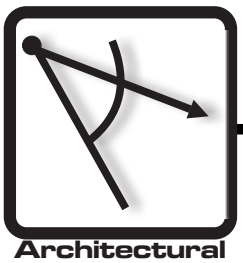

AMIX-8

[04/12/01]

Architectural Specification for the Intelix AMIX-8 Automatic Mic/Line Mixer

The microphone mixer shall provide 8 microphone or line level inputs and one line level, balanced output. All input and output connectors shall be XLR-type connectors. At least one of the line level inputs shall provide for streo input summing via dual RCA connectors. Each input shall have an input gain trim adjustment control on the rear panel and the adjustment range shall be 40dB. Each input shall have a rear panel midline selector switch. Each input shall have a front panel low cut switch. The low cut circuit shall have a 3dB down point at 150Hz and a 12dB/octave response characteristic. Each input shall have a front panel green LED signal present indicator and a red LED signal clip indicator. All 8 inputs shall have phantom power capability. The rear panel shall contain a common on/off switch for the phantom power to all inputs. Each input's line input circuitry shall prevent phantom power on that input when in line level mode. The output circuitry shall be of the active balanced, cross-coupled design. The output shall be capable of at least +26dBV balanced output levels. A rear panel -50dBV microphone pad switch shall be provided for the output. A front panel bargraph indicator shall be provided. The bargraph shall have selectable average or peak reading capability. Peak reading shall be according to DIN specification 45406. All input mix volume and the master output shall be VCA controlled. A rear panel multi-pin connector shall allow remote control of the VCA circuits using linear potentiometers and DC control voltages. The microphone mixer shall have manual and automatic ducking capabilities. The ducking circuitry shall allow any combination of inputs to duck one or more of the remaining inputs or the master output. The duck amount shall be adjustable between 0dB and -100dB (mute). Release time for the duck circuit shall be adjustable from 0.5 second to 5 seconds. Auto ducking shall be triggered by signal present detection at the selected inputs. The duck circuitry shall be capable of being manually triggered by grounding a pin on the multi-pin rear panel connector. The microphone mixer shall contain an output limiter circuit. The limiter shall have a threshold adjustment range of 20dB, from -10dB to +10dB levels. A front panel on/off switch shall be provided. The microphone mixer shall have an Aphex aural enhancer circuit designed to enhance the human voice in a paging environment. A front panel on/off switch for the Aphex circuit shall be provided. The microphone mixer shall provide NOM sensitivity, whereby the master output is attenuated by 3 dB for every doubling of active channels. The mixer shall provide threshold sensitive gating to automatically gate each channel on or off depending on the presence or absence of a signal. The hold time of the channels and the off attenuation amount shall be user adjustable from the front panel. The mixer shall provide a last mic lock on mode, whereby the last active channel will remain active until another channel is activated. This mode shall be selectable from the front panel. The mixer shall provide a first come first serve mode, whereby only one channel can be activated at a time. A hold time pot will allow adjustment of the time a channel can be inactive without losing priority. This mode shall be selectable from the front panel. The connections to implement a priority override switch shall be provided at the multi-pin rear panel connector. The mixer shall allow the user to selectively include/exclude individual channels from any or all automix functions. This selection shall be done from the front panel.