Overview

Vicon Access Control (VAX) is a full-featured credential-based system that can be installed on a standalone PC or ordered preinstalled on a Vicon certified server. It can be accessed and controlled by a standard web browser on a local or wide area network, the Internet or a wireless network. No software installation is required to access the system.

This Access Control on the Edge consists of a dedicated Vicon Access Control Server and the edge Controller(s). The Server contains the operating system, database engine, web server, application software and configuration data. The Controller communicates back to the Server over the network and provides an interface to readers, relay outputs, door locks, etc.

The VAX-PC is a dedicated Vicon Access Control Server that is available in a desktop or rack-mount version (VAX-PC-RK). The server can be configured with the software license of your choice.

VAX provides many innovative features.

Integration with VMS

VAX is fully compatible with both Vicon Valerus™ and ViconNet® Video Management System and combining VAX with a VMS provides a complete solution for access control and video surveillance applications from small systems to very large systems. In addition to being fully compatible with both Vicon Valerus™ and ViconNet® Video Management System, VAX also integrates with Milestone®, Digital Watchdog® and Exacq®VMS.

VAX seamlessly integrates into the Valerus VMS. Video from Valerus can be automatically linked to VAX to be viewed.

Action Control Engine

An Action Control Engine implements global linking in an easy-to-use customizable and powerful GUI. It is meant to provide users with the tools to solve unique access control situations and custom define the Access Group and Notifications.

Advanced Interactive Mapping

An interactive map feature is provided that can scale to any need, whether a single map or multi-building or multi-floor solution is required. They offer easy navigation between buildings, floors and areas, with real-time status and live viewing available with a click.

Support for Multi-Door Master Controllers

VAX supports PRS (Panel Retrofit/Room Style) master controllers that allow multiple doors to be managed through a single IP address. The master controller supports live firmware updates and allows custom actions to be executed and schedules to be defined at the panel level.
HID EasyLobby
VAX integrates to HID EasyLobby® Visitor Management through a VAX software module; a visitor card assigned through EasyLobby is automatically mapped to VAX and granted access to selected doors.

Unlimited Scalability
VAX offers unlimited doors, elevator floors, inputs/outputs, users, door time zones, access privilege groups, system administrators, and user roles; manage unlimited sites across multiple time zones and a comprehensive partitioning of the system.

Unmanaged and Monitored Doors
Doors that are not controlled by VAX but do have a door contact can be monitored using the input from the contact to determine its status. An Unmanaged Door has all the features of traditional Managed Doors except it has no reader.

Other Innovative Features
Credential validation can be based on time of day, day of week, holiday scheduling, door mode and any customized scheduling, as well as credential combinations.

Anti-passback prevents any credential (card, fob, PIN) from being used twice to gain access without exiting first.

Photo ID badging integration is easily accomplished via SQL database.


ORDERING INFORMATION

VAX Servers

<table>
<thead>
<tr>
<th>Description</th>
<th>Model Number</th>
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<td>VAX-PC-A</td>
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<td>Vicon Access Control Server; for customized preinstallation of selected VAX software license; rack-mount model</td>
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<table>
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<tr>
<th>Model Number</th>
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<th>No. of IO</th>
<th>No. of Elevator cabs</th>
<th>Unmanaged/ Monitored Doors*</th>
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* A Monitored Door is a door that is not controlled by the access control system but does have a door contact. The input from the door contact is used to determine if the door is open or closed. An Unmanaged Door has all the features of a Managed Door except there is no reader.
Server (Minimum PC Specifications)

Operating System: Microsoft® Windows® 7 32-bit or 64-bit or newer. Windows 10 or Windows Server 2012 is recommended for optimal performance. Vicon's server is Windows 10, 64-bit.

CPU: Intel® Core™ i5 processor.

Memory: 4 GB RAM, 5 GB free hard drive space; Vicon’s server has 8 GB.

DVD Drive: Internal DVD drive not available on most units. External USB DVD can be used.

Ports: USBs, Monitors.

Network Interface: 100/1000 Base T Ethernet interface on main board.

Certifications: FCC Class A.

Electrical

Input Voltage: 105-240 ±10% VAC, 50/60 Hz.
Current: 0.66 A @ 115 VAC, 0.33 A @ 240 VAC.

Power Consumption: 76 W nominal.

Heat Output: 266 btu/hour.

Power Connector: Standard 3-conductor female socket.

Mechanical

Application: Indoor.

Mounting: Standard desktop chassis or 19 in. (483 mm) rack-mount, 1 RU height.

Dimensions:
Rack-Mount: 1.75” (44.45 mm) H x 19” (483 mm) W x 15.5” (394 mm) D, without connectors; 16” (406 mm) D, including connectors.
Desktop: 6.59 in. (167.5 mm) H x 2.13 in. (44 mm) W x 6.59 in. (167.5 mm) D.

Weight:
Rack-Mount: Approximately 18.2 lb (8.3 kg).
Desktop: Approximately 8.1 lb (3.7 kg).

Construction: Steel and plastic.

Environmental

Operating Temperature: 32° to 104°F (0° to 40°C).
Humidity: Up to 95% relative, non-condensing.

Warranty
2 years parts and labor.

Dimensional Drawings

[Diagram of Server Dimensions]