

Four Input Stereo Mixer R.D. Person

The mixer circuit shown was designed to allow four or more inputs to be mixed down, producing a stereo output. Each input has stereo panning and a level control. The gain of the input stages can be boosted according to specific needs by adding RX, making it possible to use a direct input from guitars, microphones and so on. Note that to avoid poor frequency response, the gain of this stage should be kept below 50 (keep RX above 2k2). The input impedance is 100k and should be high enough for most applications.

The two output stages have sufficient gain to compensate for the attenuation of the panning controls. If more than four inputs are used it will be necessary to increase the gain of the output stages by decreasing the value of RY to 6k8 for six inputs or 4k7 for eight inputs.

741 op-amps should prove suitable for most purposes, but if lower noise is desired then a low noise op-amp such as the TL071 may be substituted. The simple zener regulated power supply shown should be suitable for general purpose aplications.