

## Hardware Configuration Guide

### System HP xw9300

Friday, August 12, 2005



Real time playback performance is measured by Adobe Premier Pro only.  
Real time performance in Adobe Premiere Pro is dependant on the following factors;

- Controller card,
- File format,
- Storage type and configuration.

## HP xw9300 Workstation



### Base Configuration;

Product	HP XW 9300
Chassis	HP XW 9300
RAM	8GB DDR400 4 X 2 GB DDR 400 PC 3200
CPU	2 x AMD Opteron 250
Graphics 1	PCI-E Nvidia FX3400
System drive	Samsung SATA 120GB
OS	Windows XP Professional SP2
Host Controller #1	LSI Logic 1020/1030 u320 (onboard)
Host Controller #2	Adaptec 39320 A-R dual channel u320 PCI-X 133 controller card Bios version 4.30.0 Driver version 3.00.036
External Storage	External JBOD dual channel u320 SCSI with 4 devices 8 X Seagate 10K 76 GB hard drives Software Stripped, RAID 0

### Windows XP

#### Drivers & BIOS Versions Installed

Item	Driver	Bios
HP xw9300 Workstation System BIOS		1.21 Rev. a
Windows XP	Service pack 2	
NVIDIA nForce PCI System Management	445 Rev. A	
NVIDIA nForce Audio Driver	462 Rev. A	
NVIDIA nForce Network Controller Drivers	468 Rev. A	
Nvidia Graphics Card Driver	Nvidia 77.13 Rev. A	
LSI Logic SCSI controller	1.8.12.0	
HP xw9300 Workstation LSI53C1030 Embedded SCSI Firmware Utility	1.8.12.0	1.00 Rev. A
Adaptec Host raid Driver	3.0.36.0 Host raid	4.25.0

### Linux - Coming Soon

# Configuration Guide

## Single SCSI Controller

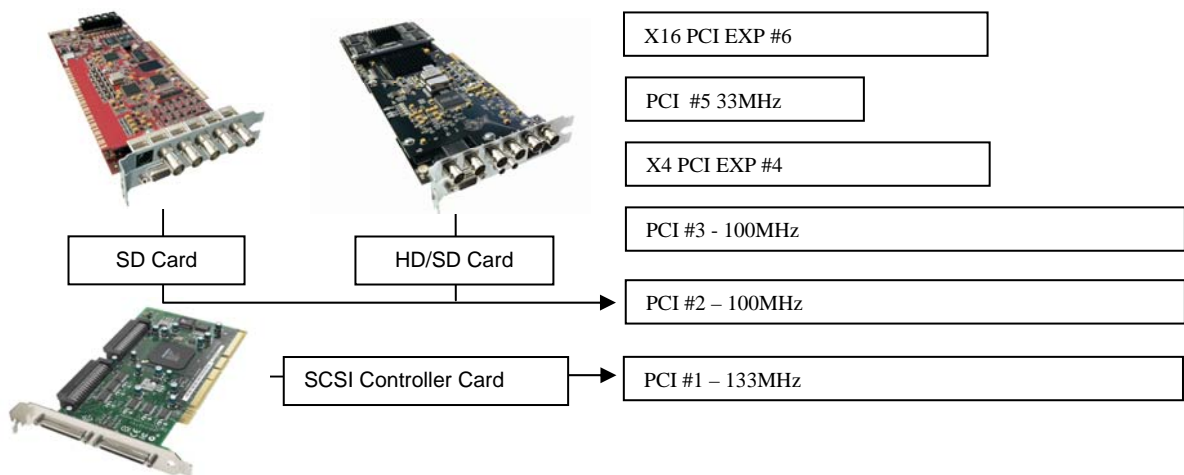


The following configuration supports single stream uncompressed HD and SD 10 bit YUV/RGB DPX, Cineon Linear/log based capture and playback. Excellent support for high end editing, Symmetry Digital Intermediate, Single Stream multi file format playback, RGB based compositing and effects with solutions such as Eyeon Digital Fusion, After Effects and Combustion.

Supports multiple stream of SD RT effects playback in Adobe Premiere Pro

Controller; Adaptec 39320A-R Dual channel u320  
 Storage; External JBOD dual channel u320 SCSI with 8 X Seagate 10K 76 GB hard drives, Software Stripped, RAID 0.

### Slot Configuration;



### Certified For:

#### Single Stream I/O

	4:4:4 10 bit RGB DPX, Cineon	4:2:2 10 bit YUV QuickTime v210	4:4:4:4 8 bit RGB Targa, TIFF	4:2:2 8 bit YUV AVI
<b>High Definition</b>	Y	Y	Y	Y
<b>High Definition RT</b>	N	Y**	N	N
<b>Standard Definition</b>	Y	Y	Y	Y
<b>Standard Definition RT</b>	Y	Y	Y	Y

#### Multi Stream Real Time Effects Playback\*

Resolution	Playback Setting	Streams
<b>Standard Definition</b>	High	4
	Med	6
	Low	7
<b>High Definition</b>	Low	1**

\* Cross dissolve and opacity effects applied to QuickTime v210 video clips

\*\* single track editing

## Dual SCSI Controller Card



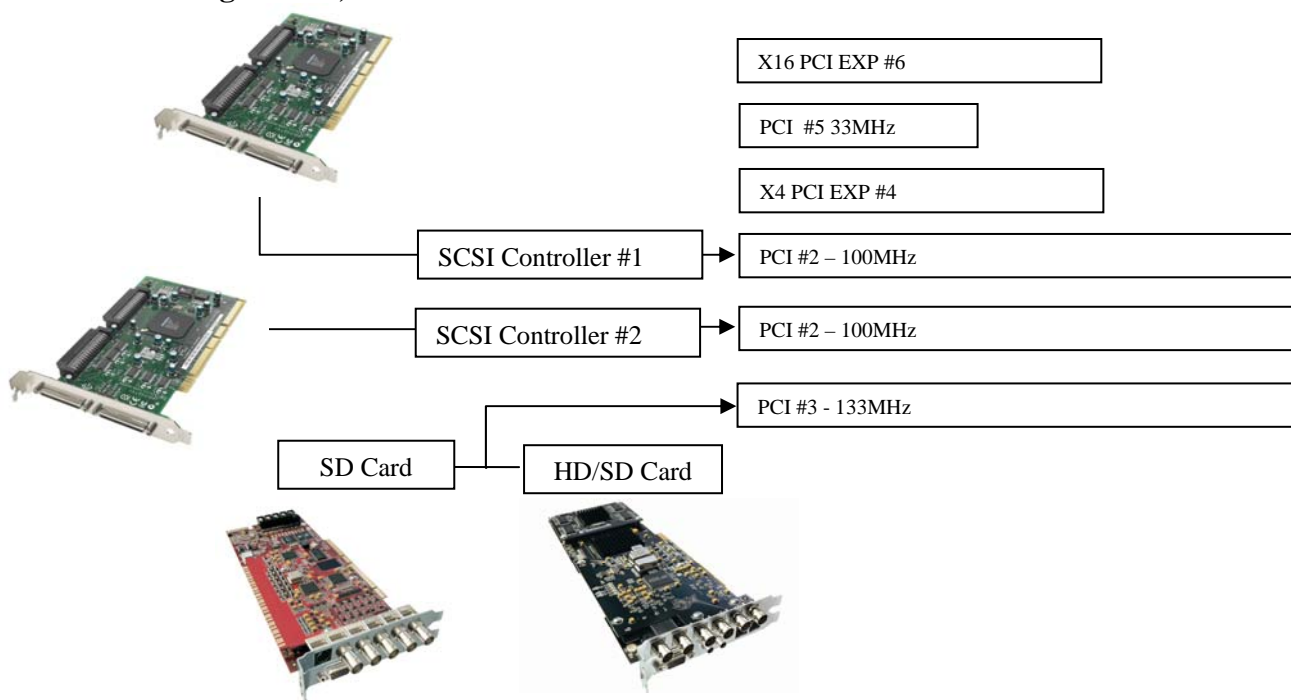
The following configuration uses two SCSI controller cards in two 100 MHz slots, providing four U320 channel SCSI connections. Provides increased read and writing performance over a single controller configuration and expands on storage capacities across two external storage solutions.

Supports multiple stream of SD RT effects playback in Adobe Premiere Pro

Recommended to have identical JBOD, backplane and SCSI drives  
Controller card BIOS and Driver version must be identical

Controller; 2 X Adaptec 39320A-R Dual channel u320  
Storage; 2 X External JBOD dual channel u320 SCSI with 8 X Seagate 10K 76 GB hard drives,  
Software Stripped, RAID 0.

### Slot Configuration;



### Certified For:

#### Single Stream I/O

	4:4:4 10 bit RGB DPX, Cineon	4:2:2 10 bit YUV QuickTime v210	4:4:4:4 8 bit RGB Targa, TIFF	4:2:2 8 bit YUV AVI
<b>High Definition</b>	Y	Y	Y	Y
<b>Standard Definition</b>	Y	Y	Y	Y

#### Multi Stream Real Time Effects Playback\*

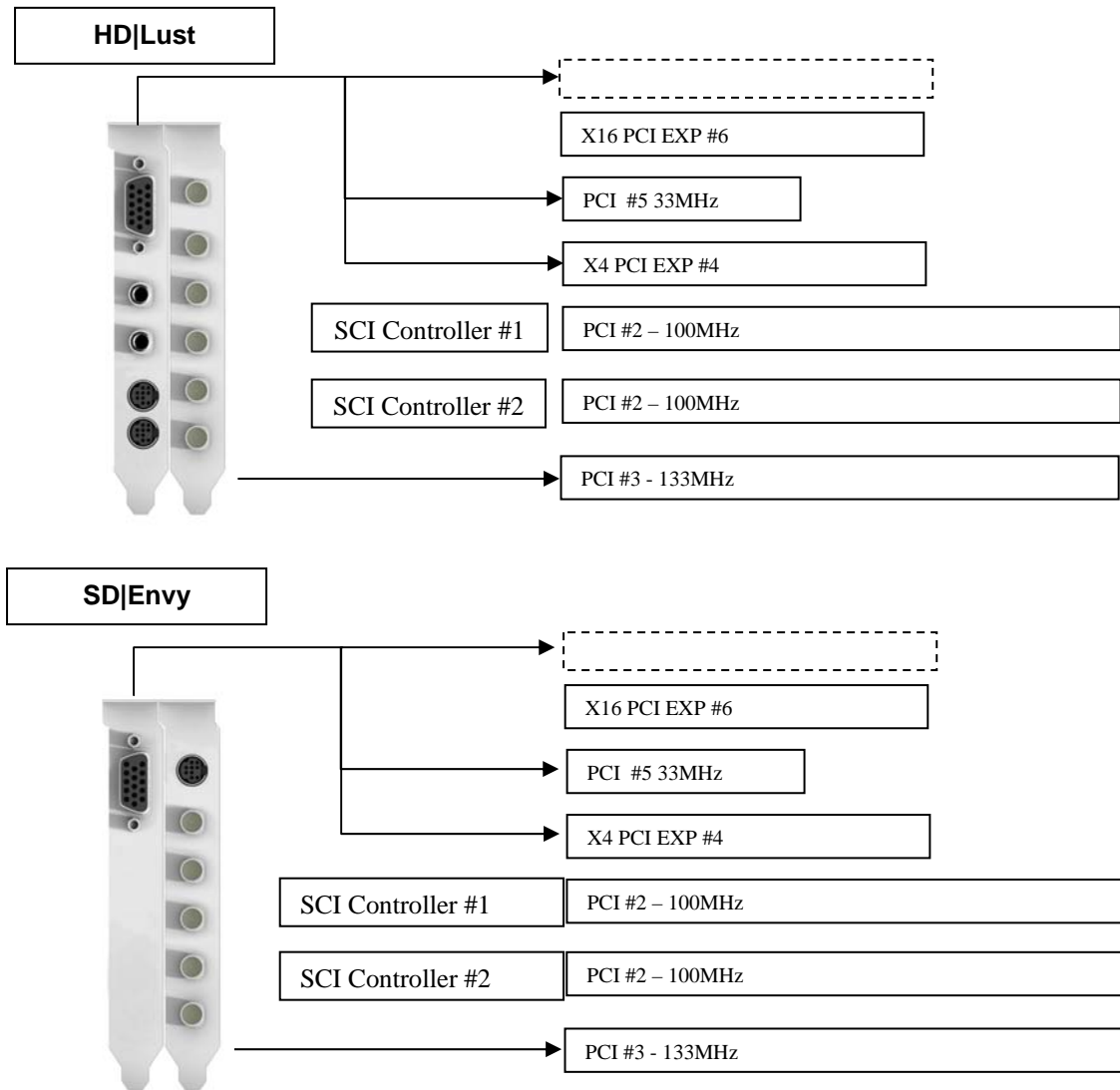
Resolutions	Playback settings	Streams
<b>Standard Definition</b>	High	8+
<b>High Definition</b>	High	3+

\* Cross dissolve and opacity effects applied to QuickTime v210 video clips

## HD|Lust SD|Envy Installation with Dual Controller Card

The HD|Lust and SD|Envy supports two PCI slots and can not be installed with a dual controller card configuration as the second PCI shield takes up the second PCI slot.

The HD|Lust and SD|Envy PCI shield can be separated and reconnected with cable extenders available at Bluefish444 Australia

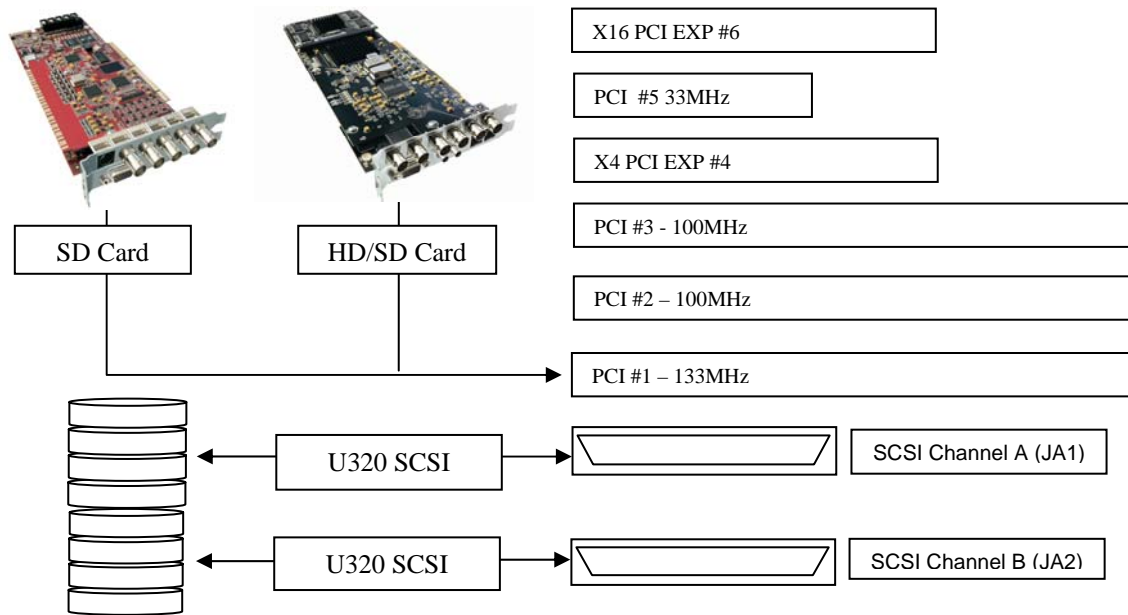




## Internal SCSI Controller – LSI 1020/1030

The following configuration supports single stream uncompressed HD and SD 10 bit YUV/RGB DPX, Cineon Linear/log based capture and playback. Excellent support for high end editing, Symmetry Digital Intermediate, Single Stream multi file format playback, RGB based compositing and effects with solutions such as Eyeon Digital Fusion, After Effects and Combustion.

Controller; LSI 1020/1030  
 Storage; External JBOD with 8 X Seagate 10K 76 GB hard drives, Software Stripped, RAID 0.



### Certified For:

#### Single Stream I/O

	4:4:4 10 bit RGB DPX, Cineon	4:2:2 10 bit YUV QuickTime v210	4:4:4:4 8 bit RGB Targa, TIFF	4:2:2 8 bit YUV AVI
<b>High Definition</b>	Y	Y	Y	Y
<b>Standard Definition</b>	Y	Y	Y	Y

#### Multi Stream Real Time Effects Playback\*

Resolution	Playback Setting	Streams
<b>Standard Definition</b>	High	4
	Med	6
	Low	7
<b>High Definition</b>	Low	1**

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