



# Bluefish444's Symmetry™

Now with 3D  
I/O & standards  
conversion

Stable, flexible and intuitive software

**Symmetry is Bluefish444's integrated 3D & DI acquisition, review and playback software for Windows OS and is included FREE with all I/O cards in the Epoch range.**

The perfect balance between features and usability, Symmetry captures Cineon, DPX, Targa, QuickTime and AVI files allowing creative professionals to use footage on multiple applications across multiple platforms; eliminating the acute pain of re-rendering between tools.

Symmetry dispenses with any loss issues associated with color conversion by giving the user the choice of which color space best suits their needs from 8-bit YUV up to 16-bit RGB. With complete frame accurate VTR control, Symmetry frees up the creative process to design and create rather than waste countless hours managing complex NLE systems just to get media in and out of a workstation.

Equally comfortable as a digital intermediary or as a review and payout solution for digital content creators, composers and editors; Symmetry's interface, to quote one customer is "monkey simple" with the capabilities of much more expensive systems.

Do away with third party converters forever and utilise Symmetry as a standards converter for SDI between 2K/HD/SD and preview SDI as DVI/HDMI.



## 10 Reasons why everyone wants Symmetry working for them:

- 1) Desktop and SDI/DVI/HDMI preview of capture and playback.
- 2) Batch capture, EDL capture, playback and playlist master to tape from/to various SDI devices such as HD VTR's, SDI equipped cameras, film scanners and dual link 4:4:4 devices.
- 3) Capture to the highest image quality of 10-bit RGB sequential DPX and Cineon file formats to preserve all the data and metadata on file.
- 4) Support for SMPTE and CGR capture and playback.
- 5) Seamless integration with the leading Digital Intermediate solutions through the common use the 10-bit RGB DPX and Cineon file formats.
- 6) Choose between multiple video file formats to capture, preview and playback such as DPX, Cineon, QuickTime, Targa, AVI, R3D and Cineform.
- 7) Support for 16 channels for embedded audio and 5.1 / 7.1 surround sound monitoring.
- 8) Frame accurate RS422 control from/to the industry's leading VTR's, single link and dual link devices.
- 9) Capture and playback dual 3D SDI to any file format supported by Symmetry as left & right eye, side by side, top and bottom and others.
- 10) Avoid third party converters and utilise Symmetry presets for SDI standards conversion between 2K/HD/SD and preview SDI as DVI/HDMI.

## Compatible with ALL Bluefish444 Epoch I/O cards.

Pictured: Epoch | 4K Neutron



## More Features and Specifications

### SUPPORTED VIDEO MODES

720 x 486i @ 59.94 Hz NTSC  
720 x 576i @ 50.00 Hz PAL  
1280 x 720P @ 23.976Hz, 24Hz, 25Hz, 29.97Hz, 30Hz, 50Hz, 59.94Hz, 60Hz  
1920 x 1080i @ 47.96Hz, 48Hz, 50Hz, 59.94Hz, 60Hz  
1920 x 1080PsF @ 23.976Hz, 24Hz, 25Hz, 29.97Hz, 30Hz  
1920 x 1080P @ 23.976Hz, 24Hz, 25Hz, 29.97Hz, 30Hz, 47.96Hz, 48Hz, 50Hz, 59.94Hz, 60Hz  
2048 x 1080P @ 23.976Hz, 24Hz, 25Hz, 29.97Hz, 30Hz, 47.96Hz, 48Hz, 50Hz, 59.94Hz, 60Hz  
2048 x 1080i @ 47.96Hz, 48Hz, 50Hz, 59.94Hz, 60Hz  
2048 x 1556PsF @ 14.98Hz, 15Hz, 18.98Hz, 19Hz

### SUPPORTED FILE FORMATS

8/16 BIT TIFF  
10 BIT YUV QUICKTIME v210  
8 BIT YUV QUICKTIME 2VUY  
10 BIT RGB CINEON SEQUENTIAL FILE FORMAT WITH OPTIONS FOR: SMPTE/CGR  
10 BIT RGB DPX SEQUENTIAL FILE FORMAT WITH OPTIONS FOR: SMPTE/CGR  
8 BIT RGBA TARGA SEQUENTIAL FILE FORMAT WITH OPTIONS FOR: SMPTE/CGR  
8 BIT RGB TARGA SEQUENTIAL FILE FORMAT WITH OPTIONS FOR: SMPTE/CGR  
8 BIT YUV AVI  
R3D  
CINEFORM  
NEW FILE FORMATS ADDED VIA SOFTWARE UPGRADES

### SUPPORTED AUDIO FEATURES

UNCOMPRESSED PCM WAV AUDIO FORMAT IN 16-BITS OR 24-BITS SAMPLING DEPTH  
SINGLE WAV FILE  
MULTIPLE STEREO WAV FILE  
MULTIPLE MONO WAV FILE  
UP TO 16 EMBEDDED AUDIO CHANNELS IN VIDEO FILE (QUICKTIME & AVI)  
BROADCAST WAVE INFO (BWF) OPTION  
SUPPORT FOR RF64  
5.1 & 7.1 SURROUND SOUND MONITORING OF AES/EBU AND AES ID3  
AUDIO LEVEL MONITORING

### OTHER FEATURES

DESKTOP AND SDI/DVI/HDMI PREVIEW OF PLAYBACK AND CAPTURE OF ALL SUPPORTED VIDEO MODES  
SUPPORT FOR SINGLE LINK, DUAL LINK AND 3D I/O VIDEO MODES  
SDI/DVI/HDMI PREVIEW OF HARDWARE SIGNAL FORMAT CONVERSION BETWEEN 2K/HD/SD INCLUDING 3:2 PULLDOWN  
BATCH CAPTURE  
SINGLE FRAME GRAB CAPTURE  
ASSEMBLE AND INSERT TO TAPE  
PLAYLIST AND CLIP ASSEMBLY FOR PREVIEW AND MASTERING TO TAPE  
EDL CMX 3600 SUPPORT  
MEDIA BIN  
TRIM CLIP MODE  
AUDIO AND VIDEO LINKING AND UNLINK ABILITY TO CREATE SYM FILES  
FRAME ACCURATE RS422 CONTROL WITH INTERFACE FOR SHUTTLE, JOG FRAME ADVANCE AND REVERSE  
KEYBOARD SHORTCUTS  
SAVE AND LOAD PROJECTS IN XML FORMAT FOR VERSATILE 3RD PARTY APPLICATION SUPPORT AND PROJECT ARCHIVING  
DROP FRAME AND NON DROP FRAME TIME CODE SUPPORT  
DROP FRAME ERROR REPORTING ON CAPTURE AND PLAYBACK REPORTING  
RESTART CAPTURE WHEN DROP-FRAME OCCURS  
BUILT IN SYSTEM BENCH MARKING AND LOGGING FEATURE  
PREVIEW DPX FILES AS LOGARITHMIC OR LINEAR  
4:3 AND 16:9 PREVIEW FOR SD WIDESCREEN FOOTAGE  
LOOP PLAYBACK  
PRE CREATE OPTION TO AVOID DROP FRAME DURING LONG FORM CAPTURE  
1D LUT SDI/DVI/DHMI PREVIEW  
COMMAND LINE INTERFACE FOR 3RD PARTY DEVELOPERS  
CAPTURE AND PLAYBACK DLL AVAILABLE FOR 3RD PARTY DEVELOPERS

## CONTACTS

### Head Office

Bluefish444  
t. +61 (0)3 9682 9477  
f. +61 (0)3 9682 9466  
info@bluefish444.com

### Europe

Bluefish444 Europe  
t. +44 (0)20 8429 8345  
f. +44 (0)20 8866 8207  
prowsell@bluefish444europe.com

### North America

JB&A  
t. 415-256-2800  
f. 415-699-4627  
sales@jbanda.com



[www.bluefish444.com](http://www.bluefish444.com)

