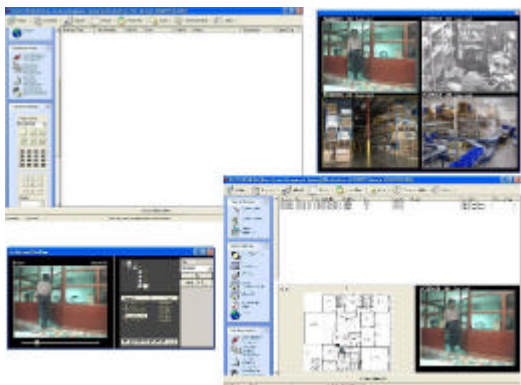# FALCO-IP VIDEO INTEGRATION SYSTEM

- ✍ TCP/IP ready
- ✍ Support all major reader technology
- ✍ Integration with CCTV
- ✍ Cost-Effective and simple Installation
- ✍ Real Time Alarm Monitoring with CCTV
- ✍ Video comparison for car park
- ✍ Scalability on LAN / WAN architecture
- ✍ Global Antipassback without PC online
- ✍ Pattern Card Searching Algorithm

Advanced and Powerful Access Control with Video Integration

FALCO provides an advanced and powerful integrated access control and digital video solution with its FALCO-IP-PREMIUM access control software and Network Digital Video Site Controller (NDVSC) a Digital Video Surveillance System or also known as Digital Video Recorder (DVR).

By combining the easy-to-use FALCO IP Graphical user interface with the power of the NDVSC, this integrated solution sets the standard for using digital video with security applications. Customers are able to monitor video live through the access control system as well as play back recorded video. This dramatically increases security by providing integration between access control events and video clips events, providing security personnel with video evidence of potential security violations. This integrated solution is made even more powerful with new features for Real-Time Alarm Event Handling System and Video Comparison System.

Network Digital Video Site Controller

This NDVSC is act just like a DVR which runs with **Global View** DVR cards and software. There are a range of DVR cards that you can choose from. Besides having the facility to integrate with FALCO Access Control, it can also function as normal DVR where all standard function of a DVR is available.

The NDVSC is web enable where user able to view live and playback through internet.

Multiple Entry Access Modes

There are 3 different entry access modes that you can set to adjust to your security requirements: Card only, PIN only and Card & PIN only. This means a door can be programmed to operate on different entry access mode at either same or different time for each day of the week, including weekends and holidays. For example, a door can be programmed to operate on 'Card only' entry mode during office hours but automatically switch to 'Card & PIN only' entry mode after office hours.

Schedules Settings

Can be up to 50 sets of weekly timers, where each daily timer consists of 3 sets of start and stop time interval settings can be used for system behavior control. These timers are also tagged to a day-of-week selection, which are used for all timers' related operations, such as locking and unlocking of doors, activating of User PIN function, etc.

Quite often you may want to unlock the office main entrance door during office hours, but the door shall be locked during lunch break and after office hours. This requirement can be achieved through timer(s) controls.

Why FALCO IP?

Falco IP is the state-of-art true TCP/IP controller with capability of integrating with DVR providing a clear and stable migration to a fully integrated digital IP-based solution. We are building our future on IP.

FALCO-IP REAL TIME ALARM EVENT HANDLING SYSTEM
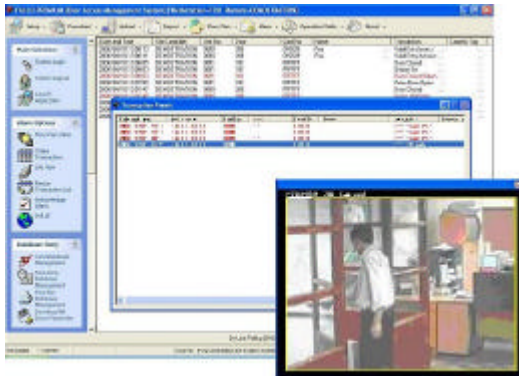
- ✎ TCP/IP ready
- ✎ Integration with CCTV
- ✎ Real Time Alarm Monitoring with CCTV
- ✎ Event Filtering for guard
- ✎ Live video prompt during violation or alarm
- ✎ Fast response time during violation or alarm
- ✎ Playback with card user photo ID
- ✎ Floor plan animation during alarm
- ✎ Camera location can be indicates in floor plan
- ✎ Scalability on LAN / WAN architecture

Real Time Alarm Event Handling System

For Alarm Monitoring, Access Control Panel Model CTRL-1DRSMTALR-TCP/IP(3.0A)-CU will allows user to arm and disarm alarm via authorize cards. The numbers of input can be cascaded from 8 input to maximum of 64 inputs through the use of 8 i/p module model 1DRSMT-TCP/IP-8INPUT cards. Alarm signals from PIR, door sensors, smoke detectors, infrared detector and any alarm sensors can be use to detect any security violation.

All the alarm signals are transfer via a network to the card access software. The Falco card access software with alarm handling module enabled, it will triggers the floor plans animations of alarms and at the same time it triggers the video live of a camera which is tide to the door. Each camera is settable to be tide with any existing door controls panel. There is a special screens filtered for guards to monitor only those alarms event required. With different logins, there can have different filtering screens. Alarm such as door force open or door left open can view by the guard easily and with video evidences.

Video evidence can be playback direct from the card access software. You do not need to acknowledge the date and time of the alarm from card access software and play the video evidence from DVR software. In the card access software, floor plans can be inserted to allocate animations doors.

## Alarm Event Handling System Architecture

All access control panels, alarm control panels, NDVSC and server are link back to the LAN network. The NDVSC can connect up to 16-channel camera and one of the cameras would be configure to tide with one of the alarm control panel.

When the sensors from the alarm panel triggers, alarm signals are sent real-time through the LAN network and received by server. At the same times, camera which tide to the alarm panel will be prompt so that guard will have full attentions on the particular alarmed area.
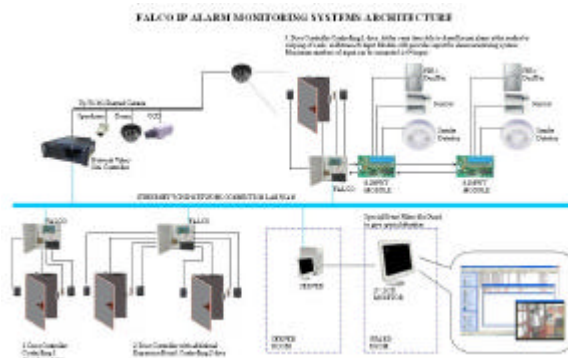
FALCO-IP CAR PARK VIDEO COMPARISON SYSTEM
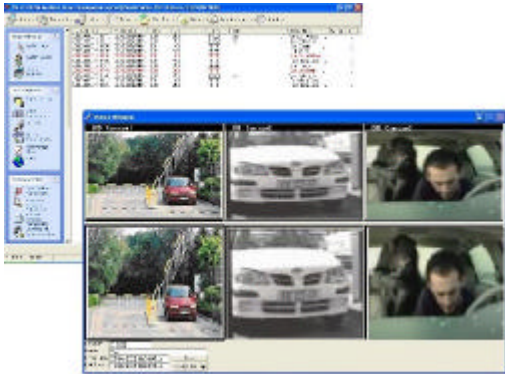
- ✍ TCP/IP ready
- ✍ Support all major reader technology
- ✍ Integration with CCTV
- ✍ Cost-Effective and simple Installation
- ✍ Video comparison for car park
- ✍ Video comparison for highly secured room
- ✍ Video Comparison for baggage carrier
- ✍ Scalability on LAN / WAN architecture
- ✍ Global Antipassback without PC online

Video Comparison System

The Video Comparison is specially design for the use in secured car park environment. The system will capture every entrance of the car park through the use of cameras connects to the NDVSC. There is maximum of 3 video camera can be tide to a barrier entrance, which able to capture your car plate number, car color and driver. Upon Exit, there shall have a guard or operator which will check and compare the live video from exit with the playback video from entrance. This will have the guard to alert to car theft.

The video comparison also suitable to be used in embassy, filling room and those areas requires comparison at entry and exit. Example: a person who enters a filling room without anything in hands, but came out with a file in hand. Also in the Embassy, a terrorist bring in a bag but came out empty handed. This will prompt the guard to take actions and stop the guy.

Below shows the video comparison screens during exit where there are 3 video caparison screens. It also shows the user's photo as well for easy identifications if it's already set.

Video Car Park Comparison System Architecture

Car Park control panel controlling 2 barrier connects to the LAN network. Then, entry camera and exit camera are all connects to the NDVSC and the NDVSC are also connects to the LAN. For cost-effective system, the NDVSC is also installs with server software which able to communicate with the car park barrier control panel.

During entry, entry camera will capture at most 3 camera screens and during exit, exit camera will prompt out live with entry camera playback. This will provide the guard with entry and exit comparison for that particular card user.

FALCO CAR PARK COMPARISON SYSTEMS ARCHITECTURE
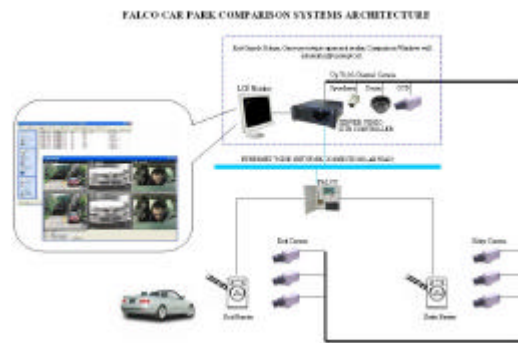
Falco IP-Lite

Falco IP-Lite is access control software that limits to 10 controller and uses Microsoft SQL Database as storage of data. Falco-Lite will not support video integration or remote access. All extra modules such as Alarm Event Handling, Visitor Management System and Car Park System can be added upon request.
(Model: **FALCO-SOFT-IP-LITE**)
For additional controller support, you may add maximum up to 250 controllers with additional charges.
(Model: **FALCO-SOFT-IP-LITE-PROF**)

Falco IP-Premium

Falco IP-Premium is also access control software that can supports Remote Access/Remote Site Access and the database uses SQL database. The SQL database engine runs in this software is either MSDE or Microsoft SQL Server. MSDE is given free and SQL will be charge accordingly depends on the number of workstation or remote access. This software does not limit to 10 controllers. It can support up to max 25 controllers. All extra modules such as Alarm Event Handling, Visitor Management System and Car Park System can be added upon request.
(Model: **FALCO-SOFT-IP-PREMIUM**)
For additional controller support, you may add maximum up to 250 controllers with additional charges.
(Model: **FALCO-SOFT-IP-PREMIUM-PROF**)

Falco IP-Video Enterprise

Falco IP-Video Enterprise is access software that can support 25 controllers. It is similar to Falco IP-Premium but Falco IP-Video Enterprise able to support video integration and SQL database. The video integration provide user to view live or playback video from DVR through the network. Beside that, user able to use the video comparison features in the video integration. All extra modules such as Alarm Event Handling, Visitor Management System and Car Park System can be added upon request.
(Model: **FALCO-SOFT-VIDEO-ENT**)
For additional controller support, you may add maximum up to 250 controllers with additional charges.
(Model: **FALCO-SOFT-VIDEO-ENT-PROF**)
For remote access from another PC or workstation, you will able to view door events, live and playback video from the front desk PC of another workstation within the networks. Also able to view it from another remote site location using VPN connections.
(Model: **FALCO-SOFT-VIDEO-ENT-REMOTESITE**)

Falco IP-Features and Benefits

Feature	How it works	Where it is of benefit
Access Levels	Each person can only go through certain doors.	If some areas in the organization are felt to need higher protection than others, for reasons of, for example, theft or confidentiality. This is probably true for most organizations.
Time Zones	Each person can only go through certain doors at certain times.	If there are times of day or days of the week when certain people should not be present– for example, a business whose normal office hours are 9-to-5 might wish to allow access only during the hours of 8 a.m. until 6 p.m.
Card+PIN	After using a card, a person must type in a PIN before the door will open	If there is a risk of lost or stolen cards being used? This risk may be at its highest when the number of people in the area is at its lowest– in which case this feature can be scheduled automatically.
Global-Anti pass-back	After a card has been used to gain access to an area, it cannot be used again for a given time ("timed anti pass-back") or until the card has been used to leave the area.	Where there is a risk of one person inside an area handing a card to someone outside the area. The risk is higher where turnstiles are installed, because ordinary doors allow "tail-gating" anyway.
Man traps / Interlocking	A door will not open unless another door is closed. Two or more doors are link to provide man traps functions.	Where there is an "air-lock" situation – e.g. dust-free zones – or where tailgating can be prevented by two doors close together with room for only one person in between them.
Door Sensors Alarms	Any "unexpected" event or "abnormal behavior" can be notified to a supervisor, who can then establish what happened and decide how to respond.	This can benefit every installation. For example, if a door is left open too long, or a person tries to gain access where they are not allowed, then these represent risks that can and should be eliminated. There are many different types of event that can be detected and dealt with – too many to list here.
Lock Release Time Zone	Certain door like main entrance required to be left open during certain duration settable from the system.	Main Entrance during office hours need to be left open for walk-in customers.
Fire Alarm	When fire alarm signals is received by one of the door access control panel, it will send out a fire signals through the network to others door to releases all the doors or certain groups of doors.	This is a safety features that must be installed in large compound such as college, cooperate companies buildings or factory. When there is a fire, safety comes first. All common areas door are release to let people to through the passage smoothly.
Visitor Management	Visitor may need to be controls in the vicinity by allowing to access during certain hours After the hour has been passed they will be blocked.	Large office or factory may require guard to assigned visitor cards to visitors. There will be controls over your visitors and do not allowed them to enter certain area. After expiry hour, the card will not be able to enter any doors.
Alarm-monitoring	Expansion of inputs on the access control system can be used to monitor windows, fire exits and motion sensors, etc.	If there is a risk that open windows and fire exits could allow people to by-pass the access control system. Alarm inputs are installed to prevent break-in through windows.