







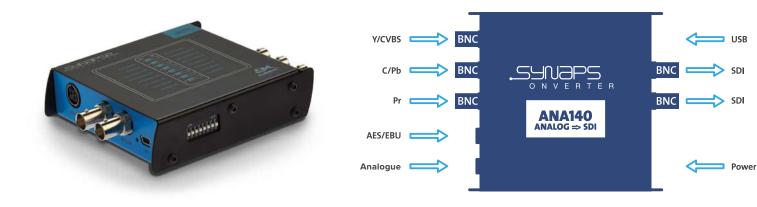
CONVERT VIDEO AND AUDIO STREAMS IN REAL TIME BETWEEN AN EXTENSIVE RANGE OF INDUSTRY STANDARD FORMATS

ANALOG => SDI	HDMI => SDI	SDI ⇒ HDMI
PRODUCT BROCHURE		

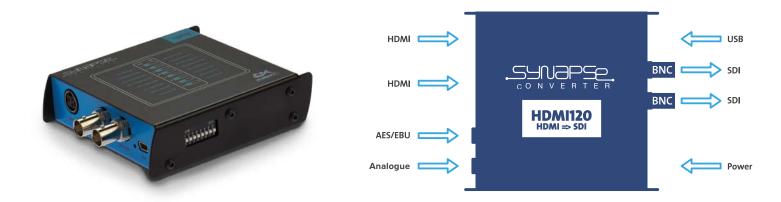
ANA140 ANALOG => SDI

HDMI120 HDMI => SDI

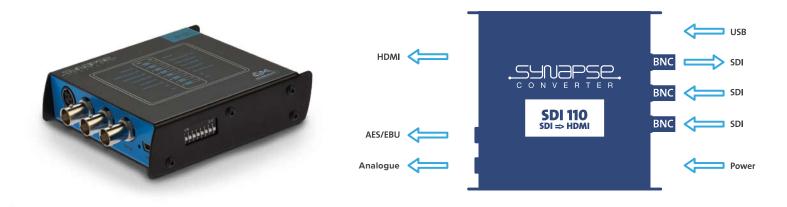
BLUEFISH444 ANALOGUE TO HD/SD-SDI CONVERTER



BLUEFISH444 HDMI TO HD/SD-SDI CONVERTER



BLUEFISH444 HD/SD-SDI TO HDMI CONVERTER



SDI 110 SDI => HDMI





	A/V INPUTS	CONVERSIONS	A/V OUTPUTS	FEATURES
Video I/O	1 x YUV, 1 x S-video 1 x Composite	1 x Analogue => 2 x HD-SDI (3Gb/s)	2 x HD-SDI (3Gb/s)	HD SDI Downconversion
Audio I/O	1 x Stereo Unbalanced Audio 1 x Digital Audio AES/EBU pair	Muxed with video input => Embedded Audio	2 x Embedded Audio	PsF Modes Redundancy Channel HD/SD-SDI Preview

Synapse conversions from Analogue to HD/SD-SDI are configured via DIP switches on the side of the converter.

YUV, S-Video or Composite Analogue video is converted to 2 x HD/SD-SDI (3Gb/s). Stereo pair Analogue audio, or, stereo pair AES EBU audio signals are muxed together with Analogue video inputs and converted to 2 channels of embedded audio within the resulting HD/SD-SDI streams. Two HD/SD-SDI outputs are available after conversion. The second can be used as a backup in the event of redundancy, or, as a downconverted simultaneous HD/SD-SDI output for preview.

An on-screen display utility provides status information about the configuration settings of the converter and an embedded pattern generator is available to calibrate 3rd party monitors.

	R HDMI120 HDMI ⇒ SDI			
	A/V INPUTS	CONVERSIONS	A/V OUTPUTS	FEATURES
Video I/O	2 x HDMI1.3 8 Channels of Embedded Audio	1 x HDMl1.3 => 2 x HD-SDI (3Gb/s)	2 x HD-SDI (3Gb/s) 8 Channels of Embedded Audio	HD SDI Downconversion PsF Modes Redundancy Channel HD/SD SDI Preview
Audio I/O	1 x Stereo Unbalanced Audio 1 x Digital Audio AES/EBU pair	Muxed with HDMI input => Embedded Audio	2 x Embedded Audio	

HDMI 1.3 Input supports 8 channels of embedded audio and 12/10/8-bit acquisition.

A second HDMI input is provided for redundancy, providing a fail-safe mechanism should the first HDMI input be lost. Independent stereo Analogue and Digital audio inputs can be muxed together with HDMI and output and HD/SD-SDI with 2 channels of embedded audio in SDI. Two HD/SD-SDI outputs are provided. The second can be used as a backup in the event of redundancy, or, as downconverted simultaneous HD/SD-SDI outputs for preview.

An on-screen display utility provides status information about the configuration settings of the converter and an embedded pattern generator is available to calibrate 3rd party monitors.

	SDI 110 R SDI ⇒ HDMI			
	A/V INPUTS	CONVERSIONS	A/V OUTPUTS	FEATURES
Video I/O	2 x HD/SD-SDI 3Gb/s	1 x HD/SD-SDI 3Gb/s => 1 x HDMI 1.3	1 x HDMI 1.3 1 x HD-SDI (3Gb/s)	HD-SDI Downconversion
Audio I/O	8 Channels of Embedded Audio	Embedded Audio => Stereo Analogue/Digital Audio	1 x Stereo Unblanced Audio 1 x digital AES/EBU Pair	PsF Modes Redundancy Channel HD/SD-SDI Loop

Synapse conversions from HD/SD-SDI to HDMI include video scaling, PsF mode and de-interlacing, all configured via dip switches on the side of the converter.

An on-screen display utility provides status information about the configuration settings of the converter and an embedded pattern generator is available to calibrate 3rd party monitors.

The HD/SD-SDI input signal is simultaneously displayed as an HD/SD-SDI loop-through. A second SDI input is provided for redundancy, providing a fail-safe mechanism should an input be lost.

SYNAPSE CONVERTER RANGE

AT A GLANCE	SDI110	HDMI120	ANA140
Video Input	3G/HD/SD-SDI	HDMI1.3	CVBS/YPBPR/S-VIDEO
Video Output	HDMI1.3	3G/HD/SD-SDI	3G/HD/SD-SDI
Audio Input	SDI EMBEDDED	HDMI/AES/ANA	AES/ANA
Audio Output	HDMI/AES/ANA	SDI EMBEDDED	SDI EMBEDDED
2nd Copy Output	NA	SDI 2	SDI 2
2nd Fail-safe Input	SDI 2	HDMI 2	NA
SDI Loop Output	SDI LOOP	NA	NA
Downconverter	YES	YES	YES
On-screen Status	YES	YES	YES
De-interface	YES	NA	NA
PsF Mode	YES	YES	YES

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66 Vizrt is pleased to qualify and recommend the Bluefish444 Synapse converters because they are reliable and tailored to broadcasters needs."

Gerhard Lang, Chief Engineering Officer, Vizrt



66 The analog to SDI conversion is flawless... Our impression of the product is simple amazement. It's cost effective, flawless, and has exceeded all our expectations."

Walter Procek, President, Reboot Entertainment

EDWARDSVILLE

We are very happy with the performance and the economy of the products. They were easy to configure out of the box, and they do what we need them to do. I believe they have solved two important issues in our video editing workflow, and they have performed rock-solid."

Wayne Mills, Avid Certified Trainer, Southern Illinois University Edwardsville

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Bluefish444 | Telephone: +61 3 9682 9477 | Fax: +61 3 9682 9466 | info@bluefish444.com For worldwide reseller and distributor contact information, please go to bluefish444.com/contacts

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