

7. How to Contact ProAVM

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8. Declaration of Conformity

Name of Manufacturer: ProAVM
Address of Manufacturer: 61 Station Road
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Product: MIC-IT Dual Microphone Pre-amplifier

Declaration: The product described above complies with the requirements of the Low Voltage Directive (73/23/EEC) and the protection requirements of the EMC Directive (89/336/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Standards:

EN 60065:1993	Safety requirements for mains operated electronic and related apparatus for household and similar general use
EN 55103-1:1997	Electromagnetic compatibility - Product family standard for audio, video, audiovisual and entertainment lighting control apparatus for professional use (emissions - environmental categories E1 to E5)
EN 55103-2:1997	Electromagnetic compatibility - Product family standard for audio, video, audiovisual and entertainment lighting control apparatus for professional use (immunity - environmental categories E1 to E5)

9. Warranty

This product is shipped with a 5 year return to base warranty. Please return the product to the company that you bought it from.

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MIC-IT Dual Microphone Pre-amplifier

V1.00 © ProAVM 2006

1. Introduction

The ProAVM MIC-IT is a professional solution for all applications in which a microphone input is not available or is of insufficient quality.

Cost and space constraints often compromise the performance of pre-amplifiers fitted to inexpensive mixing desks, portable digital recorders and PC soundcards. External microphone pre-amplification from a MIC-IT can noticeably enhance overall performance, giving a wider range of gain and a reduction of noise levels.

Other applications include the matching of quality balanced microphones to unbalanced inputs without degradation, line driving for OBs or remotely situated microphones, and the conversion of spare mixer line channels to accept microphone inputs.

Three switchable output modes maximise the versatility of the MIC-IT and there are also front panel switches to assign 48V phantom power and a powerful hum and rumble rejecting high-pass filter to one or both of the inputs.

The MIC-IT is housed in a compact and robust metal case with mounting holes for wall or under desk mounting. An optional 1U rackmounting kit, ProAVM RACK-IT, is available.

2. Safety & Electrical Hazard

This unit contains high voltages which could be fatal. YOU MUST ALWAYS ISOLATE THE UNIT FROM THE MAINS SUPPLY BY COMPLETELY DISCONNECTING IT BEFORE ATTEMPTING TO OPEN THE CASE.

THIS EQUIPMENT MUST BE EARTHED.

Do not expose this equipment to rain or any other source of water.

In common with all mains operated equipment, only suitably trained competent personnel should attempt to adjust, modify or repair this equipment or operate it with the cover removed. In case of query please contact your local agent or ProAVM. Any unauthorised adjustment, modification or repair of this equipment may invalidate any warranty and/or safety approvals that apply.

Please read all of this manual and familiarise yourself with the controls before attempting to use this equipment. To ensure safety, it is the responsibility of the user to install and operate this equipment in a manner that is within the manufacturers specifications.

3. Unpacking The Equipment

This package should contain, in addition to this manual:

1 x MIC-IT
1 x IEC Mains lead

If any items are missing or damaged please inform your supplier immediately.
Ensure that the MIC-IT has been supplied for the correct mains/line voltage for your country.

4. Controls and Connectors

Mic Inputs	3 pin female XLRs, electronically balanced. Pin 1 Ground Pin 2 Hot (Phase) Pin 3 Cold (Non-phase)
Input Gain	Individual multiturn adjustments for channel gain. Nominal gain range 33 to 75dB.
48V Phantom Switch	A three position switch allowing 48V phantom power to be applied to one, or both, of the microphones.
80Hz Filter Switch	A three position switch allowing an 80Hz high-pass filter to be applied to one, or both, of the microphone channels.
Output Mode Switch	A three position switch selecting one of three output modes. See section 5 for details.
Line Outputs	3 pin male XLRs, electronically balanced. Balanced outputs may be unbalanced without affecting gain by linking pins 1 and 3 inside the mating plug. Pin 1 Ground Pin 2 Hot (Phase) Pin 3 Cold (Non-phase)
Power LED	Lights continuously to confirm correct operation of power supply.
Mains Fuse	20mm antisurge mains fuse. 100mA(T) for 230V units 250mA(T) for 115V units DISCONNECT MAINS BEFORE ATTEMPTING TO CHANGE FUSE.
Mains	IEC male connector.

5. Operation

Refer to section 4 for a description of the controls and connectors.

48V Phantom Power

Some microphones contain an internal pre-amplifier which requires a phantom power voltage to operate. The microphone documentation will state if this is so and IT IS VITAL TO CHECK THE MANUFACTURER'S INFORMATION BEFORE APPLYING PHANTOM POWER. Applying phantom power to non-phantom-powered microphones may cause damage and ProAVM can accept no responsibility for such damage. The front panel switch allows phantom power to be applied via input A only, inputs A and B, or neither input (phantom off).

80Hz High-pass Filter

To reduce the effects of hum and rumble in electrically or physically noisy environments, a sharp 80Hz high-pass filter may be applied to substantially attenuate signals below that frequency. The front panel switch assigns filtering to input A only, inputs A and B, or neither input (filter off).

Output Mode Selection

The MIC-IT supports three different output modes for maximum versatility, and these are selectable via a front panel three position switch.

STD mode - Two individual channels, with inputs A and B feeding outputs A and B respectively.

MON mode - Mono operation, with a mono mix of inputs A and B fed to both outputs. Gain is automatically adjusted such that, with identical levels on inputs A and B, no level change is experienced when switching from STD to MON mode.

S+D mode - Sum and difference mode, with the sum (input A + input B) signal on output A and the difference (input A - input B) signal on output B. Gain is automatically adjusted such that, with identical levels on inputs A and B, no level change is experienced on the sum output when switching from STD to S+D mode.

Connections

Inputs & Outputs

Refer to section 4 of this manual for the pin assignments of the XLR connectors. The mating (cable) connectors generally have the pin numbers moulded into their body close to the pins themselves. For unbalanced use, connect pin 3 to pin 1 inside the mating connector and connect the signal to pin 2, with pin 1/3 as ground. To achieve specified performance, leads should be of quality screened cable and not exceed 10m in length.

Gain Settings

Apply the expected input signal level to the MIC-IT. Monitor the output and adjust the gain control (clockwise to increase gain) to give the level required.

6. Specifications

Inputs	Electronically balanced, input impedance >5kohm
Maximum input level	-6dBu
Input CMRR	> 60dB
Outputs	Electronically balanced
Maximum output level	+26dBu (10kohm load), +25.5dBu (600ohm load)
Nominal gain range	33dB to 75dB
Equivalent input noise	-129dB (RMS, 20Hz-22kHz, 60dB gain, 150ohm source)
Harmonic distortion	0.005% (1kHz THD, 40dB gain, +8dBu O/P)
Frequency response	<±0.1dB (20Hz-20kHz)
Selectable high pass filter	-3dB at 80Hz, -12dB/octave below
Power supply	230V AC (default) or 115V AC
Power consumption	7VA
Inrush current	<1A
Dimensions (excluding connectors)	294mm x 114mm x 44mm
Fixing centres	4 x 5mm hole on 276mm x 74mm rectangle
Weight	1.0kg unpacked, 1.2kg packed