

CL-125/4 Quad Mic-Line Preamplifier



ARREL Audio Overview

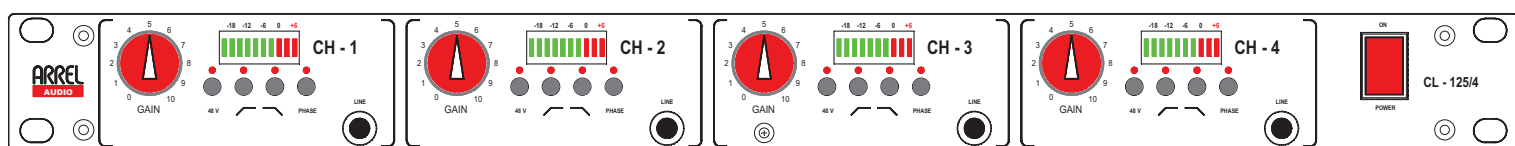
ARREL Audio products, conceived for the professional user, combines high reliability, rugged design, audio quality, versatility and ease of use. They are perfect for recording every kind of music in all the situations where the maximum sound quality is needed especially for actual digital recording 24bit/192kHz 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.

CL-125/4 Dual Mic-Line Preamplifier



The **ARREL Audio CL-125/4** quad mic preamplifier preamplifier architecture is based on two high dynamic range gain stages to avoid saturation. Even if the input stage of the CL-125/4 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 CL-125/4 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 introduces degradation in sound quality and the signal to noise ratio.

The CL-125/4 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. The insertion of the Line In jack disconnects the mic input.

CL-125/4 also provides High-Cut/Low-Cut filters (cut-off frequencies 12kHz and 80Hz) which can be activated by a switch.

The CL-125/4 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 CL-125/4 is contained in a 1U rack metal box.

CL-125/4 Technical Specifications



REAL Innovation

Number of Channels:	4
Power Supply	Linear Regulator (Balanced C-Core Transformer)
Operating Voltage	220V 50 Hz, (110V 60 Hz version available)
Power Consumption	20 W
Microphone Input	Electronically balanced
Microphone Gain	70 dB, rotary knob continuous control Max input level +20 dBu (internally limited to +12 dBu)
Line Input	Unbalanced Impedance 47 K Ω
Line Gain	30 dB, rotary knob continuous control 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%)
Low Cut Filter	80 Hz, 12 dB / Oct
High Cut Filter	8 KHz, 12 dB / Oct
Output	Electronically Balanced Level +4 dBu, Max +28 dBu
Front Panel Controls	Gain rotary knob continuous control 48V Phantom Power button Low Cut button High Cut button Phase Reverse button
Front Panel Input Connectors	1/4" TRS jack
Front Panel Indicators	Level Indicator 10-LED Bargraph (7x green, 3x red), 1.5 dB step 4x red LEDs (48V Phantom Power, Hi-Cut, Lo-Cut, Phase)
Rear Panel Main Switch	Power On/Off switch
Rear Panel Controls	BAL/UNBAL switch on each channel, Power on/off switch
Rear Panel Input Connectors	Balanced XLR female
Rear Panel Output Connectors	Balanced XLR male
AC mains	IEC C13 16 A connector, ACmains cord with IEC Schuko 16A
Construction	1 U 19" rack mount metal box
Dimensions	W 483 mm / 19", H 44.45 mm/1.75" (1 RU), D 225 mm / 8.86"
Weight	2.8 kg

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.