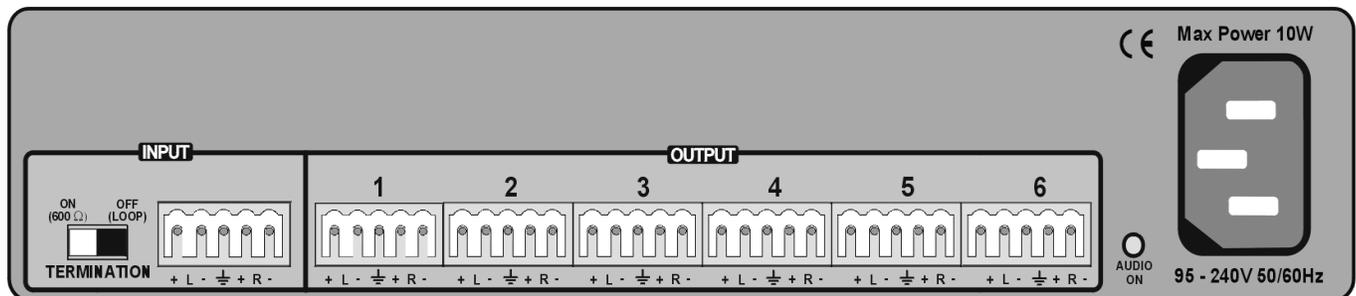


DISTRIBUTION AMPLIFIERS



MANUAL PART NUMBER: 400-0078-003
PRODUCT REVISION: 1

DAA0106-V0A2

1-IN, 6-OUT AUDIO

DISTRIBUTION AMPLIFIER

USER'S GUIDE

ALTINEX

SIGNAL
MANAGEMENT
SOLUTIONS

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DISTRIBUTION AMPLIFIERS

INTRODUCTION

Altinex appreciates your purchase of the **DAA0106-V0A2** Distribution Amplifier. We are sure you will find it to be a reliable and useful product.

Superior performance for the right price backed by solid technical and customer support is what we have to offer.

The product you are holding in your hands is designed using state-of-the-art technology and is superior to anything available on the market. You will find this and our other products reliable, long lasting, and simple to operate.

We are committed to providing our customers with solutions to the most demanding audio-visual installations at very competitive pricing.

We appreciate your selection of our products and are confident that you will join the ranks of our many satisfied customers throughout the world.

This manual covers:

DAA0106V0A2 - 1-in, 6-out Audio Distribution Amplifier

TABLE OF CONTENTS

| | Page |
|---|------|
| PRECAUTIONS / SAFETY WARNINGS | 2 |
| GENERAL | 2 |
| RACK MOUNT SAFETY GUIDELINES | 2 |
| INSTALLATION | 2 |
| CLEANING | 2 |
| FCC / CE NOTICE | 2 |
| ABOUT YOUR DISTRIBUTION AMPLIFIER | 3 |
| TECHNICAL SPECIFICATIONS | 3 |
| DESCRIPTION OF DAA0106V0A2 | 4 |
| APPLICATION DIAGRAM | 5 |
| INSTALLING YOUR DISTRIBUTION AMPLIFIER | 6 |
| OPERATION | 6 |
| ACCESSORIES | 7 |
| FREQUENTLY ASKED QUESTIONS | 7 |
| TROUBLESHOOTING GUIDE | 8 |
| ALTINEX POLICY | 8 |
| LIMITED WARRANTY | 8 |
| RETURN POLICY | 8 |
| CONTACT INFORMATION | 8 |

DISTRIBUTION AMPLIFIERS

PRECAUTIONS / SAFETY WARNINGS 1

Please read this manual carefully before using your **DAA0106-V0A2** Distribution Amplifier. Keep this manual handy for future reference. These safety instructions are to ensure the long life of your **DAA0106-V0A2** and to prevent fire and shock hazard. Please read them carefully and heed all warnings.

1.1 GENERAL

- Unauthorized personnel shall not open the unit since there are high-voltage components inside.
- Qualified Altinex service personnel, or their authorized representatives must perform all service.

1.2 SAFETY GUIDELINES FOR THE RACK-MOUNTING OF THE DAA0106-V0A2

- Maximum operating ambient temperature is 35 (degrees C).
- Never restrict the air flow through the devices' fan or vents.
- When installing equipment into a rack, distribute the units evenly. Otherwise, hazardous conditions may be created by an uneven weight distribution.
- Connect the unit to a properly rated supply circuit.
- Reliable Earthing (Grounding) of Rack-Mounted Equipment should be maintained.

1.3 INSTALLATION

- For best results, place the **DAA0106-V0A2** Distribution Amplifier on a flat, leveled surface in a dry area away from dust and moisture.
- To prevent fire or shock, do not expose this unit to rain or moisture. Do not place the **DAA0106-V0A2** Distribution Amplifier in direct sunlight, near heaters or heat radiating appliances, or near any liquid. Exposure to direct sunlight, smoke, or steam can harm internal components.

- Handle the **DAA0106-V0A2** Distribution Amplifier carefully because dropping or jarring can damage internal components.
- Do not place heavy objects on top of the **DAA0106-V0A2**. If the is to be mounted to a table or wall, use only Altinex made mounting accessories, such as rack mount shelf (**DA1293FC**, **DA1294FC**) and cables for optimum setup.
- To turn off the main power, be sure to remove the cord from the power outlet. The power outlet socket should be installed as close to the equipment as possible, and should be easily accessible.
- Do not pull the power cord or any cable that is attached to the **DAA0106-V0A2** Distribution Amplifier.
- If the **DAA0106-V0A2** Distribution Amplifier is not used for an extended period, disconnect the power cord from the power outlet.

1.4 CLEANING

- Unplug the **DAA0106-V0A2** power cord before cleaning. Clean surfaces with a dry cloth. Never use strong detergents or solvents, such as alcohol or thinner. Do not use a wet cloth or water to clean the unit.

1.5 FCC / CE NOTICE

- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may

DISTRIBUTION AMPLIFIERS

cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

- Any changes or modifications to the unit not expressly approved by Altinex, Inc. could void the user's authority to operate the equipment.

ABOUT YOUR DISTRIBUTION AMPLIFIER 2

The **DAA0106-V0A2** is a product of exceptional quality and design, which includes stereo audio amplifiers.

The audio amplifier is designed to provide six buffered and amplified outputs for both left and right channels. The input signals are isolated to prevent ground loops. The input termination is switch selectable to either be 600 Ohms or high impedance.

The **DAA0106-V0A2** Distribution Amplifier is a state-of-the-art product with a bandwidth of 10Hz to 20kHz for audio signals.

TECHNICAL SPECIFICATIONS 3

| FEATURES/DESCRIPTION | Audio |
|-----------------------|---------------------------------|
| GENERAL | |
| No. of Inputs | 1 |
| Input Connector | One 3.5 mm 5-pin Terminal Block |
| No. of Outputs | 6 |
| Output Connector | Six 3.5mm Terminal Blocks |
| Compatibility | Stereo or Mono Audio |

Table 1. **DAA0106-V0A2** General

| MECHANICAL | Audio |
|----------------------|--------------------|
| Material | 0.1" Al |
| Finish | Gray |
| Top Panel | Lexan |
| Height (inches) | 1.75in (44mm) |
| Width (inches) | 8.50in (216mm) |
| Depth (inches) | 4.93in (125mm) |
| Weight (pounds) | 2.0lbs. (0.91kg) |
| Ship Weight (pounds) | 4.0lbs. (1.81kg) |
| T° Operating | 10°C-35°C |
| T° Maximum | 50°C |
| Humidity | 50% non-condensing |
| MTBF (calculations) | 40,000 hrs |

Table 2. **DAA0106-V0A2** Mechanical

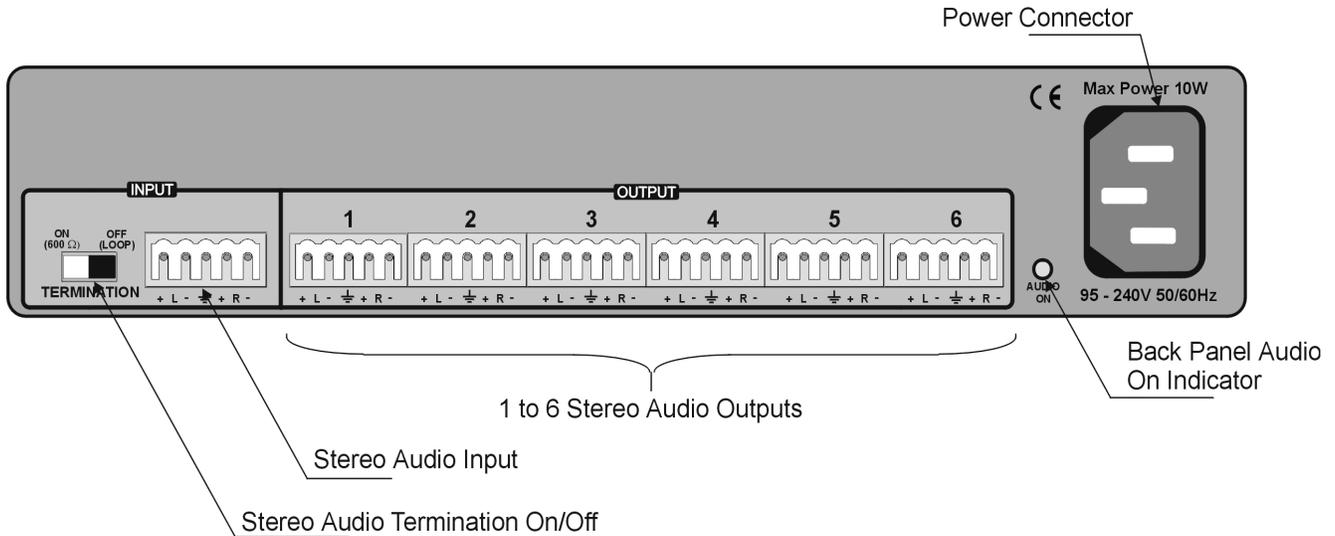
| ELECTRICAL | Audio |
|--------------------------------|--------------------------------------|
| Input Signals | |
| Level | 10 V p-p max |
| Impedance | 600 Ohms or high impedance |
| Type | Differential input isolated from GND |
| Output Signals | |
| Level | 10V p-p |
| Impedance | Low – drives 600 Ohms |
| Type | Differential input isolated from GND |
| Gain | 0 dB unbalanced, +6dB balanced |
| Frequency Compatibility | |
| Typical Bandwidth | 10Hz – 20kHz |
| Power | |
| Internal Power Supply | 90-140V/ 200-240V |
| Power Consumption | 10 watts max |

Table 3. **DAA0106-V0A2** Electrical

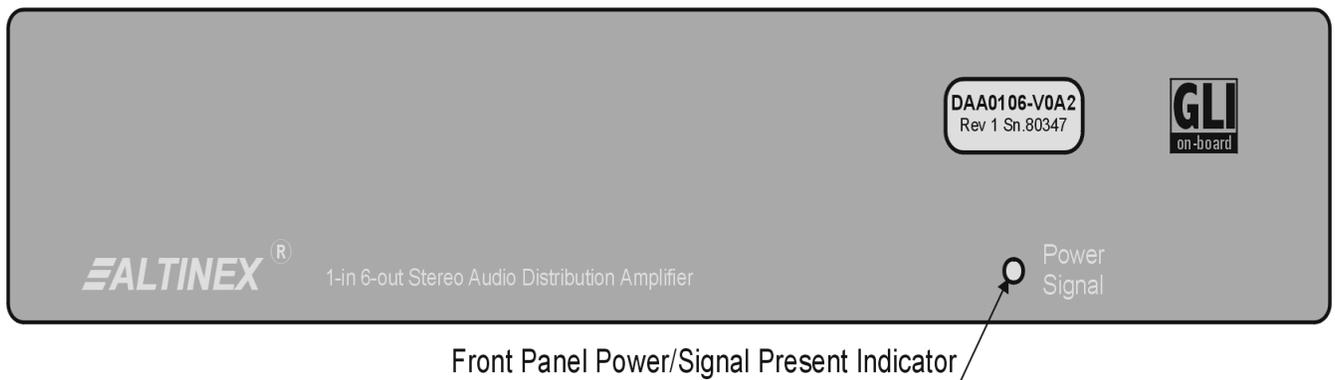
DISTRIBUTION AMPLIFIERS

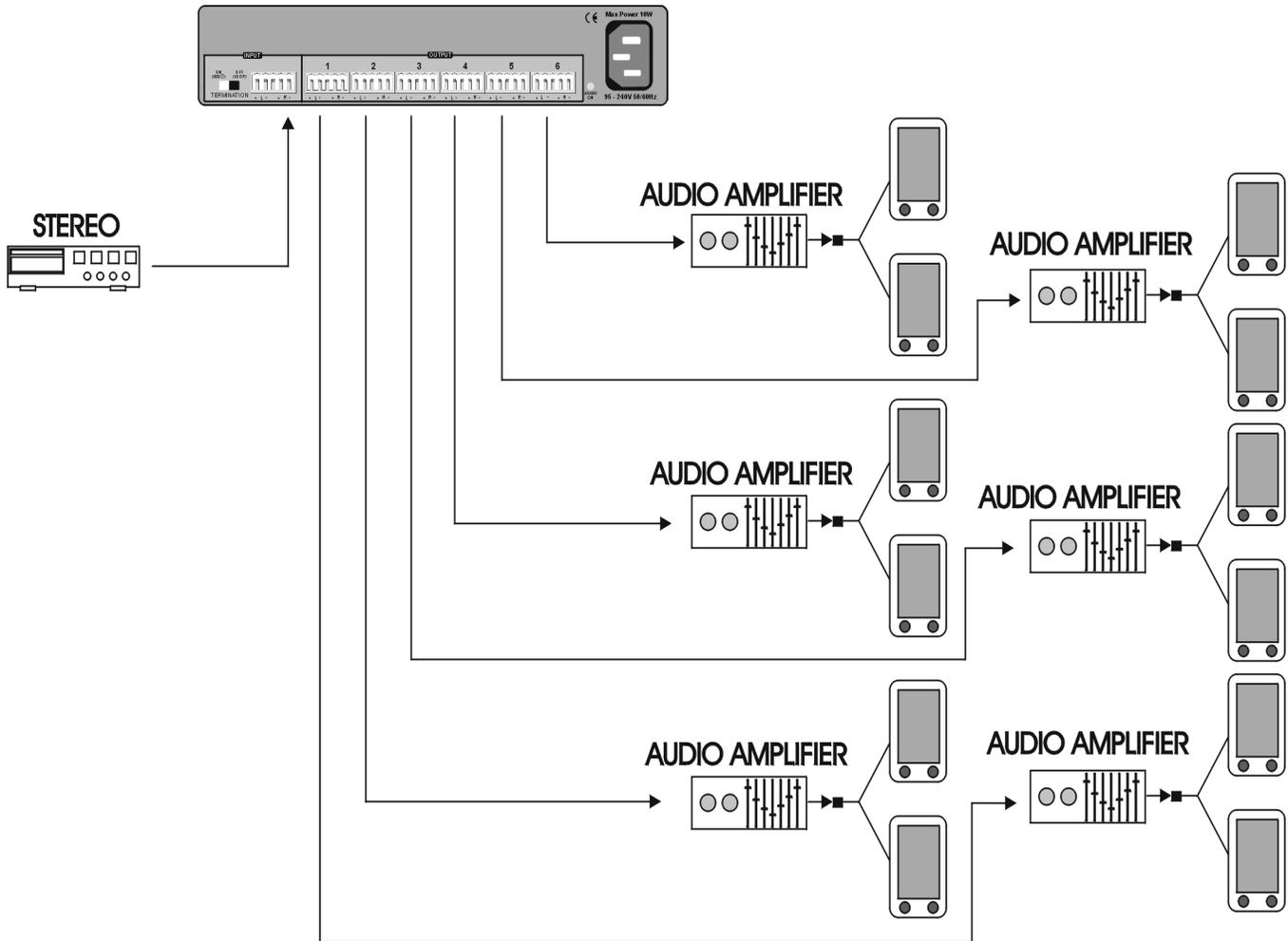
DESCRIPTION OF DAA0106-V0A2 4

BACK PANEL OF DAA0106-V0A2



FRONT PANEL OF DAA0106-V0A2





INSTALLING YOUR DISTRIBUTION AMPLIFIER

6

- Step 1.** Connect the power cord to the unit and plug it into the power outlet. The power indicator LED on the front panel will light. This indicates that the unit is operational.
- Step 2.** Connect the audio output of the source (computer, VCR, etc.) to the input of the **DAA0106-V0A2** using high quality cables. The LED on the front panel will turn green. This indicates an input signal on the input of the distribution amplifier.
- Step 3.** Connect the output channels of the amplifier to the display devices, such as monitors or projectors.
- Step 4.** Verify that the quality of the output signal on all speakers is good. If the quality of the output signal is less than perfect, make sure that high quality cables are used, and all connections are solid.

CONGRATULATIONS! YOU ARE DONE.

If you experience any problems, please call
1-800-258-4623 or 1-714-990-2300 for
international calls.

OPERATION

7

The **DAA0106-V0A2** will operate successfully as long as cables are attached properly and other technical specifications are followed.

7.1 TERMINATION SWITCH

The termination switch of the audio amplifier may be set to 600 Ohms on the audio input if it is in the ON position, and high impedance in the OFF position.

DISTRIBUTION AMPLIFIERS

ACCESSORIES 8

| Model No. | Description |
|--------------------|---|
| | TABLE MOUNT BRACKETS |
| TM1271 | 1 U High, ½ Rack-Wide |
| TM1272 | 1 U High, ½ Rack-Wide with 15-pin HD connector plate |
| TM1273 | 1 U High, ½ Rack-Wide with SNAP-IN connectors |
| TM1274 | 1 U High, ½ Rack-Wide with SNAP-IN and power connectors |
| | RACK MOUNTING BRACKETS |
| DA1293FC | 19" - 1U Rack Mount Shelf (for tandem 2- Units) |
| DA1294FC | 19"- 1U Rack Mount Ears for single unit |
| | HIGH RESOLUTION MULTI-CHANNEL COAX CABLE length XX = 3, 6, 12, 25, 50, 75, 100, 150 feet |
| CB41XXMR | 4 BNC to 4 BNC |
| CB42XXMR | 5 BNC to 5 BNC |
| | SUPER HIGH RESOLUTION MULTI-CHANNEL COAX CABLE length XX = 3, 6, 12, 25, 50, 75, 100, 150 feet |
| CB43XXMR | 4 BNC to 4 BNC |
| CB44XXMR | 5 BNC to 5 BNC |
| | PLENUM-FLEX MULTI-CHANNEL COAX CABLE length XXX = 3, 6, 12, 25, 50, 75, 100, 150, 200, 250 feet |
| CB5000PL-5BM0XX5BM | 5 BNC to 5 BNC, high resolution coax cable |
| CB5100PL-5BM0XX5BM | 5 BNC to 5 BNC, super high resolution coax cable |
| | POWER CABLES |
| PC5301US | Power cable for US |
| PS5302UK | Power cable for England |
| PS5303AU | Power cable for Australia |
| PS5304GR | Power cable for Germany |

FREQUENTLY ASKED QUESTIONS 9

| No: | Question | Answer |
|-----|---|---|
| 1 | What is a Distribution Amplifier? | A Distribution Amplifier is a device that allows you to connect a single signal source to multiple display devices, such as monitors or projectors used in presentation applications. |
| 2 | When do I use the DAA0106-V0A2 ? | In some cases, you need a connection of an audio source to as many as six different audio amplifiers. |
| 3 | Which signal format can be passed through the DAA0106-V0A2 ? | The DAA0106-V0A2 can pass mono or stereo audio signals. |
| 4 | What if I do not use all of the outputs? | All of the outputs are completely independent, and it is not necessary to terminate unused outputs. |

TROUBLESHOOTING GUIDE 10

- Please make sure that the audio voltage level is less than 10V p-p.
- Make sure to use the correct power cable with the appropriate connector for the country in which it is being used.
- If a problem arises after continuous usage at higher voltage, higher temperature, higher humidity, or at other extreme environmental conditions, please correct the problem.

ALTINEX POLICY 11

11.1 LIMITED WARRANTY

Altinex warrants that its products and cables are free from defects in materials under normal use and service. This warranty is limited to repairing at company's factory any part or parts of the product, which upon company's examination shall disclose to be, thus defective. Products shall be returned to the company with transportation charges pre-paid within 2 years (90 days for cables) from date of shipment to the purchaser. The warranty is expressly instead of all other warranties expressed or implied. Altinex neither assumes nor authorizes any other person to assume for it any other liability in connection with the sale of the products. This warranty shall not apply to any product that has been repaired or altered outside of company's factory in any way so as, in its judgment, to affect its stability or reliability, or that has been subject to misuse, negligence or accident.

11.2 RETURN POLICY

It is very important to Altinex that you receive the products that you have ordered and that this product fulfills your need. In the unlikely event that an Altinex product needs to be returned please follow the policy below:

Altinex will accept product returns for a period of 30 days from authorized Altinex dealers. Products should be returned in an unopened package.

If the product has been opened, the restocking fees will apply. For the restocking fee amount, please contact an Altinex Sales Representative.

If the product is in your possession for more than 30 days, the restocking fees will also apply.

Altinex will not accept any returns on cables or custom products.

If your product is in warranty and needs service, contact the Altinex Sales Department for an RMA (Return Material Authorization). Products returned without an RMA number may experience a delay in service.

If your product is out of warranty and needs service, contact the Altinex Sales Department for an RMA (Return Material Authorization). Products returned without an RMA number may experience a delay in service. The service charges will be quoted to you before the actual repairs are done.

11.3 CONTACT INFORMATION

Sales Department

Phone: 714-990-2300
Fax: 714-990-3303

Accounting Department

Phone: 714-990-6088
Fax: 714-990-5778