

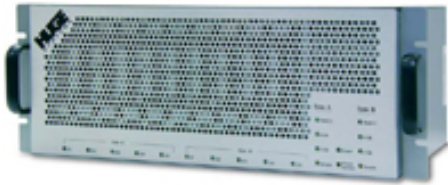


## Storage

### HUGE Media Vault 4210

Tuesday, January 17, 2006

Manufacture	Huge Systems
Product	HUGE Media Vault 4210
Web site	<a href="http://www.ciprico.com/">http://www.ciprico.com/</a>
Interface	FC 4Gb
Drive Types	SATA
Firmware/Driver version	v 02.5
Bluefish444 Hardware	HD Fury, HD Lust, SD Greed
Bluefish444 Software	Installer 5.1.11, 5.2.1 Beta
Other	Premiere Pro 1.5.1
System	HP XW8200 HP XW9300



### Configuration Types

	Resolution	File Format Support				Premiere Pro
		DPX/Cineon 10 bit RGB	QuickTime 10 bit YUV	Targa 8 bit RGBA	AVI 8 bit YUV	
Configuration 1	HD	N	Y	N	Y	
	SD	Y	Y	Y	Y	SDRT
Configuration 2	HD	Y	Y	Y	Y	
	SD	Y	Y	Y	Y	SDRT
Configuration 3	HD	Y	Y	Y	Y	HDRT
	SD	Y	Y	Y	Y	SDRT

### Legend

Y = Supports Single Stream I/O  
 N = Does not Support Single Stream I/O  
 Numeric value = Supported number of video streams  
 SDRT= supports 1 or more RT 10 bit YUV uncompressed SD resolution streams  
 HDRT= supports 1 or more RT 10 bit YUV uncompressed HD resolution streams



**Configuration 1**

Resolution	File Format Support				Premiere Pro
	DPX/Cineon 10 bit RGB	QuickTime 10 bit YUV	TARGA 8 bit RGBA	AVI 8 bit YUV	
HD	N	Y	N	Y	
SD	Y	Y	Y	Y	SDRT

**Computer System**            **HP XW 8200**  
**Controller card**            1 X ATTO FC 42XS 4Gb dual Channel PCI X installed in PCI X 133  
**Slot Configuration**        PCI x 133 slot  
**RAID Configuration**        RAID 0  
    1 X HUGE Media Vault 4210 Unit  
    LDMutil striping at 2048

Single Stream I/O results (Symmetry)					
Video Resolution		Pixel Format File format			
		10 bit RGB DPX/Cineon	10 bit v210 QuickTime	8bit RGBA TARGA	8 bit YUV AVI
NTSC		Y	Y	Y	Y
PAL		Y	Y	Y	Y
1920 x 1080 23.98		X	Y	X	Y
1920 x 1080 24		X	Y	X	Y
1920 x 1080 25		X	Y	X	Y
1920 x 1080 29.97		X	Y	X	Y
1920 x 1080 30		X	Y	X	Y
1280 x 720 59.94		X	Y	X	Y
1280 x 720 60.00		X	Y	X	Y

Uncompressed 10 bit YUV Video Stream playback Results ( Premiere Pro 1.5.1)				
Video Resolution		Quality Setting		
		Low	Med	High
NTSC		3	2	2
PAL		3	2	2
1920 1080 23.98		0	0	0
1920 1080 24		0	0	0
1920 1080 25		0	0	0
1920 1080 29.97		0	0	0
1920 1080 30		0	0	0
1280 720 59.94		0	0	0
1280 720 60.00		0	0	0



**Configuration 2**

Resolution	File Format Support				Premiere Pro
	DPX/Cineon 10 bit RGB	QuickTime 10 bit YUV	TARGA 8 bit RGBA	AVI 8 bit YUV	
HD	Y	Y	Y	Y	
SD	Y	Y	Y	Y	SDRT

Computer System        **HP XW 8200**  
 Controller card        2 XATTO FC 42XS 4Gb dual Channel PCI X installed in PCI X 133  
 Slot Configuration     Two ATTO cards in both PCI X 100 slots  
                                   BF Card in PCI-X 133 Slot  
 RAID Configuration    RAID 0  
                                   2 X HUGE Media Vault 4210 Unit  
                                   LDMutil striping at 2048

Single Stream I/O results (Symmetry)					
Video Resolution		Pixel Format File format			
		10 bit RGB DPX/Cineon	10 bit v210 QuickTime	8bit RGBA TARGA	8 bit YUV AVI
NTSC		Y	Y	Y	Y
PAL		Y	Y	Y	Y
1920 x 1080 23.98		Y	Y	Y	Y
1920 x 1080 24		Y	Y	Y	Y
1920 x 1080 25		Y	Y	Y	Y
1920 x 1080 29.97		Y	Y	Y	Y
1920 x 1080 30		Y	Y	Y	Y
1280 x 720 59.94		Y	Y	Y	Y
1280 x 720 60.00		Y	Y	Y	Y

Uncompressed 10 bit YUV Video Stream playback Results ( Premiere Pro 1.5.1)				
Video Resolution		Quality Setting		
		Low	Med	High
NTSC		3	2	2
PAL		3	2	2
1920 1080 23.98		0	0	0
1920 1080 24		0	0	0
1920 1080 25		0	0	0
1920 1080 29.97		0	0	0
1920 1080 30		0	0	0
1280 720 59.94		0	0	0
1280 720 60.00		0	0	0



on. Crash recording in 10 bit RGB can be achieved but with severely fragment the volume reducing array performance.

### **RT Performance**

The Actual amount of streams supported by a solution may vary depending on bit depth, the application used and the system tested on. In this example Bluefish444 uses Premiere Pro 1.5.1 in which we support the 10 bit YUV uncompressed QuickTime file format. Other applications or the use of lower bit depths in file formats may have a different result with the tested storage solution above.

### **Single Stream I/O testing procedure with Symmetry**

1. Set the video mode to be tested (E.g. 1280 720p 59.94)
2. Set the file format to be tested ( E.g. Cineon 10 bit RGB)
3. Select capture now
4. Capture 5 Clips at 1, 5, 10, 15, 30 minutes duration
5. Stop capture when each of the durations are reached
6. Capture two long form clips at a duration of 45 or 60 minutes
7. IF there are no dropped frames reported then the Storage configuration for that video mode and file format is supported

### **Multiple Streams Preview Playback testing procedure with Premiere Pro 1.5.1**

1. Select the Project type.
2. Capture a range of clips that are 5 minutes in duration.
3. Each captured clip is considered a separate stream.
4. Load a different clip in each video layer 1 and 2 to test two video streams.
5. Set the opacity for clip in video 2.
6. Change the playback settings of the RT render quality to high med or low, start with high.
7. Play back the time line.
8. If the playback indicator is Green then real time play back preview is achieved. Continue to add another video stream and add opacity or and effect and repeat the process.
9. If the indicator is red then Real Time playback preview was not achieved, there fore reduce the amount of streams or reduce the quality level in Playback Settings.

### **Note;**

The amount of video streams supported by the above tested products may vary with different applications and versions of premiere Pro plug ins. Bluefish444 uses a 10 bit YUV uncompressed video for I/O and editing mode and relies on the Adobe Premiere Pro 1.5.1 rendering engine for all effect and non v210 QuickTime file format previews.

Performance may be different with different computer systems and storage configurations Results found in this guide will be subject to change without notice.