

Sum & Diff Pak



Technical Specification

Input impedance: >20k ohms balanced Frequency response: 20Hz to 20kHz ±0.2dB

Common-mode rejection: >60dB

Noise at unity gain: -100dB ref. +8dBu

Distortion: <0.005% 1kHz +8dBu output **Output gain:** adjustable 10dB loss to

20dB gain Max. input level: +25dBu

Max. output level: +25dBu

Output impedance: <1 ohm balanced and floating

Mains supply: 230 V Ac 3 VA

(115V available to order) 254 (W) x 113 (D) x 52 (H)

0dBu = 0.775 volts RMS

Dimensions:

Sum & Diff Pak Sum & Difference Matrix

The Sum & Diff Pak converts left and right line-level signals to Sum & Difference signals or will convert Sum & Difference signals to left and right. Primary uses include connection to mixer pre-fader insert points for conversion of M-S stereo microphone configurations to A-B. Also for converting A-B (left and right) to M-S (Sum and Difference) for feeding tape recorders, landlines and satellite links or any stereo circuit where phase errors may occur. A similar unit at the receive end reconverts the M-S signals to re-establish the left and right signals. Phase errors, critical when compatible mono is derived, are converted into a reduction of stereo width, which is far less objectionable than the loss or even complete cancellation of the phase-shifted frequencies. A complete 180° reversal of phase, common in outside broadcast circuits, results in a reversal of the stereo image rather than complete cancellation of central mono signals. Output gain is adjustable via accessible multiturn presets. Audio inputs and outputs are via Neutrik XLR-type connectors. Mains input is via an IEC connector. This unit is currently not rack mountable.

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