

R-505

3Band Parametric Equalizer (6 Center Frequencies)



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.

R-505 3 Band Parametric Equalizer (6 Central Frequencies)

The **ARREL Audio R-505** is an advanced single-channel parametric equalizer conceived to offer to the 500 series user the superior audio performance of the ARREL audio high level products. The R-505 is characterized by high reliability, rugged design, outstanding audio quality, versatility and ease of use typical of the tradition of ARREL Audio products. The R-505 equalizer is based on the Livio Agentini's "Single-Stage Parallel Configuration" patented design. This innovative phase coherent EQ design offers the lowest distortion/noise specifications, not available in other products.

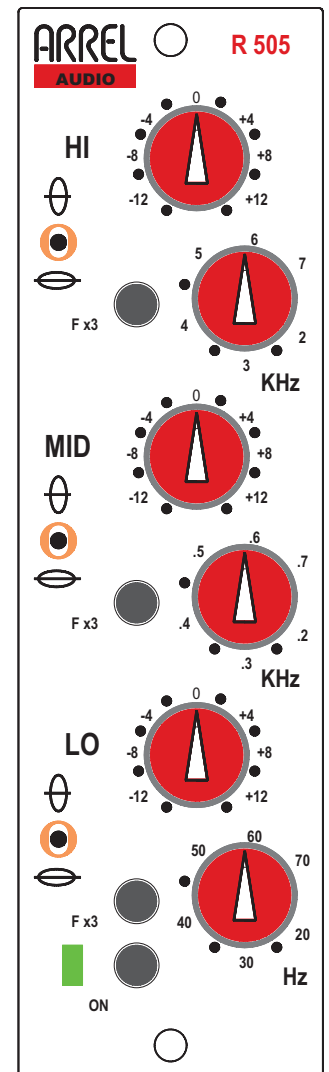
The R-505 filtering section offers three band LO, MID, HI controls (bell shape). The emphasis/de-emphasis control range is ± 14 dB, the three primary bands become six by using three central frequency buttons (F x 3). The Q control value (narrow, mid, large) is selected by three switches (one for each band).

A bypass button is used for a true analog by-pass function (LED).

R-505 is the one of the series of equalizer that ARREL Audio conceived for the 500 series (the other models are R-502, R-503, R-504) in order to give to the user the best choice for its application.

The R-505, offers a very cool satin finish stainless steel front panel and a semi closed stainless steel enclosure and has been designed to be compliant with the 500-series standard.

R-505 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.



R-505 Technical Specifications



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Number of Channels:	1
Power Supply	±16 VDC, very low power supply currents with respect to the 500 series standard
Line Input	Electronically Balanced, Impedance 20KΩ, Input Level +4dBu, Max +20 dBu.
Output Level	Electronically Balanced, Level +4 dBu, Max +24 dBu, Output Impedance 100 Ω
Bandwidth	5 - 150 KHz ±1 dB, perfect square wave up to 20 KHz
Distortion + Noise	<0.003% (typical 0.001%).
Front Panel Controls	True By-Pass button (LED), Gain (Emphasis/De-Emphasis) pot control with center detect (3 controls), Range ± 14 dB , Center Frequency: pot control (3 controls), Frequency band control; three buttons (Frequency x 1, Frequency x 3 (3 controls) Q control:three positions switch (narrow , medium, large (3 controls).
Frequency Bands	LO: Bell shape 20/70 Hz (F x 1), 60/210 Hz (Fx3), MID: Bell shape 200/700 Hz (F x 1), 600/2100 Hz (Fx3), HI: Bell shape 2.000/7.000 Hz (F x 1), 6.000/21.000 Hz (Fx3).
Rear Panel Input Connectors	500 series compatible connector
Construction	Compliant 500-series rack with PSU and external audio connections, Single 500-series rack slot required for each R-501 module.
Dimensions	Series 500 compatible module
Weight	500 g

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.