



Instruction Manual

Thank you for purchasing an Ocean Matrix component. This unit is designed to give you years of trouble free professional operation for your most demanding applications. It is our goal to develop long term partnerships with our customers through our commitment to exceed their expectations.

OMX-ADA1x3

For Repair Information and to view the entire Ocean Matrix product line, please visit our web site.

www.oceanmatrix.com

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1 Introduction

Congratulations on purchasing your OCEAN MATRIX® **OMX-ADA1x3** *Audio Distributor*, which comes with a power adapter and this instruction manual. The **OMX-ADA1x3** is ideal for the following typical applications:

- Audio duplication studios
- Audio broadcast and production studios for signal distribution
- Presentation and multimedia audio distribution
- Field audio distribution

2 Getting Started

We recommend that you:

- Unpack the equipment carefully and save the original box and packaging materials for possible future shipment
- Review the contents of this instruction manual

3 Overview

The **OMX-ADA1x3** is a high quality 1:3 balanced stereo audio distribution amplifier. It accepts one balanced stereo input and distributes the signal to three identical stereo outputs with no discernible signal degradation. The **OMX-ADA1x3**:

- Achieves a signal output level reaching +20dBm
- Has front panel left and right signal level trimmer controls
- Can function as a 1:3 unbalanced stereo audio DA

To achieve the best performance:

- Connect only good quality connection cables, thus avoiding interference, deterioration in signal quality due to poor matching, and elevated noise- levels (often associated with low quality cables)
- Avoid interference from neighboring electrical appliances and position your **OMX-ADA1x3** away from moisture, excessive sunlight and dust



Caution – No operator-serviceable parts inside unit.

Warning – Use only the input power wall adapter that is provided with this unit.

Warning – Disconnect power and unplug unit from wall before installing or removing device or servicing unit.

4 Your OMX-ADA1x3 Audio Distributor

Figure 1 and Table 1 define the **OMX-ADA1x3 Audio Distributor**:

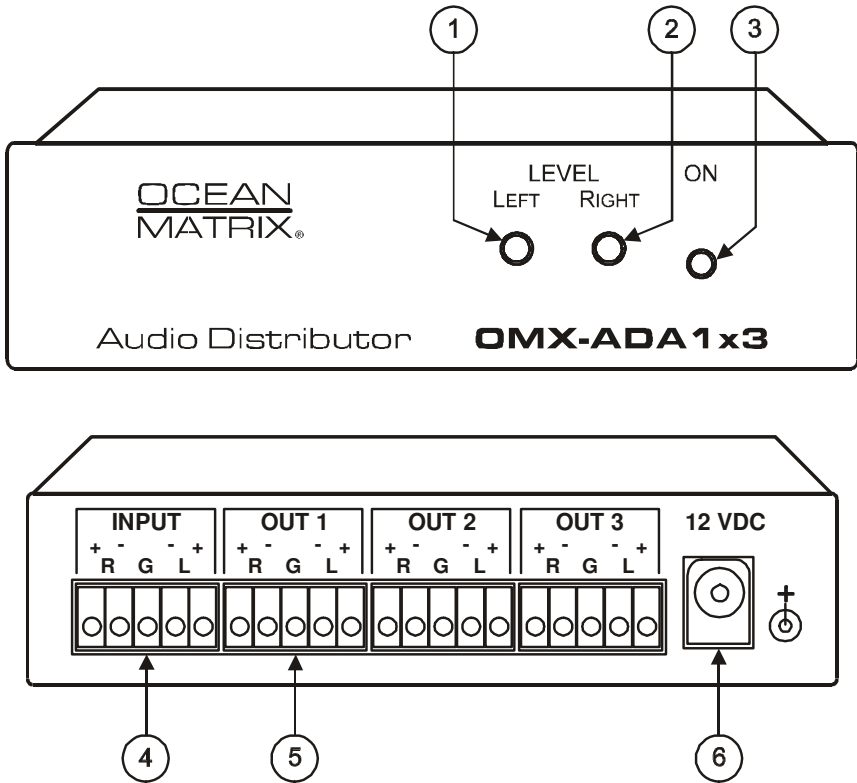


Figure 1: OMX-ADA1x3 Audio Distributor

Table 1: OMX-ADA1x3 Features and Functions

#	Feature	Function
1	LEFT LEVEL Trimmer	Adjusts ¹ the left output signal level
2	RIGHT LEVEL Trimmer	Adjusts ¹ the right output signal level
3	ON LED	Illuminates when receiving power
4	INPUT Detachable Terminal Block Connector	Connects to the audio source
5	OUT Detachable Terminal Block Connector	Connects to the audio acceptor (from 1 to 3)
6	12 VDC	+12V DC connector for powering the unit

¹ Insert a screwdriver into the small hole and carefully rotate it, trimming the appropriate OUT level

5 Connecting the OMX-ADA1x3

To connect the **OMX-ADA1x3**, as the example in Figure 2 illustrates, do the following:

1. Connect the balanced stereo audio source and up to 3 balanced stereo audio acceptors¹ to the rear panel of the **OMX-ADA1x3**.
2. Connect the 12V DC power adapter to the power socket and connect the adapter to the mains electricity.
The balanced stereo audio input is buffered to the balanced stereo audio outputs and the ON LED lights.

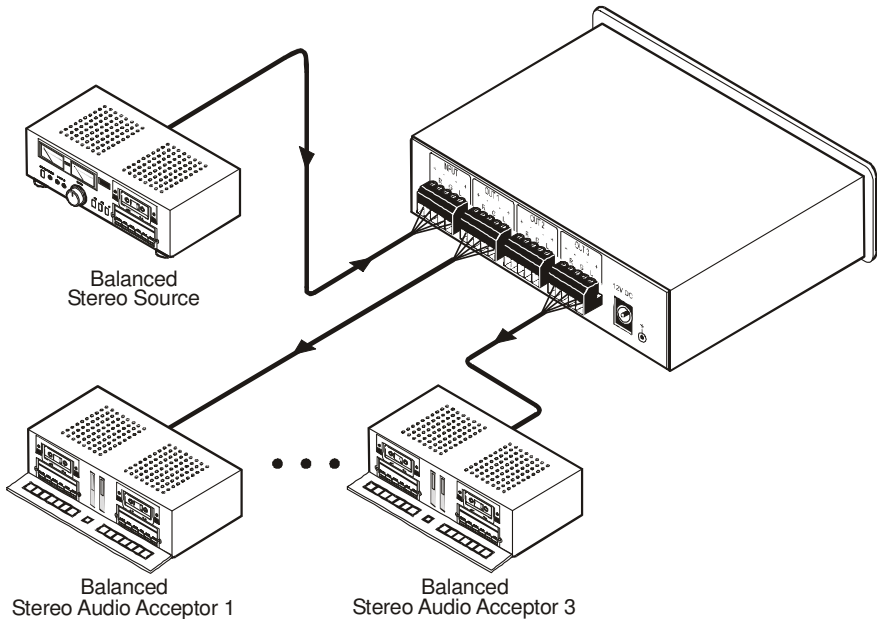


Figure 2: Connecting the OMX-ADA1x3 Audio Distributor

¹ Switch OFF the power on each device before connecting it to your OMX-ADA1x3. After connecting your OMX-ADA1x3, switch on its power and then switch on the power on each device

6 Technical Specifications

Table 2 describes the technical specifications:

Table 2: Technical Specifications of the OMX-ADA1x3

INPUT:	1 balanced audio stereo +4dBm/100k on detachable terminal blocks
OUTPUTS:	3 balanced audio stereo +4dBm/50Ω on detachable terminal blocks
MAX. OUTPUT LEVEL:	20dBm
BANDWIDTH (-3dB):	>100 kHz
S/N RATIO:	87dB
CONTROL:	Output level control: - 0.5dB to +8.6dB
COUPLING:	DC
AUDIO THD + NOISE:	0.024%
POWER SOURCE:	12 VDC 48mA
DIMENSIONS:	11.7cm x 6cm x 3.2cm (4.6" x 2.4" x 1.3") W, D, H
WEIGHT:	0.28 kg (0.62 lbs.) approx.
ACCESSORIES:	Power supply