BrightEye NXT 450
Clean Streaming Router

A Set of Signal Processing Resources Tied Together with a Flexible Routing Matrix

Imagine this. You're out in the field. You've just been handed a variety of signals, with no genlock reference, and in different formats. You're expected to input them; perform live switching and dissolves; convert them to a standard format for distribution; and now – the producer wants a live streaming output AND wants to use an incoming MPEG stream. How many different processors are you going to need? How about – just ONE?

High Quality, High Profile MPEG Encoder/Decoder

The BrightEye NXT 450's high quality, high profile H.264 (MPEG-4) Encoder uses advanced coding techniques to give superb performance even at low bit rates. It produces a High and Low Resolution output simultaneously. The independent Decoder provides baseband output in any desired format. The NXT 450 serves as a full duplex codec, supporting both an outgoing and incoming streaming path.

IP and DVB-ASI Streaming Connections

The NXT 450 can send or receive encoded streams over IP or by DVB-ASI. The NXT 450 incorporates an RJ-45 Gigabit Ethernet port dedicated to streaming connectivity. You can deliver the Encoder output by Unicast and Multicast over IP. Two Unicast outputs can be directed independently to any destination. You can output a DVB-ASI formatted stream through a BNC port, or by fiber with an SFP module.

Flexible Architecture

Flexible I/O configuration allows on-the-fly changes to the number of inputs and router destinations, from 9 inputs and 2 outputs, to 2 inputs and 9 outputs. The two SFP ports allow for fiber optic connections, HDMI I/O, or additional HD-BNC SDI connections. The flexibility extends to the integration of the Encoder and Decoder. Feed any source to the Encoder, and feed the Decoder to any destination.

Features

- **Simultaneous high quality, high profile MPEG Encoder/Decoder**
- **Advanced H.264 coding techniques provide superb performance at low bit rates**
- **Encoder outputs by Unicast and Multicast**
- **Encoder produces both a High and Low Resolution output simultaneously**
- **Independent Decoder operates simultaneously, with baseband output in any desired format**
- **Feed any source to the Encoder**
- **Feed the Decoder output to any destination**
- **Multi Image license option for DualPath and PiP-Efx**

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D E S I G N S

Designed and built in California
5 YEAR
WARRANTY