

EVDirc Pro Encoders / Decoder

3G / Dual-Link / 2 x 1.5G SDI over 1.5G SDI using Dirac Pro

Multi-standard HD-SDI (1.5Gbit/s) can comfortably be carried over an SDI (270Mbit/s) link. Alternatively, 3Gbit/s HD-SDI can be compressed to a 1.5Gbit/s HD-SDI link with very little delay. This means that signals such as 1080P60, stereoscopic 3D production, Digital Cinema or other new formats can be transported over an existing studio infrastructure.

The EVDirc Pro allows the transport of a 3G, Dual-Link or two HD-SDI sources using a single HD-SDI link. The encoded output is fully compliant with SMPTE 292M and is viewable using an HD-SDI input monitor for confidence checking.

The EVDirc Pro uses the Dirac Core Set supplied by Westwood Rock Ltd compliant with the BBC-developed Dirac Pro compression system.

Quality

As you would expect of the BBC, quality has been key to the development of Dirac technology.

VC-2 Video conversion

Video compression over SDI to SMPTE 2042 and SMPTE 2047

Low Delay – only a few lines of latency

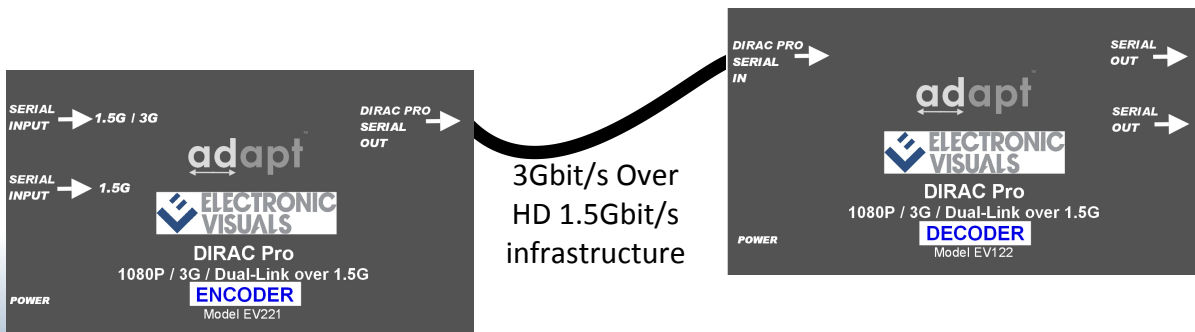
Uniquely, in the low latency profile a compression factor of 8 times can be achieved with only a few lines of delay. This means that multi-standard HD-SDI (1.5Gbit/s) can comfortably be carried over an SDI (270Mbit/s) link. Alternatively, 3Gbit/s HD-SDI can be compressed to a 1.5Gbit/s HD-SDI link with very little delay and, again, in a small hardware form factor. Of course this means that signals such as 1080P60, stereoscopic 3D production, Digital Cinema or other new formats can be transported over an existing studio infrastructure.

Visible picture information over a compressed link:

Yet another unique feature is that a real time low-level picture is visible on a standard monitor over the “compressed” SDI link.

Low power, low cost

The core set supplied by Westwood Rock is the smallest video codec and has been designed to fit into FPGA vendors’ cost-effective families enabling the EVDirc Pro to be a very cost effective solution.



Powered by:

 **Westwood Rock**

EVDirac Pro Encoder / Decoder

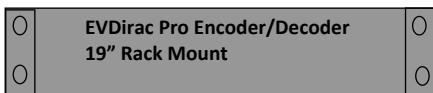
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Specifications

Encoder

Decoder

SDI VIDEO	SMPTE 259M SMPTE 292M SMPTE 424M	SDI VIDEO	SMPTE 259M SMPTE 292M SMPTE 424M
VIDEO FORMAT TO VC-2-ENCODER	SMPTE 2042 and 2047 SMPTE 292M / 259M	VIDEO FORMAT TO VC-2-DECODER	SMPTE 2042 and 2047 SMPTE 292M / 259M
RETURN LOSS	AS SMPTE 292M/424M	RETURN LOSS	AS SMPTE 292M/424M
CABLE LENGTH (Belden 1694A)	150M (292M) 100M (424M)	CABLE LENGTH (Belden 1694A)	150M (292M) 100M (424M)
POWER SUPPLY		POWER SUPPLY	
POWER CONSUMPTION		POWER CONSUMPTION	
DIMENSIONS	130 x 60 x 25mm	DIMENSIONS	130 x 60 x 25mm



Applications include doubling HD-SDI routing density. The EVDirac Pro can be supplied as stand alone units or in rack mount with redundant power supply.

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