

RAIPEC

AUDIO POWER

Raipec PMLG-01 Personal Monitor

The Personal Mic/Line/Guitar Amplifier provides a low noise, high quality mono headphone output with tone and levelling features. Principally designed for "drummers", the PMLG-01 may be used wherever a headphone or IEM feed is preferred.



- Battery Backup
- Swept Hi/Low shelving filters
- Individual gain presets for microphone, guitar and line inputs
- Microphone pass-through
- High impedance guitar input
- CoExL circuit
- Stand clamp fixing option

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APPLICATIONS

The Microphone Input/Output allows both dynamic and condenser¹ microphones to be monitored without affecting the signal quality being sent to a mixing desk. The 'Combi' line input accepts both XLR and 1/4" jack line levels and, when switched, provides a high impedance guitar input on the 1/4" jack. The tone controls with sweepable turnover frequencies allow users to adjust the tonal balance for different headphones or IEMs. The CoExL² circuit raises low to mid level signals without inducing noise or excessive clipping.

¹ Phantom power provided from mixing desk

² CoExL Compressor Expander Limiter

TOP PANEL

CoExL: Compressor Expander Limiter. Fully anticlockwise for linear input to output. Fully clockwise for maximum soft knee limiting with a compression boost of 10db for signals over a 30dB level window followed by expansion back to 0dB gain to avoid increased low level noise.

Sig: Green LED at -16dB below peak for optimal use of CoExL.

Shelf Filters: Variable High/Low shelving filters to correct for headphone deficiencies. Equalisation prior to CoExL.

Line/Guitar/Mic: Attenuate or amplify signals to optimise signals through CoExL prior to mix level controls.

FRONT PANEL

Mic Level: Volume control for microphone input.

Line/guitar Level: Volume control for Line or guitar.

1/4" Jack/3.5mm stereo sockets: parallel connected, individually driven Left/Right outputs.

Clip: Red LED onset of clipping into 33Ω. The higher the load impedance, the less distortion.

Mode - Guitar: Yellow LED indicates Guitar input selected.

-9V - +9V: Red LEDs indicating status of internal power supply. With a 12V PSU connected, the unit will be continuously powered.

Power Off-On: Power switch for internal batteries only.

REAR PANEL

Line/Guitar Input: Combi XLR 1/4" Jack socket for balanced line level signals and unbalanced guitar.

Mode - Line/Guitar: Switch between balanced line level and high impedance buffer on Combi socket.

Mic Through: XLR plug to be connected to microphone input on mixing desk.

Mic Input: XLR socket to be connected to source microphone.

12DC Socket: PSU input automatically overrides battery switch



Audio

Frequency response: 10Hz to 50kHz +/- 1dB Line, Guitar (Source impedance dependent) 40Hz to 50kHz +/-1dB Mic

Output power: 100mW per channel into 33Ω at clip (+8.0dBu)

Distortion (typical): 0.05% 100mW into 33Ω

Noise: <100dBu

Tone: High/Low: Cut/Boost max 15dB

Frequency range (3dB): High: 1.5kHz to 22kHz
Low: 20Hz to 250Hz

Gain: Mic: +5dB to +65dB
Line: -25dB to +15dB
Guitar: -25dB to +15dB

Headroom: Line +20dBu min gain, -14dBu max gain XLR Combi
Guitar +16dBu min gain, -14dBu max gain 1/4" Jack
Mic +4dBu min gain, -54dBu max gain XLR

CMRR: 20Hz to 20kHz >80dB Line and Mic.

Input impedance: Mic: >10K Ω balanced
Line:>48K Ω balanced
Guitar:>1M Ω unbalanced

Inputs/Outputs:

Line Input: XLR 1/4" Combi socket balanced
Line = Pin 1 GND, 2 Hot, 3 Cold
1/4" = Tip positive, ring negative, sleeve GND

Guitar Input: 1/4" Combi socket unbalanced Tip positive, sleeve GND
(Mode Guitar)

Microphone Input: XLR socket balanced
Pin 1 GND, 2 Hot, 3 Cold

Microphone Output: XLR Plug (+48V pass through)
Pin 1 GND, 2 Hot, 3 Cold

Power:

Power Input: +12VDC @ 500mA: DC power supply

Power consumption: 220mA quiescent
330mA rms @ 100mW into 33Ω Loads

Power connector: 2.1mm socket, centre pin positive

Batteries: 2 x 9V PP3
200mAh minimum recommended

Environmental

Operating temperature: 0°C to 40°C (32°F to 104°F)

Relative Humidity: 10% - 80% relative humidity, non-condensing

Dimensions

Dimension (WxHxD): Aluminium enclosure with fixtures
107mm x 57mm x 150mm

Weight

weight (net) 0.4Kg

Warranty

Time scale One year limited, parts and labour

*Note: Headroom measured with tone controls set to flat, CoExL at minimum.
0dBu = 0.775Vrms*

Designed and manufactured in the UK

RAIPEC

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