

EL-111 Dual Mic-Line Preamplifier



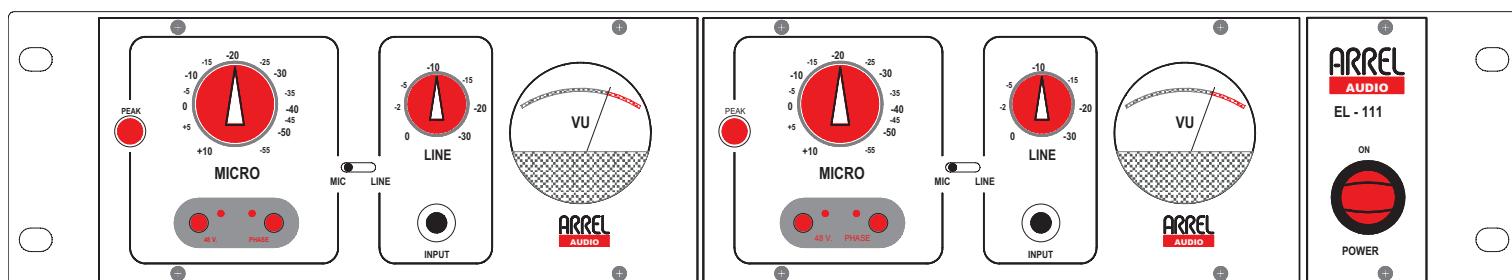
REAL Innovation

ARREL Audio Overview

ARREL Audio products, conceived for the professional user, combines high reliability, rugged design, audio quality, versatility and ease of use. They are perfect for recording every kind of music in all the situations where the maximum sound quality is needed especially for actual digital recording 24bit/192kHz environments where superior performance is required. They are based on the use of the latest circuit topologies, characterized by very low distortion, ultra-low noise and very wide frequency response. ARREL Audio systems are designed and hand-assembled in Italy with minimum cabling to obtain the best mechanical performances and the minimum degradation of the audio signal.

ARREL audio devices are designed utilizing mostly through-hole technology which provides better performances when compared to surface mount technology. Moreover, no custom electronic components are used in ARREL Audio units. Our aim is to transfer technology emerging from research in advanced innovative products.

EL-111 Dual Mic-Line Preamplifier



The **ARREL Audio EL-111** preamplifier architecture is based on two high dynamic range gain stages to avoid saturation. Even if the input stage of the EL-111 could accept input signals up to +20 dBu, a special protection circuit limits the input level at +12 dBu in order to prevent any damage. The EL-111 extended input dynamic range avoids the necessity of the input pad and the gain is controlled by a single large knob. The absence of the input pad means better sonic performances. In fact being it an attenuator it deteriorates the sound quality and reduces the signal to noise ratio. In the EL-111, the two buttons for phantom power and phase inversion are mounted on a recessed panel in order to avoid accidental operations.

The EL-111 contains a special circuit that allows the connection of microphones even if the unit is turned on with the phantom power activated (in any case we do not recommend this practice in order to protect your microphones).

The Line Input (unbalanced) is easily accessible from the front panel by a 1/4" TRS jack. A switch selects mic or line input. A separated knob is provided for the line-in gain.

The EL-111 is dedicated (due to his absolute sonic level quality) to high professional vocal recordings, classical instruments, high dynamic range instruments such as drums and percussions.

The EL-111 is a 2U rack module equipped with the power supply and two mic-line preamplifier modules. Each module is completely independent and can be inspected separately. Chassis of the Elite Series can be configured with different modules of the Elite Series (for example a unit composed by a mic-preamplifier and a single channel equalizer implement an advanced channel strip).

EL-111 Technical Specifications



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EL-111 AUDIO SPECIFICATION	
Number of Channels:	2
Microphone Input	Electronically balanced, Input Impedance > 4 K Ω
Microphone Gain	66 dB range with a continuous rotary knob Maximum input level +20 dBu (internally limited to +12 dBu)
Line Input	Unbalanced, Impedance 47 K Ω
Line Gain	30 dB range with a continuous rotary knob Level 0/-30 dBu, Max +23 dBu
Bandwidth	5 - 200.000 Hz -1dB, perfect square wave up to 20 KHz
Distortion + Noise	<0.003% (typical 0.001 %)
Output	Electronically Balanced, Level +4 dBu, Max +30 dBu (Unbalanced -6 dB), Output Impedance 100 Ω (minimum external load 600 Ω)
Front Panel Controls	Line Gain Pot Microphone Gain Pot 48V Phantom Power button Phase Reverse button Mic-Line switch
Front Panel Input Connectors	1/4" TRS jack
Front Panel Indicators	Electromechanical VU meters with LED backlighting 3 x red LEDs (48V Phantom Power, Phase Reverse ,Peak Level set to 6dB below clipping)
Rear Panel Controls	BAL/UNBAL switches on each output channel
Rear Panel Input Connectors	Balanced XLR female (Mic Input)
Rear Panel Output Connectors	Balanced XLR male (Line Output)

ELITE SERIES MODULAR CABINET SPECIFICATION	
MECHANICAL SPECIFICATION	
Construction	19" 2U rack mount metal box
Number of Modules	The Elite Series unit can be factory assembled with one or two Elite Series modules
Dimensions	W 483 mm / 19", H 88.9 mm/1.75" (1 RU), D 225 mm / 8.86"
Weight	2.8 kg
POWER SUPPLY	
Power Supply	Linear Regulator (Toroidal Transformer)
Operating Voltage	220V 50 Hz / 110V 60 Hz on request 110 V
Power Consumption	20 W
Rear Panel AC mains	IEC C13 16 A connector, AC mains cord with IEC Schuko 16A
Output	\pm 24 VDC 300 mA, 48 VDC 25 mA
Power switch	Front panel backlighted switch

The information contained in this document has been carefully checked and we believed is accurate at the time of publication. In any case, we do not assume any responsibility for inaccuracies, errors or omissions nor any liability for any loss or damage resulting either directly or indirectly from use of the information contained in this manual.

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