



MMIX-4

ORDERCODE D1965



Highlite International B.V.

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SHOWELECTRONICS FOR PROFESSIONALS

Congratulations!

You have bought a great, innovative product from DAP Audio.

The DAP MMIX-4 brings excitement to any venue. Whether you want simple plug-&-play action or a sophisticated show, this product provides the effect you need.

You can rely on DAP Audio, for more excellent audio products.

We design and manufacture professional audio equipment for the entertainment industry.

New products are being launched regularly. We work hard to keep you, our customer, satisfied.

For more information: iwant@dap-audio.info

You can get some of the best quality, best priced products on the market from DAP Audio.

So next time, turn to DAP Audio for more great audio equipment.

Always get the best -- with DAP Audio !

Thank you!



DAP Audio

DAP MMIX-4™ Product Guide

Warning	3
Unpacking Instructions	3
Safety Instructions	3
Operating Determinations.....	4
Return Procedure	5
Claims	5
Description of the device	6
Features	6
Overview	6
Frontview.....	7
Rear.....	8
Installation	9
Set Up and Operation	9
Setup examples	9
Example 1: personal in ear mix	9
Example 2: Expanding your mixer with additional monitor groups.....	10
Connection Cables	11
Maintenance	12
Troubleshooting	12
Product Specifications	13

Warning

**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY
BEFORE YOUR INITIAL START-UP!**

Unpacking Instructions

Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a device must be returned to the factory, it is important that the device is returned in the original factory box and packing.

Your shipment includes:

- DAP MMIX-4
- AC-adaptor DC16V
- User manual



CAUTION!

Keep this system away from rain and moisture!



Safety Instructions

Every person involved with the installation, operation and maintenance of this system has to:

- be qualified
- follow the instructions of this manual



**CAUTION! Be careful with your operations.
With a dangerous voltage you can suffer
a dangerous electric shock when touching the wires!**



Before you initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the system.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the system are not subject to warranty.

This system contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the system.

- Only handle the AC-adaptor by the plug. Never pull out the adaptor by tugging the cord.
- Make sure you don't use the wrong kind of cables or defective cables.
- Make sure that the power adaptor matches the voltage and current stated on the rear panel.
- Make sure that the power adapter housing and cord is not damaged.
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.

- Never leave any cables lying around.
- Do not insert objects into air vents.
- Do not connect this system to a dimmerpack.
- Do not switch the system on and off in short intervals, as this would reduce the system's life.
- Do not open the device and do not modify the device.
- Do not drive the inputs with a signal level bigger, than required to drive the equipment to full output.
- Do not plug Mics into the console (or stagebox) while Phantom Power is on. Also mute the monitor / Pa system when turning Phantom Power on or off. Allow the system to adjust for a couple of seconds, before setting the input gains.
- Only use system indoor, avoid contact with water or other liquids.
- Avoid flames and do not put close to flammable liquids or gases.
- Always disconnect the power adapter from the mains, when system is not used.
- Make sure that the signals into the mixer are balanced, otherwise hum could be created.
- Make sure you use DI boxes to balance unbalanced signals; All incoming signals should be clear.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Please turn off the power switch, when changing the power adapter or signal cable, or select the input mode switch.
- Avoid ground loops! Always be sure to connect the power amps and the mixing console to the same electrical circuit to ensure the same phase!
- If system is dropped or struck, disconnect the power adapter immediately. Have a qualified engineer inspect for safety before operating.
- If the system has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your system. Leave the system switched off until it has reached room temperature.
- If your Dap Audio device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Dap Audio dealer for service.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- For replacement use fuses of same type and rating only.
- WARRANTY: Till one year after date of purchase.

Operating Determinations

This system is not designed for permanent operation. Consistent operation breaks will ensure that the system will serve you for a long time without defects.

If this system is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.

Any other operation may lead to dangers like short-circuit, burns, electric shock, etc.


You endanger your own safety and the safety of others!

Improper installation can cause serious damage to people and property !

Connection with the mains.

Connect the device to the mains with the power-plug.

Always pay attention, that the right color cable is connected to the right place.

International	EU (including UK) From April 2004	North America	Pin
L	Brown	Black	Phase
N	Blue	White	Neutral
	Green/Yellow	Green	Protective Earth

Make sure that the device is always connected properly to earth!

Return Procedure

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail aftersales@highlite.nl and request an RMA prior to shipping the device. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack the device, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:

- 1) Your name
- 2) Your address
- 3) Your phone number
- 4) A brief description of the symptoms

Claims

The client has the obligation to check the delivered goods immediately upon delivery for any shortcomings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.

It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.

Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless otherwise agreed in writing.

Complaints against us must be made known in writing or by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.

Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement of which the obligation is resulting.

Description of the device

The DAP MMIX-4 is a basic 4 channel mixer that can be used for many applications. Because of the split outputs it is ideal to use as sub-mixer or monitor mixer when you use in ear systems. It has 4 combo inputs for line or instrument signals and an aux input which makes it easy to expand if you like to combine more MMIX-4 mixers.

Features

- XLR / Jack combo inputs
- Split outputs
- Compact
- Ideal for in-ear pre-mix

Overview



Fig. 1

Frontview



Fig. 2

1. Channel 1 level control

Use this control to adjust the level of channel 1.

2. Channel 2 level control

Use this control to adjust the level of channel 2.

3. Channel 3 level control

Use this control to adjust the level of channel 3.

4. Channel 4 level control

Use this control to adjust the level of channel 4.

5. Output L/R signal VU meter

This meter is a multi-step LED; respectively the green LEDs show -20, -5 and 0dB. red LEDs show +6 and +20 dB. The red LEDs should only blink occasionally during loud passages. If the red LEDs light up frequently you have to lower the **Level (1, 2, 3, 4)** controls.

6. Channel 1 Combo input

Electronically balanced Combo-type input. Accept either XLR or Jack inputs. Due to the wide range of the **level (1)** control this input can be used for microphone level up to line level devices.

7. Channel 2 Combo input

Electronically balanced Combo-type input. Accept either XLR or Jack inputs. Due to the wide range of the **level (2)** control this input can be used for microphone level up to line level devices.

8. Channel 3 Combo input

Electronically balanced Combo-type input. Accept either XLR or Jack inputs. Due to the wide range of the **level (3)** control this input can be used for microphone level up to line level devices.

9. Channel 4 Combo input

Electronically balanced Combo-type input. Accept either XLR or Jack inputs. Due to the wide range of the **level (4)** control this input can be used for microphone level up to line level devices.

10. Power LED

Indicates that the unit is powered on.

11. Channel 1 pan control

By using the panorama control you can change the input signal's position within the stereo image. When the panorama control is set to center position, the audio signal is equal for both the left and right output.

12. Channel 2 pan control

By using the panorama control you can change the input signal's position within the stereo image. When the panorama control is set to center position, the audio signal is equal for both the left and right output.

13. Channel 3 pan control

By using the panorama control you can change the input signal's position within the stereo image. When the panorama control is set to center position, the audio signal is equal for both the left and right output.

14. Channel 4 pan control

By using the panorama control you can change the input signal's position within the stereo image. When the panorama control is set to center position, the audio signal is equal for both the left and right output.

Rear



Fig. 3

15. Channel 4 split output

Use this output to connect your input devices directly with the front of house mixer.

16. Channel 3 split output

Use this output to connect your input devices directly with the front of house mixer.

17. Channel 2 split output

Use this output to connect your input devices directly with the front of house mixer.

18. Channel 1 split output

Use this output to connect your input devices directly with the front of house mixer.

19. Main mix stereo outputs

Connect these outputs to a (headphone) amplifier with unbalanced inputs or to the **aux (20)** inputs of another MMIX-4.

20. Aux stereo/mono inputs

Connect a mono or stereo signal source to this aux bus. Make sure to use the left input if you want to connect a mono signal source.

21. Power on/off switch

This is the main Power switch. Press to turn the device on.

22. DC power connector

This connector is meant for the connection of the supplied power adapter. Use the supplied adapter only.

Installation

Remove all packing materials from the MMIX-4. Check that all foam and plastic padding is removed. Connect all cables.

Always disconnect from electric mains power supply before cleaning or servicing.
Damages caused by non-observance are not subject to warranty.

Set Up and Operation

Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Install this device on a flat surface, not bend or curved. Do not supply power before all components of the system are set up and connected properly. Make sure to power-up your MMIX-4 before your power amplifiers are switched on in order to avoid loud transients, which could damage your speakers or annoy your audience.

Setup examples

Example 1: personal in ear mix

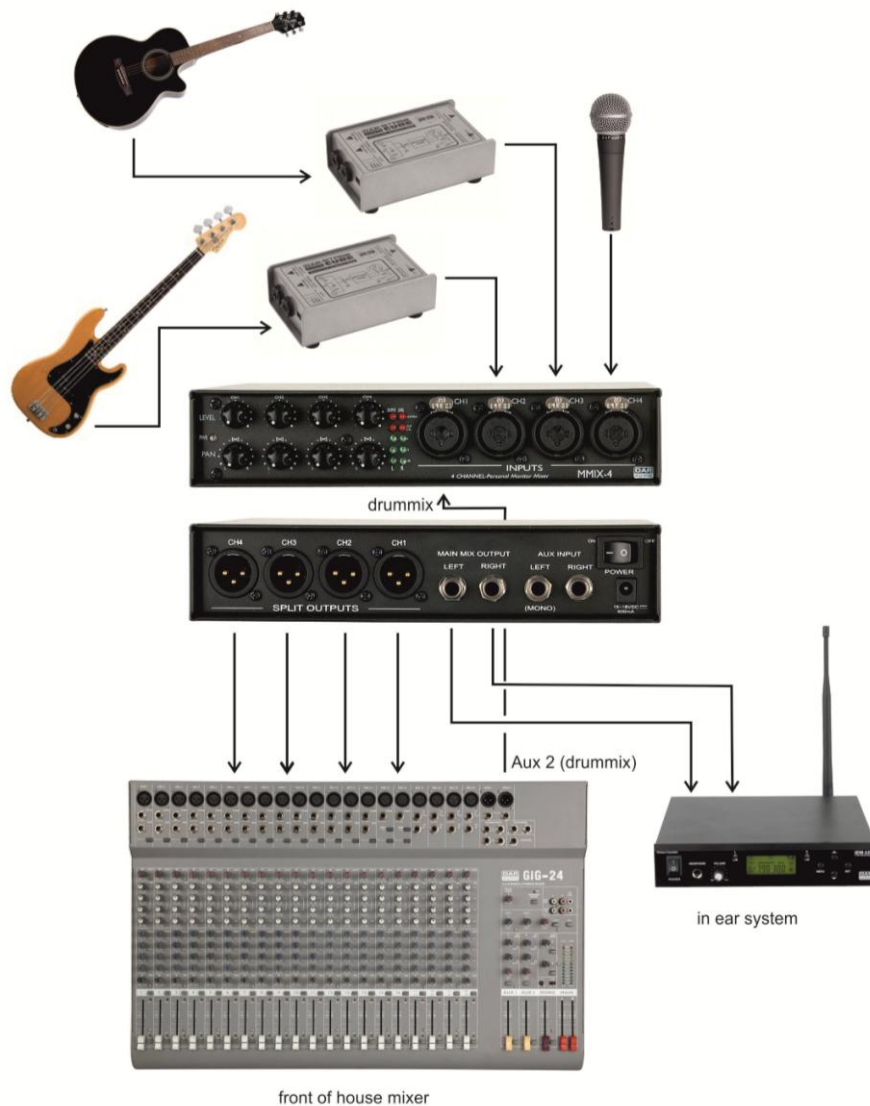


Fig. 4

Example 2: Expanding your mixer with additional monitor groups

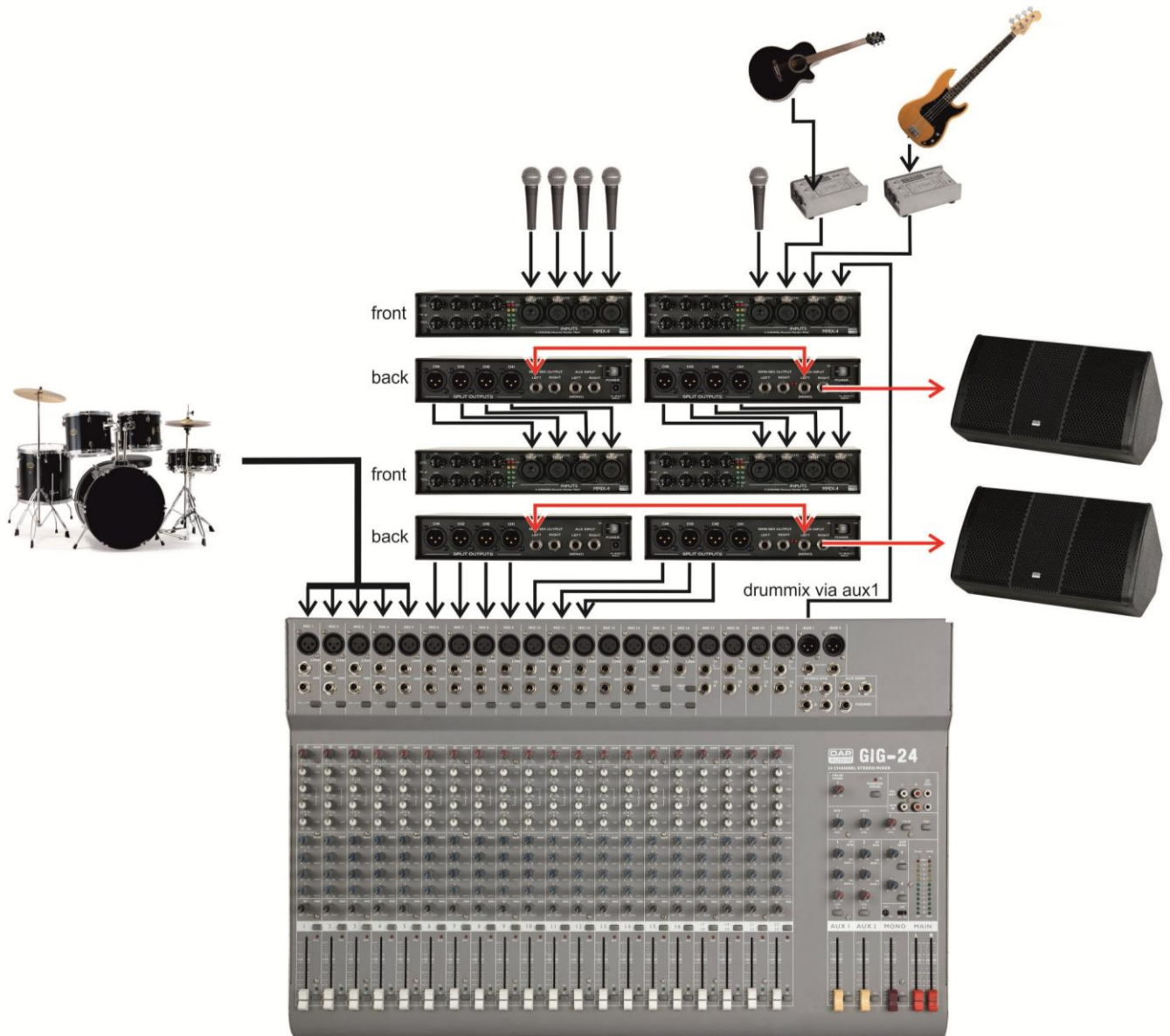
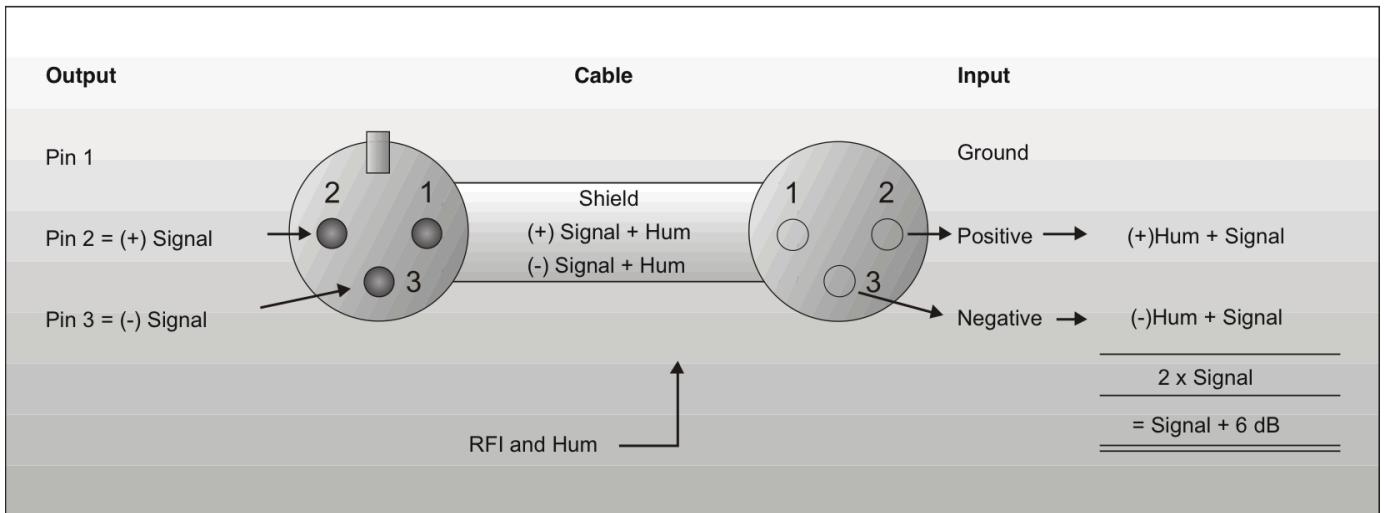
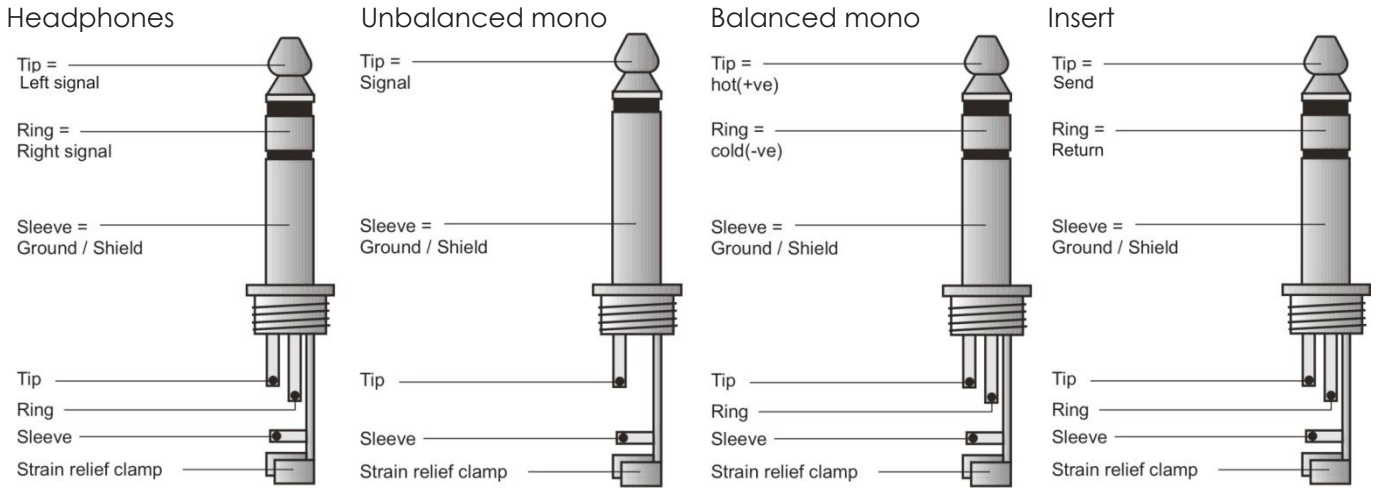


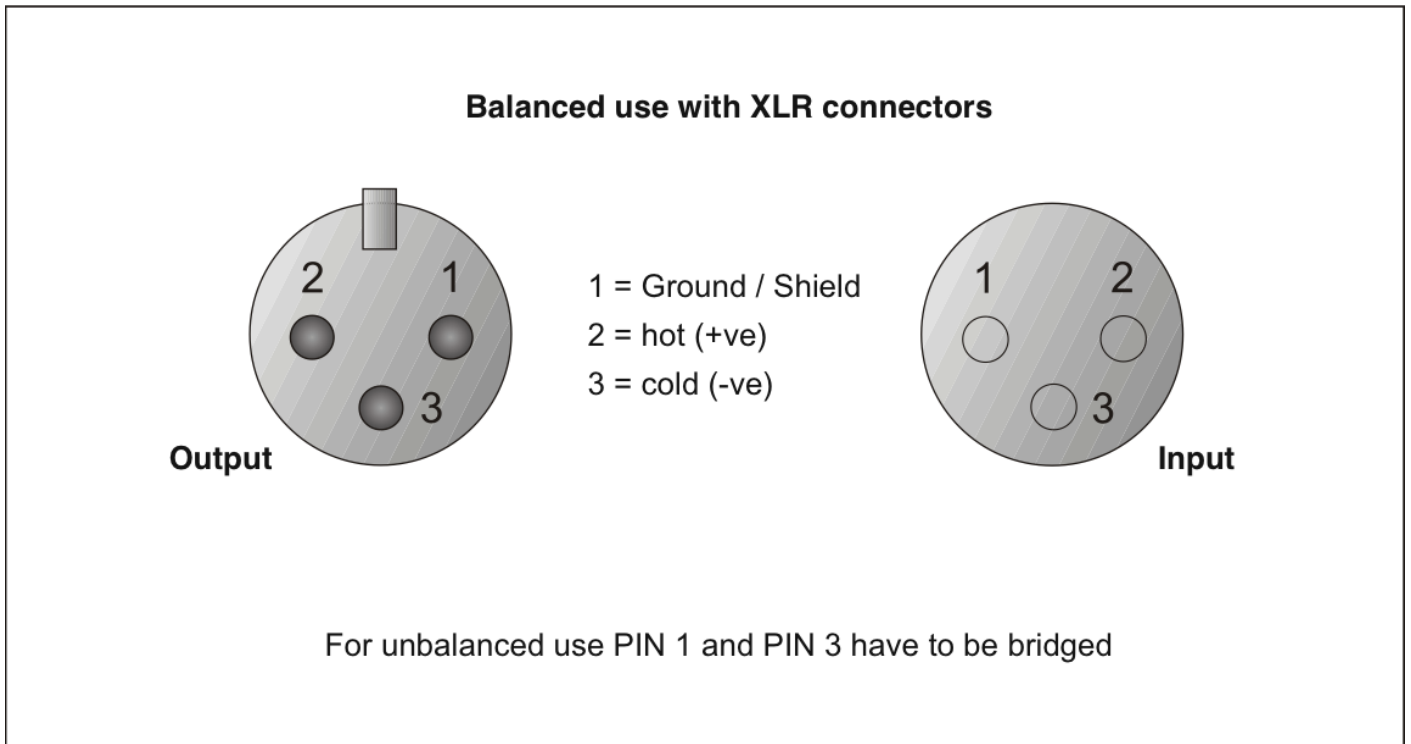
Fig. 5

Connection Cables

Take care of your cables, always holding them by the connectors and avoiding knots and twists when coiling them: This gives the advantage of increasing their life and reliability. Periodically check your cables. A great number of problems (faulty contacts, ground hum, discharges, etc.) are caused entirely by using unsuitable or faulty cables.



Compensation of interference with balanced connections



Maintenance

The DAP MMIX-4 requires almost no maintenance. However, you should keep the unit clean. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Do not use alcohol or solvents.

Keep connections clean. Disconnect electric power, and then wipe the audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

Troubleshooting

DAP MMIX-4

This troubleshooting guide is meant to help solve simple problems. If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.

1. If the device does not operate properly, unplug the device.
2. Check power from the wall, all cables, connections, etc.
3. If all of the above appears to be O.K., plug the unit in again.
4. If nothing happens after 30 seconds, unplug the device.
5. Return the device to your DAP Audio dealer.

Product Specifications

Input connectors:	XLR / Jack combo
Main output connectors:	6,3mm Jack
Aux input connectors:	6,3mm Jack
Split output connectors:	XLR
Output level (max):	13 dB
Frequency response:	22-22.000 Hz
Distortion:	<0.025%
Noise:	<61 dB
Input impedance:	5.9 KOhm
Aux impedance:	18,2 KOhm
Output impedance:	1K Ω balanced/ 500 Ω unbalanced
Dimensions:	205 x 212 x 43,5 (DxWxH)
Power supply:	14-18V, 150mA
Weight:	1,41 Kg



Design and product specifications are subject to change without prior notice.



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