

Neural Surround[™] UpMix

Digital Radio and DTV 5.1 Production Solution



The Neural Surround[™] UpMix renders any two channel audio source (stereo, matrix encoded stereo, Lt Rt or Neural Surround DownMix) as surround sound. Using Neural Audio's patented technology, the UpMix can simultaneously position multiple elements within the surround field creating unparalleled image stability and granularity.

Patented Approach Assures Faithful Reproduction

This patent-pending approach avoids taking "artistic license" with content by placing audio exactly where it would be heard in a professional LEDE (Live End Dead End) listening environment. For example, mono or pan-pot stereo will image in front of the listener where as stereo containing depth information will surround the listener. The UpMix can be used as a stand-alone unit to monitor stereo production or in tandem with the Neural Surround DownMix as a complete 5.1 transport solution. The 5.1 surround content that has been encoded by the Neural Surround DownMix will be reproduced just as it was heard in the original 5.1 mix.

The Neural Surround DownMix/UpMix system makes the surround sound transition simple and affordable within existing stereo production or broadcast environments.

Technical Specifications*

General

Sample Rate	32 kHz-48 kHz (AES/EBU, Wordclock-Slave)
Number of Available Channels. . .	1 AES-3 Input (Stereo) 3 AES-3 Output (6 channels = 5.1)
Digital Inputs and Outputs.	AES/EBU, 110 ohm, Balanced XLR, in and out via D-SUB breakout cable Wordclock, BNC 75 ohm, in, out and through
Communication	RS-485 control RJ 45, X-NET 2 Protocol, in (I) and through (T) USB Control Full Speed Rev. 2.0 Silent Sense RJ 45 Connector Relay Closure
Power Supply.	Voltage 100-240 V 4-2A at 50-60Hz Connector EMI suppressed Male

* Specifications are subject to change.

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 ADV. 3231B (04/06)