

## VICONNET VERSION 7 VIDEO MANAGEMENT SYSTEM



ViconNet® 7, Vicon's fully scalable, feature-rich VMS solution, delivers enterprise-level performance along with the ability to customize the system and compatibility with a wide range of commercial off-the-shelf (COTS) network video and computer hardware. Distributed architecture allows ViconNet to support an unlimited number of cameras, locations and users with no single point of failure. The result is a system optimized for your needs, with your choice of components, that delivers consistent performance and reliability.

### Key Features of Version 7

#### Recording Management

Recording management allows quick and easy setup of the recording tasks. It provides a simple list for the selection of cameras and microphones and three recording options, 24/7 continuous recording, recording on motion only and a combination of continuous recording with a boost feature.

#### Web/Mobile Client

ViconNet offers multiple ways to monitor your system. Using a PC web browser or the mobile app for smart phones or tablets (Apple or Android) provides access to live and recorded video, including control of PTZ cameras.

#### Easy Archiving

ViconNet's Archive Wizard enables you to easily create authenticated archives that save to a desired location, including removable media, for use as forensic evidence. Play the archived video on any PC using the embedded player.

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

#### 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. Run applications such as web pages, documents, spreadsheets and executable files from within ViconNet. Create batch files to run multiple applications.

#### Thumbnail Search

Quickly arrange a visual search for a selected time period; the time interval can be continually narrowed. Any thumbnail can be launched as a playback window or used to export an archive.

#### Video Masking

ViconNet allows creating a mask in the VMS for any video channel in the system. This mask can be removed from either live or playback at any time by a user with the appropriate authorization. This allows the flexibility to unmask an event if needed.

#### Events Management

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

## Minimum Workstation Requirements

<b>Hardware:</b>	Intel® Core™ i5 processor, 2-4 GB of RAM and 5 GB of disk space. Display Adapter: 256 MB RAM onboard, min. Workstations are available from Vicon or may be COTS equipment.
<b>Operating System:</b>	Microsoft® Windows® 7 Professional 32 or 64-bit; Windows 8; Windows 2003, 2008 or 2012 Server.

## Functions and Features

<b>Compression:</b>	H.264, ViconNet optimized MPEG-4 and JPEG (Normal and Full).
<b>Transmission:</b>	Unicast and multicast.
<b>Displays:</b>	Supports 16 x 9 and 16 x 10 wide screen as well as 4 x 3 standard viewing at a variety of resolutions.
<b>Third Party Camera Support:</b>	List available at <a href="http://vicon-security.com/cam-support">vicon-security.com/cam-support</a> .
<b>Main Window Screen:</b>	A multi-channel display area containing up to 16 connected cameras and microphones and all necessary controls to operate and set up the system.
<b>Graphical Map:</b>	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).
<b>Site List:</b>	A physical list of all known network Site areas and connected cameras and microphones.
<b>Play From Time:</b>	Call up images from any database on the network from Main Screen.
<b>Navigator Window:</b>	A graphical display of recorded video. It contains a set of function buttons used to access the video on-screen.
<b>Network and Sites Configuration:</b>	Allows administrator to set up all IP address information and a system Nucleus and Backup Nucleus.
<b>Macro Capabilities:</b>	Macros can be defined for recorded or displayed/played cameras, microphones and related devices (sensors).
<b>Authorization Rights Setup:</b>	Group rights can be configured by specific site and user. Rights provide authority to perform limited or all system functions.
<b>Log Reporting:</b>	Continuously running activity log.
<b>Alarm Capabilities:</b>	Alarms can be programmed to annunciate under special conditions.
<b>Storage Database Utilities:</b>	Allows setup and usage of detected hard disks locally, including high-capacity iSCSI network storage devices.
<b>Authentication:</b>	ViconNet uses a 128-bit MD5 type video authentication algorithm to verify exported video data integrity.

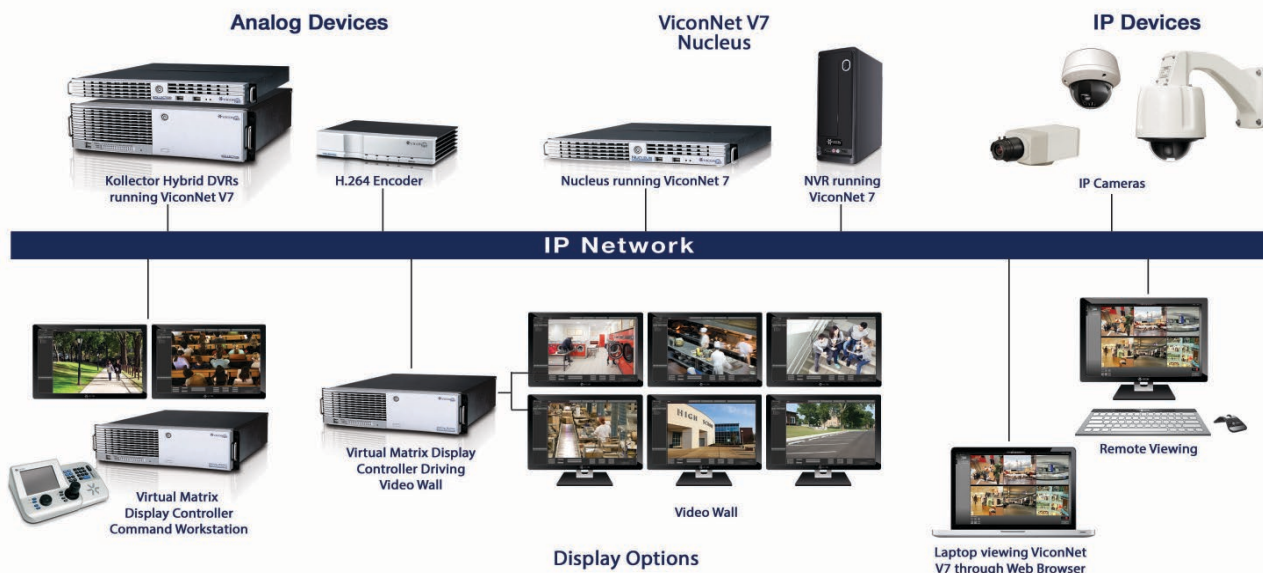
<b>Central Failure Notification (CFN):</b>	Fault reporting system that provides application and hardware failure information to all DVRs and NVRs connected to the system.
<b>Events Management System (EVM):</b>	Enables ViconNet to interface with an external system's database, for example, an access control, point-of-purchase, intrusion monitoring or license plate recognition (LPR) system.
<b>Museum Search:</b>	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.
<b>Archive Wizard and Player:</b>	Creates authenticated archives and saves to any location or removable media.. The video clip is playable using the embedded ViconNet player.
<b>Video Vault:</b>	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.
<b>Camera Licensing:</b>	No fees for Vicon cameras. No complex IP camera registration process.
<b>Quick Lookup Function:</b>	Search list of devices at each the Site List in the system. Includes Next and Previous function.
<b>Masking:</b>	Create a mask in the VMS for any video channel. Can be removed from live or playback video as needed.
<b>Thumbnail Search:</b>	Quick and visual search of recorded video. Selected time period divided according to screen displays video every few minutes, allowing identifying changes between times.
<b>Active Directory:</b>	Interface to allow importing groups and users from another server to ViconNet.
<b>Recording Management:</b>	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 different fps and/or resolution on motion.

Data Sheet Number: V219

Dated: 2/2015

Vicon Data Sheet Part Number: 8009-7219-01-01  
Specifications subject to change without notice.







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Typical ViconNet System

In a typical configuration, ViconNet manages encoded analog video stream inputs from hybrid DVRs and standalone encoders and IP video streams from IP devices. 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 access control and other 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](http://www.vicon-security.com) for more information.

	Description	Model Number
	Kollektor Series Hybrid Digital Video Recorders preloaded with ViconNet. Kollektor Strike and Force models offer frame rates from 60 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-XTBV7 KSX-XTBXV7
	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-XTBV7 VWS-PCV7
	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-XV7 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-PCV7 or VN-RMT-PCV7-RK

## Software and Licensing

Network Video Recording Software and Licenses	Model Number
ViconNet 7 PEAK software single server license.	VPK-SWV7
ViconNet Multi-Pack; 10 user license pack of ViconNet PEAK V7 software.	VPK-V7-10
ViconNet NVR single server license; 30-day evaluation version.	VN-NVRV7-30
Workstation Remote Operator Software	Model Number
ViconNet Remote Operator Workstation software. Single site license.	VWS-SWV7
ViconNet Multi-Pack; 10 user license pack of VN-WS V7 software.	VWS-V7-10
ViconNet 7 Basic Remote Operator software site license.	VN-VIEWERV7
Web Server Software	Model Number
ViconNet Web Server/Mobile single server software license.	VN-RMT-SWV7
Nucleus Software	Model Number
ViconNet 7 Nucleus/Web server single server software license.	VNUC-SWV7
Nucleus Multi-Pack; 10 user license pack of VN-NUC-SWV7	VNUC-SWV7-10
Events Management Software	Model Number
License for each ViconNet device to use the Events Management System. One license.	VN-EVM-LIC

## 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 7 Upgrade Guidelines Product Fact Sheet PF-219 for more information.

Description	Model Number
ViconNet V7 NVR Software Single Server License Upgrade.	VPK-UPGRADE-SWV7
ViconNet V7 Kollector DVR Software Single DVR License Upgrade.	VDVR-UPGRADE-SWV7
ViconNet V7 Workstation Software Single Workstation License Upgrade.	VWS-UPGRADE-SWV7
VMDC V7 Single Virtual Matrix Software License Upgrade	VMDC-UPGRADE-SWV7
ViconNet Web/Mobile Software Single Web/Mobile License Upgrade	VN-RMT-UPGRADE-SWV7

## 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 7 Upgrade Guidelines Product Fact Sheet PF-219 for more information.

Description	Model Number
ViconNet V7 NVR Software Annual Maintenance Agreement.	VPK-MAINT-SWV7
ViconNet V7 Kollector Software Annual Maintenance Agreement.	VDVR-MAINT-SWV7
ViconNet V7 Workstation Software Annual Maintenance Agreement.	VWS-MAINT-SWV7
ViconNet V7 Nucleus Software Annual Maintenance Agreement	VNUC-MAINT-SWV7
VMDC V7 Single Workstation Annual Maintenance Agreement	VMDC-MAINT-SWV7