

VideoRaid RTR VideoRaid RTRX



VideoRaid RTR and VideoRaid RTRX Ultra160 SCSI disk arrays from Medea Corporation offer outstanding performance and redundant operation for all digital content creation (DCC) applications. Medea RTR disk arrays provide data protection in the event of a disk drive failure yet cost less than just-a-bunch-of-disk (JBOD) storage solutions.

High Performance Ultra160 SCSI Interface

Medea RTR disk arrays feature a high-performance Ultra160 SCSI interface and are the ideal storage solution for all DCC applications including animation, special effects and non-linear video editing. The desktop models sustain a single-stream data transfer rate up to 130 MB/second while the dual-channel rack mount models sustain over 200 MB/second—more than enough bandwidth to support the playback of 10-bit, 1080i HD footage.

Data Redundancy & Real-Time Design

Medea's real-time RAID controller ensures that VideoRaid RTR and VideoRaid RTRX disk arrays will continue to operate with no loss of data and no degradation in performance in the unlikely event of a disk drive failure. The ability to operate at full performance with a "downed drive" enables content creators to complete work in real-time environments without requiring immediate drive replacement. This is in contrast with other RAID systems that can degrade in performance by as much as 50% with a downed drive. If it becomes necessary to replace a disk drive in an RTR unit, simply insert a new drive module and the system automatically resumes the protection of your valuable content.

Multi-Stream Technology – MST™

VideoRaid RTR and VideoRaid RTRX Ultra160 SCSI disk arrays are optimized with Medea's proprietary Multi-Stream Technology (MST). MST is a sophisticated adaptive caching technology that utilizes the array's on-board (up to 128 MB) segmentable cache to support the real-time playback of up to three simultaneous streams of uncompressed video.



Specifications

VideoRaid RTR and VideoRaid RTRX

High-Performance, Redundant Disk Arrays for Digital Content Creation

Focus:

- Professional digital content creation including:
 - Multi-stream, non-linear video editing
 - 2D/3D Animation
 - Compositing
 - Game development
 - HDTV Applications
 - Video servers

RAID Controller:

- Single controller in desktop unit
- Up to (2) controllers in rack mount configuration
- Redundant single or dual-channel (4+1) configuration with Multi-Stream Technology (MST)
- 165 MIPS RISC processor
- Up to 128 MB segmented cache
- Tagged Command Queuing
- Automatic rebuild when a failed drive is replaced
- Real-time data delivery and error handling

Interface:

Desktop: Ultra160 SCSI, LVD
Rack Mount: Dual-channel, Ultra160 SCSI, LVD

Sustained Performance:

Desktop:

Single-stream:	Up to 130 MB/second
Multi-stream:	Real-time playback of up to 3 uncompressed video streams

Rack Mount:

Single-stream:	Over 200 MB/second
Multi-stream:	Real-time playback of up to 3 uncompressed video streams per channel

Content Creation Hardware & Software Compatibility
 (visit www.medeia.com for the latest compatibility info)

Ultra160 SCSI Host Adapter Compatibility:

Adaptec	29160, 39160
Atto	ExpressPCI UL3S, UL3D
Qlogic	QLA12160
SGI	XIO dual adapter

Operating System Compatibility:

- IRIX
- Mac OS
- Windows 95/98/Me/NT/2000

Kit Contents:

Desktop:

- Compact desktop enclosure
- 5 hot-swappable drive modules
- Removable RAID controller
- Removable 200 W power supply
- 6 foot, VHD to HD SCSI cable
- VHD SCSI LVD terminator
- Power cord
- Installation Guide

Rack Mount:

- 19", 3U rack mount enclosure
- Up to (10) hot-swappable drive modules
- Up to (2) removable RAID controllers
- Up to (2) removable 200 W power supplies
- (2) 6 foot, VHD to HD SCSI cables
- (2) VHD SCSI LVD terminators
- (2) Power cords
- Installation Guide

Connectors:

Desktop: (2) Very High Density (VHD), 68-pin
Rack Mount: Up to (4) VHD, 68-pin

Dimensions:

Desktop: 9.125" (h) x 10.75" (d) x 5.125" (w)
Rack Mount: 5.125" (h) x 10.75" (d) x 18.25" (w)

Weight:

Desktop: 21 lbs.
Rack Mount: 32 lbs. w/5-drives
 40 lbs. w/10-drives

Power Supply: 90-230 VAC, 50/60 Hz auto switching

Typical Current Draw:

	Desktop / Rack Mount (w/10-drives):	
	115 VAC	230 VAC
Start-up:	1.12 / 2.24A	.52 / 1.04A
Idle:	.31 / .62A	.14 / .28A
Read/Write/Seek:	.56 / 1.12A	.26 / .52A

Support: Unlimited free technical support
 48-hour turn-around on serviced product
 Advanced replacement available

Warranty: 3-years

Environmental Specifications	Operating	Non-Operating
Temperature:	+10 to +38 °C	-30 to +65 °C
Max Temp Gradient:	15 °C/hour	35 °C/hour
Humidity:	10%-90% non-condensing	5%-95% non-condensing
Altitude:	up to 10,000 feet	up to 40,000 feet
Vibration:	0.5 G rms 22-300 Hz	2 G rms 22-300 Hz
Shock:	5 G's 11ms half sine	70 G's 11ms half sine

Desktop and Rack Mountable Versions

Medea RTR disk arrays are available in a compact 5-drive desktop tower configuration and in a combination 3U, dual-channel rack mountable/desktop enclosure that accommodates up to 10 disk drive modules.

Plug & Play Installation

VideoRaid RTR (and each channel of VideoRaid RTRX) appears to your computer as one large SCSI disk drive with a single SCSI ID. Simply attach the array to a qualified Ultra160 SCSI host adapter and format as you would a single drive. No third party software or hardware configuration is required.

Sneaker-Net Enabled

VideoRaid RTR's small physical size and on-board RAID controller enables the unit to share files between workstations (with the same OS) via sneaker-net. Content can also be moved between VideoRaid RTR or VideoRaid RTRX equipped workstations by simply swapping the removable disk drive modules.

Removable Components

VideoRaid RTR and VideoRaid RTRX disk arrays feature hot-swappable disk drive modules and removable power supplies and RAID controllers. These field replaceable components enable the user to make quick job changes and simplify system upgrades and serviceability.

Scalable Capacity to 9 Terabytes

As your storage requirements grow, Medea RTR units can be daisy-chained together for storage capacities up to 9 terabytes (9,000 GB) on a single SCSI host adapter – that's over 100 hours of uncompressed video footage!

The Best Support in the Business

VideoRaid RTR and VideoRaid RTRX disk arrays are factory integrated and tested and are covered by a 3-year factory warranty. And like every Medea storage solution, the RTR disk arrays are backed with unlimited free technical support and an advanced replacement policy.



(Actual Size)