

STEREO2MidSide

Passive M/S-Matrix



AUDIOWERKZEUG – roger schult german audio lab

Peter-May-Strasse 104 | 50374 Erftstadt – Germany

Tel +49 (0) 2235 – 953535 | Fax +49 (0) 2235 - 953534

www.audiowerkzeug.de | info@audiowerkzeug.de

Ust-IdNr. DE 237 241 047 | WEEE-Reg.-Nr. DE 47 910 748

STEREO2MidSide Passive M/S-Matrix

STEREO2MidSide from AUDIOWERKZEUG enables the conversion of stereo signals into mid and side signals using transformers. The mid signal is created by summing the stereo signals, and the side signal by subtracting them. Fully balanced inputs and outputs ensure low-noise and low-distortion signal processing. The encoding of M/S signals to stereo can be reversed via a push button. In addition, a toggle switch for the inputs and outputs allows for ground-free or earth-free switching of the matrix to effectively eliminate ground loops.

Application and use - These include mastering and recording studios and creative sound design such as stereo width extension, instrument and voice positioning, and the spatial distribution of signals. By converting mid and side signals, the matrix enables targeted processing of individual sound components while ensuring interference-free signal transmission thanks to fully balanced inputs and outputs.

In addition, the matrix is ideal for use with M/S microphone technology. It converts the signals from the center and side microphones into a precise stereo signal, enabling exact control of the stereo width during recording and flexible post-processing. The lownoise and distortion-free transformers ensure dynamic and natural sound reproduction that meets the high demands of M/S technology.

STEREO2MidSide Passive M/S-Matrix

Front panel with controls



- 1: IN L/R - Left input or side signal / opposite OUT S
- 2: IN R/M - Right input or center signal / opposite OUT M
- 3: reverse – Switch for the encoding direction stereo to M/S or M/S to stereo (when the switch is pressed, the orange label applies). For chassis (CHA) and ground (GND), this only affects pin 1 of the XLRs.
- 4: Toggle switch up = virtual to chassis, down = chassis.
- 5: Toggle switch up switches all pin 1 of the XLRs to chassis, and down switches only pin 1 of the input sockets. [See web FAQ.](#)

AUDIOWERKZEUG

STEREO2MidSide Passive M/S-Matrix

Technical data

Input: 2x XLR/f (socket)

Input impedance: 600Ohm

Output: 2x XLR/m (plug)

Output impedance: 600Ohm

Input level: max. 29dBu@1kHz // 16dBu@50Hz (1% THD)

Frequency range: 30Hz to 30kHz +/- 1.5dB

Distortion factor @0dBu: 0.0053% @1kHz // 0.023%@50Hz

Distortion factor @10dBu: 0.0058% @1kHz // 0.034%@50Hz

Distortion factor @15dBu: 0.0065% @1kHz // 0.57%@50Hz

Insertion loss @100kOhm impedance = -0.06dB

@600Ohm impedance = -1.12dB / @150Ohm impedance = -3.6dB

Dimensions: W/H/D: 100mm/42mm/100mm

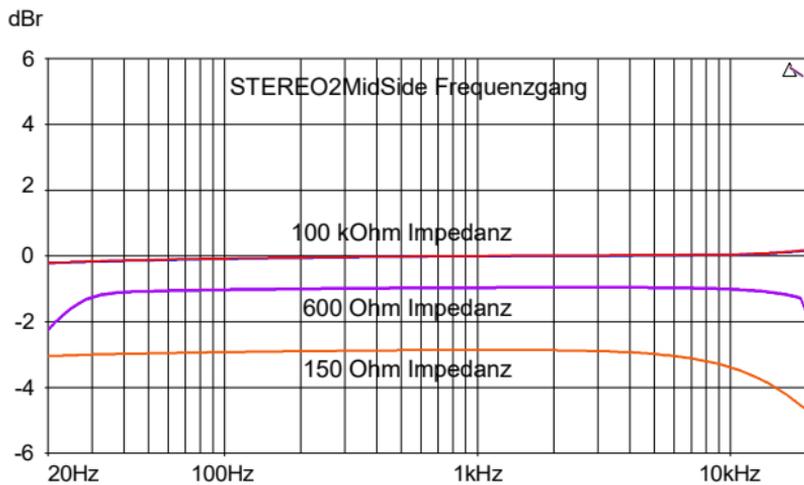
Weight: 575g

INSERTION LOSS IN AUDIO TRANSMISSION

Insertion loss describes the signal loss when an audio signal passes through a component or circuit, measured as the ratio of output to input voltage in decibels (dB).

A low value is crucial for high-quality audio, as it means minimal signal loss. In passive circuits, excessive attenuation usually has to be compensated for by amplifiers. However, the STEREO2MidSide Matrix has such low insertion loss that no additional amplification is necessary.

STEREO2MidSide Passive M/S-Matrix



Frequency response at different input impedances

Warranty

Our products are covered by a 24-month warranty from the date of purchase.

STEREO2MidSide Passive M/S-Matrix

Compatibility

The declarations of conformity for this product are stored by the manufacturer and can be requested from them.

As all roger schult german audio lab devices, the STEREO2MidSide M/S Matrix is handmade in Germany.

Recycling

Please stay eco-friendly and dispose of all defective and obsolete devices at a certified collection facility according to local laws and regulations. The crossed out wheeled bin label that can be found on your product indicates that this product should not be disposed of via the normal household waste stream.

To prevent possible harm to the environment or human health please separate this product from other waste streams to ensure that it can be recycled in an environmentally sound manner. For more details on available collection facilities please contact your local movement office or the retailer where you purchased this product.



AUDIOWERKZEUG