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TOMO
AUDIOLABS

LISA
for your senses



LISA

SOME MAKE MUSIC. OTHERS CREATE MASTERPIECES.

TOMO Audiolabs Germany is launching the flagship of a totally new type of product family for analogue tonal refinement in audio mastering with the “LISA“ dynamic mastering equaliser (mastering EQ), thereby positioning itself in the premium segment of German analogue device manufacturer - far removed from the mainstream.

LISA breaks new ground in tonal processing

Because, compared with other EQs, LISA features a unique linkage of EQ and integrated dynamic processing. With two shelf bands and four parametric bands - (two parametric bands can additionally be switched over to shelf), as well as low-cut and M/S matrix, the parallel-structured compression EQ offers undreamed-of intervention possibilities and subtly-nuanced refinement options, combining gain with a dynamic and vibrant acoustic contour.

LISA is more than a mastering EQ

LISA's most outstanding unique selling proposition is its parallel circuit concept combined with a dynamic section. The bands are therefore not wired in series, as are conventional equalisers, in which 100% of the distortion or rectification always influences the signal path. No – in LISA's case the bands are arranged in parallel. A genuine innovation offering numerous advantages.

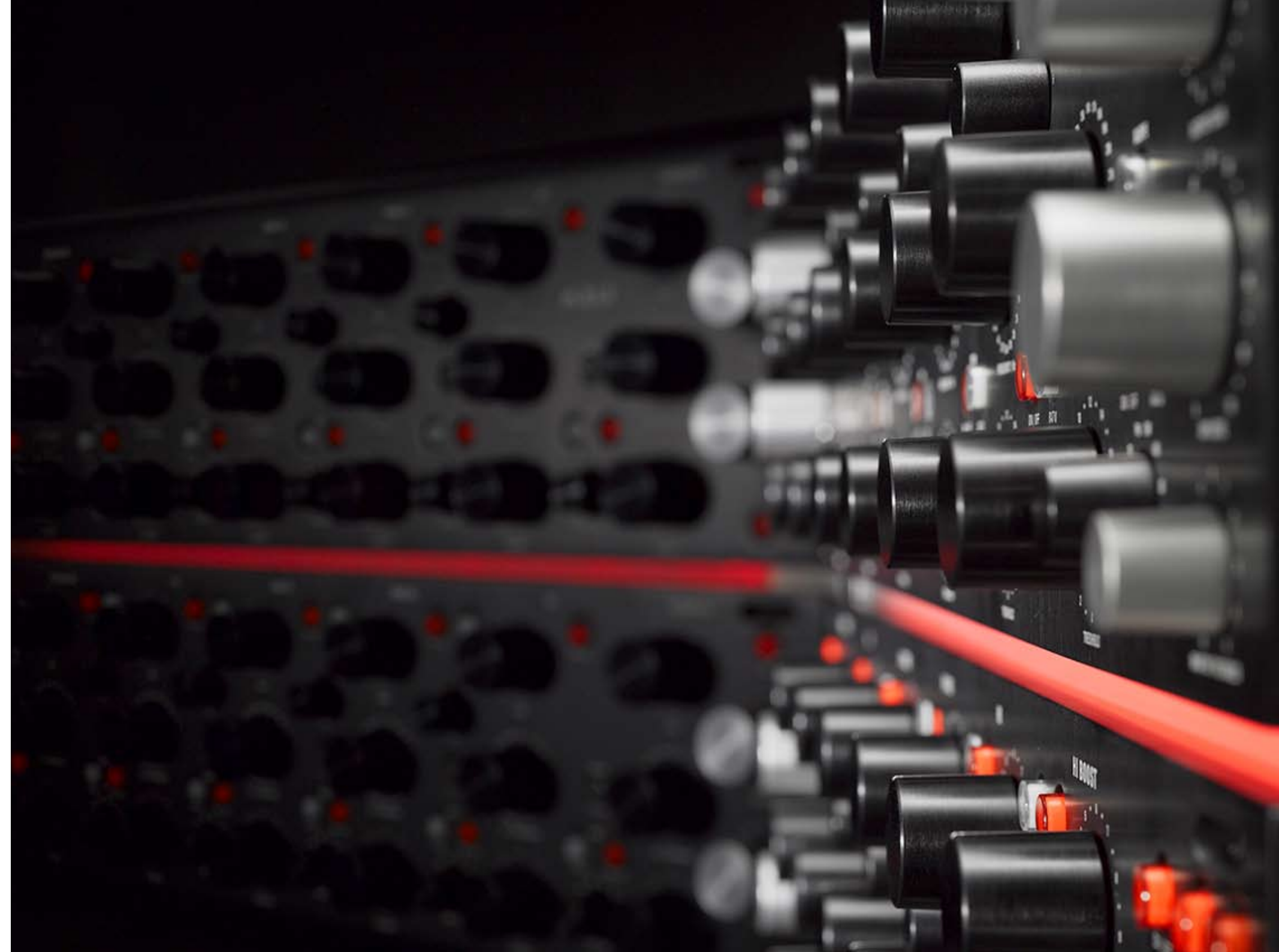
LISA's unique parallel circuit concept is impressive

On the one hand, this special parallel circuitry allows individual bands to be processed in similar fashion to a mixing console, enabling significantly more extensive, more sensitive and also more subtle processing when combined with the dynamic section. On the other hand, it also makes it possible to apply extreme FX settings, something that would be inconceivable with conventional EQs.

To this end, each band is equipped with a gain/cut, frequency and threshold potentiometer, as well as quality-constant and time-constant selector switches. The dynamic section can be selectively switched on for each band. A control circuit allows monitoring of the processing path and gain-compensated A/B comparisons that are indispensable in professional mastering practice.

LISA – a must have

You will find more about this masterpiece from Tomo Audiolabs on the following pages – such as the pure product facts and technical data.





LISA

Product Facts

- Six frequency bands with a broad frequency overlap provide optimum processing flexibility
- Each band is equipped with the parameters gain, frequency, threshold, and six presets for selection of attack/release behaviour. In addition, the four mid-range bands have a five-stage quality selection from 0.4 to 5. Both the second and fifth band can optionally be used as shelving or bell filters. The two edge bands (boost) can be switched between a variant with overshoot and a variant without overshoot. The four mid-range bands are configured as boost/cut filters.
- Particular processing versatility thanks to a parallel circuit concept (mixing console principle)
- Dynamic processing is a component of the filter. Unlike conventional designs, dynamic processing is not downstream from the filter; instead, dynamic processing is integrated in the filter.
- Active filter concept with the tonal attributes of a passive filter
- Low-cut that is particularly free of colouration can be switched in 11 positions between 20 and 180 Hz. Filter slope increases dynamically from 12 dB/octave to 18 DB/octave at lower cutoff frequencies.
- The use of special and, uncompromisingly, the best components for achieving the highest quality
- Newly-developed transformer concept gives LISA the ability to render subtle tonal gradations that surpass those of the leading transformers on the market
- Additional analogue tone variation thanks to specific saturation of the input transformers
- Extensive dynamic range of 122 dB and overload resistance thanks to high operating voltage (output level + 28 dBu)
- M/S matrix
- Output section permits gain-adapted A/B comparison
- A control function permits solo auditing of the processing path
- Lock switches with easy-to-reproduce settings
- Ergonomically structured and intuitive user interface with attractive haptics and backlighting Making for a short learning curve





LISA

Application Areas

“The most important field of application in mastering is gain with concurrent retention of a dynamic and vibrant acoustic contour.”

High-end mastering

Tonal restoration and remastering

For example giving “old material” a makeover

Dynamic range expansion

- Gain and concurrent retention of a dynamic and vibrant-sounding acoustic contour
- Aesthetic EQing with extremely varied design possibilities
- Deep bass enhancement in the mastering thanks to passive-sounding filters: Very neutral yet punchy and round

- Drum group enhancement especially in the deep base range – gives drums presence and impact
- Special effects through exploiting the mixer architecture: Extreme gain filter settings permit unusually dynamic

Technical Data

Dimensions

- Standard EIA 19 inch housing/
6U 482 x 267 x 300 mm / approx 19 x 10.5 x 12 inches
- Removable rack mounting angle connections
- 2 x XLR In & 2 x XLR out, balanced
- Nominal input level +4 dBu
- Input impedance = 10 k Ω
- Output impedance < 100 Ω
- Max. input level +28 dBu
- Max. output level +28 dBu

Measurements

- Frequency range 10 Hz-50 kHz linear
- CMRR > 90 dBu (@ 1 kHz)
- S/N A-weighted -122 dB
- Crosstalk L/R (@ 1 kHz) > -90 dBu
- Dynamic range 122 dB

Miscellaneous

- Internal Power Supply
- Voltage selector 230/50 Hz \leftrightarrow 115 V/60 Hz
- Power consumption 150 W

