

# Pivot3 RAIGE™ Array

## TECHNICAL SPECIFICATIONS

- Clustered IP Storage
- High availability architecture
- Redundant power and hot-swap drives
- Scalable, aggregated performance



### Pivot3 RAIGE™ Array Overview

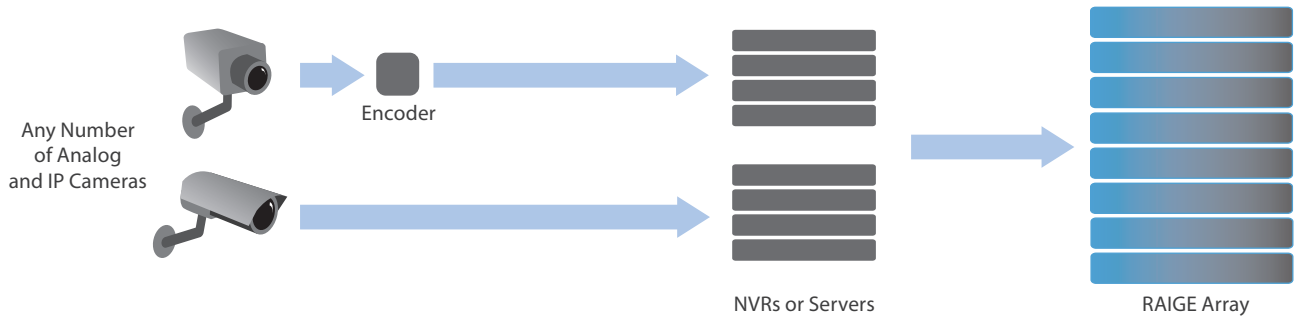
A RAIGE Array is a collection of Databank appliances connected with standard Gigabit Ethernet connections where each Databank runs the RAIGE Storage Software. Databanks are automatically discovered on the Ethernet network and assigned to virtual RAIGE Arrays of up to eight Databanks.

#### RAIGE™ Storage Software

The RAIGE software aggregates the capacity and performance of the Databank appliances, presents a single logical management view, supports dynamic expansion of the array and protects against any hardware failures.

#### HyperPath™ Software

RAIGE HyperPath leverages standard multipath software in Microsoft or Linux environments to provide connection fault tolerance and bandwidth aggregation.



### Storage Sizing Guide

# Databanks	Usable RAID5 Capacity (in TB)*			Bandwidth MB/sec	Data Protection
	500 GB	750 GB	1 TB		
1	3.6	5.4	7.2	200	Disk
2	7.2	10.7	14.3	400	Disk
3	11.4	17.1	22.8	600	Disk & Appliance
4	17.4	26.1	34.8	800	Disk & Appliance
5	23.4	35.1	46.9	1,000	Disk & Appliance
6	29.4	44.1	58.8	1,200	Disk & Appliance
7	35.3	53.1	70.8	1,400	Disk & Appliance
8	41.3	62.1	82.8	1,600	Disk & Appliance

\* 1TB = 1,000,000,000,000 bytes - Calculations are with drive sparing enabled

## RAIGE™ Array Specifications

Up to 128 servers connected per Array	Databanks contains 12 Enterprise SATA drives of 500GB, 750 GB, or 1 TB capacity	Up to 128 Volumes per Array	RAID Levels 0, 1, and 5e can be dynamically selected. RAID 5e protects against a drive failure or a complete appliance failure and all of its 12 drives	One or more non-dedicated RAIGE Director Management Station	Up to 8 Databanks in each array. All volumes can be dynamically resized and can be assigned a rebuild priority
---------------------------------------	---	-----------------------------	---	---	--

## Multipath Software

Microsoft Windows Environments  
Microsoft Windows Server 2003 (32 bit or 64 bit)

Linux Environments  
Red Hat Enterprise Linux ES 4, Update 4  
CentOS 4.4

## RAIGE Director Software

RAIGE Director manages the RAIGE Array and runs on any x86 desktop or server with an IP connection to the RAIGE Array. RAIGE Director is available in both a graphical user interface and CLI version.

### RAIGE™ Director GUI Requirements

Microsoft Windows Server 2003  
or Microsoft Windows XP Pro with SP-2

512MB RAM

Display size of at least 1024 x 768

### RAIGE™ Director CLI Requirements

Microsoft Windows Server 2003  
or Microsoft Windows XP Pro with SP-2

Red Hat Enterprise Linux ES 4, Update 4

CentOS 4.4

## NVR Server and Ethernet Switch Requirements

### NVR Server Requirements

Storage Connection: 2 x Gigabit Ethernet connections in addition to standard network connectivity

### Ethernet Switch Requirements

Standard Layer 2 Gigabit Ethernet switch

2 dedicated switches required for storage fault tolerance

Sufficient switch ports for 2 ports per Databank

## Databank Appliance Specifications

Dimensions: Height: 2U, 3.5" Width: 17.2" Depth: 25.5"  
Weight: 52 lbs / 23.6kgs  
Processor: 2.3 GHz Quad-Core Intel Xeon  
Memory: 2GB ECC Fully Buffered DIMM  
Drives: 12x Enterprise SATA  
Networking: 2 x 1 Gigabit Ethernet ports

Cooling: Redundant, replaceable fans  
Operating Environment: 10°C–35°C (50°F–95°F)  
Humidity Range 8 - 90% non-condensing

Power Rating:  
Spec 2 x 800W Redundant Hot Swap Power Supplies with PFC, Auto-sensing  
Typical 330W (2.8amp @120v; 1.5amp @220v) 50-60HZ

Thermal rating:  
Spec 2600 BTU/hour  
Typical 1147 BTU/Hr @ 120V, 1126 BTU/Hr @ 220V

Regulatory (Power Supply)  
Power Supply Safety / EMC USA - UL listed  
Canada - CUL listed  
Germany - TUV Certified  
EN 60950/IEC 60950-Compliant  
CB Report and CCC Certification

Warranty:  
Standard Hardware three year parts, return to factory.  
Standard Software 90 days for bug fixes and updates.  
Extended warranty options are available.

