers
- Reports mealtime, or meal prices in total, based on a certain period of time or types of meal consumed

Guard Tour Management

- Check-point validation according to preset guard tour schedules and incident alerts
- Reports tour logs, time violations, intuitive exceptions and more



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