

## Enterprise NVR Series SAS RAID Storage

www.honeywellvideo.com

### ENTERPRISE RAID VIDEO STORAGE SOLUTION

Honeywell's Enterprise NVR (network video recorder) video management system is an industry-leading enterprise class digital video solution. The Enterprise NVR is built upon best-in-class components that provide the flexibility and scalability suited to a variety of end user applications. Honeywell is a total solution provider offering all the components of a reliable and flexible video system such as cameras, encoders, management software, servers, workstations and video storage.

Enterprise NVR Series SAS RAID storage appliances are an integral component of a successful digital video system. The overall video system is only as good as the performance of each of its components. The Honeywell SAS storage solution leverages the expertise and technology of the IT and storage industry including SAS, RAID, and SAS/SATA hard drive technology.

The SAS RAID storage series is offered in a variety of configurations. The Enterprise RAID 12- and 16-bay SAS are Serial Attached SCSI (SAS) subsystems suitable for Direct Attached Storage (DAS), Cascaded Storage and Expanded Storage.

All Enterprise RAID enclosures include a mid-plane, RAID controller, power and cooling units and enclosure processor all in one chassis design with no cables. Multiple fans and power supplies provide redundancy to ensure continued usage in the unlikely event of component failure. The RAID controller is hardware-based and controls all logical drive functions transparently to the host system. Enterprise RAID appears as a standard SCSI drive or drives to the computer's operating system.

#### Market Opportunities

The Enterprise NVR Series SAS RAID storage offers a cost-effective balance of video storage capacity and satisfies the stringent data availability requirements for an enterprise class digital video system. This SAS RAID solution applies to a variety of applications and features the raw capacity to store video data from a large number of cameras. The Enterprise NVR Series RAID storage helps ensure that video is available when it is most needed.

#### Features

- Dual channel active/active, failover/failback RAID controllers
- 16-bay: 16 hot-swappable drive bays in a robust 3U rackmount chassis with redundant, hot-swappable power and cooling modules
- 12-bay: 12 hot-swappable drive bays in a robust 2U rackmount chassis with redundant, hot-swappable power and cooling modules
- Supports for Serial Attached SCSI (SAS) and Serial ATA (SATA) drives simultaneously in the same system—choose the drive that is best suited to your application
- Direct SATA LED support with AAMUX adapter
- 4-SAS host ports provide high availability SAN and cluster-friendly platform
- JBOD expansion support through 4- SAS ports—up to four Enterprise RAID JBOD systems
- Simplified remote management with a comprehensive embedded web-based management via Ethernet-Honeywell Array Manager (HWAM). Command line interface/utility via RJ-11 serial port
- Support for RAID 5 and RAID 6 - protection from a catastrophic single or double drive failure
- LUN mapping and masking bring flexibility for multiple applications and OS support on the same storage subsystem
- Open architecture provides the industry's



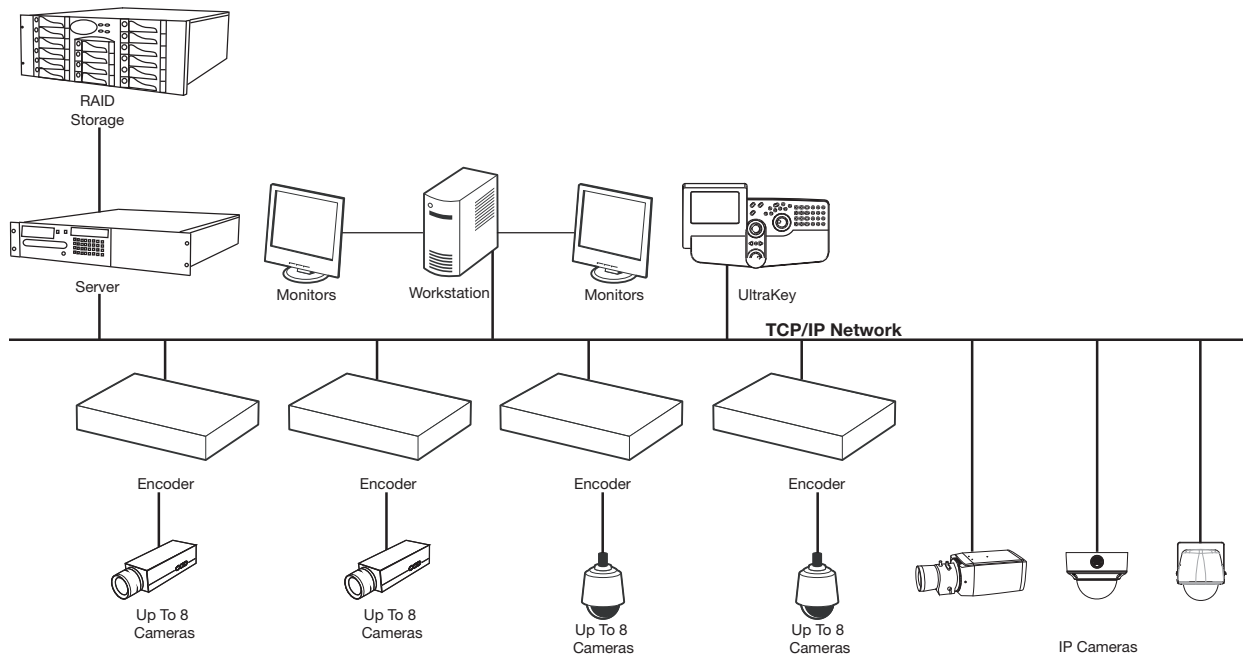
- most comprehensive support for SAS and SATA hard drives and standards-based management interfaces including SNMP, CIM, and WBEM
- Support for the industry standard Disk Data Format (DDF from SNIA) ensures interoperability and drive roaming even among different RAID vendors
- Compatible with leading SAS hard drives, host bus adapters and RAID controllers
- Warranty and advance replacements - Refer to <http://www.honeywellvideo.com/support/warranty/index.html>

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### SYSTEM DIAGRAM

Enterprise NVR SAS RAID storage is an integral piece of an Enterprise NVR Series solution. Please visit [www.honeywellvideo.com](http://www.honeywellvideo.com) for documentation on Enterprise NVR Series components such as software, workstations and servers.



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### SPECIFICATIONS

Specification	16-Bay Subsystems	12-Bay Subsystems
Voltage	100-240 VAC Auto-ranging	100-240 VAC Auto-ranging
Current (maximum)	8 A @ 100 VAC or 4 A @ 240 VAC Current rating with two power cords	8 A @ 100 VAC or 4 A @ 240 VAC Current rating with two power cords
Power Consumption (not including disk drives)	SAS, 151.42 W	SAS, 157.84 W
Power Consumption (including disk drives)	SAS, 566.95 W	SAS, 469.48 W
Power Supply	Dual 500 W, 100-240 VAC auto-ranging, 50-60 Hz, dual hot swap and redundant with PFC, N+1 design	Dual 400 W, 100-240 VAC auto-ranging, 50-60 Hz, dual hot swap and redundant with PFC, N+1 design
Operating Temperature	5° to 40°C operational (-40° to 60°C non-operational)	5° to 40°C operational (-40° to 60°C non-operational)
Relative Humidity	Maximum 95 percent	Maximum 95 percent
Vibration	Random, 0.21 grms, 5-500 Hz, 30 Mins, X, Y, Z axis	Random, 0.21 grms, 5-500 Hz, 30 Mins, X, Y, Z axis
Dimensions (H x W x D)	13.1 x 44.6 x 56.1 cm (5.2 x 17.6 x 22.1 in)	8.8 x 44.4 x 56.1 cm (3.5 x 17.5 x 22.1 in)
Net Weight	30.5 kg (67.2 lb) without drives, 38.5 kg (84.9 lb) with 16 drives, assuming 0.5 kg (1.1 lb) per drive	22 kg (49 lb) without drives, 28 kg (62 lb) with 12 drives, assuming 0.5 kg (1.1 lb) per drive
Gross Weight (including carton)	37.5 kg (82.7 lb) without drives	30 kg (66 lb) without drives
Safety	CE, FCC Class A, VCCI, C-Tick, cUL, TUV, CB, BSMI, MIC	CE, FCC Class A, VCCI, C-Tick, cUL, TUV, CB, BSMI, MIC



Front View



Rear View



# Enterprise NVR Series

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### ORDERING

Enterprise SAS RAIDs	
HESASR6T12S	12 BAY SAS RAID, 6 X 1 TB SAS ENTERPRISE HARD DRIVES, RAID 5/6, 2RU
HESASR12T12S	12 BAY SAS RAID, 12 X 1 TB SAS ENTERPRISE HARD DRIVES, RAID 5/6, 2RU
HESASR24T12S	12 BAY SAS RAID, 12 X 2 TB SAS ENTERPRISE HARD DRIVES, RAID 5/6, 2RU
HESASR16T16S	16 BAY SAS RAID, 16 X 1 TB SAS ENTERPRISE HARD DRIVES, RAID 5/6, 3RU
HESASR32T16S	16 BAY SAS RAID, 16 X 2 TB SAS ENTERPRISE HARD DRIVES, RAID 5/6, 3RU
HESASR6T12	12 BAY SAS RAID, 12 X 500 GB SATA II RAID EDITION HARD DRIVES, RAID 5/6, 2RU
HESASR12T12	12 BAY SAS RAID, 12 X 1 TB SATA II RAID EDITION HARD DRIVES, RAID 5/6, 2RU
HESASR24T12	12 BAY SAS RAID, 12 X 2 TB SATA II RAID EDITION HARD DRIVES, RAID 5/6, 2RU
HESASR8T16	16 BAY SAS RAID, 16 X 500 GB SATA II RAID EDITION HARD DRIVES, RAID 5/6, 3RU
HESASR16T16	16 BAY SAS RAID, 16 X 1 TB SATA II RAID EDITION HARD DRIVES, RAID 5/6, 3RU
HESASR32T16	16 BAY SAS RAID, 16 X 2 TB SATA II RAID EDITION HARD DRIVES, RAID 5/6, 3RU
Enterprise JBOD Expansion Units	
HESASJ12T12S	12 BAY SAS JBOD, 12 X 1 TB SAS ENTERPRISE HARD DRIVES, 2RU
HESASJ24T12S	12 BAY SAS JBOD, 12 X 2 TB SAS ENTERPRISE HARD DRIVES, 2RU
HESASJ16T16S	16 BAY SAS JBOD, 16 X 1 TB SAS ENTERPRISE HARD DRIVES, 3RU
HESASJ32T16S	16 BAY SAS JBOD, 16 X 2 TB SAS ENTERPRISE HARD DRIVES, 3RU
HESASJ6T12	12 BAY SAS JBOD, 12 X 500 GB SATA II RAID EDITION HARD DRIVES, 2RU
HESASJ12T12	12 BAY SAS JBOD, 12 X 1 TB SATA II RAID EDITION HARD DRIVES, 2RU
HESASJ24T12	12 BAY SAS JBOD, 12 X 2 TB SATA II RAID EDITION HARD DRIVES, 2RU
HESASJ8T16	16 BAY SAS JBOD, 16 X 500 GB SATA II RAID EDITION HARD DRIVES, 3RU
HESASJ16T16	16 BAY SAS JBOD, 16 X 1 TB SATA II RAID EDITION HARD DRIVES, 3RU
HESASJ32T16	16 BAY SAS JBOD, 16 X 2 TB SATA II RAID EDITION HARD DRIVES, 3RU
Hard Drives	
HEHD1000S	1 TB SAS ENTERPRISE HARD DRIVE
HEHD2000S	2 TB SAS ENTERPRISE HARD DRIVE
HEHD500E	500 GB SATA II RAID EDITION HARD DRIVE
HEHD1000E	1 TB SATA II RAID EDITION HARD DRIVE
HEHD2000E	2 TB SATA II RAID EDITION HARD DRIVE

**NOTE:** Honeywell reserves the right, without notification, to make changes in product design or specifications.

#### Automation and Control Solutions

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