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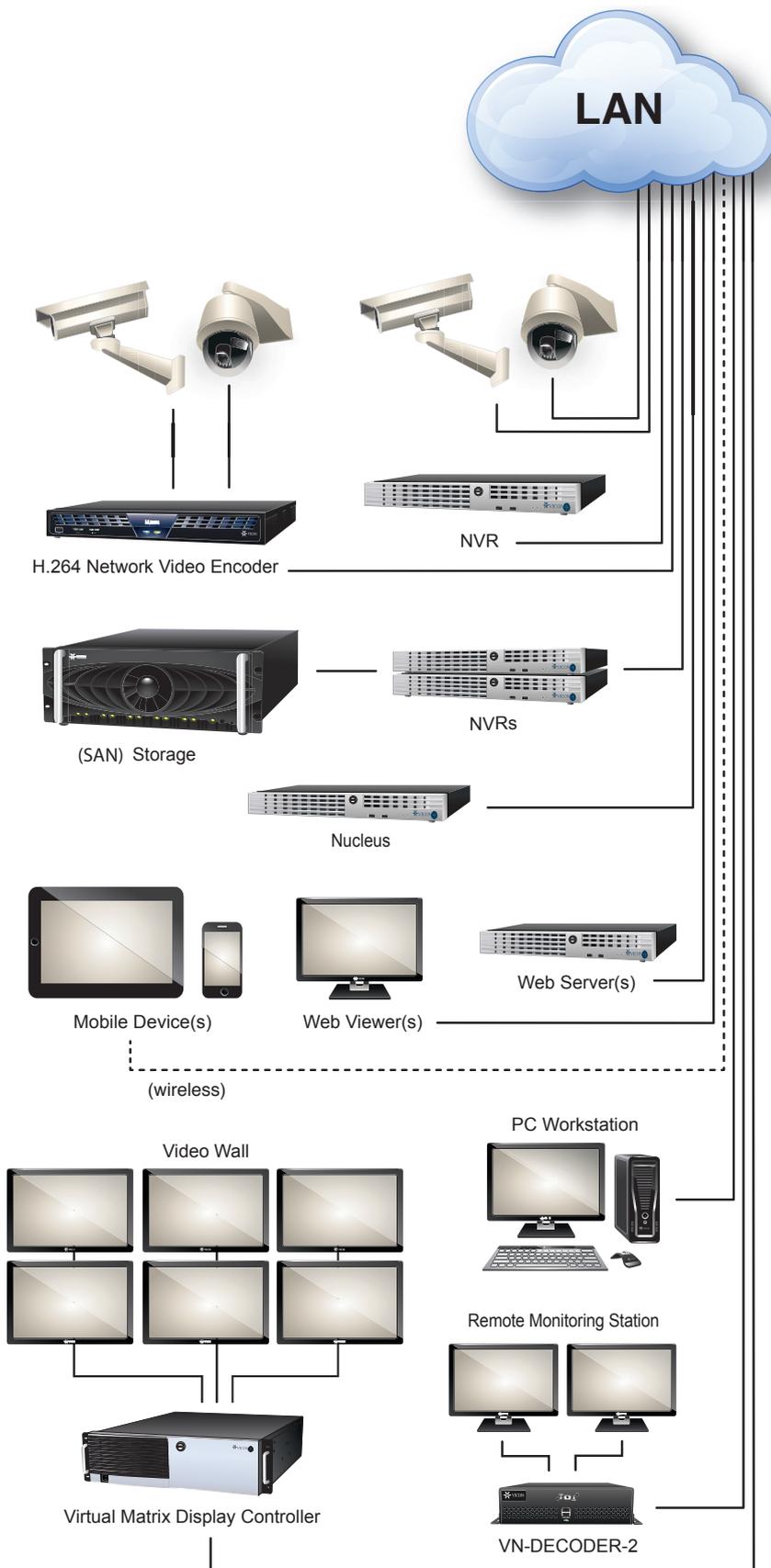
VICONNET™ VIDEO MANAGEMENT SOLUTION GUIDE

Open-architecture, feature-rich video management software (VMS) solutions that delivers complete access to live and recorded security video across your network.

2017



ViconNet Video Management System



Nucleus

ViconNet employs a distributed architecture that is linked together through a server designated as the "Nucleus". The Nucleus maintains a master copy of all critical settings in the system that enables the entire system to work together virtually as a single entity. Each NVR, DVR and workstation maintains a current copy of the Nucleus configuration settings, so that in the event there is a failure, the system will continue to operate without disruption.

Network Video Recorders

ViconNet open-platform NVRs can be scaled to meet the customer requirements. Multiple NVRs can be virtually linked to build enterprise scale systems. These feature rich recording devices are designed for long term reliability and ease of maintenance.

Digital Video Recorders

ViconNet hybrid digital video recorders are primarily designed for analogue camera systems but can record video IP cameras. They work seamlessly with the NVR products.

SAN Storage

Vicon offers a variety of external storage options for systems with higher recording requirements. Up to 4 NVRs can be attached to a single Vicon SAN device.

Video Encoders

Encoders convert analogue camera inputs into streamed IP video data. They are commonly used to replace existing DVRs and integrated analogue cameras into the NVR system.

Administrator Workstations

ViconNet provides outstanding functionality and an intuitive interface for administrators, security managers and system operators anywhere on the network. The application provides advanced functionality not available through the web or mobile interfaces.

Web Servers

The Web/Mobile Server is designed to allow authorised security managers and operators to select and control video displayed from a browser-based interface. The server acts as a gateway to the ViconNet network video system without any requirement to install and maintain client-based software. It is standard on the Nucleus. A dedicated webserver is recommended for systems with more than 10 concurrent remote viewers.

Mobile Device Clients

The mobile device solution (Apple iOS and Android OS versions) interfaces through the Vicon Web Server. As the system grows, and the need for more devices increases, Servers can be added to the system to handle the load. To save on bandwidth and display resources, the application processes the video image into an optimal size for the device.

Video Walls

The Virtual Matrix Display Controller (VMDC) provides a scalable matrix control solution. 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.

Integration with Third Party Solutions

ViconNet integrates with many popular third party applications through an SDK or web client application. The platform also includes a powerful XML engine that can incorporate data from any network data source.

ViconNet Software

ViconNet®, 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 software can be purchased separately or installed at the factory on a Windows Server.



ViconNet Network Video Recording (NVR) Software

VPK-SWV8	ViconNet V8 Peak NVR Software. Single site license. Full ViconNet functionality. Requires separate third party camera licenses.
VZN-35-SWV8	ViconNet V8 Zone NVR Software for use with up to 35 IP cameras. Single site license. Full ViconNet functionality. Requires separate third party camera licenses.
VZN-16-SWV8	ViconNet V8 Zone NVR Software for use with up to 16 IP cameras. Single site license. Full ViconNet functionality. Requires separate third party camera licenses.
VZN-9-SWV8	ViconNet V8 Zone NVR Software for use with up to 9 IP cameras. Single site license. Full ViconNet functionality. Requires separate third party camera licenses.
VN-CAM-LIC	Connection license for third party network cameras . Single camera license.

ViconNet System Expansion Software

VWS-SWV8	ViconNet Workstation Software V8. Single server license.
VNUC-SWV8	ViconNet V8 Nucleus/Web Server Software. Single server license.
VMDC-SWV8	Virtual Matrix Display Controller Software V8. Single server license

ViconNet Software Upgrade

VPK-UPGRADE-SWV8	Upgrade for ViconNet Peak NVR Software. Single server license.
VNUC-UPGRADE-SWV8	Upgrade for ViconNet Nucleus Software. Single server license.
VDVR-UPGRADE-SWV8	Upgrade for ViconNet Kollector DVR Software. Single server license.
VWS-UPGRADE-SWV8	Upgrade for ViconNet Workstation Software. Single server license.
VMDC-UPGRADE-SWV8	Upgrade for ViconNet VMDC Software. Single server license.
VN-RMT-UPGRADE-SWV8	Upgrade for ViconNet Web Server/Mobile Software. Single server license.

ViconNet Software Maintenance

VPK-MAINT-SWV8	ViconNet Software Maintenance Programme for NVR; single server licence
VWS-MAINT-SWV8	ViconNet Software Maintenance Programme for Workstation; single server licence
VDVR-MAINT-SWV8	ViconNet Software Maintenance Programme for DVR; single server licence
VNUC-MAINT-SWV8	ViconNet Software Maintenance Programme for Nucleus/webserver; single server licence
VMDC-MAINT-SWV8	ViconNet Software Maintenance Programme for Virtual Matrix; single server licence

Network Video Recorder (NVR)

The ViconNet NVR is a high-capacity, Network Video Recorder that enables you to simultaneously capture, view and store high-quality, high resolution voice, video and data for a comprehensive security solution. The different versions (based on the number of camera channels) can be installed on rack-mount or desktop chassis.



Network Video Recorders

Desktop Models

VZN-9-V8	ViconNet Zone 9-channel Network Video Recorder. 1 Storage Drive Bays. Desktop PC.
VZN-16-V8	ViconNet Zone 16-channel Network Video Recorder. 1 Storage Drive Bays. Desktop PC.
VZN-35-V8	ViconNet Zone 35-channel Network Video Recorder. 1 Storage Drive Bays. Desktop PC.
VPK-NVR-V8	ViconNet Peak Network Video Recorder. 1 Storage Drive Bays. Desktop PC.

Rack-mount Models

VZN-9-V8-RK	ViconNet Zone 9-channel Network Video Recorder. 3 Storage Drive bays. Rack-mount PC.
VZN-16-V8-RK	ViconNet Zone 16-channel Network Video Recorder. 3 Storage Drive bays. Rack-mount PC.
VZN-35-V8-RK	ViconNet Zone 35-channel Network Video Recorder. 3 Storage Drive bays. Rack-mount PC.
VPK-NVR-V8-RK	ViconNet Peak Network Video Recorder. 3 Storage Drive bays. Includes fully configured Rack-mounted PC and ViconNet Peak V8 software.

Note: See Price List for configurations with different storage capacities.

Shadow RAID NVR

The ViconNet Shadow NVR provides scalable, internal RAID 5 or 6 storage for medium and large-scale installations. The internal RAID 5 or 6 storage provides abundant capacity and the assurance that your data will always be secure and protected. The removable drive configuration (8-bay or 24-bay) makes it easy to hot-swap drives without having to remove the unit from the rack. Configured with ViconNet Peak software.



Shadow RAID NVRs

VPK-xxTBXV8-Rx	ViconNet Shadow NVR with preloaded ViconNet version 8 software, Intel Xeon E3 Processor. internal RAID. 64GB SSD for O/S and ViconNet software. Rack-mount. 8 or 24 -drive bays. Raid 5 or 6 Configuration with 12TB, 1 parity drive, 1 Hot swap (approx. 10.8TB usable) storage Rack-mount. Contains 8 x 2TB Enterprise drives. 711mm deep chassis
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Note: See Price List for configurations with different storage capacities.

SAN RAID NVR Solution

The ViconNet SAN NVR is configured with an iSCSI port specifically for use with SAN storage arrays.



SAN Network Video Recorders

VPK-SANV8	ViconNet Peak SAN Network Video Recorder. Desktop PC. Dual NIC cards. Configured for use with external SAN-RAID.
VPK-SANV8-RK	ViconNet Peak SAN Network Video Recorder. 1U Rack-mount. Dual NIC cards. Configured for use with external SAN-RAID.

Vicon® KOL-iRAID iSCSI RAID Array devices provide a high-density storage solution that can be used for primary and/or backup data storage. The KOL-iRAID is offered in 12, 16, 24 and 48-bay systems. Redundant power supplies and enterprise class hard drives ensure reliability.



iSCSI RAID Arrays

KOL-iRAID12	RAID Array for use with ViconNet. 2U 12-bay rack-mount. RAID Levels Supported 0/1/5/6
KOL-iRAID16	RAID Array for use with ViconNet. 3U 16-bay rack-mount. RAID Levels Supported 0/1/5/6
KOL-iRAID24	RAID Array for use with ViconNet. 4U 24-bay rack-mount. RAID Levels Supported 0/1/5/6
KOL-iRAID48	RAID Array for use with ViconNet. 4U 48-bay rack-mount. RAID Levels Supported 0/1/5/6

Professional Services (Recommended)

PRO-SVC-RAID	Configuration of drives and RAID for use with SAN NVR
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2017 ViconNet hardware has been upgraded for compatibility with the new Valerus Video Management System.

Contact your salesman to discuss options of using Valerus with an existing ViconNet system.

ViconNet System Expansion

The ViconNet Web/Mobile Server is designed to allow authorised security managers and operators to select and control video displayed from a browser-based interface. It also supports the use of Apple® and Android™ mobile devices. The server acts as a gateway to the ViconNet network video system without any requirement to install and maintain client-based software. The stand alone web server is an expansion to the standard remote capabilities.



Web Server

VN-RMT-PCV8
VN-RMT-PCV8-RK

Web Server Tower PC with ViconNet V8
Web Server Rack Mount PC with ViconNet V8

The ViconNet Workstation provides advanced features for operators and administrators for management of the ViconNet system.



Administrator Workstation

VWS-PCV8
VWS-PCV8-RK

Workstation Tower PC with ViconNet V8. Supplied with VM-722N monitor.
Workstation Rack Mount PC with ViconNet V8

ViconNet employs a distributed architecture that is linked together through a server designated as the “Nucleus”. Required for larger systems (see datasheet).



Nucleus

VNUC-PCV8
VNUC-PCV8-RK

Nucleus Tower PC with ViconNet V8
Nucleus Rack Mount PC with ViconNet V8

Keyboards

VN-KEYPAD

Desktop USB keypad for use with ViconNet; including Virtual Matrix Display Controller (VMDC).

VMC-V1411J

Desk-top keypad (V1411J-DVC) with USB-RS422 converter to enable use with ViconNet Workstation.



VN-KEYPAD



VMC-V1411J

Encoders and DVRs

Proven in daily operation in thousands of customer installations worldwide, the Strike DVR features an embedded operating system designed for enhanced security and superior reliability. The ViconNet software, that powers the Strike, provides an open platform that allows integration with IP cameras, including megapixel cameras, encoders and IP edge devices from numerous industry-leading manufacturers. The Strike DVRs and the encoders are cost effective methods of transitioning from analogue to IP.



H264-16CH-ENCDR



ADAM-6050



Express Encoder/DVR

Encoders

H264-16CH-ENCDR	16 channel H.264 video encoder; 400 fps (total), ViconNet; audio input/output; Power over Ethernet capable
VN-901T	1 channel H.264 video encoder; 25 fps; audio input/output; Power over Ethernet capable
ADAM-6050	IP I/O device; allows 12 external alarm inputs & 6 outputs to NVR, workstation or Kollector DVR.
EXPRES-4/8/16	4, 8, or 16 channel Express DVR/Encoders. 1U. Supports 1080P AHD, TVI, and 960H analogue formats.
HDEXPRES-RK-4/8	Rack-mount kit for 1U Express DVRs and NVRs.



Kollector Hybrid DVRs

KS2B1-1TBV8	Kollector Strike 16 channel hybrid DVR with ViconNet V8, 200 fps, internal OS HD, 1TB data HD, 4-channel audio, up to 8 additional IP channels at 25fps each. NTSC/EIA and PAL/CCIR
KS2-SANV8	Kollector Strike 16 channel hybrid DVR with ViconNet V8, 200 fps, for use with external SAN-RAID only; no internal HD, NTSC/EIA and PAL/CCIR
KS3B1-1TBV8	Kollector Strike 16 channel hybrid DVR with ViconNet V8, 400fps, internal OS HD, 1TB data HD, 4-channel audio, up to 8 additional IP channels at 25fps each. NTSC/EIA and PAL/CCIR
KS3-SANV8	Kollector Strike 16 channel hybrid DVR with ViconNet V8; for use with external SAN-RAID only; 400 fps; no internal HD, NTSC/EIA and PAL/CCIR

Note: See Price List for configurations with different storage capacities.

Virtual Matrix

The Virtual Matrix Display Controller (VMDC) is a matrix control solution for the ViconNet Video Management system designed to provide users with the ability to direct network video to multiple monitor displays. This is the replacement for the traditional analogue matrix hardware.



Virtual Matrix and Decoders

VMDC-6V8-RK	ViconNet Virtual Matrix Display Controller with 6 display outputs. Single license. Rack mount.
VMDC-4V8-RK	ViconNet Virtual Matrix Display Controller with 4 display outputs. Single license. Rack mount.
VMDC-2V8-RK	ViconNet Virtual Matrix Display Controller with 2 display outputs. Single license. Rack mount.
VMDC-6V8	ViconNet Virtual Matrix Display Controller with 6 display outputs. Single license. Tower.
VMDC-4V8	ViconNet Virtual Matrix Display Controller with 4 display outputs. Single license. Tower.
VMDC-2V8	ViconNet Virtual Matrix Display Controller with 2 display outputs. Single license. Tower.
VN-DECODER-2V8	ViconNet 2-Channel Digital Video Decoder, for use in Virtual Matrix systems. 12VDC/PoE (PSU included).



Monitors

VM-722N-1	22" 16:9, 1920x1080 Full HD Resolution Monitor, 5ms Response Time, Typical Contrast Ratio 1,000:1, VGA/DVI/HDMI, Multimedia Speakers
VM-632LED	32" TFT LCD screen, 1366 x768, input sources: analogue RGB, S-video, HDMI, DVI-D, component, composite video - 2x in and 2x out. 100-240 VAC 50/60 Hz, PAL or NTSC
VM-642LED	42" Full HD Monitor, 1920x1080 @ 60Hz. Multi display function PIP/VOV/PBP
VM-RK-22	VESA Wall Mount for 22" monitor. +/- 15° tilt and 180° swivel. 360° screen rotation.
VM-RK-32	VESA Wall Mount for 32" monitor. +/- 15° tilt and 180° swivel. 240° screen rotation.

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