

EnhanceRAID™ R14 HDS

Dual Controller SATA to SCSI Subsystem

www.enhance-tech.com



Product Overview

Originated from the EnhanceRAID™ R14, the R14 HDS is a twin-turbo charged (dual RAID controllers) with quad U320 SCSI channels desktop or 3U rack mountable storage appliance with built-in OS transparent RAID engine that targets video editing professionals, production & studio houses, and broadcast workgroups for power editing usage. It comes with dual hardware RAID engines that commands seven (7) RAID (0, 1, 3, 5, 6) protected SATA disks each, produces a lightening speed of over 350 MB/s through the high bandwidth Ultra320 SCSI ports. The EnhanceRAID™ R14 HDS is ideal for high resolution & High Definition (HD) professional video editing, certified to run on Apple Final Cut Pro, Matrox AXIO, Leitch VelocityHD, Black Magic, Blue Fish, etc., providing the fastest, simplest, and safest way to share protected data between desktops, networks and work groups.

Easy Management

EnhanceRAID™ R14 HDS video editing storage system is unparalleled in its simplicity, easy of use, installation, and storage management. Our user friendly Web Graphical User Interface allows one to deploy and manage the disk array from virtually anywhere in the world with simple internet access, no additional management software ever needed. With the "Quick Install" wizard, the storage administrator can get the system up and running in a few minutes; and setting up RAID level, volume, cache, etc. can all be done and monitored through the Web GUI.

RAID Management

- Support RAID levels 0, 1, 0+1, 3, 5, 6 and JBOD
- Support on-line volume expansion
- Support dedicated hot spare disk
- Support multiple RAID volumes
- S.M.A.R.T. enabled

Designed to Use with

- AJA Kona HD
- Apple Final Cut Pro HD
- Black Magic Decklink HD Pro
- Blue Fish HD
- Leitch VelocityHD
- Matrox AXIO
- Media 100 HD

System Features

- **Hardware RAID** Intel 80331 500Mhz 64bit RISC Processor
- **Housing** Desktop or 3U Rack Mountable enclosure design
- **Host Bandwidth** Quad (2x Dual) Ultra320 SCSI
- **Disk I/O** support 14+ Serial ATA 3.0 Gbps (SATA II) HDDs
- **Backward Compatibility** Ultra160 SCSI (Host)
- **Disk Compatibility** SATA I 1.5 Gbps & SATA II 3.0 Gbps
- **Hot-Swappability** 14+ removable drive tray design
- **Cooling** aluminum enclosure & dynamic venting design
- **RAID Setup** thru easy WebGUI
- **Event Notification** thru SNMP
- **Storage Capacity** up to 14 TB (14 x 1TB HDD)



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Model Specifications

- **RAID Engine** EnhanceRAID 320
- **Storage Processor** Intel IOP80331 500Mhz
- **Hybrid Technology** SATA-to-SCSI
- **Supported RAID Levels** 0, 1, 0+1, 3, 5, 6 & JBOD
- **Memory** 512MB~1GB Available; Up to 2GB Supported
- **Max. HDD Supported** 14 SATA I/i HDDs
- **Max. HDD Capacity** 1TB as of July 2008
- **Max. System Capacity** up to 14TB as of July 2008
- **Host Connection** Dual (2x Dual) Ultra320 SCSI Ports
- **Remote management** thru Ethernet Port
- **RAID management** Web browser & SNMP
- **OS Independent & Transparent** Yes

Enclosure Specification

- **Hot-Swappability** 14 x Removable HDD Tray
- **Drive Failure** 1 LED indicator for each HDD
- **System Fan** 3 x 8cm Hot-Swappable fan
- **Status LEDs** 1 x access LED for each HDD
- **Fan-fail LED** 1 x Fan-fail LED for system
- **Mute Button** 1 x mute button for fan & temp alarm
- **Power Supply** 1+1 Hot-Swappable Redundant (2x460 Watt)
- **Dimensions(H x W x D)** 5.25 " x 19 " x 22"
- **Weight (without disk)** 50 Lbs

Physical & Environment

- **Operating Temperature** 10°C ~ 35°C
- **Non-Operating Temperature** -10°C ~ 50°C
- **Relative Humidity** 20% to 95% non-condensing

Supported Operating System

- Windows 98, NT, 2000, XP, 2003, Vista, 2008
- Mac 9.1 and above, including OSX, OSX Server, XSERVE
- Mac 8.6-9.04 support possible with ATTO SCSI HBA.
- Linux (all latest builds) which SCSI supported
- And all other systems supporting SCSI protocol

Power Supply (2x350Watt)

- **Input Range** 100 to 240 VAC. 10%
- **Voltage** +5V/25A +12V/30A 47~63Hz
- **Agency Approval** EMI/RFI, CE, FCC B, BSMI

Manufacturer Warranty

- **System Warranty** 2 years

To find an authorized dealer

Contact us at : info@enhance-tech.com

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