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Quality products along with personal hands on service have been USL's commitment to their customers since inception. Keeping this goal in sight, USL has taken its vast cinema exhibition and manufacturing knowledge to a whole new level with the introduction of the JSD-80L.

manufacture quality cinema products.

The JSD-80L processor surpasses all features and performance of the older JS series. The new JSD-80L now supports eight channels with optional digital inputs for eCinema and dCinema installations. All channels except the subwoofer have one-third octave

and 10 KHz tones. Also included is an eight channel analog input on a female DB25 connector and two 35mm analog projector inputs on DB9 connectors. There are two non-sync stereo inputs on RCA jacks, one microphone input on a DB9 connector, and a hearing impaired output on a Phoenix connector.

The backplane has both Phoenix connectors and DB25 connectors for outputs and automation functions. A universal power supply



JSD-80L

After a twenty year run with the JS series analog cinema processor, USL announced, with regret, at the end of 2004, that it would have to discontinue the JS series due to component obsolescence. Recognizing the continuing need for an affordable cinema processor, USL has focused its efforts on producing a new DSP based processor. With the evolution of the THX approved JS series processor to the new state-of-the-art DSP based JSD-80L, USL has kept their commitment to

advanced "Constant Q" digital equalizers plus bass and treble controls. The subwoofer channel has a fully adjustable parametric equalizer. All outputs are now active balanced types for maximum noise immunity. To keep up with advancing cinema technology, the JSD-80L features a 106dB dynamic range with a total harmonic distortion of less than 0.015%. For maximum sonic performance the SR and A type noise reduction is processed at 192 KHz sample rate instead of the standard 48

operates from 100-240 VAC 50-60Hz @ 300mA.

Modular construction allows the JSD-80L to be serviced easily in the field. A personality module retains all level and EQ settings in case of a module failure. The backup copy of all the settings in the personality module permits loading a copy of all the settings into a new replacement module without the need for a computer and technician. The operator simply plugs the personality module in and loads the settings, thus saving time and money.

Principal alignment is done via a laptop computer. A PDA may be used for portability and economy. The projector gains can also be adjusted directly on the front panel of the JSD-80L.

Technical advancements made in the JSD-80L allow the cinema owner to present the finest possible show with state of the art DSP audio technology.



Jack Cashin testing the JSD in the lab

KHz sample rate. The digital surround decoding matrix vastly improves channel separation.

To facilitate alignment the processor has a built-in real time analyzer for both "A" and "B" chains along with signal generators for pink noise, 100Hz, 1 KHz