



## USL JSD-60

Digital Cinema Processor



### Features

- 96 kHz digital processing
- 8 channel AES/EBU input, one coax (SPDIF) and one TOSLINK optical, with optional Dolby Digital® and DTS® decoding
- Analog formats include six channel balanced input, stereo unbalanced input with matrix decoding, and one microphone input with phantom power
- Outputs include 8 channels of balanced analog audio, plus HI/VI-N balanced outputs
- Optional three channel bi-amp digital crossover
- Seven fully configurable format buttons to address such issues as audio level changes or 5.1, 7.1 switching
- Audio/Video synchronization delay configurable for each format (0–190ms) plus a surround delay (0–150ms)
- Three automation inputs include one DB25, one RS232 and one RJ45 Ethernet
- Remote monitoring via 10/100Mbps Ethernet
- SD memory card to backup and store all settings
- Bypass supports all inputs
- Auto EQ included
- Drive-in Support included

The USL JSD-60 cinema sound processor is designed for digital cinema applications. Low noise and low distortion 96 kHz processing ensures superb performance. In addition to the six standard formats user-configurable format buttons can support a variety of existing and future formats. They may also be used to duplicate an existing format but at a different fader level to simplify desired volume changes between content types. The front panel display shows the current fader level, the format name (which is user configurable), and the audio level on each audio output. The built-in bypass audio circuitry ensures that the presentation goes on in the unlikely event of a system failure.

The USL JSD-60 is “automation friendly”. It features the standard DB25 parallel automation interface, an RS-232 (EIA232) interface, and Ethernet. The Ethernet interface accepts 5 simultaneous TCP connections to allow control by a digital cinema server and other equipment while simultaneously being monitored over another TCP connection.

The USL JSD-60 graphical user interface simplifies installation by including sound pressure level measurement and automatic equalization. System monitoring, control, and firmware update functions are also available on a standard web browser.

The USL JSD-60 includes a precision 1/3 octave RTA that uses the filters specified in ANSI S1.11-1986. It also does sound

pressure measurements using the C-weighted filter specified in ANSI S1.4-1983. The RTA and SPL meter can be used to equalize an auditorium manually or automatically. An automatic equalization feature (auto-EQ) uses user-defined microphone calibration files and standard or user-defined equalization curves to automatically adjust the graphic equalizer on each channel.

The USL JSD-60 is also “diagnostic friendly.” The system logs the last 15,000 events (format changes, level changes, internal temperature, loss of AES/EBU audio, etc.) to internal flash memory. Log data can be reviewed on the GUI or the web interface. Current operational status, including selected format, fader level, and measured audio output levels, is available on the GUI and on the web interface. The current status of the system is also available over SNMP (Simple Network Management Protocol). An optional plug-in module decodes Dolby Digital and DTS encoded content. An optional crossover card supports the bi-amp operation of three screen channels and provides two LFE outputs.

The USL JSD-60 is available with a variety of processing and output options. Processing options include with or without Dolby Digital and DTS decoding. Output options include standard 8-channel analog, 8-channel analog with bi-amp for 3 screen channels, AES/EBU, and BLU link. All units have analog HI/VI-N.

# USL JSD-60 Details

## Specifications:

### General

Dimensions (HxWxD)	1.75"(1 RU) x 19" x 10.375"
Line voltage requirements	100 VAC – 240 VAC, 50/60 Hz, 30 watts

### Front Panel Controls and Indicators

Main Fader	Rotary encoder
Digital Input Select Buttons	Coax, Toslink, Digital 8CH, Option
Analog Input Select Buttons	Analog 6CH, non-sync, Mic
Master Mute	Push button
Power On Switch	Rocker Switch
Power Supply status	Five LED indicators
USB Type B port	Config and management interface
Display	Fader level, format, audio output level

### Rear Panel Connectors

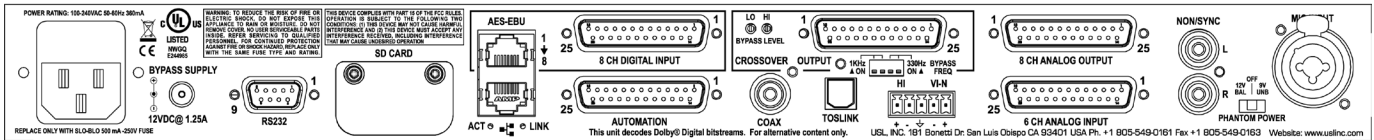
PA/Calibration Microphone	XLR / ¼" phone jack
Six Channel Analog	DB25F
Non/Sync	2 x RCA

Hearing Impaired and Visually Impaired - Narrative	Phoenix connector
Coaxial	RCA with transformer input
TOSLINK	Optical
8 Channel Digital AES/EBU	DB25F and RJ45
Removable Memory Card	SD compatible
Serial Control	RS-232 on DB9F
Pulse Automation	DB25F
10/100M Ethernet	RJ-45
DC 12V Power Connector	5mm with 2.5mm pin
AC Power	IEC socket, 100-240VAC, 50/60Hz, 18W typ.
Eight Channel Audio Output	DB25M
Crossover Audio Output	DB25M
BLU link Audio Output	2 x RJ45 connectors (BLU link option only)

### Audio Performance

A/D conversion	96 kHz
Frequency response	20 Hz to 20 kHz (+/- .5dB)
Dynamic Range	105 dB (typ.)

As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.



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