



The **LA-117 'STUDIO DMI EDITION'** is an Advanced Modular Stereo Multiband Equalizer and Mid/Side Processor especially designed for mastering and mixing use, result of collaboration between **Livio Argentini** and **Luca Pretolesi**, one of the most acclaimed sound engineers in the world. Special analog design techniques have been used to obtain a precise control of the sound structure down to the minimum details.

- The LA-117 is equipped with super fine tuning controls enabling an easy manual recall without the use of step controls. The LA-117 larger scale achieves higher resolution (ex. 5 dB range spread on 300° of knob rotation).
In this way the manual knob resolution is fifty times the human hearing sensitivity.
- Inside the LA-117 there are two separate EQs: the first is a Baxandall type and the second is a special 5 band Parametric unit.
- The order of the LA-117 Parametric and Baxandall EQs within the signal flow is swappable. The interactions between the two equalizers enable the LA-117 to execute any kind of acoustic correction.
- Each parametric band splits the frequency control in two different ranges so that 10 bands can be used. Moreover, the LA-117 features a "solo" control for parametric eq sections that improves the filter usability. This feature is not found in any other analog parametric EQ on the market.
- The parametric unit is based on a special innovative technology designed by Livio Argentini, different from other parametric equalizers on the market. The LA-117 uses a parallel configuration that produces very low distortion, low noise and extremely low phase rotation.
- The extremely large bandwidth (more than 300 kHz) provides a very fast transient response and an extraordinarily natural sound unrivalled in the market.
- The very linear (instrumental type) electronic balanced amplifier, without transformers or servo-amplifiers, allows for a perfect square wave response and absolutely no timbric alteration in the sound.
- Double gold plated contact connectors.
- Many critical components, like potentiometers, are duplicated and connected in parallel to assure long life, maximum reliability and precision.
- Switching is made by gold contacts and sealed relays.
- The LA-117 use short actuator toggle switches to avoid accidental operation when adjacent knobs are operated.
- The special modular construction allows for a quick servicing and an easy customisation.
- The insertion of a MID-SIDE matrix, suggested by Luca Pretolesi, and the external insert capability, with dry / wet control transform the LA-117 in a complete audio Hub.

TECHNICAL FEATURES

Input (EQ / Insert)	Electronically balanced Impedance > 10 kOhm Normal Level +4 dBu, Max +28 dBu
Output (EQ / Insert)	Electronically balanced Impedance 100 Ohm Normal Level +4dBu, Max +28 dBu
Bandwidth	4Hz to 350kHz 0/-1dB, perfect square wave up to 50 kHz
Distortion + Noise	<0.005% (typical 0.001 %)

MECHANICAL

Construction	19" 4U rack mount metal box
Number of Modules	14+4
Dimensions	W 483 mm / 19", H 178 mm / 7", D 320 mm / 12.6"
Weight	7 kg
Contacts	Doubled gold plated

POWER

Linear Regulator	(Toroidal Transformer)
Operating Voltage	220V 50 Hz / 110V 60 Hz
Power Consumption	60 W
Voltage Output	±18 VDC 400 mA, 24 VDC 400 mA,

CONNECTORS

Audio	XLR type
AC mains	IEC C13 16 A,

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