



**KEYSCAN**

**ACCESS**

**CONTROL**

**SYSTEMS** FROM KEYSKAN INC.

**TECHNICAL FEATURES . SYSTEM V**

## KEYSCAN CONTROL UNITS

### KEYSCAN CA200 ACCESS CONTROL SYSTEM

High-end features in a 2-reader system.

- 2 readers or keypads in any combination
- 8 alarm inputs to monitor auxiliary input points
- 4 time-programmable outputs

P/N CA200 (2 Reader Control only)

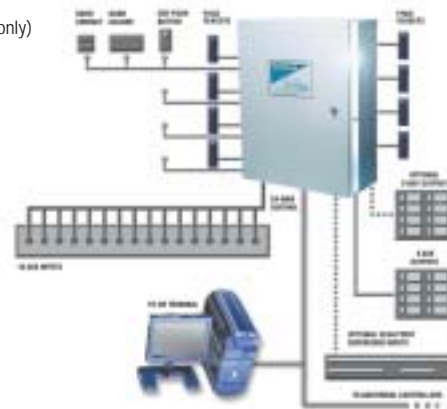


### KEYSCAN CA8000 ACCESS CONTROL SYSTEM

8-door control in one cost-effective, easy-to-install panel.

- 8 readers or keypads in any combination
- 16 alarm inputs to monitor auxiliary security points
- 8 time-programmable outputs, expandable to 16
- 32 or 64 programmable supervised input points optional
- Separate power supply input for proximity readers

P/N CA8000 (8 Reader Control only)

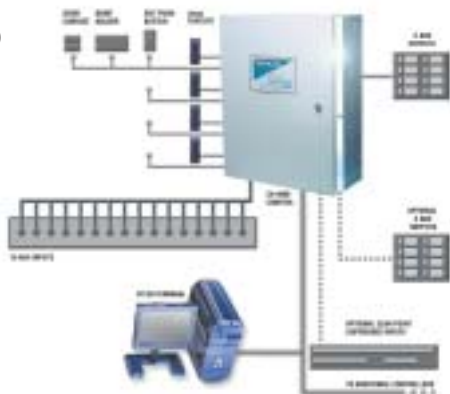


### KEYSCAN CA4000 ACCESS CONTROL SYSTEM

A mid-size expandable system with easy on-site and remote programming.

- 4 readers or keypads in any combination
- 16 alarm inputs to monitor auxiliary security points
- 4 time-programmable outputs expandable to 12
- 32 or 64 programmable supervised input points optional
- Separate power supply input for proximity readers

P/N CA4000  
(4 Reader Control only)



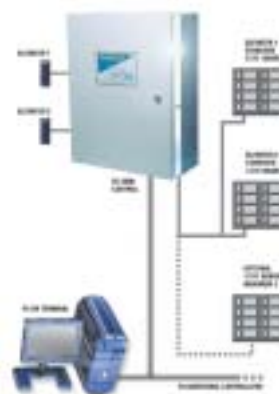
### KEYSCAN EC1000/2000 ELEVATOR CONTROL SYSTEM

For single and dual elevator systems, full programmable control over who can access certain floors — and when!

- 1 elevator with up to 40 floors of independent control and access (EC 1000)
- 2 elevators with up to 16 floors each (EC 2000), permits either 2 readers or 2 keypads for dual elevator systems
- Permits cardholder access to single or multiple floors
- Monitors floor status

P/N EC1000 out of box controls 1 cab to 8 floors. Add OCB8s in banks of 8 relays for up to 40 floors.

P/N EC2000 out of box controls 2 cabs up to 8 floors. Add OCB8s in banks of 8 relays for 16 floors



## CONTROL UNIT STANDARD FEATURES

- Stores up to 32,000 cards per site with no limit on number of sites
- Create up to 512 door groups and 512 elevator groups
- Retains last 6000 transactions in activity memory buffer
- Create up to 256 time zones, 512 different schedules, and 3 different holiday types
- Create up to 64 holiday dates
- Monitors door forced open and door held open alarm conditions at reader-controlled doors
- Monitors temporary cards with programmable date activation/expiration and/or usage countdown
- Unlimited remote sites via TCP/IP or dial-up modem
- Heavy-duty 10 amp relays for long life and reliability
- Large, well constructed enclosure with ample room for wiring and circuit boards
- Dual processors for enhanced system performance - panels operate during uploading and downloading of data
- Removable terminal blocks for easier installation and service
- Individual reader terminal blocks
- Mix or match access control units for optimum installation
- Simple jumper settings for most Wiegand protocols
- Programs daylight savings and standard time to change automatically
- 2 year warranty



## CONTROL UNIT TECHNICAL SPECIFICATIONS

### OPERATING VOLTAGES

Input transformer: 16 VAC, 37-40 VA Class II  
Internal Power Supply: 13.5 VDC @ 1.5 amps  
Battery Backup: 12VDC 7 Amp/Hr.  
Input transformer for Proximity Readers: 16VAC, 37-40VA Class II

### OPERATING ENVIRONMENT

32° to 120° F. 0° to 49° C., Humidity: 0% to 90% R.H., non-condensing

### RELAY OUTPUTS

Form C contacts, 10 Amps Max. 24 VAC or 32 VDC

### COMMUNICATIONS

8 Bit ASCII code      Baud rate: 9600 / 19.2Kb

### CABLES

Data Network: 22 AWG 5-conductor, shielded  
Max distance from ACU to ACU: 2000 ft.  
Readers/Keypads: 22 AWG 3 twisted pair, shielded  
Max distance: 500 ft.

### READER TECHNOLOGIES

Radio Frequency (wireless parking applications), Biometrics, iClass, Proximity, Bar Code, Mag Stripe

### ENCLOSURE

Single locking box CEMA / NEMA Type 1  
Dimensions: 20 1/4" High x 16 3/8" Wide x 5 5/8" Deep  
Net Weight: 14.8 lbs

## SYSTEM V ACCESS CONTROL

Combined with Keyscan's door and elevator control units, System V stretches flexibility to the maximum for total control and administration. Using one computer or multiple computers, controlling one building or numerous buildings, Keyscan Management System V software is packed with advanced features delivering the best in access control. Here's why.



- offers multiple communication modes - serial, LAN/WAN network, and modem
- has user-selectable languages – English, French, or Spanish
- emails alarms or critical messages automatically to PCs, cell phones, or pagers
- has alarm summary, interactive maps and instruction for timely security response
- offers user-formatted transaction reports for management overview/analysis with capability of automatically emailing as PDF or CSV files
- has time-saving import & export feature for cardholder records for file sharing with other departments such as human resources
- offers full CCTV integration and control with selected DVRs
- offers basic CCTV control with RS232 or WEB-enabled camera systems
- has dedicated internal MSDE database engine \*

## PLUS THESE ADDED BENEFITS

### **Scheduled Backups**

In seconds, schedule System V to automatically back up the database eliminating possible operator oversight.

### **Multiple Card Formats**

Not only can Keyscan systems read most competitors' proprietary card formats, but they can read multiple card formats at the same time. Beneficial on system takeovers. Allows use of existing readers and cards for added cost savings.

### **255 Site Codes**

For better security with almost no chance of card duplication, Keyscan systems accept up to 255 site codes for off-the-shelf speedy card re-orders.

### **Not Used Since**

Select a "not used since" date and identify inactive cardholders. Convenient for maintaining up-to-date records.

### **Disaster Recovery**

If the site database is lost from a PC failure, Disaster Recovery downloads cardholder data from the panels. Gets the system back into operation quickly.

### **On-Line Help**

Need assistance? Just press F1 for Keyscan's context-sensitive, on-line help. Explains the function you're working on and how to complete it.

### **Added Safeguards**

Keyscan's First Person In stops un-authorized persons from gaining access to doors set on timed auto-unlock or restricts cardholders from accessing areas until a supervisor is present.

### **Handicap Accessibility Feature**

Keyscan systems are designed to connect with door accessibility operators for persons with disabilities with separate door monitor settings.

\*Contact Keyscan for more information on integration of other database products.

## COMPLETE ACCESS CONTROL AT YOUR FINGERTIPS

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### SYSTEM V MAIN SCREEN

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- view alarms as they happen
- access commonly used functions with "quick buttons"
- find system functions easily with intuitive, well-organized menus
- access regulated by individual log-on accounts



### ON-SCREEN DOOR STATUS VERIFICATION

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- checks the status of any system regulated door – locked or unlocked
- manual lock and unlock overrides – single, panel, or all doors
- "pulse" feature momentarily unlocks a door, then automatically re-locks it
- has a timed unlock feature beneficial for deliveries or moving etc.

### GROUP ACCESS LEVELS

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- has separate door and elevator access levels for better site control
- uses an at-a-glance, single-page format for a more comprehensive picture
- eliminates frustration of flipping through multiple screens when assigning access
- has click and drag feature to quickly assign time zones to multiple readers or groups

### CARDHOLDER RECORD

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- offers extensive system-defined and user-defined fields for basic or detailed cardholder records
- has a temporary card feature with date range and card countdown settings beneficial for visitors or memberships
- lists cardholder's most recent site transactions for determining site activity or whereabouts
- has a multi-search cardholder feature to quickly edit or cancel cardholders in the system
- view cardholder images with optional photo badge and verification package

## SYSTEM VPH - SYSTEM V PHOTO BADGING & VERIFICATION LICENSE

Photo badges are a great way to readily distinguish employees, visitors, or members from any unauthorized intruders in your building. Why not enhance security by adding an extra layer of protection with Keyscan's Photo Badge and Verification module? The Photo Badge module (P/N System VPH) integrates with Keyscan access control systems or can operate as an independent badging application. And because it's compatible with digital cameras, video digitizers (P/N VBIUSB), and video capture cards, it offers a variety of ways for importing cardholder photos.



### PHOTO VERIFICATION

- displays cardholder image and transaction details immediately following site activity
- compare on-screen image to actual cardholder
- photo verification window has "always on top" setting for constant monitoring even if other applications are open
- ideal for monitoring main access points where security is critical



### PHOTO BADGE EDITOR

- has a full suite of drawing tools and graphic importation feature for logos and backgrounds
- supports and prints a variety of industry-standard barcode types
- create unlimited template designs to distinguish departments or areas of authorization
- share cardholder images with other departments such as human resources



### PRINT BADGES IN FULL 300 DPI COLOR

Print high-resolution, full-color badges with one of Keyscan's commercial dye sublimation card printers:

- Keyscan VBP407 single-sided card printer kit
- Keyscan VBP407DBL double-sided card printer kit



New  
**Pebble**



**dualys**

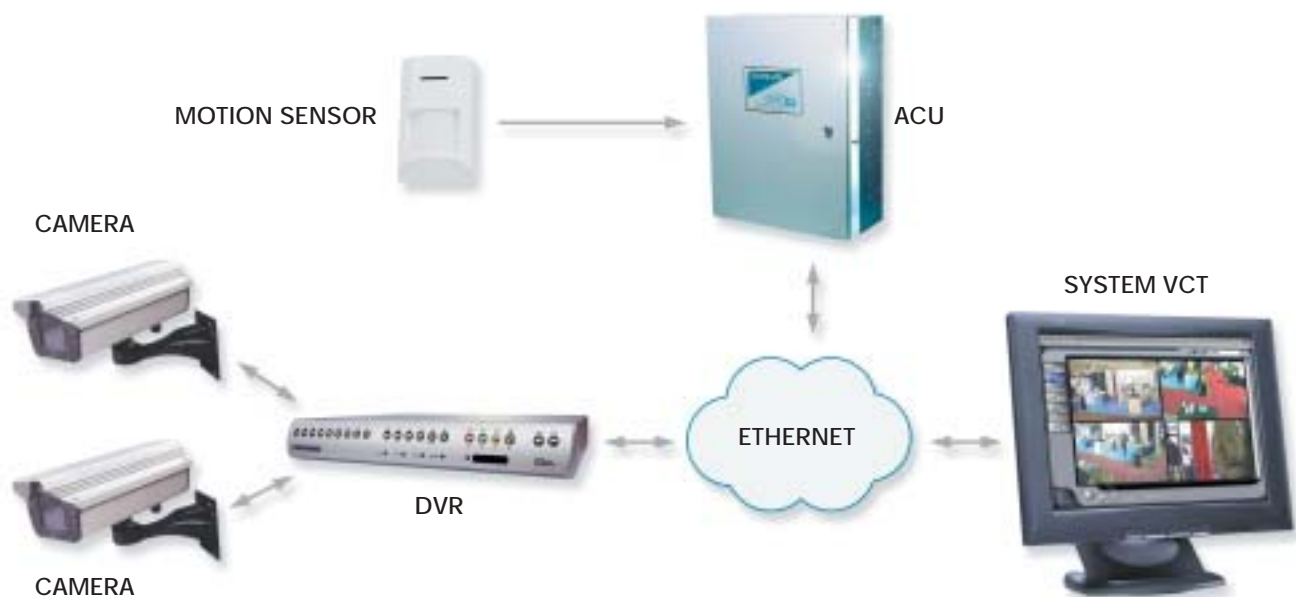
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## SYSTEM VCT - CCTV LICENSE

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**K**eyscan's optional System VCT component integrates with any CCTV or DVR system enhancing access control security. System VCT offers basic integration with any RS232 or Web-enabled camera system or full integration and control with these selected DVRs:

- Dedicated Micros, Integral Technologies, Image Vault, Bosch Divar, Toshiba, Honeywell Fusion, Samsung Digital Watchdog, Open Eye, Intivid Solutions VIP, Pelco DX8000, and ATV Falcon digital video recorders. (This list is subject to change without notice as DVR manufacturers may alter specifications. Contact Keyscan to ensure availability of DVR driver.)



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## CAMERA ACTION AND IMAGE RETRIEVAL

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No matter whether the CCTV platform is RS232, Web-enabled, or DVR, Keyscan's CCTV component includes these camera-action and image-retrieval features:

- Multiple video feeds and on-screen camera commands for quick response to critical events
- Fast retrieval of recorded CCTV images captured during a system-triggered event such as a forced entry
- Conveniently switch from the alarm monitoring screen to the live video screen in the click of a mouse
- Automate cameras to record an alarm event so security personnel see what's happening and where it's happening
- Combined with Keyscan's Photo Badging and Verification module, compare a cardholder's on-file image to a continuous video feed at any reader controlled access point that is equipped with a CCTV camera
- Quickly retrieve recorded transaction images directly from individual cardholder records

## SYSTEM SCM - SECURITY COMMAND MODULE

The Security Command Module, which fully integrates with Keyscan Management System V, is a multi-faceted, dedicated monitoring application. It's designed to let security personnel carry out their tasks more systematically and efficiently as well as report on their activities. "Learn Mode" lets you structure realistically-timed itineraries that security personnel must follow to the letter. And with its random alertness prompts, security personnel must always remain watchful. Here's what else the Security Command Module can do:



- Display multiple monitoring windows with each window capable of filtering specific site activity
- Display an image of active cardholders at each site with the "show photos" feature
- Monitor multiple sites simultaneously even in different time zones
- Configure alarm warnings to indicate their level of importance using a wide range of settings including sound and color
- Control and view floor plans on the system monitor
- Trigger dynamic floor plans to open instantly with a flashing icon pinpointing the location of the tripped alarm
- Format security tours using door readers or inputs with timed intervals between each point in the itinerary
- Summarizes the results of all security tours for historical records and management audits



## VISITOR MANAGEMENT

Visitor management software is rapidly gaining acceptance for tracking visitor activity. And with good reason. Corporate offices, government facilities, research labs, warehouses, manufacturing facilities, hospitals, and schools, all have better systematic control when they use electronic visitor management. Make your reception desk the first line of security. Available in standalone (System VMMS) or access-control integration (System VMM) formats, Keyscan's Visitor Management Module has distinct advantages when it comes to registering and monitoring visitors.

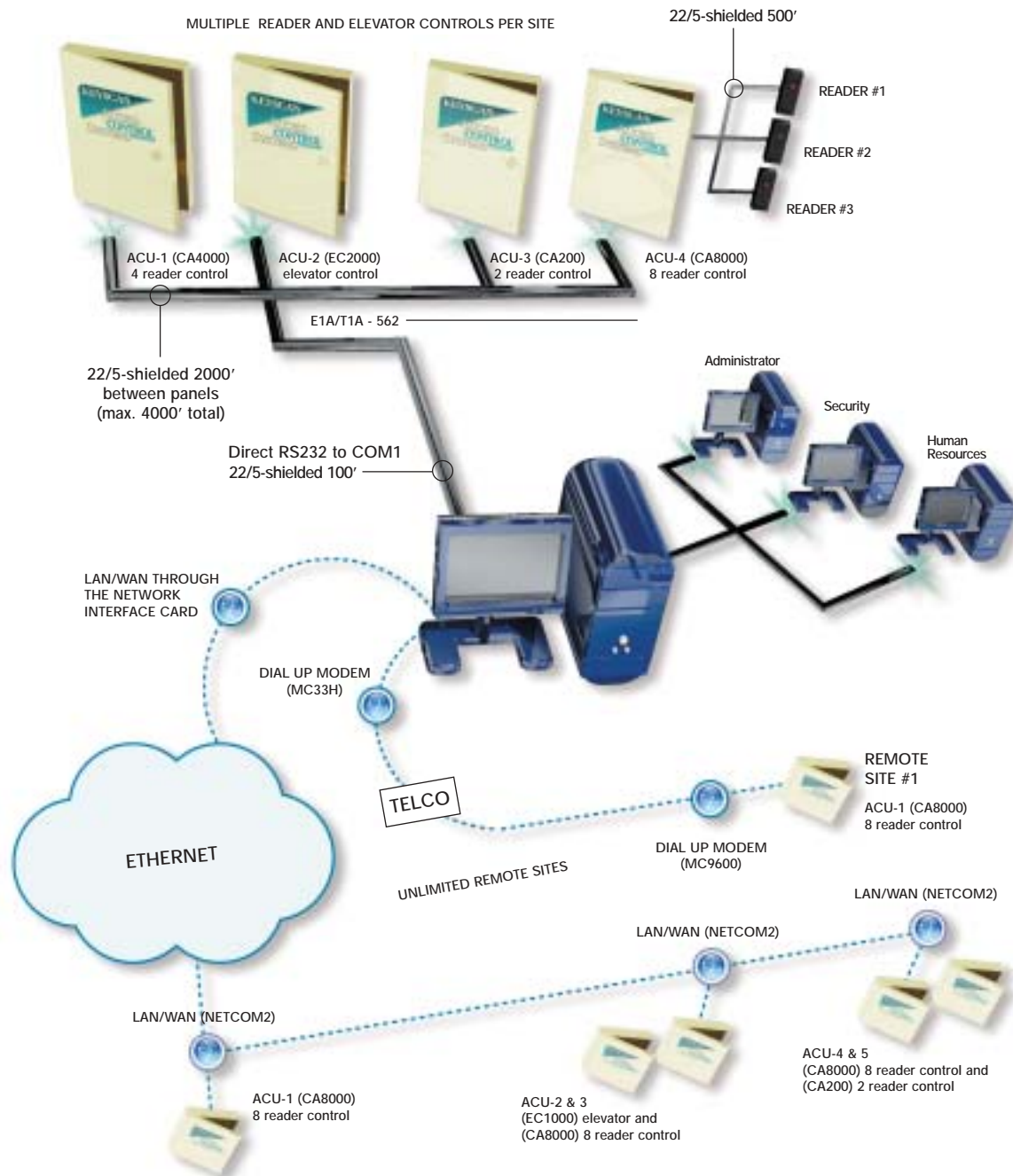


- Shows all visits scheduled for current date
- Schedules visits in advance and tracks visit status – expected, delayed, arrived, and departed
- Retains a complete history of all visits
- Has wide array of report capabilities including all visitors currently on site
- Interfaces with Keyscan's business card scanner (P/N BIZSCAN) for quickly adding new visitor records
- Includes the Keyscan Photo Badge Template Editor for designing visitor badge templates and parking permits
- Interfaces with Windows compatible printers or Dymo printers
- Formatted for Avery or similar type labels for printing ID badges
- Assigns visitor access cards (System VMM) when integrated with System V for independent but regulated and monitored access at reader-controlled doors
- Maintains individual visitor files with up to 17 user-defined fields for basic or detailed records.
- Can populate contact information directly from MS Outlook™ contact list



## THE MULTIPLE-SITE SYSTEM THAT'S FLEXIBLE, ADAPTABLE, RELIABLE

Keyscan access control and security systems are designed to optimize multi-communication modes for unlimited setup configurations. Whether you have serial, LAN/WAN network, or modem connections, you can program and control the entire Keyscan system from one or many locations using any or all three communication modes. Keyscan systems deliver consistent and reliable performance. Just ask any of the thousands of businesses and organizations that have come to rely on the name Keyscan.



REMOTE SITE #2 - MULTIPLE READER AND ELEVATOR CONTROLS PER SITE

**There Are Many Options Available**  
Fibre, LAN, WAN, COAX, Twisted Pair  
CALL KEYSCAN FOR DETAILS

## COMMUNICATION OPTIONS

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### READER DOOR TO ACU

- Reader hard wired 22/5 shielded: max 500'\*
- Door lock 18/2: max 500'\*
- Door contact 22/4: max 500'\*
- Request to exit (RTE) 22/4: max 500'\*

Optional communication extenders

\*WIEEX extends distance by 4000' on twisted pair

\*CWIEEX extends distance by 500' on Coax cable

### ACU to ACU

- Hardwired Daisy Chain or star; 2000' on 22/5 Shielded

### SITE TO SITE

- LAN/WAN P/N NETCOM2 or NETCOM6 (encrypted)
- Modem – unlimited sites

### ACU TO PC

- Hard wired 22/5 shielded: max 100'
- Commex UTP: max: 4000'
- LAN/WAN
- Modem

## PC SPECIFICATIONS

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Faster processors and higher RAM provide better system performance. For large multi-site systems, please contact Keyscan for proper PC requirements. The following outlines minimum system requirements:

- Recommended Central Processing Unit: P4 1.8 Ghz
- Minimum RAM: 256 megabytes or greater when setting up a single PC operation; 256 megabytes or greater when setting up individual modules on several PC's
- Minimum Hard Disk: 20 Gigabytes
- USB Port for Photo Badging and Signature Capture (Note: NT does not support USB)
- COM Port: 1 required if direct connect to access control units, 2 required if using CCTV control with RS232
- CD-ROM Drive
- Removable Media Storage Device such as a CD Writer for database backup
- Network Interface Card (NIC) [Needed even if standalone PC operation]
- Sound Card
- Minimum 32 MB PCI Video Card, or 64MB PCI Video Capture Card for CCTV integration using a spot monitor output
- Operating System: Windows 2000 or XP Professional
- Microsoft Internet Explorer 4.01 Service Pack 2 or later

## ORDERING INFORMATION

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### SYSTEM V

- System V standard software complete with 2 concurrent Client ability

### SYSTEM VCL

- System V Client license for additional concurrent users

### SYSTEM VMMSA

- Visitor Management Standalone software

### SYSTEM VMM

- Visitor Management Module for integration with System V access control

### SYSTEM VCT

- System V CCTV license, to enable CCTV & Video control

### SYSTEM VPH

- System V Photo Badging & Verification license, to enable photo badging & verification feature

### SYSTEM SCM

- System V Security Command Module (Must have SCM certification to sell & install)

# OVERVIEW OF THE FEATURES IN EVERY KEYSKAN SYSTEM

PANEL NAME	CA 200	CA 4000	CA 8000	EC 1000	EC 2000
DOOR OUTPUT RELAYS	2	4	8	NA	NA
CARDS	32000	32000	32000	32000	32000
TRANSACTION FILE BUFFER	6000	6000	6000	6000	6000
TIME ZONES	256	256	256	256	256
TIME SCHEDULES	512	512	512	512	512
GROUP LEVELS	512	512	512	512	512
HOLIDAY DATES	64	64	64	64	64
VISITOR CARD	YES	YES	YES	YES	YES
READERS	2	4	8	1	2
KEYPADS	2	4	8	1	2
READER DOOR INPUTS	2	4	8	NA	NA
EXIT BUTTON INPUTS	2	4	8	NA	NA
ALARM OUTPUT RELAYS	2	4	8	NA	NA
ALARM POINT INPUTS	8	16	16	NA	NA
SUPERVISED INPUTS (OPTIONAL)	NA	32/64	32/64	NA	NA
POWER FAIL OUTPUT	YES	YES	YES	NA	NA
ELEVATOR CONTROL	NA	NA	NA	1x40 Flrs	2x16 Flrs
FLOOR MONITOR INPUTS	NA	NA	NA	YES	YES
CONTROL PROCESSORS	2	2	2	2	2
MANUAL RELAY OVERRIDE	YES	YES	YES	YES	YES
INDIVIDUAL TIME ZONES PER DOOR/READER	YES	YES	YES	NA	NA
INDIVIDUAL TIME ZONES PER FLOOR	NA	NA	NA	YES	YES
DIAL-UP MODEM ON REMOTE ALARM	YES	YES	YES	NA	NA
TIME ZONE CONTROL ON KEYPAD/READER USE	YES	YES	YES	NO	NO
MULTI SITE CARD WITH BATCH/FACILITY CODE	YES	YES	YES	YES	YES
ADDITIONAL ALARM OUTPUT RELAYS	4	4	NA	NA	NA
SERIAL COMMUNICATION	YES	YES	YES	YES	YES
DIAL-UP COMMUNICATION (OPTIONAL)	YES	YES	YES	YES	YES
LAN/WAN COMMUNICATION (OPTIONAL)	YES	YES	YES	YES	YES
ADD ON SUPPRESSOR KIT REQUIRED	NO	NO	NO	NO	NO

Keyscan's integration and dynamics allows companies to start with a small system and gradually grow to a full network of security and building management.

## Keyscan Inc.

1099 Kingston Road, Pickering, ON Canada L1V 1B5  
 Phone: (905) 420-7522 Fax: (905) 420-7524  
 Toll Free: 1-888-KEYSCAN (539-7226)  
 Web Site: [www.keyscaan.ca](http://www.keyscaan.ca)

KEY 2005-01

## Keyscan Inc. LR110441 Complies to:

UL STD 294  
 CSA STD C22.2  
 CSA STD C22.2  
 16VAC 40VA, Class 2 Input  
 Relay Output Contacts 24 VAC/32VDC, 10A

Access Control System Units  
 0.4-M1982 Bonding and Grounding of electrical equipment  
 205-M1983 Signal Equipment

