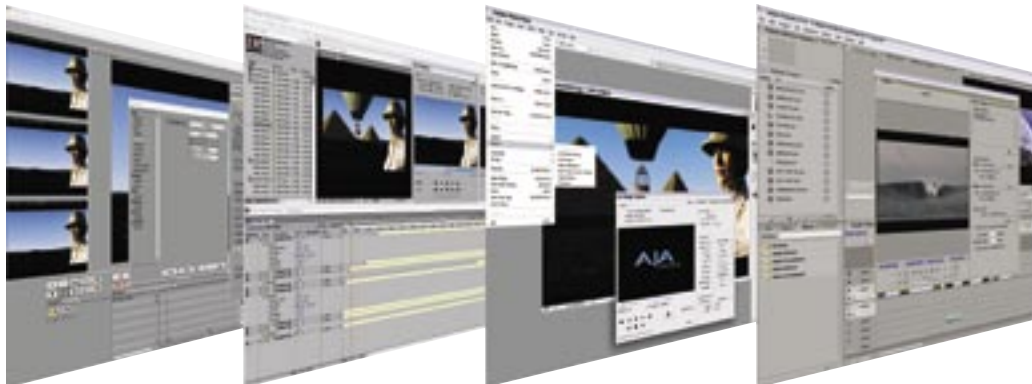## THE ONLY CARD FOR WINDOWS XP THAT PROVIDES BOTH HD AND SD ANALOG AND DIGITAL I/O

XENA LH offers a full ride to HD with no-compromise 10-bit and 8-bit uncompressed video, 2-channel AES and 8-channel embedded audio, analog composite/component video I/O, 2-channel analog audio I/O, 10-bit broadcast-quality hardware HD to SD down-conversion and TBC on analog inputs. XENA LH bridges the analog and digital worlds by offering I/O for both.

XENA LH comes standard with a breakout cable and also works with the optional KL-Box for rackmounted I/O convenience. Supporting native 10-bit resolution, XENA LHe provides optimum quality for SD and HD—the maximum allowed in SMPTE SDI standards. Using many user-selected formats—DPX, Cineon, TGA, TIFF, BMP, AVI or QuickTime™—XENA LH captures directly to disk. In addition to top quality video, XENA LH offers all the audio support you'd ever want: multi-channel audio and 16/24/32-bit AES/EBU digital audio at 48kHz for digital production. For ease of use, XENA LH also includes hardware sample-rate conversion on AES inputs—eliminating source synchronizing requirements.
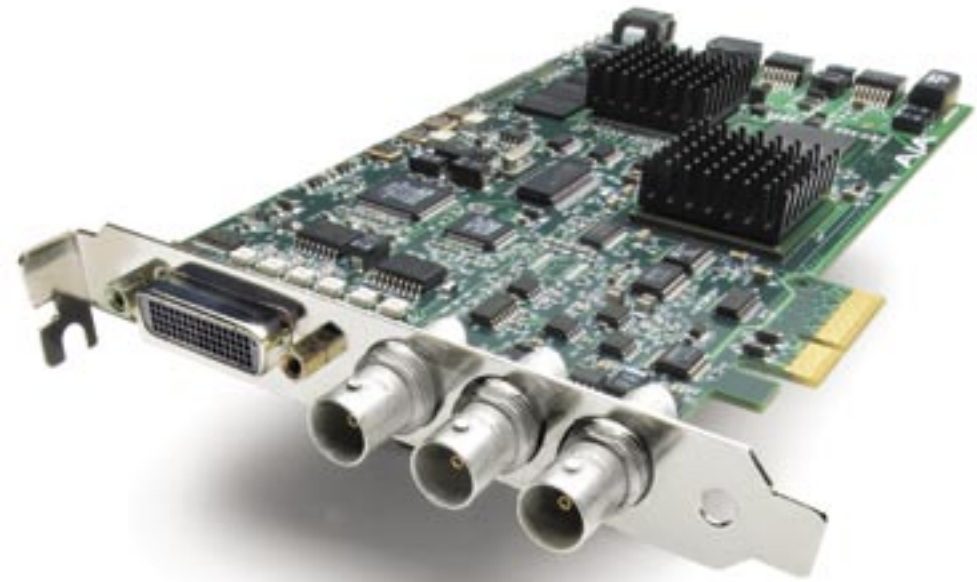
As the only card available supporting HD/SD analog I/O, XENA LH is perfect for many diverse workflows, including analog component connections from HDV cameras that allow direct ingest of HDV-acquired material into uncompressed or any other supported file format. These 12-bit analog inputs and outputs, in addition to 10-bit digital I/O's, ensure that XENA LH can interface to almost any Single-Link digital or analog HD or SD video format you throw at it.

XENA LH also provides AJA's incredible 10-bit hardware HD to SD down-conversion, which can be applied to any or all inputs or outputs. Digitize HD into space-efficient SD for offline work. Monitor HD files on an SD monitor. Make analog or digital SD tape masters from an HD project. Awesome workflow capabilities are yours with XENA LH.

XENA LH is available in two flavors: for PCI/PCI-X compatibility as the XENA LH, and for 4-lane PCIe compatibility as the XENA LHe. Both cards are identical in features and in video and audio connections, and use the same optional KL-Box breakout box. Choose the card that best suits your workstation!
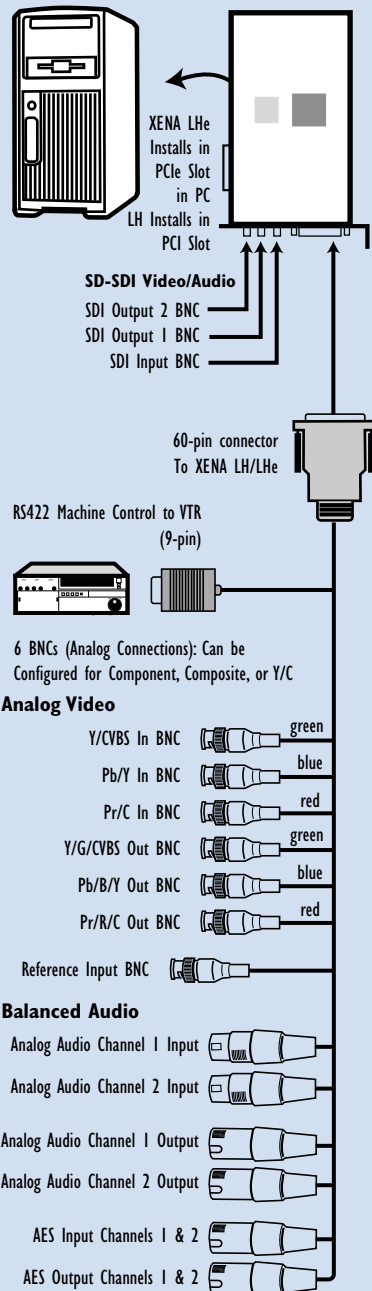
XENA LHe Shown

AJA XENA PLUG-INS

Autodesk Combustion   **After Effects**   **Adobe Photoshop**   **Adobe Premiere Pro**

XENA LH FEATURES
- 10-bit uncompressed SD/HD capture card
- 12-bit HD analog component I/O
- 12-bit SD analog component or composite/YC I/O
- 10-bit hardware HD to SD down-conversion
- Native support for DPX, Cineon, TGA, TIFF, BMP, AVI and QuickTime files
- SDI or HD-SDI input
- 2 independent SDI/HD-SDI outputs
- 2-channel balanced XLR AES and 2-channel balanced XLR analog audio I/O
- 8-channel SDI embedded audio I/O
- HD/SD Genlock
- RS-422 machine control
- AJA Machina software
- Adobe Premier Pro 2.0, Adobe After Effect 7.0, Adobe Photoshop CS/CS2, Autodesk Combustion 4 and Eyeon Fusion5 plugins and support
- Cables standard, KL-Box breakout optional
- 3-year warranty
- Available in PCIe as XENA LHe
- Available in PCI/PCI-X compatible as XENA LH

XENA|LHe

XENA LHe/LH Standard Breakout Cable

XENA LHe Installs in PCIe Slot in PC

LH Installs in PCI Slot

SD-SDI Video/Audio
SDI Output 2 BNC
SDI Output 1 BNC
SDI Input BNC

60-pin connector To XENA LH/LHe

RS422 Machine Control to VTR (9-pin)

6 BNCs (Analog Connections): Can be Configured for Component, Composite, or Y/C

Analog Video

Y/CVBS In BNC — green
Pb/Y In BNC — blue
Pr/C In BNC — red
Y/G/CVBS Out BNC — green
Pb/B/Y Out BNC — blue
Pr/R/C Out BNC — red

Reference Input BNC

Balanced Audio

Analog Audio Channel 1 Input
Analog Audio Channel 2 Input
Analog Audio Channel 1 Output
Analog Audio Channel 2 Output
AES Input Channels 1 & 2
AES Output Channels 1 & 2

XENA LH AND XENA LHe SPECIFICATIONS

XENA LH
PCI and PCI-X compatible

XENA LHe
PCIe 4-lane compatible

Look Up Tables
Real-time primary LUT
Import/export text-based LUT files

File Import/Export
Import (capture) and export (playback) standard file formats: DPX, Cineon, TGA, TIFF, BMP, and AVI, QuickTime, WAV.

Video Formats
SD:
525i 29.97
625i 25

HD:
720p Variable Frame Rate
  (23.976, 24, 29.97, and 30)
720p 50
720p 59.94
720p 60
1080i 25
1080i 29.97
1080i 30
1080p 23.976
1080psf 23.976
1080p 24
1080psf 24
1080p 25
1080psf 25
1080p 29.97
1080psf 29.97
1080p 30
1080psf 30

Video Input
Digital:
HD-SDI/SDI, SMPTE-259/292/296
Analog:
SD and HD Input, BNC
HD: YPbPr, RGB
SD: YPbPr, RGB (component mode)
  Composite/YC (composite mode)
12-bit A/D

Video Output
SD and HD Output, BNC
HD: YPbPr, RGB
SD: YPbPr, RGB (component mode)
  Composite/YC (composite mode)
12-bit D/A

Audio Input
Digital:
2-channel 16/24/32-bit AES/EBU, 48kHz
  sample-rate
  Synchronous or Non-synchronous
  (Internal sample-rate conversion)
16/24/32-bit SMPTE-259 SDI embedded
  audio, 8-channel, 48kHz synchronous
Analog:
2-channel balanced input
+24dbu Full Scale Digital
16/24/32-bit A/D, 48kHz sample rate
+/- 0.2db 20 to 20kHz Frequency Response

Audio Output
Digital:
2-channel 16/24/32-bit AES/EBU, 48kHz
  sample rate
16/24/32-bit AES/EBU, 48kHz sample rate
16/24/32-bit SMPTE-259 SDI embedded
  audio, 8-Ch, 48kHz synchronous
Analog:
2-channel balanced output
+24dbu Full Scale Digital
16/24/32-bit D/A, 48kHz sample rate
+/- 0.2db 20 to 20kHz Frequency Response

Down-Conversion
Hardware 10-bit output, 16/24/32-bit internal
  processing
Anamorphic: full-screen
Letterbox: image is reduced with black top
  and bottom added to image area with the
  aspect ratio preserved
Crop: image is cropped horizontally

Reference Input
Analog Color or HD Tri-level
1 BNC on standard breakout cable (75 ohm
  terminating)
KL-Box (optional): 2 BNCs, passive loop

Machine Control
RS-422, Sony 9-pin protocol Connector pro-
  vided on XENA LH/LHe breakout cable and
  on optional KL-Box.

Incredible 3-Year Warranty
AJA Video warrants that XENA products
will be free from defects in materials and
workmanship for a period of three years from
the date of purchase.

About AJA Video Systems, Inc.
Since 1993, AJA Video has been a leading
manufacturer of high-quality and cost-
effective digital video interface, conversion and
Desktop solutions supporting the professional
broadcast and post-production markets.

With headquarters in Grass Valley, California,
AJA maintains an extensive sales channel of
dealers and systems integrators around the
world. For further information, please see
our website at www.aja.com

Balanced Audio In Channels 1 & 2

AES/EBU Audio In and Out

Serial Digital In

Composite/Component Video In

RS422 Machine Control

Balanced Audio Out Channels 1 & 2

Serial Digital Out

External Reference (loop)

Composite/ Component Video Out

Analog Audio Output

KL-Box for XENA LHe & LH (Optional)

XENA LH Breakout Cables (Supplied)

AS PASSIONATE AS YOU ARE

AJA VIDEO SYSTEMS