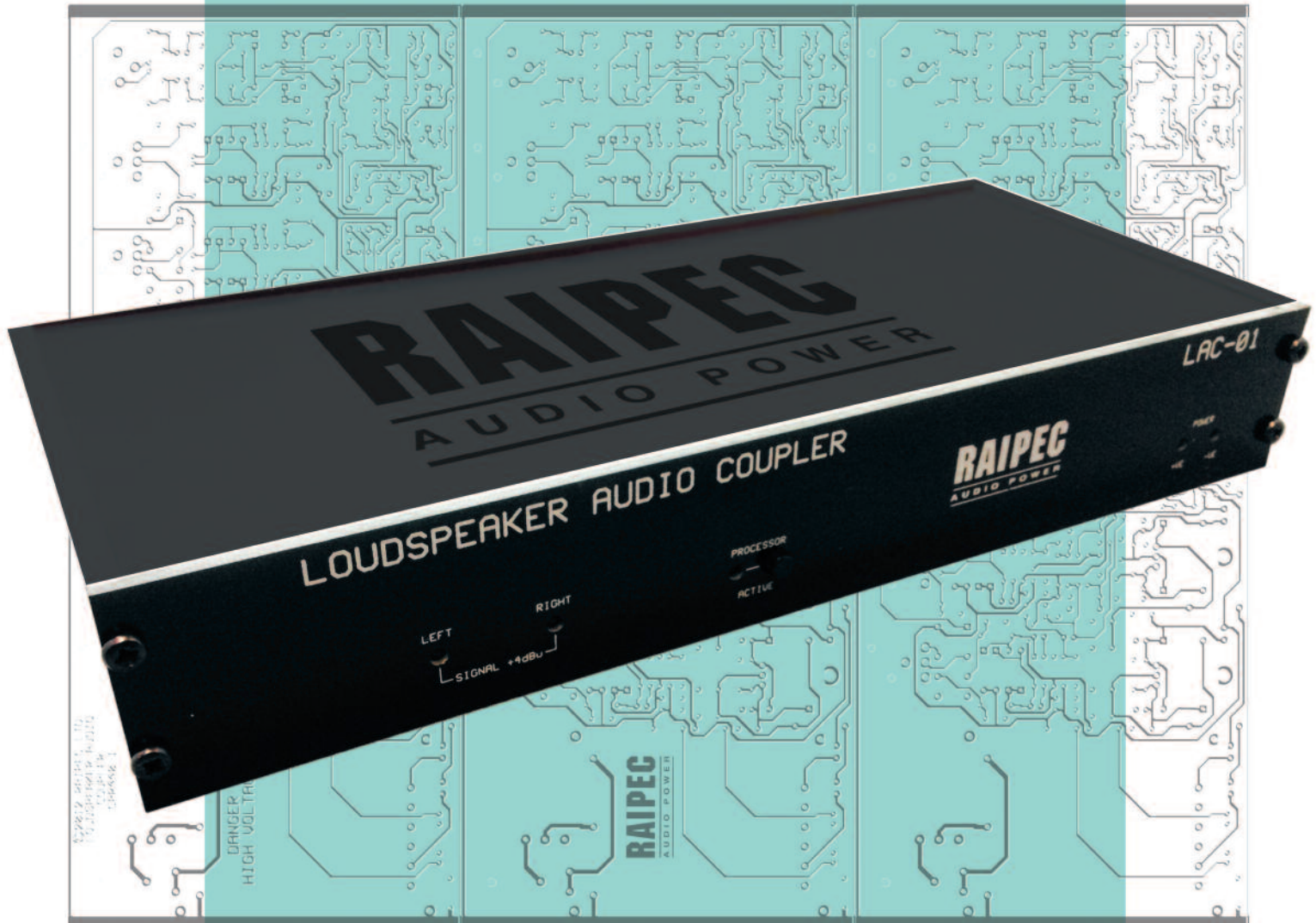


RAIPEC

AUDIO POWER

The Loudspeaker Audio Coupler • LAC-01

The Loudspeaker Audio Coupler increases the sound radiating surface by using two pairs of loudspeakers as opposed to the standard single pair. Besides mutual coupling at low frequencies, wide dispersion of mid/high frequencies is still maintained thereby reducing 'beaming' effects.



Applications:

Where loudspeakers are used in close proximity to an audience, the mid/high frequencies can sound raised in level, or appear 'sharp', especially when the loudspeakers are mounted on poles and are not positioned against walls or boundaries. Simple equalisation may help to reduce this problem but for those further away, the sound may become dull, lacking in definition. By using two sets of similar loudspeakers (preferably active) arranged as a normal stereo pair, the need for equalisation is greatly reduced. Furthermore, a wide and deep sound-field is still maintained for those in both the near-field and for those further away.

Benefits:

- Reduced mid-band sharpness – less fatiguing sound.
- Ability to play louder without sounding distorted.
- Increased bass response – possibly no need for sub-woofer.

Processor Switch: [Front Panel]

Red LED: This switch should be depressed (LED on) for the both sets of loudspeakers to be driven. With the switch out, only Left and Right are used, but the sound level will remain the same.

Signal Present LED: [Front Panel]

Green LED: Left and Right input signal level at +4dBu.

Power Indicator LED: [Front Panel]

Green LED: Internal positive/negative power supply rails.

Inputs: [Rear Panel]

3-pin Sockets: Left in, Right in.

Professional line level active balanced circuitry for low noise, low distortion.

Outputs: [Rear Panel]

3-pin Plugs: Left out Full, Left processed LF.
Right out Full, Right processed LF.
Left/Right processed LF mixed for use with optional sub-woofers.

Power Input: [Rear Panel]

Cable gland: 5.5mm flexible mains cable.

FUSE: [Rear Panel]

20 mm Fuse: 250mA A/S



Audio:

Frequency response : 10Hz to 50kHz +/-1dB
Distortion (typical): 0.008%
Output Noise : 0dB gain, -98dBu (20Hz-20kHz)

Balanced Inputs:

+20dBu max
Input Impedance: 48kOhms
CMRR: 50Hz > 85dB
20kHz >80dB
Connector: 3-Pin XLR, Pin 2 Hot, Pin 3 cold, Pin 1 Gnd.

Balanced Outputs:

Transformer-like floating output.
Stable clipping into single-ended loads.
Common-mode offset, RFI and surge protected.
Output Impedance: 50 Ohms
Connecto: 3-Pin XLR, Pin 2 Hot, Pin 3 cold, Pin 1 Gnd.

Power:

Power Input: 100Vac -240Vac @ 200mA max
Power consumption: 10W
Power Connector; Flying Lead Live, Neutral, Earth

Environmental:

Operating temperature: 0DegC to 40DegC (32Deg F to 104Deg F)
Relative Humidity 10% - 80% relative humidity, non-condensing

Dimensions:

Dimension (WxHxD): Metal enclosure 242 mm x 38 mm x 106 mm

Weight:

Weight (net): 0.4Kg

Warranty:

One year limited, parts and labour

Note: 0dBu = 0.775Vrms

Specification subject to change without prior notice.

🇬🇧 Designed and manufactured in the UK