

## 7. How to Contact ProAVM

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Alternatively visit our web site: <http://www.proavm.com>

## 8. Declaration of Conformity

**Name of Manufacturer:** ProAVM  
**Address of Manufacturer:** 61 Station Road  
Irthlingborough  
Northants  
NN9 5QE

**Product:** MATCH-IT Stereo Matching Unit - Record & Replay

**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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## MATCH-IT Stereo Matching Unit - Record & Replay

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### 1. Introduction

The ProAVM MATCH-IT translates between the low-level, unbalanced signals used by domestic and semi-professional equipment and the more robust, balanced format used in the professional environment. It is therefore the ideal solution to the common studio problem of interfacing inexpensive record/replay units to professional mixing consoles and other balanced equipment.

With the ever-increasing density of equipment in the modern studio, proper balancing of signals is vital if sources are to be kept free of noise and interference. The MATCH-IT provides bidirectional stereo matching for one domestic/semi-professional machine, and its wide gain range includes 0dB to accommodate higher level unbalanced devices.

For matching of two replay only (unidirectional) sources, see the ProAVM MATCH-IT2.

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

### 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 MATCH-IT  
1 x IEC Mains lead

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

### 4. Controls and Connectors

Unbalanced I/O	RCA female phono connectors. Centre Pin Signal Shell Ground
Balanced 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)
Balanced Output Gain	Individual multiturn adjustments for channel gain. Nominal gain range 0 to +25dB.
Balanced 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)
Balanced Input Gain	Individual multiturn adjustments for channel gain. Nominal gain range -25 to 0dB.
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.

The MATCH-IT is designed to integrate easily into a wide variety of systems. The balanced connections may be unbalanced if required, and the wide range of gain available can accommodate disparate signal levels.

#### Connections

##### Unbalanced I/O

Refer to section 4 of this manual for the pin connections of the female RCA sockets. To achieve specified performance, leads should be of quality screened cable and not exceed 1m in length.

##### Balanced I/O

Refer to section 4 of this manual for the pin connections of the XLR sockets. For unbalanced use, connect pin 3 to pin 1 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 MATCH-IT. Monitor the output and adjust the gain control (clockwise to increase gain) to give the level required.

### 6. Specifications

#### Unbalanced to Balanced Section

Inputs	Unbalanced, 22kohm input impedance
Maximum input level	+24dBu
Outputs	Electronically balanced
Maximum output level	+24dBu (10kohm), +23.5dBu (600ohm)
Nominal gain range	0dB to +25dB
Noise	< -80dB (RMS, 20Hz-22kHz, +14dB gain)
Harmonic distortion	< 0.01% (100Hz-10kHz)
Crosstalk	< -80dB (L-R & A-B, 1kHz, +14dB gain)
AF response	< ±0.1dB (20Hz-20kHz)

#### Balanced to Unbalanced Section

Inputs	Electronically balanced, 20kohm input impedance
Maximum input level	+25dBu
Input CMRR	-60dB typical
Outputs	Unbalanced
Maximum output level	+24dBu (10kohm)
Nominal gain range	-25dB to 0dB
Noise	< -90dB (RMS, 20Hz-22kHz, -14dB gain)
Harmonic distortion	< 0.01% (100Hz-10kHz)
Crosstalk	< -80dB (L-R & A-B, 1kHz, -14dB gain)
AF response	< ±0.1dB (20Hz-20kHz)

Power supply	115 or 230VAC (factory set)
Power consumption	6VA
Inrush current	< 0.5A
Dimensions (excluding & connectors)	294mm x 114mm x 44mm
Fixing centres	4 x 5mm hole on 276mm x 74mm rectangle
Weight	0.9kg unpacked, 1.1kg packed