

SECURITY SOLUTIONS GUIDE

Integrated Security Solutions for Today's Business



You have an Important Decision to Make

First Step: Choose the right supplier.

Make sure your security solutions provider offers a true end-to-end solution, with established integration partners, innovative technology, knowledgeable 24/7 customer support, and scores of delighted, long-term, repeat customers. For over 50 years, companies and businesses of all sizes have placed their trust in Vicon's Security Solutions. Our global customer base is over 40,000 strong, and spans a diverse array of industries, from the smallest franchisees, to enterprise Fortune 500 companies, to complex campus environments.

Leveraging the investment your company has made in security, surveillance, and facilities management can be an intimidating undertaking. **Choosing the right tools to help you integrate, deploy, and manage those resources is your critical first step.**



A robust, end-to-end security solution is essential to the safety and security of your employees, customers, property, and assets.



Vicon delivers those end-to-end components that make up your comprehensive solution, and our integration frameworks allow you to manage everything as one centralized system, optimizing your security operations—locally, across multiple sites, and across the globe.

Manage your surveillance infrastructure with confidence.

Valerus Video Management Software (VMS)

Loaded with powerful features to improve response times, expedite searches, and reduce ongoing maintenance costs—Valerus streamlines every aspect of your security operations.

Application and Recording Servers

The powerhouse behind the scenes, these servers bundle the Valerus software, the recording software, and the Windows operating system, pre-installed, pre-tested, and certified for plug-and-play operation out-of-the-box.

VAX Access Control

Centralized and interactive monitoring and management of doors, elevators, and other protected areas, locally and at multi-site locations.

Extensive Camera Portfolio

Having the right camera for your application is like having the right tool for the job, so we offer a diverse lineup to address our customers' requirements, no matter how challenging.

Integration Frameworks

This is the backbone of our data integration ecosystem. The framework collects, assimilates, and delivers information across and among the various systems it integrates. This allows us to roll out new integrations easier and faster to meet a variety of applications.

There's a Lot of Information Out There

Pulling it all together and helping you manage it—from a single user interface—is where Valerus VMS comes in.

Valerus provides all the features users count on to make their jobs easier and more intuitive. Its sophisticated—yet simple and flexible interface—helps you monitor video, audio, alarms, access control, license plate recognition (LPR), and system health, in real-time. Plus, it exponentially reduces the time you spend on post-incident investigations, and allows you to deploy and maintain your surveillance infrastructure with ease. Valerus software runs on a variety of platforms—from a small independent Workstation, to a Vicon Application Server, to a large-scale virtual machine—to meet any customer application.



Valerus is a centralized platform that allows you to control not just your video, but also your integrated applications like access control, LPR and vape detection as well.

“Valerus licensing was less expensive than all the other VMS systems. Centralized management, remote access, and a customizable user interface help our team use the system to its maximum potential.”

VP of Facilities, Major Health Partners



Platform Centralization

Allows you to interact with other applications, like access control and LPR, directly from the Valerus interface.



Interactive Maps

Let you control a variety of components (e.g., door strikes and PTZ movements) via icons overlaid on maps of your facility.



Customized User Interface

Based on job responsibility and language of preference dramatically reduces the learning curve.



Free Mobile App

Lets you check in on your business from wherever you are; see live and recorded video from any camera and get push notifications about important events.



Sophisticated Alarm Management Tools

Help you respond immediately and more efficiently to critical situations; equip the right person with the right info, at the right time.



Precision Search Tools

Expedite investigations and help you find, review, and export critical evidence with ease.



Intuitive Dashboards

Dramatically simplify day-to-day system administration operations, even for the most complex surveillance infrastructure.



Protect Your Data

With advanced cybersecurity settings and server redundancy.



Auto Discovery and Configuration Tools

Help facilitate a seamless installation.

Alarm monitoring and response made easy.

Sophisticated alarm management can help you respond to critical situations quicker and more efficiently.



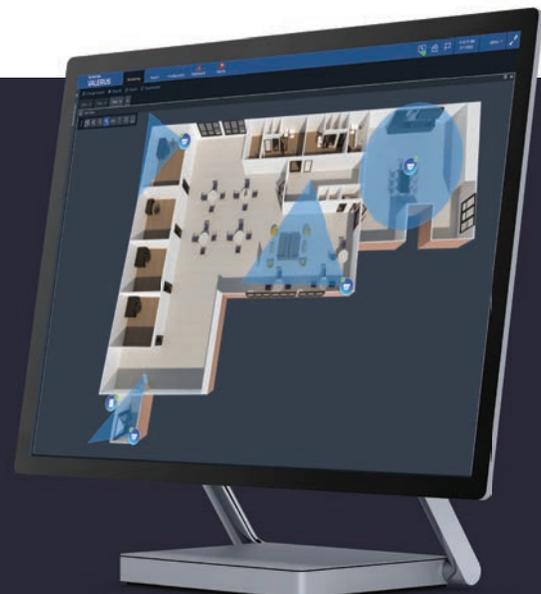
You can configure alarm inputs (like a wire cross) to automatically trigger relay outputs (like a door strike) in response to critical situations (like a perimeter breach).

Arm operators with specific step-by-step procedures to follow in the event of an alarm, which helps eliminate guesswork.

All alarm activity is recorded, providing you with an official record, complete with associated video and what action was taken by the operator.

Better visualize your security operations.

With interactive mapping, you'll see icons of resources like cameras and readers overlaid on floorplans or maps of your facility. You'll get instant notification of alarms, watch live or recorded video right from the map, and interact with devices like door strikes to lock and unlock doors.



When it comes to speed of investigation, you'll win!

Post-incident investigations can consume a lot of your time. Valerus gives you focused tools to help you rapidly gather and retrieve evidence. Hours spent searching through video can now be reduced to minutes, so you can find what you're looking for.



Museum Search

Also called "smart search," this feature lets you search for motion in an area of recorded video, and receive a list of all events that occurred within that area. By searching only for motion in designated areas, and within a certain time period, you will reduce the amount of non-relevant video you watch.



Thumbnail Search

Thumbnail versions of video help you search for specific incidents or a specific time frame in your video. Hover over a thumbnail to enlarge it so you can see the detail in the picture. Click on a thumbnail to jump to that specific date and time in the recording.



Event and Alarm Search

Quickly zero in on events and alarms to expedite your investigations. You can find a variety of events – from edge analytics to LPR and Access Control events – in just a few clicks.

"The Valerus system features a very easy-to-use interface that doesn't require a lot of technical experience, which allows us to do what we need to do."

Managing Partner, Play Dog eXcellent

Keep all of your devices working optimally with Valerus health monitoring.

When you're in charge of managing and securing a large enterprise application—with potentially tens of thousands of cameras and recording devices—how can you keep track of the status of all those components and your network in real-time? The Valerus health dashboards give you an at-a-glance summary of your infrastructure, so you can quickly filter on issues and pinpoint concerns that may need further attention.



Check in on your business from wherever you are.

The Valerus smartphone app lets you view live and recorded video on your smartphone or tablet. Remotely conduct a “virtual patrol” to assess the situation in advance, prior to taking action. The app runs on iPhones, iPads, and Android devices, and you can download it for free from the Apple or Google App Stores.



If you're logged into Valerus, you can get web push notifications on your smartphone about events that are important to you.

Choose the Valerus offering that's right for your business.

Features	CORE	PRO	ENTERPRISE
Max edge devices	Up to 35	Unlimited	Unlimited
Max concurrent clients	10	Unlimited	Unlimited
Max days of recording	Unlimited	Unlimited	Unlimited
Standard features	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Advanced features		<input type="radio"/>	<input type="radio"/>
Museum search		<input type="radio"/>	<input type="radio"/>
Interactive maps		<input type="radio"/>	<input type="radio"/>
3rd party integrations		<input type="radio"/>	<input type="radio"/>
Alarm management		Limited	Full
Recording server failover			<input type="radio"/>
Active directory integration		<input type="radio"/>	<input type="radio"/>

“There are no limits to features or different ways to navigate if you're using a mobile device or connecting remotely.”

Security Director, Cathedral of St. John the Divine

Check out the Valerus TRY version!
Vicon offers a free trial version of Valerus software that includes fully functioning demos so you can try before you buy.



VALERUS SHADOW SERVERS

Vicon's Server Line Scales in Performance to Match Your Requirements

If you prefer your Valerus solution pre-loaded onto a server, we offer our powerful VMS functionality in a variety of server offerings that scale in performance to best match your requirements.





More Throughout

Get higher throughputs so you can manage more cameras than ever before.



Activate in Minutes

Simply activate your license in a few simple steps and you're ready to go.



Preloaded for Faster Installs

Valerus comes pre-installed and pre-configured, cutting down installation time.



Optimized for Valerus

Get rid of the bloatware and get more from your servers.

Shadow Elite Servers

The Shadow Elite Servers are bundled with the Microsoft® Windows® Operating System and Vicon software, providing you with a single interface to manage your entire video surveillance infrastructure. And it's all pre-installed on a Dell® Server, pre-tested, and certified for plug-and-play operation out-of-the-box.



Increase Retention

Get more storage than most competitors offer so you can keep more footage longer.



Trusted Technology

Built with Dell & Intel® technology for long-lasting performance.



5-Year Warranty

All Shadow Elite servers are backed by a 5-year warranty with next business day, on-site support.



Get Free Licenses

Each Shadow Elite machine includes free Valerus PRO licenses, so you get more bang for your buck.



Recording Servers communicate, stream, and record video and audio from the edge devices.

- Non-RAID versions accommodate up to 32TB storage, 100 cameras, and 200Mbps throughput
- RAID versions accommodate up to 1600TB storage, 250 cameras, and 800MBps throughput, and an integrated Dell remote access controller
- Available in rack mount and tower form factors



Application Servers centrally manage the system, run the web server, and service the web clients.

- Available in 1U rack mount and small tower form factors
- Rack mount includes dual redundant power



Client Workstations run Valerius VMS in a web browser for a powerful user interface.

- Accommodates up to four monitors
- Max storage 16TB
- Available in 1U rack mount and small tower form factors

Vicor also offers the standard Valerius Server Line—including recording, application, and workstation servers—optimized for small-to-medium-sized installations.

VAX ACCESS CONTROL

Mitigate Security Breaches and Improve Building Automation



VAX Access Control solutions give you better regulation over who enters your business and apply tighter restrictions to sensitive areas.



Configuration Settings

Copy your configuration settings (like users, crisis levels, access groups, devices and scheduling, camera configuration, and more) from one system and apply them to another.



Video Integration with Valerus VMS

Improve situational awareness and get more thorough post-incident event analysis through VAX's integration with Valerus.



Scales with Your Business

VAX accommodates any size business, from small to enterprise, with the ability to easily upgrade as your business grows.



Built-in Motion Detection

VAX controllers are the only access controllers with integrated PIR/Request to Exit Motion built right into the panel.



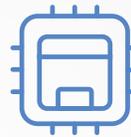
Open Supervised Device Protocol

Our Open Supervised Device Protocol (OSDP) supports end-to-end encryption between the reader and the panel.



Browser-Based Software

Browser-based software means a quick, intuitive interface that doesn't require custom software installs at each workstation. Mobile credential technology is also available; the smartphone app provides the access credential.



Flexible Hardware Options

Easily customize your access control solution with a wide variety of controllers, readers, cards and mounting options.



Push Notifications

VAX offers web push notifications so you won't miss a thing, even if you're multi-tasking.



Flexible Mounting Options

We offer some of the most flexible mounting choices, including our unique over-the-door option.

Manage your access control assets via interactive maps of your facility.



Interactive icons of doors, readers, etc., are overlaid onto maps of your facility.

- See alerts, door state, door notifications, and access notifications right from the alarm list and interactive maps for an all-inclusive view of your facilities.
- Enable door overrides, which will speed reaction time if you catch something on-screen.
- Find and bookmark VAX events in corresponding video feed.



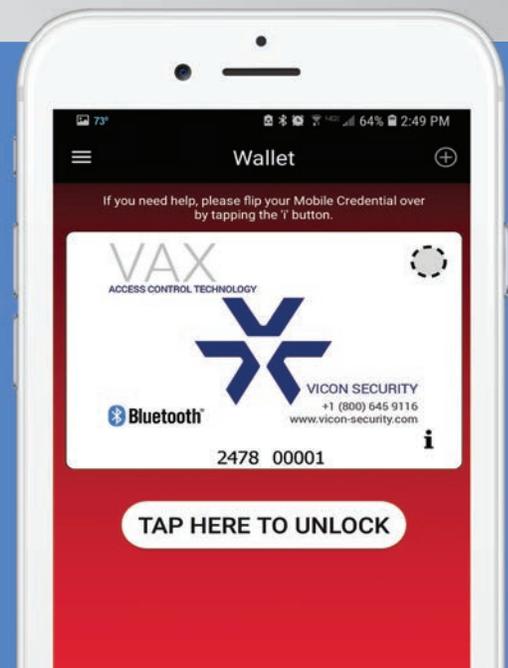
Door



Door Alarm

“One of my favorite things about the VAX Mobile App is that I can open my app on my phone before I get out of my car. I just click “unlock,” run up to the door, and I have 30 seconds. I get to the door, it’s unlocked, I’m not fumbling for keys, I can get inside and start my day.”

Regional VP, Conference Technologies, Inc



Deploy a highly secure access control solution.

The comprehensive VAX offering can be tailored for your unique requirements—door by door, building by building, across multiple sites, and across the globe.



VAX Software provides centralized monitoring and management of access to doors, elevators, and other protected spaces throughout your facilities. The browser-based software is packed with intuitive management and reporting features.

- Web-based interface includes hot buttons for daily tasks, an overall summary screen for reminders, and tree formatting for quick viewing.
- Integrates with your existing security systems, like fire, intrusion, video, and elevators, for a holistic building security solution.
- User time tracking reports provide a user-by-user summary of total hours spent within a defined area.
- Mix and match over 50 customizable actions.
- Monitor doors that are not controlled by VAX.
- Get detailed reports on user, door, floor, input, and output activity, and save those reports in a template.
- Over-the-door controllers include a “request to exit” motion sensor, status LEDs, and on-board communications.



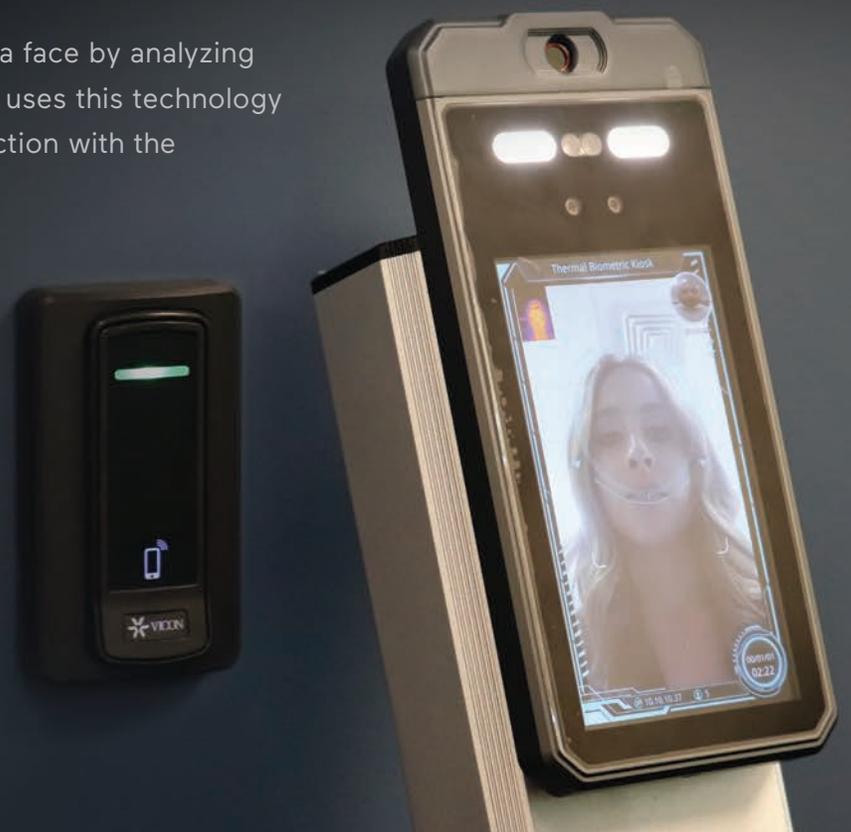
The flexible VAX hardware suite seamlessly integrates to provide an all-inclusive solution that's easy to install, maintain, and expand.

- **Door Controllers**
Offered in a variety of models (1-door to 16-doors) and form factors (over-the-door mount, wall mount, and rack-mount), and can include a built-in power supply.
- **Elevator Controllers**
Control access for four cabs and up to 64 floors.
- **I/O Controllers**
Handle up to 64 alarm inputs and relay outputs incorporated into the VAX system.
- **VAX Servers**
Contain the VAX software and Windows operating system pre-loaded onto a high-performance server.
- **VAX Readers**
Available in a variety of models (e.g., Bluetooth, smartcard, proximity), mounting options (e.g., metal doors, mullions, single-gang box), and protocols (Wiegand or OSDP). A variety of card credentials (smartcards, proximity cards, and FOBs) are also available.

Get Powerful Biometric Facial Recognition.

Facial recognition can identify and verify a face by analyzing facial contours. The VAX Biometric Kiosk uses this technology to provide dual authentication (in conjunction with the user's access card).

- Can be used as a standalone device or integrated with a card access platform.
- 99% accuracy rate with 0.2 second recognition time.
- Stores up to 30 thousand contacts and 60 thousand snapshots.
- Also measures for potentially elevated body temperatures.
- NDAA-compliant.





INTEGRATION FRAMEWORKS

Centralize Your Security Platforms with Vicon's Integration Frameworks

Delivering the best solutions...together



Single
User
Interface



Reduce
Learning
Curve



Seamless
Integration
of Separate
Platforms



Easier
Implementation
of New
Interfaces

Our frameworks are the backbone of our data integration ecosystem. They collect, assimilate, and deliver information across and among the various systems they integrate. This allows us to roll out new integrations easier and faster to meet a variety of applications.

The result? The different platforms, e.g., access control and license plate recognition, are all controlled centrally, via the Valerus UI. This helps reduce your learning curve as you move from one platform to another and makes the whole user experience more intuitive.



One single seamless UI, where VAX alarms and alerts are integrated into the Valerus interface

Deter Crime, Collect Evidence, Gain Peace-of-Mind

Vicon's award-winning camera portfolio.

We don't have to convince you about the importance of choosing the right cameras to protect your facility. Environmental and climate conditions, mounting requirements, lighting conditions, application and use cases, privacy considerations...these are just a few of the factors you'll need to consider when picking the right camera for the job. The good news is, Vicon has a camera for that. Over the years we've worked extensively with our customers to understand (and deliver!) exactly what they need in a security camera, no matter their application.



All of our cameras are ONVIF-compliant, so they seamlessly integrate with third party systems.

When you're considering a Vicon camera, rest assured...if it's labeled "Roughneck," it's not only NDAA-compliant, it's equipped with a multitude of impressive features.



Roughneck Features	Roughneck PRO Features
2 MP and 5 MP	2 MP, 5 MP, 8 MP
IP67 and IK08/IK10	IP67 and IK10
NDAA / GSA compliant	NDAA / GSA compliant
ONVIF compliant	ONVIF compliant
H.265 Smart Encoding	H.265 Smart Encoding
Smart IR	Smart/Adaptive IR
Standard Analytics	Advanced Analytics
	Starlight low light color images
	-40 F / -40 C with dual heater system

The Roughneck advantage: NDAA-compliant and priced to compete

Globally, businesses and manufacturers are scrambling to find high-quality cameras to meet strict NDAA regulations. That's why we developed our Roughneck line. These high-performance, NDAA-compliant cameras are the perfect fit for installations that require high-quality, affordable cameras that are not on the banned list.



Roughneck Pro Multi-Sensors

V2020-WIR-360 | V2032-WIR-360

A single Multi-Sensor (with a single IP address and cable) replaces four separate cameras, at a fraction of the cost. This also reduces the time and expense of installation, setup, tuning, and maintenance.

- Choose from four 8 MP (4K) or 5 MP sensors for an overall resolution of 32 MP or 20 MP.
- Setup and reposition cameras in seconds, right from your computer.
- Pre-defined presets deliver 180°, 270° and 360° views, and you can define additional presets of your own.
- See color images in near total darkness—no need for the camera to switch to B&W mode.
- Alarms and audio enhance overall security.



Roughneck Pro Fixed Domes

V200XD Series | V210XD Series

Vicon offers a variety of high-quality, NDAA-compliant fixed IP domes for indoor and outdoor applications.

- Choose from several resolutions (2 MP, 5 MP, and 8 MP).
- Vandal-resistant indoor/outdoor models accommodate a myriad of mounting applications.
- See color images in near total darkness—no need for the camera to switch to B&W mode.
- Alarms and audio enhance overall security.



Mounting Accessories

A variety of mounts are available to accommodate any mounting application.



Long Wall Mount
SVFT-UWM-1



Short Wall Mount
SVFT-WM-1

High-definition video and powerful optical zoom capabilities protect wide areas, indoors and outdoors.

- The rugged Roughneck Pro PTZ has 30X optical zoom and advanced analytics for faster responses.
- The Cruiser HD PTZ includes enhanced quad-streaming capabilities.
- The Thermal Sensor PTZ offers thermal detection and real-time tracking of targets up to 1,640 feet in a 360° panoramic view, and geospatial tracking on localized maps.



Roughneck Fisheye Camera

V2360W-12

Reduce your overall camera count, eliminate blind spots, and enhance situational awareness.

- 360° panoramic dome with 12 MP resolution for exceptionally detailed images.
- No moving parts means improved long-term reliability.
- 3D dewarping in Valerus VMS.
- Rated for indoor and outdoor use.



Ceiling Mount
SVFT-UCM-1



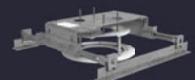
Parapet Mount
SVFT-UPM-2



Corner Mount
V-24CMB-4



Pole Mount
V-20B-A-4



In-Ceiling Mount
V2000D, V2360W-12,
V2000-360

Roughneck Bullet Cameras

V200XB-W31XMIR | V210XB-W313MIR | V210XB-W28IR

An impressive selection of bullet cameras provides superior low-light capabilities and a water-tight installation.

- The Roughneck Pro Bullet Camera is available in 2, 5, and 8 MP (4K) resolution with advanced analytics.
- The Roughneck Bullet and Mini-Bullet are cost-effective cameras with exceptional image quality in any environment.



Roughneck Pro Box Camera

V2008-W-NL

The Roughneck Pro Box Camera contains advanced features for high-quality surveillance.

- 8 MP (4K) resolution).
- Advanced analytics for faster response time.
- Supports a variety of lenses (sold separately): Megapixel DC iris, P-iris, or i-CS formats.



Additional Accessories

A variety of accessories are available to augment your surveillance routine.



Monitor

23.8-inch monitor with 1920 x 1080 resolution and HDMI/VGA/BNC inputs.

Save the time and expense of replacing your coax cabling with Vicon's comprehensive suite of HD Analog Cameras, which support AHD/TVI/CVBS, and are available in a variety of form factors.

- A 2 MP day/night box camera can accommodate a wide range of lens options to accommodate a variety of applications.
- Vandal-resistant domes (available in rugged plastic or die-cast aluminum housings) incorporate a 2 MP camera with motorized varifocal lens.
- The 2 MP Bullet Camera provides a watertight installation and defog capabilities for outdoor (and rugged indoor) environments.
- The 2MP PTZ Dome offers 20X optical and 16X digital zoom.



Specialty Cameras

These specialized cameras are custom-designed for very specific security applications.

- The Roughneck V-CELL is a heavy-duty, stainless steel, high-security camera with 3 MP resolution, designed primarily for the hardened requirements of prison cells and custodial suites.
- The Thermal Bullet delivers thermal imaging typically deployed in perimeter and wide area detection.



Transmission

Fiber-optic media converters extend transmission range.



Network Switch

10 and 24-channel models include LAN connections with PoE+/PoE++. Choose from 240, 380, and 480 watt PoE budget.



VICON OFFERS

Professional Services

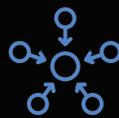
Selecting a security system marks the beginning of a long-term relationship between customer, integrator, and manufacturer. While installation may not be complete for some time, your financial and emotional investment begin at the time you make that commitment to purchase. It's important for you to feel confident in your choice from day one, even before your system is operational. And Vicon is determined to make that happen, offering a range of professional services that ensures your entire experience is trouble-free.



Decreased time to implement new solutions



Simplified deployment with reduced associated costs



Streamlined communication through a single point of contact



Enhanced level of service and ease of access to available resources

“One of the top reasons CTI partners with Vicon is the support that we receive. We might call them for something simple that takes 15 minutes to resolve. Other times it might take an hour, but it’s typically resolved the same day. Other integrators might take a day, a week, or even longer if the situation is harder to troubleshoot.”

Conference Technologies



Deep Technical Experience

Vicon’s Field Sales Engineers work hand-in-hand with customers and integrators to get insight into specific requirements and ensure the Vicon solution meets everyone’s expectations.



Free U.S.-based Tech Support

End users and integrators alike can reach out to Vicon’s tech support 24/7 and can expect the fastest resolution time in the industry. When the situation calls for it, Vicon can remote into your system for even faster resolution.



Software Upgrade Protection Plan (UPP)

Vicon’s UPP subscription is probably the most affordable software protection plan you will find, with the highest potential for reward. Investing a few dollars per year will ensure your software is at peak performance, not just with the latest features, but also hardened against the latest cybersecurity threats.



Free Learning Development

Vicon offers ongoing opportunities for you to learn about our latest advancements in technology, as well relevant industry topics.



If you're a decision maker in your business, and you're ready to learn more about our end-to-end solutions, we invite you to contact your local Vicon Integrator or contact a Vicon Sales Rep directly.

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