

# R-601 Guitar/Bass Splitter



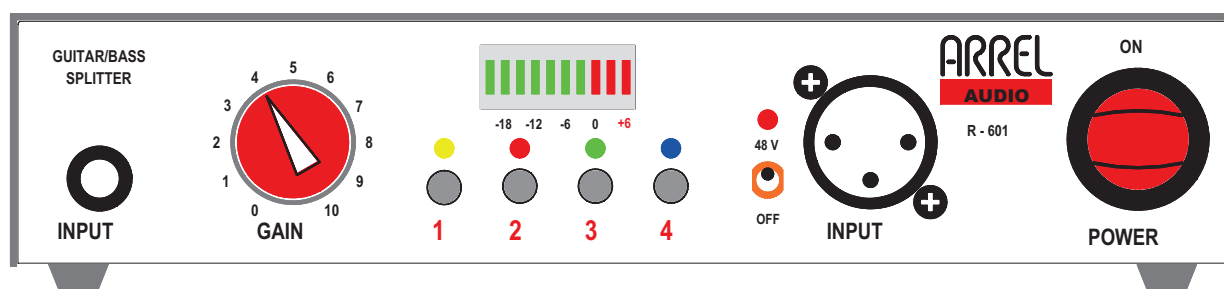
REAL Innovation

## 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-601 Guitar Splitter



The **ARREL Audio R-601** Guitar/Bass splitter has been designed for the most demanding professional recording studios where guitars are used in multiple amplifier setting environments. This splitter can be used also with different musical instruments such as keyboards, synthesizers or microphones.

The R-601 rugged and sturdy design is also what you need for live use.

The R-601 design, based on four separated transformers (dip switch for ground disconnection), is able to drive up to four amplifiers at the same time without noise and ground loops problems that often plagues most systems. Its high input sensitivity allows coupling even with battery powered DI Boxes or with unbalanced low level outputs.

This distribution-amplifier is characterized by very high linearity and dynamic range, with distortion and noise at the lowest limit, resulting from the use of advanced technologies. The signal level is controlled by a potentiometer allowing a 35 dBu range (-25 dBu to +10 dBu). Input and output impedance is calibrated in order to obtain the best pairing with guitar/bass amplifiers. 48V Phantom Power provides power to the DI box if needed.

The target amplifier can be selected by using the front panel buttons, by a footswitch or by a wireless remote control. This feature allows the musician to switch amplifiers (located in the recording room) comfortably from the control room. Moreover more than one amplifier can be selected at the same time. The R-601 is contained in a half rack metal box.

# R-601 Technical Specifications



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Number of Channels:	1 Input, 4 Outputs
Power Supply	Universal switching regulator
Operating Voltage	100V ~ 240V $\pm$ 10%, 50/60 Hz
Power Consumption	10 W
Hi-Z Input	Electronically balanced, Input Impedance 47 K $\Omega$
Hi-Z Gain	Range -25 / +10 dBu, Max +20 dBu
Line Input	Electronically Balanced, Impedance >10 K $\Omega$
Line Gain	Range -25 / +10 dBu, Max +20 dBu
Bandwidth	10 - 30.000 Hz $\pm$ 1 dB
Distortion + Noise	<0.003% ( typical 0.001%)
Output Level	Electronically Balanced, Working Output Level -6 dBu. Max. Level +28 dBu, Output Load Impedance > 600 $\Omega$
Front Panel Controls	Gain Pot., 48V Phantom Power switch, 4 Output Amplifier selection buttons, Illuminated power on/off switch
Front Panel Input Connectors	1/4" TRS jack
Front Panel Indicators	10-LED Bargraph Level Indicator (7 x green, 3 x red), 1.5dB step, 1 x red LED (48V Phantom), 4 x Output LEDs (yellow OUT 1, red OUT 2, green OUT 3, blue OUT 4)
Rear Panel Output Connectors	4 x TRS 1/4" jacks
AC mains	IEC C13 16 A connector, AC mains cord with IEC Schuko 16A
Construction	Half rack metal box
Dimensions	W 200 mm / 7.87", H 40 mm / 1.57", D 140 mm / 5.51"
Weight	1.5 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.

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