



## Product Data Sheet

# UltraView NVR 80

UltraView Storage Server, 12/24-TB SAS RAID, 2U (US and Europe PSU)

### Overview

UltraView NVR 80 IP video storage server is the latest generation storage server enhancement to the UltraView Enterprise Video Platform (EVP) bringing unprecedented video storage capacity. The unit is compatible with IP networks video solutions that support full IP camera architecture as well as hybrid systems that consist of a mix of analog and IP cameras.

Featuring advanced Serial Attached SCSI (SAS) storage technology and an open framework that is well suited for enterprise security challenges, the server is seamlessly integrated via the UltraView Video Operating System (VOS) shared by other VisioWave video recorder/encoder/storage units. Multiple system architectures are supported including extended or centralized storage from UltraView Encoder 10, Recorder 40 and Recorder 60 as well as primary storage for IP cameras.

The NVR 80 is a combined video storage server and video storage device featuring 12 TB and 24 TB of internal RAID 5 storage that can be expanded to 120 TB of storage via the addition of UltraView Storage 80 SAS storage bays.



### Standard Features

- Digital video stream support for IP cameras or UltraView encoders/recorders
- Enables distributed, extended and centralized storage architectures
- Supports storage of 120 UltraView encoded streams (H.264-SVC) or 64 single-stream IP cameras
- Serial Attached SCSI (SAS) technology
- Compact 19" Rack Mountable 2U Height
- Expandable Storage - Up to 120 TB of video drives using UltraView Storage 80 series storage bays (RAID)
- RAID 5 (default) as well as RAID 0, 6, 10, 50 60
- Compact Flash based system drive for maximum reliability
- Dual Redundant and Hot-Swappable Power Supplies
- Hot-Swappable Fans
- Powerful Unit Health Monitoring reporting
- Works in a UltraView EVP Video Operating System (VOS) environment.
- Fully tested as part of a complete security solution
- MTBF of 20'000 hrs

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## Specifications

Physical	The Ultraview NVR 80 is built to warranty high availability through redundancy and hot-swappability of power, fans and video data drives (HDD)
Dimensions	483 (W) x 87.9 (H) x 707 (D) mm 2U-19" Rack Mount
Weight	22kg empty; 30kg with 12 HDDs
Rack mounting	19" rack 800mm deep rack compliant with IEC297
Power Supply	Dual 850W power supply module (100/240V AC rated - 50/60Hz)
Cooling device	Hot-swappable cooling module provided forced cooling air from back to front (10 per chassis)
Power Consumption	520W
Temperature	Operating :5 to 35°C; 80% RH Storage: 1 to 60°C; 80% RH
Video Data Storage	12 Drives @ 1TB and 2TB Enterprise Class each (12TB and 24TB) Individually lockable/hot-swappable HDD Slot extension to daisy chain Ultraview Storage 80 units Support RAID0, 1, 5, 6, 10, 50, 60 and spare disks Initial Configuration: 1 Volume RAID5
System Configuration	QuadCore @2.33GHz, 4GB DDR2 RAM Internal SAS RAID controller High-reliability system disk (Compact Flash)
Networking	Dual 10/100/1000 Ethernet QoS support
Conformity	FCC class A, European community CE, EN55022 class A, EN55024, EN60950, CFR47 part 15B class A, UL60950-1 (IEC 60950-1), EN50130
Connectivity	Up to 4 UVS 8112 or up to 2 UVS 8124
System Monitoring	Remote alarm notification through SNMP Audible and visual notification for system status Embedded monitoring: FAN, HDD, temperature, voltage Running on the VisioWave Operating System (VOS) Requires VOS 4.2.1 software release or higher

## Ordering Information

Part No.	Description
UVN-8012-100-24T	UltraView Storage Server, 12-Bay SAS RAID, 24 TB Storage, 2U, up to 120 IP video streams (US and Europe power cords)

## Superior Reliability

Compared to traditional SCSI and iSCSI storage solutions, the NVR 80's ultra-reliable connectors and cables are capable of supporting up to 3 Gbps throughput. The new cable design supports cable lengths of up to 10m between devices for improved site management. Reliability is supported via RAID storage with front-accessible hot-swappable drives, redundant hot-swappable fans and power supplies with the operating system maintained via compact flash based drive.

Device and drive health monitoring is available via the SDK or through UltraView Video Security Center (VSC) software that provides all video configuration, viewing and management services for the entire customer solution. Additionally, device health is available to network management applications via SNMP traps. Health monitoring includes fan temperature, drive status, RAID status, and power supply voltage.

## Proven Performance and Capacity

The UltraView NVR 80 is fully tested as part of a complete system solution from encoder/recorder to storage device. The unit is delivered fully configured in a RAID 5 configuration. Hard drives are stress tested with the NVR 80 as a complete solution.

Fully tested guaranteed performance includes video optimization between the server, storage bays and hard drives with digital video.

Guaranteed performance eliminates project uncertainty when using non-optimized servers and storage bays with software. UltraView NVR 80 saves customers configuration and testing time while saving the cost of adding additional servers if targeted performance is not met.

