



I/O MODULE

The I/O module is designed to process three simultaneous signal paths, all of which are accessible at the patchbay. The two line inputs feed the large and small faders, while the monitor input is sent to the surround monitor matrix. The large and small fader sources can be swapped with the L1/ L2 button. Additionally, the Bus switch allows the large fader to pick up the bus as a source. This selection converts the large fader path into an audio subgroup control. The L1/ L2 / Bus LED indicates the input signal routed to the large fader.

LINE TRIM

The line trim control provides a +/- 10 dB input level range on the signal fed to the large fader. A center detent notch is set at 0dB. The phase reverse switch acts on the large fader path.

COMPRESSOR

A high quality compressor is provided on the I/O module. This dynamics processor was designed to offer a maximum of versatility, in order to accommodate the wide variety of audio signals found on film soundtracks. Four controls are available: the "COMP" button acts as a compressor in/ out control; the THRESHOLD sets the level at which compression starts; the 11 step RATIO control sets the "input to output" level ratio between values of 1.5/1 to 20/1; the RELEASE knob varies the release time from 0.1 to 4 seconds. The attack time is optimized with program content (typically 400µs for a 0dB burst @ 10 KHz). A 5 segment LED bargraph displays the gain reduction.

FILTERS

The high pass/ low pass filter section is located above the equalizer. The filter section is permanently assigned to the large fader signal path. Both filters have a fixed slope of 12 dB / octave and are continuously variable. The high pass varies from 40 to 400 Hz, while the low pass ranges from 1.2KHz to 20 KHz. The FLTRS button inserts or removes the filters from the signal path.

EQUALIZER

This unique 4 band EQ design offers a +/- 16dB amplitude correction with reciprocal response both above and below the peaking point. The HF section is semi parametric with peak / shelving selection and a sweep control ranging from 800 Hz to 18KHz. The HMF and LMF bands are both provided with full parametric controls including a Q bandwidth ranging from 0.6 to 3. The HMF frequency control sweeps from 400 Hz to 7 KHz, while the LMF sweeps from 100 Hz to 2.2 KHz. The LF section is semi parametric with peak shelving selection and a sweep control ranging from 35 Hz to 700 Hz. The "EQ in" switch provides a full bypass of the EQ section, while the "EQ sml fdr" buton removes the EQ from the large fader path and inserts it into the small fader signal path.

