



# VAX Access Control



Teamwork Empowerment **SUCCESS**



# VAX Components

## VAX Access Control Products



- 1 VAX Access Control Servers connect to ViconNet software to create one truly powerful building security system.



- 2 Vicon offers a variety of controller devices to secure ALL entrances and exits in one simple system.



- 3 Manage unlimited sites across multiple time zones using VAX multiscreens.

# Vicon VAX

## SYSTEM OVERVIEW

- Web-Based, Power Over the Ethernet (POE) Access Control System.
- POE Single Door Controller embedded with request to exit motion detector.
- POE Two Door Controller (Single reader doors)
- Lightning Fast 100MB/Sec Communications
- 802.11B/G Wireless Connectivity
- Fully Distributed Processing (field controllers not dependent on Server operation)
- Minimal wiring/installation with feedback at the door making installing quick and clean

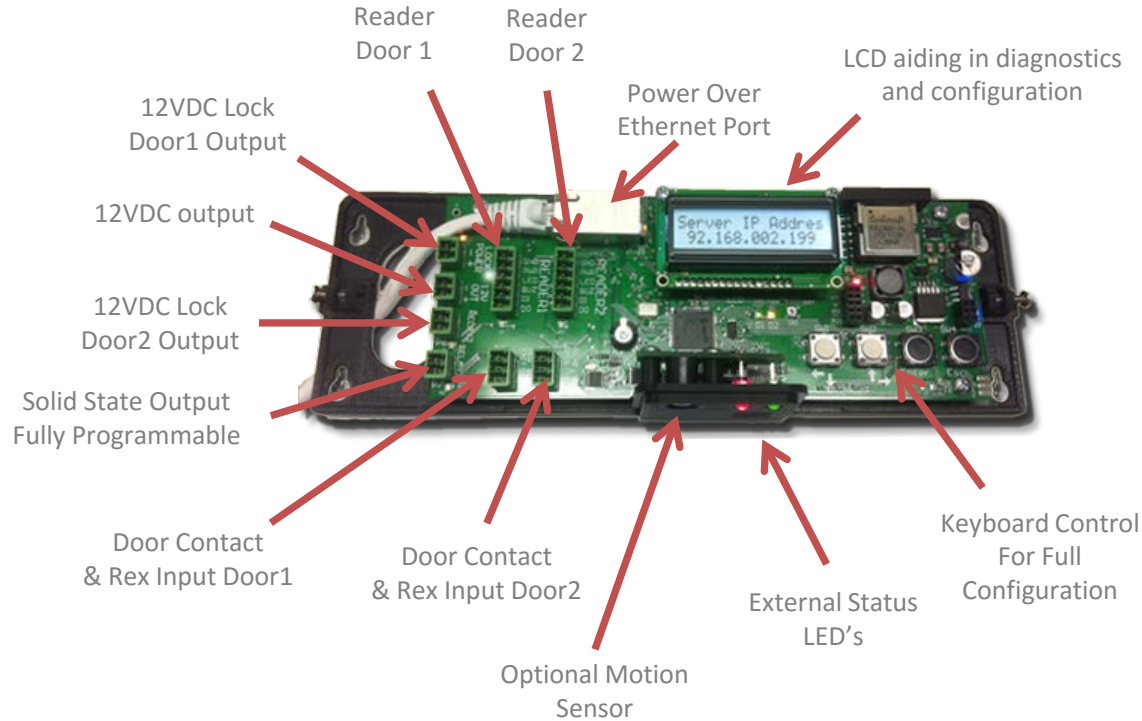
# Vicon VAX

## HARDWARE OVERVIEW

- Unique over-the-door design, drastically reduces installation and service time.
- On-board LCD/diagnostics reduces manpower during installation and service.
- Scalable interoperability with laptops, tablets and smart phones (Android, Apple, Blackberry)
- Supports static or DHCP Connection Modes.
- 12VDC/500mA output. Supports both electronic strike or maglocks through POE.
- Versatility. At the door, over the door, back in the closet.

# Vicon VAX Panel

## ODM (Over the door Module)Layout



# Vicon VAX

## VAX ODM Specification

|   |  |
|---|--|
| 32-Bit Microprocessor-Based                     |  |
| Power over Ethernet                             | IEEE 802.3af PoE standard provides up to 15.4 Watts.   |
| DC 12V power output for motion or other devices |  |
| Output Port (fully configurable)                | Lock relay - supply power (12V, 500mA) to the lock, over current protection, SSR Relay2, SSR Relay3 - 60V (TVS circuit limits 24V), 500mA, fully configurable, no mechanical ports |
| Input Ports                                     | Fully configurable including supervised or digital input setting, includes door contact, exit button, external request to exit motion etc.   |
| Tamper Sensor                                   | Photo tamper sensor (configurable)   |
| Readers Ports                                   | 2 ports, hardware data monitoring LEDs, configurable reader port mapping (Example: Reader-Port1 maps to Door1-Outside.)  |
| Networking                                      | 10/100Mbps supporting Static or DHCP modes.  |
| Displays  | 2 Line x 16 Ch LCD Display (contrast adjustable) with LED back light (brightness adjustable) 4 user LED's, 2 power LED's, 3 relay output indication LED's, 2 Ethernet status LED's |

# Vicon VAX

## VAX ODM Specification (Continued)

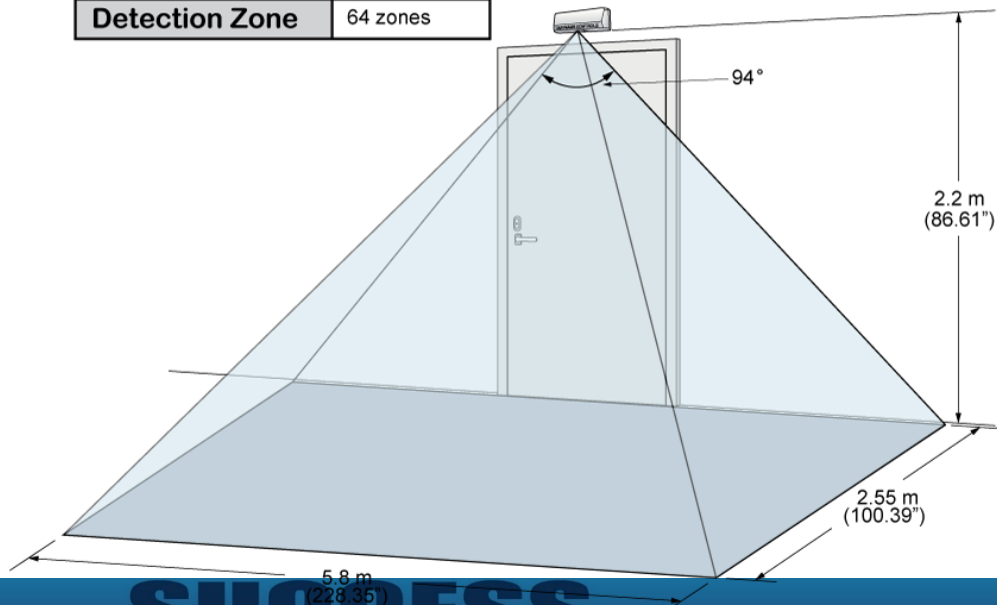
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| Keyboard                     | Four user push buttons for data entry or output selection.                   |
| Time                         | Keeps up to 1 month without power connection.<br>No battery needed.          |
| Sounder                      | On-board piezo buzzer (90dB at 10cm), Optional loud buzzer (100dB at 100 cm) |
| Multi-purpose Expansion Port | Supports WiFi, serial, extra memory, I\Os .. (for future expansions)         |

# Vicon VAX

## Motion Sensor

### Specification

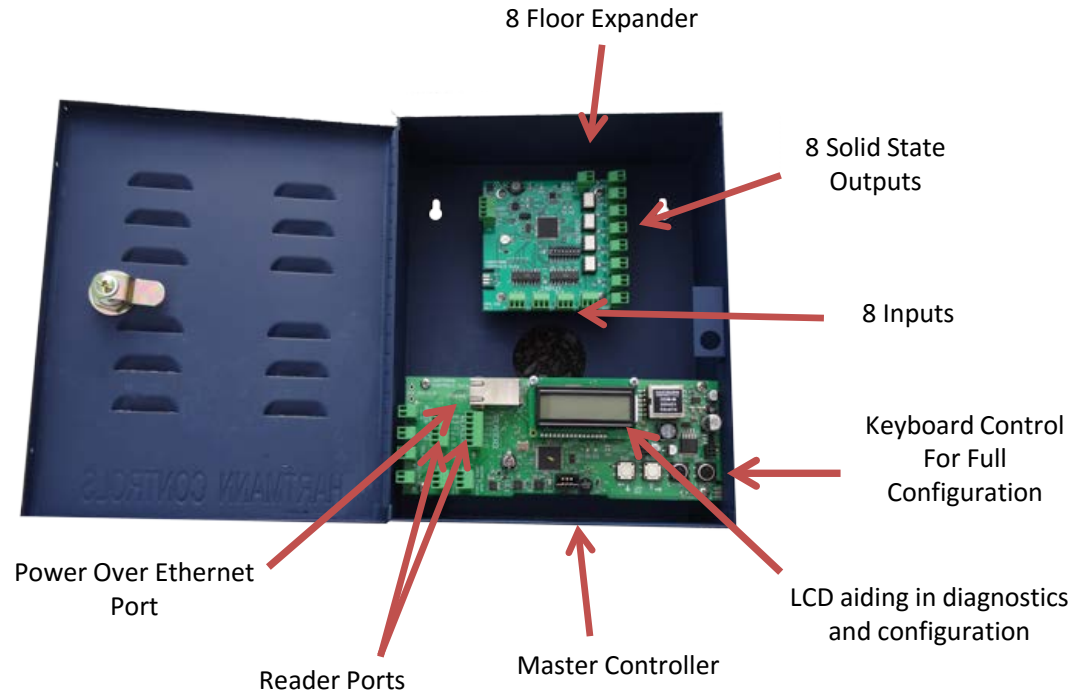
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|-----------------|----------------|
| Sensor Type     | PIR            |
| Detection Range | 5 m            |
| Detection Angle | H: 94°, V: 82° |
| Detection Zone  | 64 zones       |





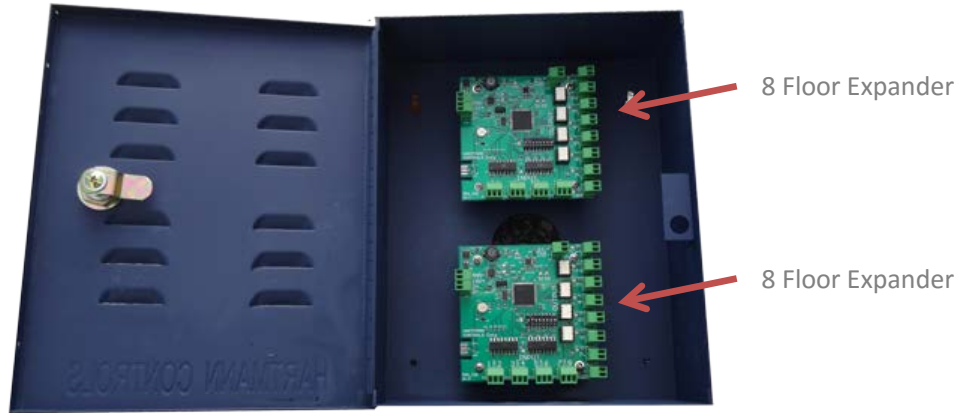
# Vicon VAX

## ELEVATOR CONTROLLER WITH 8 FLOOR EXPANDER



# Vicon VAX

## 16 FLOOR ELEVATOR / IO EXPANDER





# Vicon VAX

## VAX



## VAX SOFTWARE FEATURES

- SQL Database, reliable and robust data storage
  - HTML5 enabled web client. Scalable
  - Advanced SSL encryption
  - Unlimited Access Groups
- 
- Manage unlimited sites across multiple time zones
    - Unlimited Doors
    - Unlimited Users
    - Unlimited Door Time Zones

# Vicon VAX

## CAMERA SYSTEM INTEGRATION OVERVIEW

- Real time or historical video right from the web browser
- Integrate with MULTIPLE Vicon camera systems across the internet
- Associate cameras with Doors or Elevators
- PTZ camera Presets allow one camera to monitor multiple Doors
- Historical access reports can pull up historical camera view of the event
- Cameras can be viewed on different screens for multi-monitor setups
- Secured with HTTPS
- Customizable alerts that can spawn a camera feed

# Vicon VAX

**Home**  
Welcome to your Hartmann Controls Access System

**2/2**  
Panels Online

**Day To Day**

- Users**  
View all users
- Access Privilege Groups**  
View access privilege groups
- Custom Fields**  
Manage users custom fields
- Holidays**  
View holidays
- Import Cards**  
Import card holders from csv
- Camera Viewer**  
View cameras from camera system

**Reporting**

- Administrative Log**  
View historical administrative history
- Notifications**  
View historical notifications
- Floor Activity**  
View historical floor activity
- Alert Monitoring**  
View realtime alerts and notifications
- User List**  
View list of all users
- Door Activity**  
View historical door activity
- User Activity**  
View historical user activity

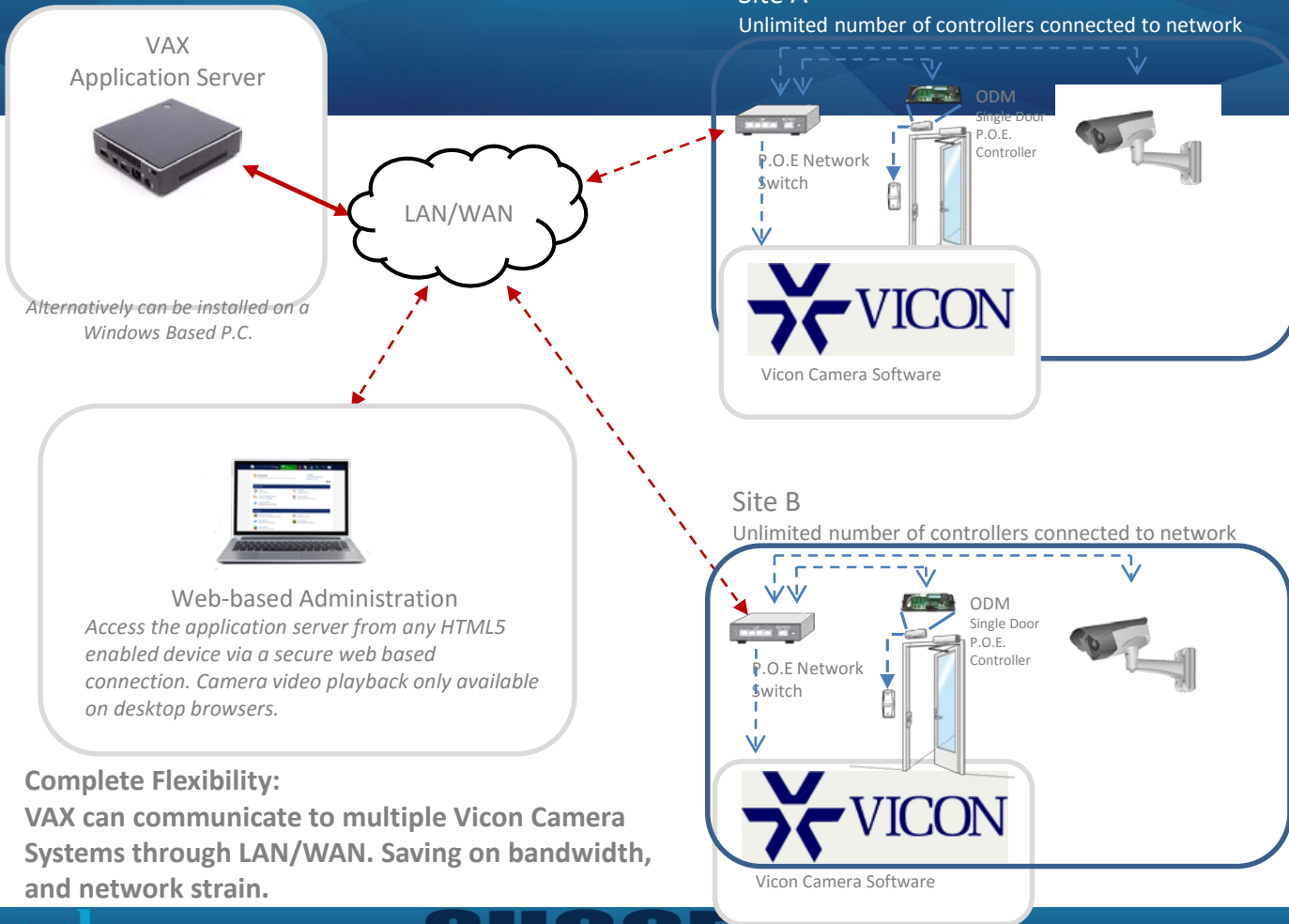
**Scheduling**

- Floor Time Zones**  
View floor time zones
- User Time Zones**  
View user time zones
- Door Holiday Time Zones**  
View door holiday time zones
- Door Holiday Groups**  
View door holiday groups
- Door Time Zones**  
View door time zones
- Floor Holiday Time Zones**  
View floor holiday time zones
- User Holiday Time Zones**  
View user holiday time zones
- Floor Holiday Groups**  
View floor holiday groups

**Front Entrance**  
Default Site  
Door Front Entrance Is Now Unlocked  
2015-2-24 14:33:13

**Front Entrance**  
Default Site  
Front Entrance has been overridden.  
Current state is Unlock  
2015-2-24 14:33:13

**VICON 192.168.2.166 - SM653V0007D8181FGA**



**Complete Flexibility:**  
VAX can communicate to multiple Vicon Camera Systems through LAN/WAN. Saving on bandwidth, and network strain.

# VAX Server Prerequisite

VAX server software is installed on Windows 7/8/10 Professional 32-bit or 64-bit; Windows 2003, 2008, or 2012 server. It's possible to install on virtual machine.

## Server Minimum Specifications:

- Intel Core I5 processor or higher
- 4GB RAM
- 5GB Free Hard Drive Space (Additional space required for database).

**Note:** The computer specifications are the minimum standards for a basic system. When a system includes a large number of clients (10+), controllers (50+), and/or users (2000+), additional server power is strongly recommended.

*\*Refer to VAX Tech Guide pg. 17.*



# VAX Server Software Components

VAX is a modern HTML5 web-based client/server access control system. The server application is designed to be installed on stand-alone PC and may be accessed using one or more clients via web browser. VAX Server software consists of:

- **VAX Access Control Web Server:** The web server hosts the web application and facilitates client access to managing your access control system. On VAX server, access web service by going to Windows Start menu→All Programs→VAX Web Interface. On web client, type <https://VAXServerIP:11001>  
Username (email address) and password are what you initially set after software installation
- **VAX Access Control System Monitor:** The System Monitor allows you to view the status and offers limited control over the web server and backup/restore utilities. On web client, type <https://VAXServerIP:11002>  
Default Username:vicon Password:viconaccess
- **Microsoft SQL Server Database:** VAX server software is designed to back onto a local or remote Microsoft SQL Database. You can use the free (included) SQL Express 2012 or your own pre-installed instance of Microsoft SQL (minimum version of 2008 recommended). Non-Microsoft SQL Database is not supported.

*\*Refer to VAX Tech Guide pg. 17.*