



VIDOS-NVR



- ▶ **Record and Playback Video and Audio Archives**
- ▶ **Powerful Search and Retrieval Tools**
- ▶ **ANR Technology (Patent Pending)**
- ▶ **Multiple Recording Modes**
- ▶ **Video Authentication by Watermarking**
- ▶ **Pre-configured for Easy Installation**
- ▶ **Gigabit Ethernet Interface**
- ▶ **Unlimited Scalability**

VIDOS-NVR provides a long-term storage and retrieval solution for video and audio as part of a Video IP installation. Comprised of three key components; management software, a server platform, and RAID 5 storage, VIDOS-NVR scales to handle an unlimited number of cameras and users.

VIDOS-NVR receives MPEG-4 and MPEG-2 video across the network from Video IP encoders including the VIP and VideoJet range. Because VIDOS-NVR is network-based, it is fundamentally different from conventional digital video recorders (DVRs) and video cassette recorders (VCRs). NVRs can be securely positioned anywhere on the network, whereas DVRs and VCRs are colocated where the coax from the cameras terminates. A VIDOS-NVR server has a single gigabit ethernet connection coming in, whereas DVRs and VCRs have one connection for each camera input. This simplification in cabling is a major driver in the adoption of network-based video.

Automatic Network Replenishment technology (ANR; patent pending) ensures that there is no video loss during network interruption. In some facilities, network outages are a real concern; video loss for even a moment is unacceptable.

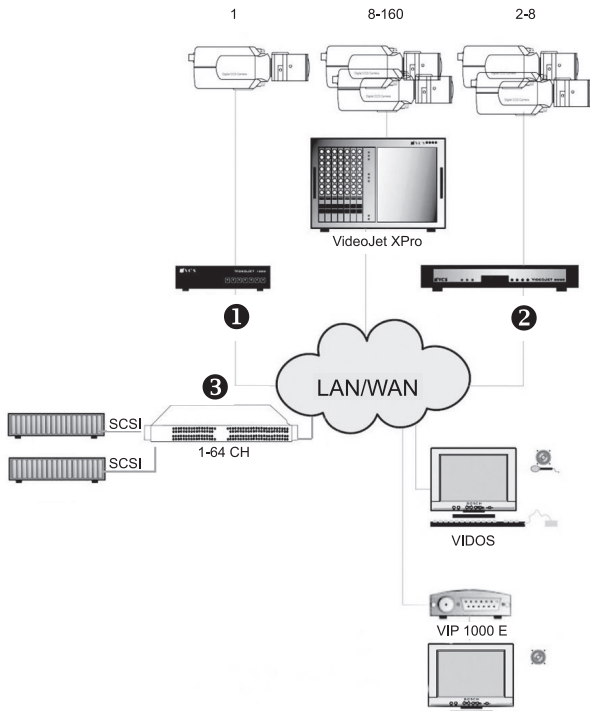
When part of a network carrying video is exposed (as in wireless across a parking lot, or along a highway or train track), the probability of network failure or excessive noise may be even higher. In this setting, VIDOS-NVR tracks every encoder, noting any lapses. Though the encoder is out of reach, it is still recording video locally, either on a compact flash card (VideoJet 10), or on an internal hard drive (VideoJet 8000/8008). When communication is restored, the encoder resumes live transmission and replenishes the gap in the video on the NVR server.

The VIDOS-NVR management software is available per NVR server in three versions; 16, 32, or 64 channel licenses, depending on the number of cameras being recorded. This software is used to configure each NVR server, and once installation and setup are complete, VIDOS-NVR runs seamlessly in the background to manage the connections, access and storage.

VIDOS-NVR has been tested for compatibility with the 19 in. rack-mountable VIDOS-NVR server. This server guarantees high performance and reliability (license purchased separately).

Each VIDOS-NVR server streams incoming video and audio to one or two RAID 5 disk arrays for storage. The 19 in. rack-mountable disk arrays are available in various sizes, ranging from 960 GB to 6.4 TB, and from 6 to 16 hot-swappable hard drives. This offers weeks or months of archived video depending on the system configuration.

Installation/Configuration Notes



- 1 VideoJet 1000 or other single channel encoder
- 2 VideoJet 8008 or other multi-channel encoder
- 3 NVR Server running VIDOS-NVR

Parts Included

Quantity	Component
1	VIDOS-NVR Software on CD-ROM (and installed on the device if hardware is ordered)
1	Quick install guide
1	Manual on CD-ROM

Technical Specifications

System Requirements

Hardware	Personal Computer
CPU	Pentium III Xeon or IV, 1.8 GHz or better
HDD Interface	IDE or better; optional: SCSI II, SCSI Ultra or Fibre Channel
RAM	1024 MByte
OS	Windows 2000 32-bit Windows Server 2003 32-bit

Graphic Card	VGA
Ethernet Card	100/1000 MBit
Free Memory (Installation)	20 MByte

Software Features

Set-up	Centralized set-up from each authorized PC Access via VIDOS or integrated Web server
Storage Media	All storage media possible (e.g. HD, RAID), depending on operating system
Storage Mode	Linear mode or Ring mode (capacity based)
Activation	Continuous Scheduled Alarm-triggered
Recording	Camera name assignment
Configuration	Bandwidth limit Frame rate Video quality
Recording Content	Video data Audio data
Authentication	Watermarking
Search Parameters	Time Date Event
Playback	Playback via VIDOS or Archive Player over any IP network (LAN/WAN) Simultaneous recording, playback and back-up, Sophisticated playback features
Expansion	Limitless expansion of the system by addition of: cameras, video servers, storage devices or capacity, VIDOS-NVR modules

Ordering Information

MVC BVNR 016 VIDOS-NVR 16 channels	MVC-BNVR-016
MVC BVNR 032 VIDOS-NVR 32 channels	MVC-BNVR-032
MVC BVNR 064 VIDOS-NVR 64 channels	MVC-BNVR-064
MVC BVNR 016C VIDOS-NVR 16 channels 5pack	MVC-BNVR-016C

Ordering Information

MVC BNVR 032C VIDOS-NVR 32 channels 5pack	MVC-BNVR-032C
MVC BNVR 064C VIDOS-NVR 64 channels 5pack	MVC-BNVR-064C
MVC BNVR 016D VIDOS-NVR 16 channels 10pack	MVC-BNVR-016D
MVC BNVR 032D VIDOS-NVR 32 channels 10pack	MVC-BNVR-032D
MVC BNVR 064D VIDOS-NVR 64 channels 10pack	MVC-BNVR-064D
MVC XNVR 1632 VIDOS-NVR Upgrade 16 to 32 channels (e-li- cense)	MVC-XNVR-1632
MVC XNVR 1664 VIDOS-NVR Upgrade 16 to 64 channels (e-li- cense)	MVC-XNVR-1664
MVC XNVR 3264 VIDOS-NVR Upgrade 32 to 64 channels (e-li- cense)	MVC-XNVR-3264
Accessories	
MHW-SE1M1-US Management Server Bosch VMS / VIDOS-NVR Entry Level, US lo- calization kit	MHW-SE1M1-US
MHW-SE1M1-DE Management Server Bosch VMS / VIDOS-NVR Entry Level, German localization kit	MHW-SE1M1-DE
MHW-SE1M1-UK Management Server Bosch VMS / VIDOS-NVR Entry Level, UK lo- calization kit	MHW-SE1M1-UK
MHW-SM4M1-US Management Server Bosch VMS CS/NVR Small, NVR Large, US lo- calization kit	MHW-SM4M1-US
MHW-SM4M1-DE Management Server Bosch VMS CS/NVR Small, NVR Large, Ger- man localization kit	MHW-SM4M1-DE
MHW-SM4M1-UK Management Server Bosch VMS CS/NVR Small, NVR Large, UK lo- calization kit	MHW-SM4M1-UK
MHW-SM4M1-FR Management Server Bosch VMS CS/NVR Small, NVR Large, French localization kit	MHW-SM4M1-FR
MHW-SE3M1-120US Management Server VIDOS-NVR Small 600 GB, US localization kit	MHW- SE3M1-120US
MHW-SE3M1-120DE Management Server VIDOS-NVR Small 600 GB, German localiza- tion kit	MHW- SE3M1-120DE
MHW-SE3M1-120UK Management Server VIDOS-NVR Small 600 GB, UK localization kit	MHW- SE3M1-120UK
MHW-SE3M1-120FR Management Server VIDOS-NVR Small 600 GB, French localiza- tion kit	MHW- SE3M1-120FR

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