

# VIDOS-NVR



## Security Systems



- Record & Playback Video & Audio Archives
- Powerful Search & 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 Bosch 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 Bosch 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 1000). 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.

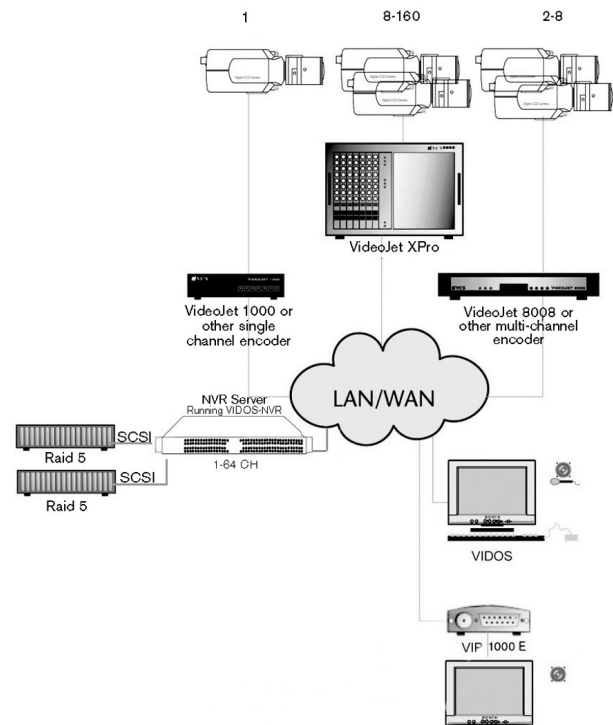
VIDOS-NVR has been tested for compatibility with the 19 in. rack-mountable VIDOS-NVR server (also available from Bosch). This server guarantees high performance and reliability, and is available preconfigured with the software (license purchased separately).

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.

**Parts Included**

Quant.	Component
1	VIDOS-NVR Software on CD-ROM ( and installed on the device if hardware is ordered)
1	Brief description 'first steps'
1	Manual on CD-ROM

**Installation/Configuration Notes**



**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/XP Professional/Server 2003
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 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 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

**Rack Server Dimensions (H x W x D)**

Rack Server 16	1.68 x 16.7 x 21.5 inch (4.2 x 42.42 x 54.6 cm) w/o bezel (1 HU) 1.68 x 16.7 x 22.8 inch (4.2 x 42.42 x 57.9 cm) w/ bezel (1 HU)
Rack Server 64	1.67 x 17.6 x 27 inch (4.24 x 44.7 x 68.58 cm) w/o bezel (1 HU)

**Ordering Information****Model & Description**

NVR16SW 3610

VIDOS NVR software licence for 16 channels

NVR32SW 3611

VIDOS NVR software licence for 32 channels

NVR64SW 3612

VIDOS NVR software licence for 64 channels

NVR64HW 3621/UK

VIDOS-NVR 64 CH Server (UK OS)

NVR64HW 3621/D

VIDOS-NVR 64 CH Server (German OS)

**Hardware Accessories**

NVRPC 3624/D

Preconfigured rack PC for NVR 16, 240 GB, excluding NVR Software, German OS

NVRPC 3624/UK

Preconfigured rack PC for NVR 16, 240 GB, excluding NVR Software, UK OS

NVRPC 3624/1D

Preconfigured tower PC for NVR 16, 240 GB, excluding NVR Software, German OS

NVRPC 3624/1UK

Preconfigured tower PC for NVR 16, 240 GB, excluding NVR Software, UK OS

NVRPC 3625/D

Preconfigured rack PC for NVR 16, with 500 GB, excluding NVR Software, German OS

NVRPC 3625/UK

Preconfigured rack PC for NVR 16 with 500 GB, excluding NVR Software, UK OS

NVRPC 3625/1D

Preconfigured tower PC for NVR 16 with 500 GB, excluding NVR Software, German OS

NVRPC 3625/1UK

Preconfigured tower PC for NVR 16 with 500 GB, excluding NVR Software, UK OS

NVR64HW 3621/D

Preconfigured server for NVR 64, German OS, excluding NVR Software

NVR64HW 3621/UK

Preconfigured server for NVR 64, UK OS, excluding NVR Software

Raid S 3630/1

RAID system for extension of the NVR server 64 including 960 GB HDD, 6 disks

**Ordering Information****Model & Description**

Raid M 3631/1

RAID system for extension of the NVR server 64 including 1,5 TB HDD, 6 disks

Raid L 3632/1

RAID system for extension of the NVR server 64 including 3 TB HDD, 12 disks

Raid XLOS 3632/2

RAID system for extension of the NVR server 64 including 4 TB HDD, 16 disks

Raid XXL 3632/3

RAID system for extension of the NVR server 64 including 6.4 TB HDD, 16 disks

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