

**Osprey 700e HD**

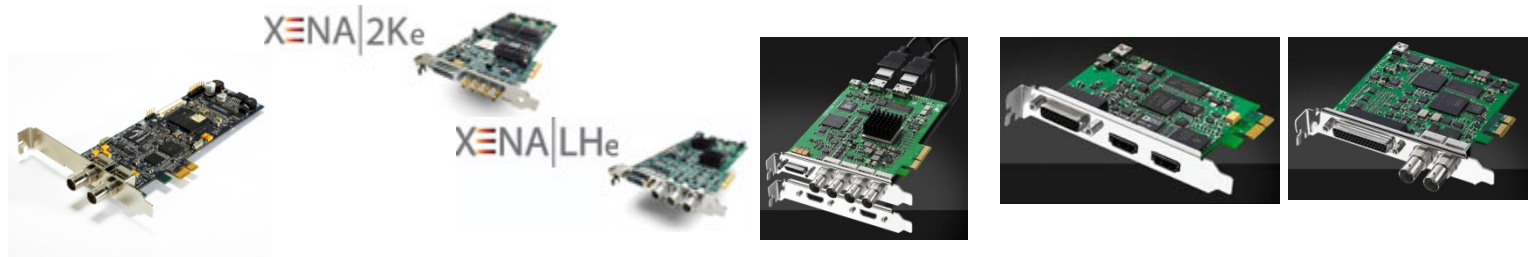
**Competitive Feature Comparison**

**March 12, 2009**



# Non-Linear Competitive Products

	Osprey 700e HD	AJA 2Ke/2K	AJA LHe/LH	Blackmagic HD DeckLink Extreme	Blackmagic Intensity Pro	Blackmagic DeckLink Studio
MSRP	\$2,795	\$2,990	\$1,790	\$995	\$349	\$695
	Half Height/Half Length, PCIe x1	Full Height/Full Length, PCIe x4/PCI-X 133 compatible	Full Height/Full Length, PCIe x4/PCI compatible	Full Height/Half Length, PCIe x4 plus HDMI "daughter" card	Full Height/Quarter Length PCIe x1	Full Height/Quarter Length PCIe x1



# Hardware Features

	Osprey 700e HD	AJA 2Ke/2K	AJA LHe/LH	Blackmagic HD DeckLink Extreme	Blackmagic Intensity Pro	Blackmagic DeckLink Studio
Video Processing Channels	1	1	1	1	1	1
SDI Audio Processing Channels	16	16	8	16		8
Composite inputs		1	1	1		1
S-Video Inputs		1		1	1	1
Component Inputs		1	1	1	1	1
SDI Inputs	1	2	1	2		1
SDI Pass through	1	2	2	2		1
HDMI Input				1	1	
HDMI Pass through				1	1	
HD Support	1080p 30	2K 24, 1080p 24	1080p 30	1080p 24	1080i 59.94	1080p 24
HD to SD Down conversion	Yes	Yes	Yes	Only to compatible frame rate	Only to compatible frame rate	Only to compatible frame rate
Balanced Audio			1	2		2
Unbalanced Audio					1	
AES/EBU		8	2	1		1
NTSC or PAL inputs	Yes	Yes	Yes	Yes	Yes	Yes
Warranty	2 Yr	3 Yr	3 Yr	1 Yr	1 Yr	1Yr

# Video Features

	Osprey 700e HD	AJA 2Ke/2K	AJA LHe/LH	Blackmagic HD DeckLink Extreme	Blackmagic Intensity Pro	Blackmagic DeckLink Studio
"SimulStream"	Yes					
DirectShow Compatible	Yes	Yes	Yes	Yes	Yes	Yes
Video Pre-Processing						
Motion adaptive de-interlacing	Yes	Yes	Yes			
Automatic Inverse Telecine	Yes					
Cropping and Scaling	Yes					
Proc amp control	Yes					
Gamma correction	Yes					
Closed Captioning Pre-rendering	Yes					
Graphics overlay with scaling and positioning	Yes					
On-the Fly HD-SD switching	Yes					
Loss of signal detection	Yes					
Wide Screen Signaling (WSS)	Yes					

# Osprey 700e HD - Differentiators

- The Osprey 700e HD is designed for 24/7 live streaming
  - Video pre-processing is built into the Osprey driver
  - Recovers from a complete loss of signal
    - *It will display SMPTE color bars with user defined text overlay*
  - In a live environment, a stream will continue and the encoder will not stop encoding
  - Designed for long encode sessions, i.e. broadcast television
  - It compensates for low video signal strength
  - The Osprey driver will compensate for A/V sync impairments and network hits
  - It can switch on-the-fly from any HD signal to any SD signal and back
    - *Also between HD signals, i.e. 1080i -> 720p, 1080i 30 -> 1080i 24*
  - It's capable of multiple streams/files from a single video source
    - *Each can be independently configured for size, scaling, bit rate, cropping and logo overlay*
    - *It can stream and save to file at the same time*
  - Tested for A/V Sync maintenance with standard encoding applications
  - Workstation requirements
    - *PC based system with Quad-core processor*
    - *Does not require Enterprise-class workstations*

# Non-Linear Competitors

- AJA and Blackmagic capture cards are designed for non-linear editing
  - Video is captured to a single file (primarily uncompressed AVI and QuickTime)
  - Video processing is all done to the video post-capture
    - *Video is usually edited in Adobe Premiere Pro, Adobe After Effects, Photoshop or similar software*
  - Final video is then compressed into desired format
  - It is possible to capture and pass video to an encoder, but all video processing will be done at the encoder level
    - *Less efficient, encoder/system has to work harder*
  - Workstation requirements
    - *Enterprise class*
    - *HP XW8600/8200/9300, Tyan i5396*
    - *AJA – 12 systems supported*
    - *Blackmagic – 3 systems and 7 motherboards*

# Non-Linear Competitors

- No pre-processing capability in drivers
  - Logo overlay
  - Cropping
  - Proc amp, gamma correction
  - Inverse telecine
  - CC pre-rendering
- Will not recover from loss of video signal
  - The encoder will stop encoding
- Cannot switch on-the-fly from HD to SD and back
- They do not have “SimulStream” capability
  - Can only create single stream

