



## MANUAL



ENGLISH

# Antenna Distributor V1

Ordercode: D1444

## Table of contents

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<b>Warning .....</b>	<b>2</b>
Safety Instructions .....	2
Operating Determinations .....	4
Connection with the mains.....	4
Return Procedure.....	5
Claims.....	5
<b>Description of the device.....</b>	<b>6</b>
Frontside.....	6
Backside .....	7
<b>Installation.....</b>	<b>7</b>
<b>Set Up and Operation .....</b>	<b>8</b>
Connection for one antenna splitter .....	8
Connection for multiple antenna Splitters .....	9
<b>Connection Cables .....</b>	<b>10</b>
<b>Maintenance .....</b>	<b>10</b>
Replacing the Fuse .....	11
<b>Troubleshooting .....</b>	<b>11</b>
<b>Product Specifications .....</b>	<b>12</b>

### 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 Audio Antenna Distributor
- IEC power cable (1,5 m)
- User manual



**CAUTION!**  
**Keep this device away from rain and moisture!**  
**Unplug mains lead before opening the housing!**



### 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 higher than required to drive the equipment to full output.
- Only use system indoors, 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 do not use the wrong kind of cables or defective cables.
- Make sure that the signals into the mixer are balanced, otherwise hum could be created.
- Make sure that 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.
- Make sure that the power cord is never crimped or damaged. Check the system and the power cord from time to time.
- Don't put your equipment next to TV, radio, etc., because of interference or distortion.
- If you connect other parts of the system, be careful of ground loops.
- The best way to avoid ground loops is connecting the electrical system ground to one central point ("star" system). In this case the mixer can act as a central point.
- Please read this manual carefully and keep it for future reference. Remember that the amplifier has a better value on the market, if you save the carton and all packing materials.
- Always operate the unit with the AC ground wire connected to the electrical system ground.
- Do not drive the inputs with a signal level bigger, than required to drive the equipment to full output.
- Please turn off the power switch, when changing the power cord or signal cable.
- In typical use, please set the volume at 0dB position.
- Sometimes, when you want to send one signal to more than one amplifier, you should use a signal distributor.
- 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.
- Allow time to cool down, before cleaning or servicing.
- Prevent distortion! Make sure that all components connected to the device have sufficient power ratings. Otherwise distortion will be generated because the components are operated at their limits.
- 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

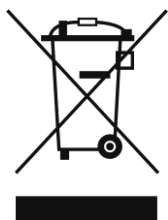
Connect the device to the mains with the power-plug.

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

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	PHASE
N	BLUE	BLACK	SILVER	NEUTRAL
	YELLOW/GREEN	GREEN	GREEN	PROTECTIVE GROUND

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

*Improper installation can cause serious damage to people and property!*



### **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.com](mailto:aftersales@highlite.com) 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:**

- 01) Your name
- 02) Your address
- 03) Your phone number
- 04) 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 Antenna distributor is a full range UHF antenna splitter that routs antenna signals from a pair of antennas to several receivers in a multi-channel system. The antenna splitter also amplifies the RF signals to compensate the loss incurred from splitting signal power. Built in DC power distribution provides 12Vdc for up to four receivers. A single antenna splitter can support up to four wireless receivers. Multiple units can be cascaded for more wireless receivers.

- Frequency range: 470-870MHz
- Provides four 12Vdc power supplies
- Provides 4 antenna outputs
- 90 – 260V switching power
- Advanced circuit design offers signals with extremely low distortion
- RF Output Level (gain): -0,5 to 3dB
- Output connection Isolation:  $\geq 25$ dB
- Third Order Intercept Point: 24dBm
- Impedance: 50 $\Omega$
- Input AC Voltage: 90-260V switching power
- Dimensions: 483 x 250 x 44,5 mm (LxWxH)  
19" x 1HE (LxH)
- Weight: 2,15 Kg

#### System components

- DC cable for receiver connection, 4 pieces
- Antenna cable for receiver and front connection, 10 pieces
- AC-cord
- Front mount antenna hardware

#### Frontside



Fig. 01

- ① **Power on LED**  
Indicates that the unit is turned on.
- ② **Power on switch**  
This is the main Power switch. Press to turn the amplifier on.
- ③ **Antenna mounting holes**  
Use these holes to mount the antenna's at the front.

## Backside

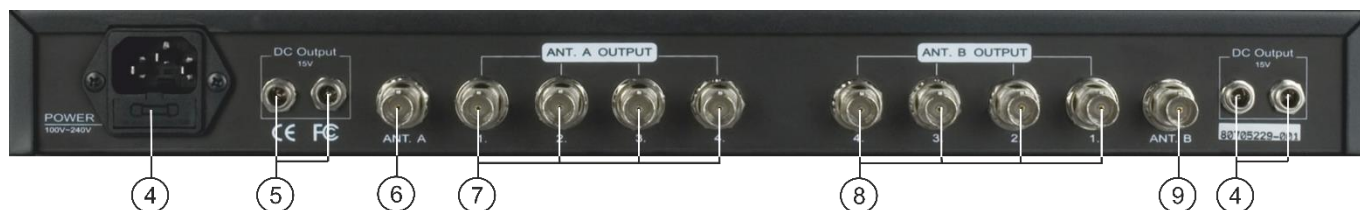


Fig. 02

- ④ **DC-out**  
Supplies 12Vdc for powering up to four receivers.
- ⑤ **IEC Power Inlet and Fuse**  
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 switch (2) 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
- ⑥ **Antenna A in**
- ⑦ **Antenna A out**
- ⑧ **Antena B out**
- ⑨ **Antenna B in**

## Installation

Remove all packing materials from the Antenna Distributor. Check that all foam and plastic padding is removed. Connect all cables.

**Do not supply power before the whole system is set up and connected properly.**

**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

Follow the directions below, as they pertain to your preferred operation mode.  
Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 115V specification product on 230V power, or vice versa.

### Connection for one antenna splitter



Fig. 03

## Connection for multiple antenna splitters

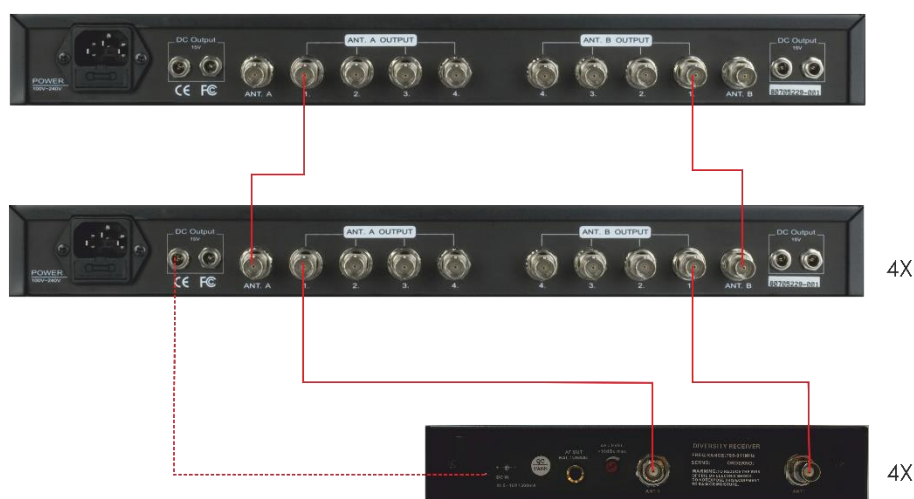
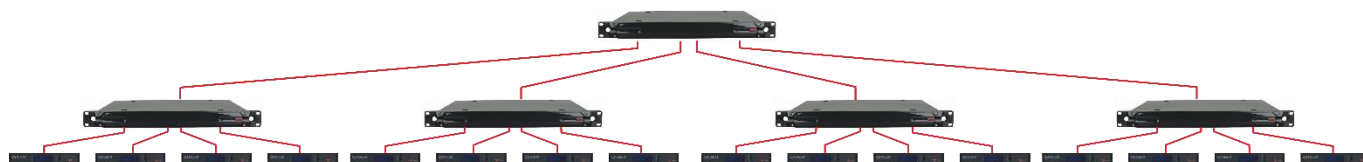
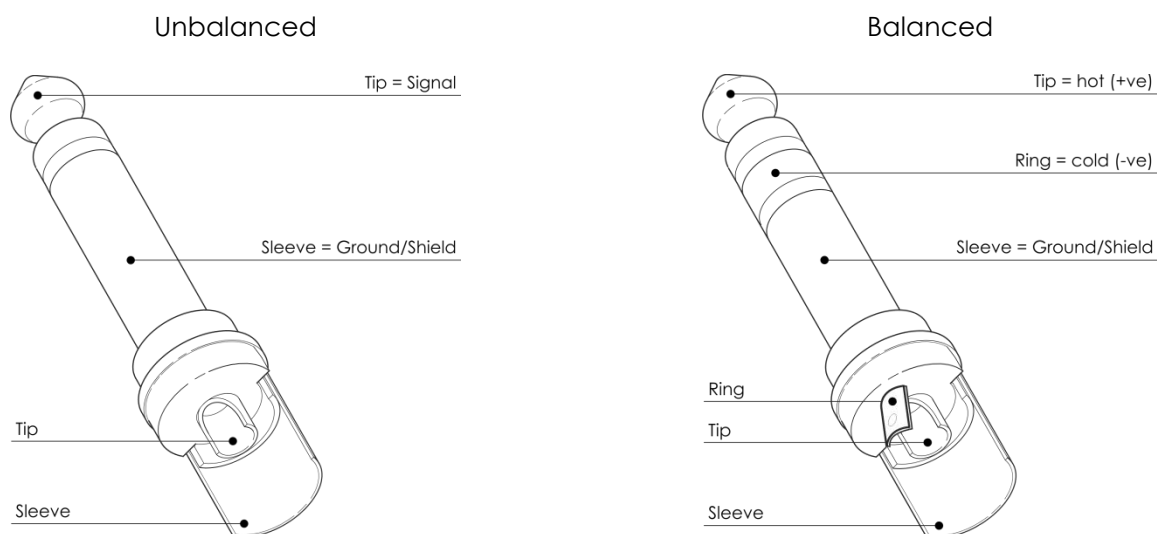


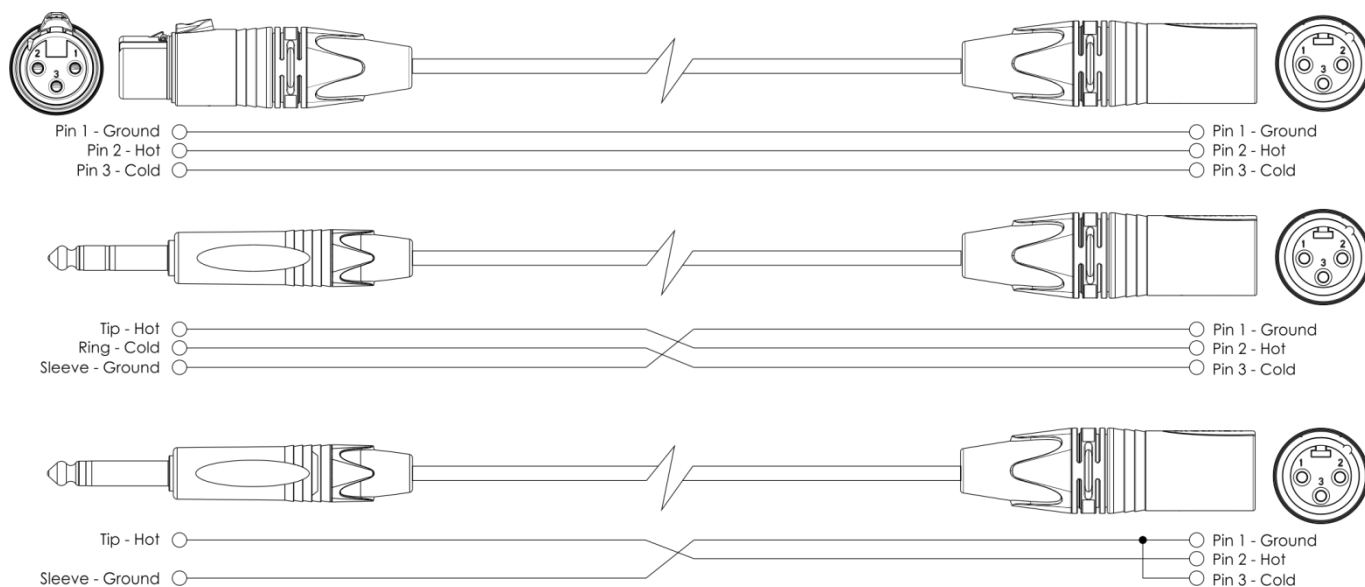
Fig. 04

## 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.



For these applications the unit provides 1/4" TRS and XLR connectors to easily interface with most professional audio devices. Follow the configuration examples below for your particular connection.



## Maintenance

The DAP Audio Antenna Distributor 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.

### Replacing the 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.

- 01) Unplug the unit from electric power source.
- 02) Insert a screwdriver into the slot in the fuse cover. Gently pry up the fuse cover. The fuse will come out.
- 03) Remove the used fuse. If brown or unclear, it is burned out.
- 04) 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

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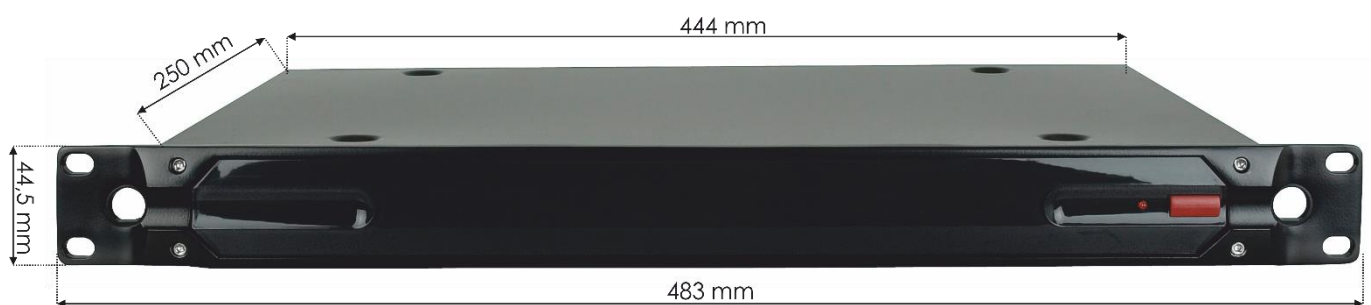
DAP Audio Antenna Distributor

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.

- 01) If the device does not operate properly, unplug the device.
- 02) Check power from the wall, all cables, connections, etc.
- 03) The fuse. Replace the fuse. See page 13 for replacing the fuse.
- 04) If all of the above appears to be O.K., plug the unit in again.
- 05) If you are unable to determine the cause of the problem, do not open the amplifier, as this may damage the unit and the warranty will become void.
- 06) Return the device to your DAP Audio dealer.

## Product Specifications

- Frequency range: 470-870MHz
- Provides four 12Vdc power supplies
- Provides 4 antenna outputs
- 90 – 260V switching power
- Advanced circuit design offers signals with extremely low distortion
- RF Output Level (gain): -0,5 to 3dB
- Output connection Isolation:  $\geq 25$ dB
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- Dimensions: 483 x 250 x 44,5 mm (LxWxH)  
19" x 1HE (LxH)
- Weight: 2,15 Kg



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



Website: [www.Dap-audio.info](http://www.Dap-audio.info)  
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