

## RAID Storage Systems

The RAID storage system offers massive amounts of storage and connects to our surveillance systems to give up to 6TB of additional storage.



RAID Storage  
Systems

### FEATURES

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- State of the art RAID Storage System
- Up to 6TB Storage
- Integrates with ezCCTV Digital Surveillance Systems
- Automatic Hard Disk Rebuild without Power Off
- Dual redundant Power Supplies
- On Screen Menu

### SPECIFICATION

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#### RAID

- Multiple arrays configurable with dedicated or global hot spares
- RAID levels supported: RAID 0, 1 (0+1), 3, 5, 10, 30, 50, and NRAID
- Online expansion by:
  - Adding new drives
  - Copying and replacing drives with drives of larger capacity
- Automatic background rebuilds
- Configurable stripe size and write policy per array
- Intelligent drive handling:
  - In degraded mode: skips irreparable blocks to continue rebuild
  - In normal operation: data-block verification and repair

#### Host Interface

- Two (2) SCSI-320 through four (4) VHDCI 68-pin SCSI ports; SCSI-160 backward compatible
- Concurrent I/O commands
- Tagged command queuing up to 256
- Variable stripe size per logical drive
- Optimization setting for random or sequential I/Os

\*Specification and image are subject to change without any notification

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## Drive Interface

- Twelve (12) or eight (8) 3Gbps SATA-II, hot-swappable drive trays that accommodate 1-inch pitch, 3.5-inch SATA-I or SATA-II disk drives
- Automatic bad-sector reassignment
- Dedicated bandwidth to each connected drive

## System Components

Single controller configuration provides full RAID functionalities

- One (1) EonStor® enhanced 2U enclosure
- One (1) RAID controller module
- One (1) 256MB DDR RAM DIMM module (pre-installed on the controller module)
- Two (2), hot-swappable, redundant, 350W power supply units
- Three (A12U) or Two (A08U), hot-swappable, redundant, single-fan cooling modules running in high/low speeds
- Twelve (12) or eight (8), hot-swappable drive trays
- Two (2) front handles
- Optional battery backup unit

## Management

Front LCD control panel for setup and configuration

10/100 BaseT Ethernet for out-of-band management

One (1) RS-232C serial port for local access to firmware-embedded utility

Firmware-embedded Java-based RAIDWatch® GUI manager:

- VT-100 terminal emulation via RS-232C
- Telnet access via onboard Ethernet port
- Cross-platform, remote administration with SSL
- Out-of-band access via Ethernet
- Centralized management to monitor and administer multiple RAID units on one screen

Configuration client for real-time event notification over Email, Fax, LAN broadcast, SNMP Traps, MSN messenger, ICQ, SMS short messages, and the configuration utility screen

SNMP agent support:

- SNMP trap event notification with plain-text event message (no MIB file required)
- SNMP V2.0 MIB file support with get-and-set commands

## Indicators

Onboard alarm is triggered when one of the following modules fails:

- RAID controller module
- Cooling module
- Power supply unit
- Hard drive
- BBU module

## Module status LED indicators:

- Two (2) per drive tray
- Two (2) per cooling module
- One (1) per power supply unit
- One (1) per BBU module
- Three (3) per LCD panel
- Five (5) per RAID controller module
- Two (2) per Ethernet port

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## Intelligent Drive Handling

If two bad blocks occur on two member drives of an array, the integrity of the stored data is endangered. Media Scan, an innovative intelligent drive handling function, retrieves data from the damaged sectors. Media Scan handles low quality drives in both the degraded mode and during the rebuild process. For additional data security, other intelligent drive management features include the transparent resetting of hung hard drives, power-failure management, and bad-drive handling during LD expansion.

## Task Scheduler

The Task Scheduler is combined with Media Scan so that the scanning operation can be scheduled beginning at a specified start time and repeating at the configurable intervals. The operation is thus hands free. Each such schedule can be defined to operate on individual hard drives, all drives of a certain class, all member drives of a specified logical drive, or all member drives of all logical drives.

## Interfaces

- Four (4) ports in two (2) dual-stacked VHDCI SCSI connectors
- One (1) COM port (38400, n, 8, 1)
- One (1) 10/100BaseT Ethernet port

## Power Supply Module

Two (2) redundant hot-swappable power supplies with PFC

<b>Input:</b>	100VAC at 6A, 240VAC at 3A with PFC (auto-switching)	
	47 ~ 63Hz	
<b>Output:</b>	(Maximum output: 350 Watts)	
	+12.0V	25A max.
	+ 5.0V	25A max.
	+ 3.3V	20A max.

## Cooling Module

Three (A12U) or two (A08U) redundant single-fan cooling modules

Maximum air flow (each module) :	High speed: 31.8 CFM
	Low speed: 20.1 CFM

## Dimensions

- Chassis without handles: 446(W) x 88(H) x 490(D) mm
- Chassis with handles: 482 (W) x 88(H) x 505(D) mm
- Package: 381H x567W x 772D mm

## System Weight

- Net weight: 23.5kg
- Gross weight: 25kg