



RX-12A

ORDERCODE D3316



Highlite International B.V.

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The Netherlands

SHOWELECTRONICS FOR PROFESSIONALS

Congratulations!

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

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

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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.

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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 Audio RX-12A™ Product Guide

Warning	2
Unpacking Instructions	2
Safety-instructions	2
Operating Determinations	3
Return Procedure	4
Claims	4
Description	5
Features	5
Overview	5
Control Panel	6
Operation	7
Connection Cables	8
Maintenance	9
Replacing the Fuse	9
Troubleshooting	9
Product Specifications	10

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 fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Your shipment includes:

- DAP RX-12A
- IEC cable
- 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.

- Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!
- 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.
- 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 power from the mains, when system is not used. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.
- Always operate the unit with the AC ground wire connected to the electrical system ground.
- Make sure you don't use the wrong kind of cables or defective cables.
- Make sure that the signals from the mixer are balanced, otherwise hum could be created.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power-cord is never crimped or damaged. Check the system and the power-cord from time to time.
- Please turn off the power switch, when changing the power cord or signal cable.
- Extreme frequency boosts in connection with a high input signal level may lead to overdriving your equipment. Should this occur, it is necessary to reduce the input signal level by using the INPUT control.
- To emphasize a frequency range, you don't necessarily have to move its respective control upward; try lowering surrounding frequency ranges instead. This way, you avoid causing the next piece of equipment in your sound path to overdrive. You also preserve valuable dynamic reserve ("headroom")
- 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 mains power supply 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 fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, 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

Features

The RX-12A is a 12/1 active full range speaker system.

- High performance fullrange enclosure
- High power 12 inch low driver
- 1 Inch high driver with 1,375 inch titanium dome
- External speaker output (minimal 8 Ω)
- Integrated mixer with tone control
- Bang & Olufsen ICE- power amplifier
- Multiple flying system
- Ideal in combination with the RX-18BA

Overview



Fig. 1

Controlpanel



Fig. 2

1) Signal LED

Indicates the presence of an audio signal.

2) Power LED

Indicates that AC power is connected and the RX-12A is switched on.

3) Protect

Indicates an electrical or thermal fault condition in the power amp.

4) Limit LED

Indicates that the analog soft clipping circuit is active. A soft clipping circuit clips short signal peaks in a way that is not sounding unpleasant to your ears. Although a soft clipping circuit limits your dynamic range, it allows you to operate on a higher average volume level.

If the limit led lights up continuously, we strongly suggest lowering the input level using the **master volume (10)** control.

5) Speaker out

Speakon fullrange speaker output for connecting a second RX-12A. Make sure the impedance of the external speaker is minimal 8 Ω .

6) Bass control

Controls the level of the low frequencies.

7) Treble control

Controls the level of the high frequencies.

8) Mic gain

Controls the level of the **mic in (13)** input.

9) Line gain

Controls the level of the **line in (14)** input.

10) Master volume

Controls the volume of the RX-12A and the level of the **mix out (11)** output.

11) Mix out output

Line level electronically balanced Male XLR socket. The mix out signal level depends on the settings of the **master volume (10)** control.

12) Loudness Button

This button allows you to activate the volume dependent loudness circuit. The intensity of the loudness circuits depends on the actual volume level, thus ensuring optimal sound quality at all volume levels.

13) Mic in input

Mic level electronically balanced 3 pole XLR/ jack combo socket.

14) Line in input

Line level electronically balanced 3 pole XLR/ jack combo socket.

10) Master volume

Controls the master volume level for the RX-12A and the **mix out (11)** socket.

15) Power Switch

Main power switch.

16) AC inlet with integrated fuse holder

This connector is meant for the connection of the supplied main cord. Connect one end of the power cord to the connector, the other end to the mains, then turn on the **power (15)** switch to operate the unit.

Note: Please make sure that the supply voltage matches the operation voltage before connecting the unit to mains. Replace the fuse only with a fuse of same specification (T3,15A).

Operation

Installation

Remove all packing materials from the RX-12A. Check that all foam and plastic padding is removed. Connect all cables.

Always disconnect from electric mains power supply before cleaning or servicing.

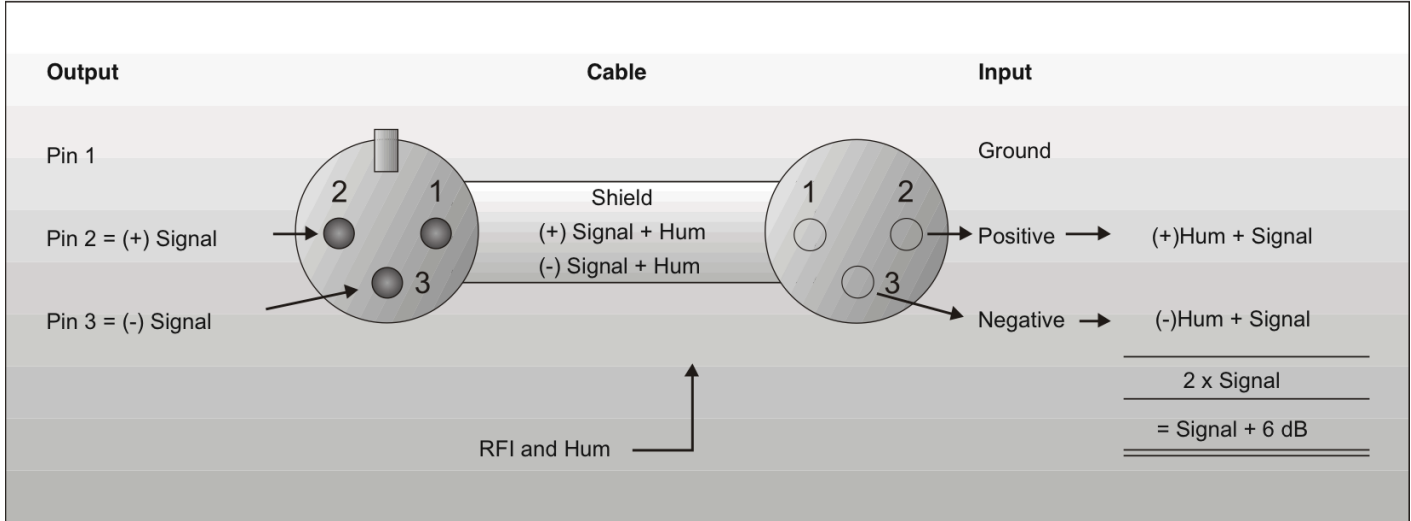
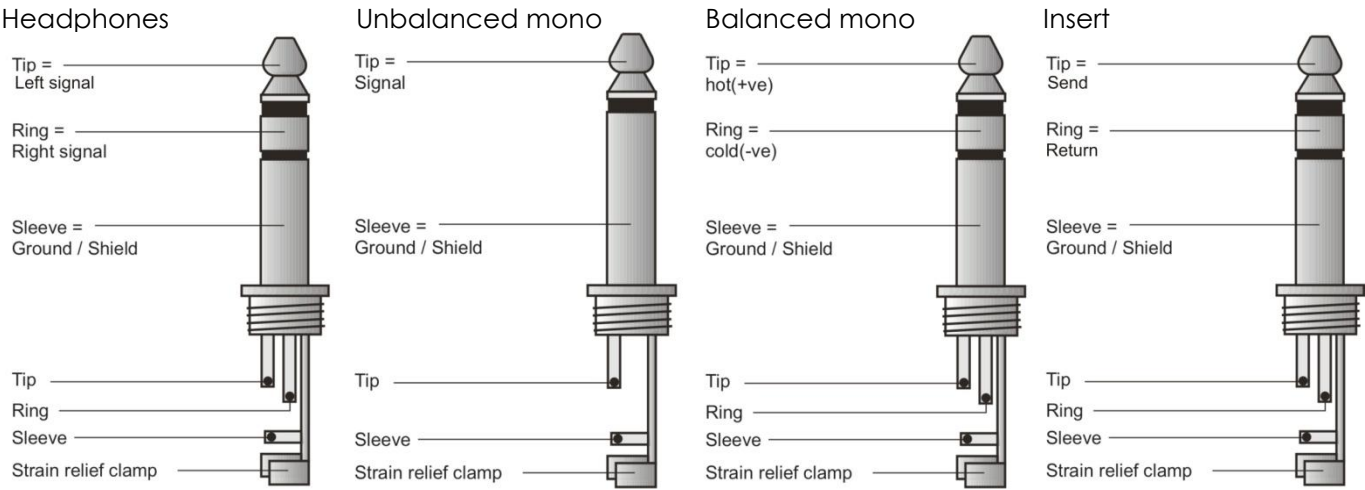
Damages caused by non-observance are not subject to warranty.

Set Up and Operation

Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 240V power, or vice versa. Do not supply power before all components of the system are set up and connected properly.

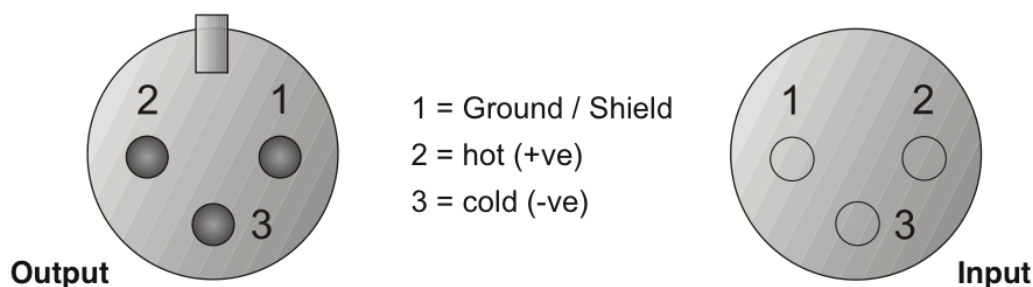
Connection Cables

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

Balanced use with XLR connectors



For unbalanced use PIN 1 and PIN 3 have to be bridged

Maintenance

The RX-12A 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. 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.

Replacing a Fuse

Power surges, short-circuit or inappropriate electrical power supply may cause a fuse to burn out. If the fuse burns out, the product will not function whatsoever. If this happens, follow the directions below to do so.

1. Unplug the unit from electric power source.
2. Insert a flat-head screwdriver into a slot in the fuse cover. Gently pry up the fuse cover.
3. Remove the used fuse. If brown or unclear, it is burned out.
4. Insert the replacement fuse into the holder where the old fuse was. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.

Troubleshooting

Dap Audio RX-12A

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 the power from the wall, the fuse, all cables etc.
3. If all of the above appears to be O.K., plug the unit in again.
4. If you are unable to determine the cause of the problem, do not open the device, as this may Damage the unit and the warranty will become void.
5. Return the device to your Dap Audio dealer.

Product Specifications

Power supply: 230V 50/60Hz
Max. power consumption: 540W
Fuse: T3,15A, 5x20mm

Woofers: 1x PF-1265156B,
12 inch, steel basket, 8 Ohm,
65 mm Voice Coil.

High Driver: PA-34S-1, 8 Ohm,
1 inch, titanium dome,
34 mm Voice Coil

Amplifier Module: B&O ICEpower 125ASX2
Amplifier Output: 450 Watt RMS in 4 Ohm

Input Sensitivity mic: -44dBu
line: 0dBu
Impedance mic: 660Ω
line: 44kΩ balanced/ 22kΩ unbalanced
Freq. Response (-3 dB): 63 – 18,000 Hz
Freq. Range (-10 dB): 47 – 22,000 Hz

Sensitivity (Full Space): 96 dB/W/m
Max SPL at 1 m (Theoretical): 122,5 dB
Nominal Dispersion (H x V): 90° x 50°

Stand adapter socket: 35mm

Dimensions (WxHxD): 422 x 613 x 373mm
Weight: 27,5 kg



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



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