

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: DA-IT and DA-ITR 1 Input, 4 Output Distribution 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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DA-IT DA-ITR 1 Input, 4 Output Distribution Amplifier & 1 Input, 4 Output Distribution Amplifier, Rackmount

V1.00 © ProAVM 2006

1. Introduction

The ProAVM DA-IT is a versatile distribution amplifier, capable of simultaneous distribution of both stereo and mono audio at a wide range of levels. Both balanced and unbalanced loads can be driven at professional or domestic levels, with each output totally unaffected by the settings or load on any other.

The DA-IT is therefore the solution to many common studio problems, especially situations where both professional and domestic equipment needs to be fed at a variety of levels. In many cases the requirement for several level matching units can be eliminated simply through the use of a DA-IT.

The DA-IT is housed in either a compact and robust metal case with mounting holes for wall or under desk mounting or a standard 1U 19" rack mounting case, the DA-ITR.

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 DA-IT, or DA-ITR
1 x IEC Mains lead

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

4. Controls and Connectors

Inputs	3 pin female XLR, electronically balanced. Inputs may be unbalanced without affecting gain by linking pins 1 and 3. Pin 1 Ground Pin 2 Hot (Phase) Pin 3 Cold (Non-phase)
Output Gain	Individual multi-turn adjustments for channel gain. Nominal gain range -25 to +10dB.
Outputs	3 pin male XLR, electronically balanced. Outputs may be unbalanced without affecting gain by linking pins 1 and 3. 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. 250mA(T) for 230V units 500mA(T) for 115V units DISCONNECT MAINS BEFORE ATTEMPTING TO CHANGE FUSE.
Mains	IEC male connector.
Internal Option Links	Selectable input impedance. Mono mix assignable to individual outputs. Optional fixed 0dB gain for each output. Selectable 1-in, 8-out operation

5. Operation

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

Internal Option Links

The DA-IT is normally shipped as a standard 2-in, 4-out distribution amplifier with variable gain. It is possible to select other modes of operation through the configuration of clearly marked internal links.

To adjust the links, first disconnect mains power from the unit, then remove the six lid screws and the lid itself. Referring to the information below, arrange the links into the positions corresponding to the desired configuration. Replace and secure the lid before reapplying power.

Input Impedance

Links S1 and S2 select the impedance of inputs A and B respectively. The two settings available are 20kohm (default - position marked "20K") and 600ohm (position marked "600R").

Channel Linking

Link S11 selects between normal 2-in, 4-out operation (default - position marked "NORM") and 1-in, 8-out operation (position marked "LINK"). When linked, all eight outputs will follow input A and input B will be unused.

Mono Mix

Any or all of the outputs may be assigned a mono mix of inputs A and B. Links S12 to S19 each correspond to an individual output and may be set to normal operation (default - position marked "NORM") or mono (position marked "MONO").

Fixed Gain

Where audio measuring equipment is not available for gain setting, or it is desirable to discourage tampering, the option is available to fix the gain of any or all outputs to 0dB. Links S3 to S10 each correspond to an individual output and may be set to allow variable gain (default - position marked "VAR") or fix 0dB gain (position marked "FIX").

Connections

Inputs

Refer to section 4 of this manual for the pin connections of the input female XLR sockets. For unbalanced use, connect pin 3 to pin 1 and apply 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.

Outputs

Refer to section 4 of this manual for the pin connections of the output male XLR sockets. For unbalanced use, connect pin 3 to pin 1 and take the signal from pin 2, with pin 1/3 as ground To achieve specified performance, leads should be of quality screened cable.

Output Gain

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

6. Specifications

Inputs	Electronically balanced, 20kohm or 600ohm input impedance
Maximum input level	+26dBu
Input CMRR	-60dB typical
Outputs	Electronically balanced
Maximum output level	+26dBu (10kohm), +25.5dBu (600ohm)
Nominal gain range	-25dB to +10dB
Noise	< -80dB, typ. -90dB (RMS, 20Hz-22kHz, 0dB gain)
Harmonic distortion	<0.01% (100Hz-10kHz)
Crosstalk	< -80dB (A-B, 1kHz, 0dB gain)
AF response	<0.1dB (20Hz-20kHz)
Power supply	115 or 230V AC (factory set) •10%
Power consumption	10VA
Inrush current	<0.5A
Dimensions (excluding connectors)	431mm x 127mm x 44mm
Fixing centres	4 x 5mm hole on 413mm x 87mm rectangle
Weight	2.0kg unpacked, 2.2kg packed