# DATA/SPEC SHEET
## VICONNET VERSION 8 VIDEO MANAGEMENT SYSTEM

**VICON**



- Proven solution with thousands of successful installations worldwide
- Open platform Video Management System that works on a wide range of shelf hardware
- Available pre-configured on factory-certified computers
- Seamless integration of analog and network cameras
- Supports ONVIF-S based cameras
- Extensive integration with third-party technologies such as access control and video analytics
- Unlimited cameras, servers, & locations
- Distributed architecture with failover design
- Web/mobile client and PC-based interface options
- No complicated IP camera registration based on MAC ID
- Independent live/recording frame rates and resolutions

A feature-rich interface, reliable performance and fully scalable system, ViconNet® 8 allows for customization and compatibility with a wide range of ONVIF-S compliant video devices and commercial off-the-shelf (COTS) computer hardware. Distributed architecture allows ViconNet to support cameras, locations and users with no single point of failure. ViconNet is offered in a range of NVR packages for small, medium and enterprise-sized systems; these three levels are JUMP, ZONE and PEAK.

## Key Features of Version 8

### Compatible with Express Line
The Express line of NVRs and DVRs seamlessly integrate with ViconNet. Cameras being used with Express devices can be viewed and played back from the Site List.

### Vicon Access Control (VAX)
ViconNet supports the VAX access control module. The VAX system can map to any camera in the ViconNet system to view or record them.

### Edge Device Support
Any device that supports edge recording and playback can be viewed or played back directly from the User Interface.

### Easy Archiving
Archive Wizard enables you to easily create authenticated archives by selecting a camera and saved to any location, including removable media, for use as forensic evidence. Play the archived video on any PC using the embedded player.

### Display Settings
Automatically resize the monitor display to maximum resolution even when moving application between monitors.

### Camera Grouping
Easily move groups up and down the list to allow sorting the group list when adding new camera groups.

### Recording Management
Recording management allows quick and easy setup of the recording tasks, providing a list for the selection of cameras/microphones and choice of recording options.

### Web/Mobile Client
Monitor your system using a PC web browser or the mobile app (Apple or Android) that provides access to live and recorded video, including control of PTZ cameras.

### Quick Lookup Function
Each device list can be quickly searched for a text match to a specific device; includes a previous and next button.

### Enhanced Macro Functionality
Macro Editor provides advanced recording and scheduling configuration.

### Thumbnail Search
Quickly arrange a visual search for a selected time period,which can be continually narrowed. A thumbnail can be launched as playback or exported as an archive.

### Video Masking
ViconNet allows creating a mask in the VMS for any video channel, which can be removed from either live or playback by a user with the appropriate authorization.

### Events Management
TieViconNet video with data from a wide range of security systems, including access control, point-fo-sale, license plate recoginition and perimeter intrusion monitoring.

## Minimum Workstation Requirements

**Hardware:** Intel® Core™ i5 processor, 4 GB of RAM and 5 GB of disk space. Display Adapter: 256 MB RAM onboard, min.
NVRs/Workstations are available from Vicon or may be COTS equipment.

**Operating System:** Microsoft® Windows® 7 Professional 32 or 64-bit; Windows 8; Windows 2003, 2008 or 2012 Server.

## Functions and Features

**Compression:** H.264, ViconNet optimized MPEG-4 and JPEG (Normal and Full).

**Transmission:** Unicast and multicast.

**Displays:** Supports 16 x 9 and 16 x 10 wide screen as well as 4 x 3 standard viewing at a variety of resolutions.

**Third Party Camera Support:** List available at vicon-security.com/cam-support.

**Main Window Screen:** A multi-channel display area containing up to 16 connected cameras and microphones and all necessary controls to operate and set up the system.

**Graphical Map:** Supports realistic camera location (a Workstation with a dual output VGA will allow showing the map on a dedicated monitor while viewing video on the other).

**Site List:** A physical list of all known network Site areas and connected cameras and microphones.

**Play From Time:** Call up images from any database on the network from Main Screen.

**Navigator Window:** A graphical display of recorded video. It contains a set of function buttons used to access the video on-screen.

**Network and Sites Configuration:** Allows administrator to set up all IP address information and a system Nucleus and Backup Nucleus.

**Macro Capabilities:** Macros can be defined for recorded or displayed/played cameras, microphones and related devices (sensors).

**Authorization Rights Setup:** Group rights can be configured by specific site and user. Rights provide authority to perform limited or all system functions.

**Log Reporting:** Continuously running activity log.

**Alarm Capabilities:** Alarms can be programmed to annunciate under special conditions.

**Storage Database Utilities:** Allows setup and usage of detected hard disks locally, including high-capacity iSCI network storage devices.

**Authentication:** ViconNet uses a 128-bit MD5 type video authentication algorithm to verify exported video data integrity.
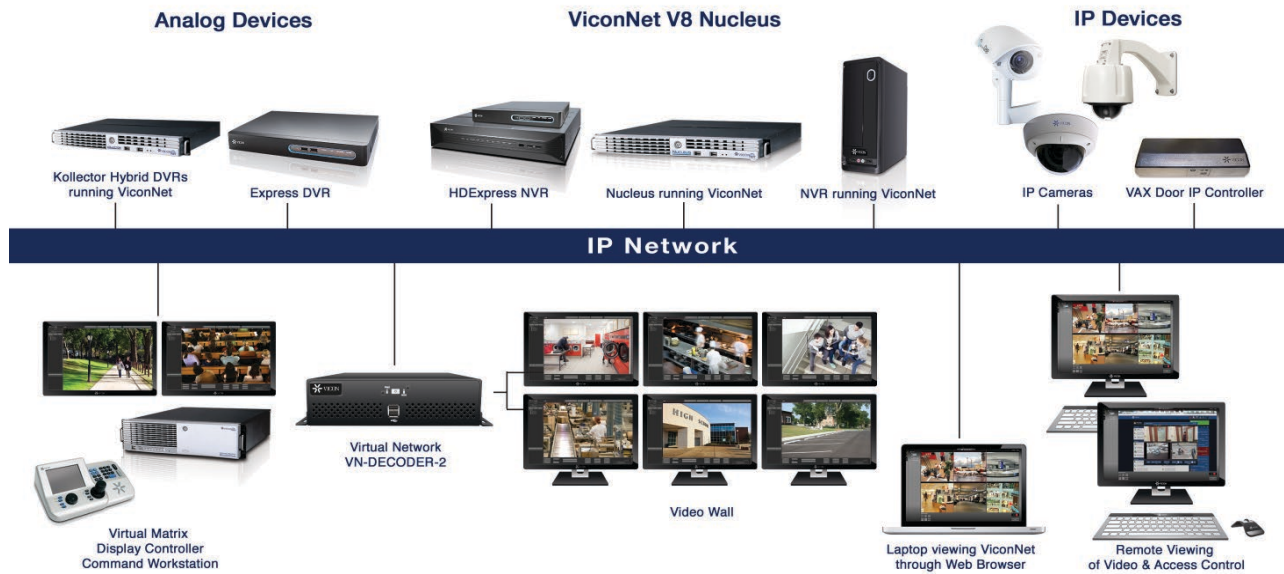
**Central Failure Notification (CFN):** Fault reporting system that provides application and hardware failure information to all DVRs and NVRs connected to the system.

**Events Management System (EVM):** Enables ViconNet to interface with an external system's database, for example, an access control, point-of-purchase, intrusion monitoring or license plate recognition (LPR) system.

**Museum Search:** Enables an operator to define a region within a specific Vicon camera's field-of-view, for example, a door, for indexing. This accelerates searching for a specific incident.

**Archive Wizard and Player:** Creates authenticated archives directly from the camera or a storage location and saves to any location or removable media. The video clip is playable using the embedded ViconNet player.

**Video Vault:** Allows any event that was tagged as an alarm (VMD, video loss, dry contact or from the Events Management system) to be saved to a separate database, where it cannot be overwritten by the system.

**Camera Licensing:** No fees for Vicon cameras. No complex IP camera registration process.

**Quick Lookup Function:** Search list of devices at each the Site List in the system. Includes Next and Previous function.

**Masking:** Create a mask in the VMS for any video channel. Can be removed from live or playback video as needed.

**Thumbnail Search:** Quick and visual search of recorded video. Selected time period divided according to screen displays video every few minutes, allowing identifying changes between times.

**Active Directory:** Interface to allow importing groups and users from another server to ViconNet.

**Recording Management:** Quick and easy setup of recording tasks; select from 24/7 continuous recording, recording on motion only or continuous recording with a boost to a differnt fps and/or resolution on motion.

**Camera Groups:** Create groups of cameras for specific purposes, like VAX; group list easily sorted.

**Edge Device Support:** Allows direct recording and playback from any edge device that supports this.

**Display Settings:** Automatically resize the application to the maximu resolution of the display monitor; adapts when switching between monitors.

**Access Control:** Fully compatible with VIcon's Access Control System (VAX).

**Express Line:** Fully compatible with the Express line of products, which also supports Edge Device functions.

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## Typical ViconNet System

In a typical configuration, ViconNet manages encoded analog video stream inputs from hybrid DVRs, Express DVRs and standalone encoders and IP video streams from IP devices, including HDExpress NVRs. All devices are connected to the network via a LAN, WAN or the Internet. With this configuration, ViconNet can direct video to any workstation, NVR or DVR on the network or a laptop or PC connected to the Internet running the ViconNet software or the web browser version of ViconNet. In addition, a Virtual Matrix Display Controller can be added to the system to provide multiple display options and the ability to control video walls.

ViconNet is available as a complete VMS system loaded on factory-certified hardware optimized for seamless operation and integration with Vicon's VAX access control system as well as other access control and security management systems. This includes a full complement of NVRs, workstations, DVRs, RAID storage devices, cameras and edge devices. Listed below are some key system components. Refer to www.vicon-security.com for more information.

| | Description | Model Number |
|---|---|---|
| | Kollector Series Hybrid Digital Video Recorders preloaded with ViconNet. Kollector Strike and Force models offer frame rates from 120 to 480 fps, 16 analog inputs, 8 IP camera support, a variety of storage options including internal or external RAID and MPEG-4, MJPEG or H.264 compression. | KFX-XTBV8 KSX-XTBXV8 |
| | NVRs and Workstations preloaded with ViconNet. NVR models in both tower and rack versions offer a variety of storage options including internal or external RAID and MPEG-4, M-JPEG or H.264 compression. Workstations provide the same capability but no recording ability. | VPK-XTBV8 VWS-PCV8 |
| | Virtual Matrix Display Controller. The VMDC provides a scalable matrix control solution for small and large installations. Available in tower and rack configurations, The VMDC is comprised of both a matrix command/control center software interface and a hardware decoding component that enables the remote network video streams to be displayed on multiple monitors in multiple locations. | VMDC-XV8 series |
| | Network Control Keypad. Used to control ViconNet digital video management systems, including Virtual Matrix Display Controller (VMDC) over an IP network or serial connection. | V1500X-SCCS-1 |
| | External Storage Options. Vicon offers a variety of external storage options using SAN and other technologies. | VN-SAN-XX-XXXX |
| | ViconNet Web Service and mobile application. Allows authorized security managers and operators to select and control video displayed from a browser-based interface. Available in tower or rack (R) configuration. | VN-RMT-PCV8 or VN-RMT-PCV8-RK |
| | Express line DVRs and NVRS. View cameras connected to Express DVRs and HDExpress NVRs directly from the ViconNet site list. A variety of models with 4, 8 or 16 channels in a choice of hard drive sizes. | EXPRES-8-XTB; EXPRES-16-XTB; HDXPRESL3-4-XTB; HDXPRESL3-8-XTB; HDXPRESL3/P3-16-XTB |

## Software and Licensing

| PEAK Network Video Recording Software and Licenses | Model Number |
|---|---|
| ViconNet 8 PEAK software single server license | VPK-SWV8 |
| ViconNet Multi-Pack; 10 user license pack of ViconNet PEAK V8 software | VPK-V8-10 |
| ViconNet 8 NVR single server license; 120-day evaluation version | VN-NVRV8-30 |

| ZONE Network Video Recording Software and Licenses | Model Number |
|---|---|
| ViconNet 8 ZONE software license. Supports up to 16 cameras | VZN-SWV8-16 |
| ViconNet 8 ZONE software license. Supports up to 24 cameras | VZN-SWV8-24 |

| JUMP Network Video Recording Software and Licenses | Model Number |
|---|---|
| ViconNet 8 JUMP software license. Supports up to 6 cameras. Free. | VJP-SWV8 |

| Workstation Remote Operator Software | Model Number |
|---|---|
| ViconNet 8 Remote Operator Workstation software. Single site license. | VWS-SWV8 |
| ViconNet Multi-Pack; 10 user license pack of VN-WSV8 software | VWS-V8-10 |
| ViconNet 8 Basic Remote Operator software site license | VN-VIEWERV8 |

| Web Server Software | Model Number |
|---|---|
| ViconNet Web Server/Mobile single server software license | VN-RMT-SWV8 |

| Nucleus Software | Model Number |
|---|---|
| ViconNet 8 Nucleus/Web server single server software license | VNUC-SWV8 |
| Nucleus Multi-Pack; 10 user license pack of VN-NUC-SWV8 | VNUC-SWV8-10 |

| Camera Licensing | |
|---|---|
| Third party camera license; one license per camera | VN-CAM-LIC |

## Software Maintenance Agreement

A Software Maintenance Agreement entitles the user free access to product upgrades. The contract runs one or more years and may be purchased along with the product or if a Product Upgrade is purchased. Refer to the ViconNet Version 8 Upgrade Guidelines Product Fact Sheet PF-219 for more information.

| Description | Model Number |
|---|---|
| ViconNet V8 NVR Software Annual Maintenance Agreement | VPK-MAINT-SWV8 |
| ViconNet V8 Kollector Software Annual Maintenance Agreement | VDVR-MAINT-SWV8 |
| ViconNet V8 Workstation Software Annual Maintenance Agreement | VWS-MAINT-SWV8 |
| ViconNet V8 Nucleus Software Annual Maintenance Agreement | VNUC-MAINT-SWV8 |
| VMDC V8 Single Workstation Annual Maintenance Agreement | VMDC-MAINT-SWV8 |
| ViconNet Web/Mobile Software Annual Maintenance Agreement | VN-RMT-MAINT-SWV8 |
| ViconNet 16-Channel ZONE Software Annual Maintenance Agreement | VZN-MAINT-SWV8-16 |
| ViconNet 24-Channel ZONE Software Annual Maintenance Agreement | VZN-MAINT-SWV8-24 |

## Software Upgrades from Prior ViconNet Versions

A Software Upgrade is a one-time purchase and does not entitle the user to additional product upgrades. Refer to the ViconNet Version 8 Upgrade Guidelines Product Fact Sheet PF-219 for more information.

| Description | Model Number |
|---|---|
| ViconNet V8 NVR Software Single Server License Upgrade | VPK-UPGRADE-SWV8 |
| ViconNet V8 Kollector DVR Software Single DVR License Upgrade | VDVR-UPGRADE-SWV8 |
| ViconNet V8 Workstation Software Single Workstation License Upgrade | VWS-UPGRADE-SWV8 |
| ViconNet V8 Nucleus Software License Upgrade | VNUC-UPGRADE-SWV8 |
| VMDC V8 Single Virtual Matrix Software License Upgrade | VMDC-UPGRADE-SWV8 |
| ViconNet Web/Mobile Software Single Web/Mobile License Upgrade | VN-RMT-UPGRADE-SWV8 |
| ViconNet ZONE License Upgrade, 16-Channel to 24-Channel | VZN-UPGRADE-SWV8-16-24 |
| ViconNet ZONE License Upgrade, 16-Channel to PEAK | VZN-UPGRADE-SWV8-16-VPK |
| ViconNet ZONE License Upgrade, 24-Channel to PEAK | VZN-UPGRADE-SWV8-24-VPK |