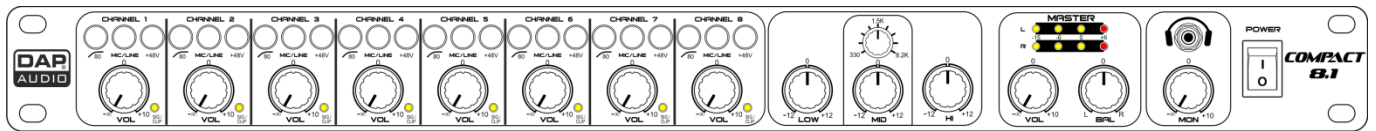




# MANUAL



ENGLISH

# Compact 8.1

Ordercode: D2321

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### 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 Compact 8.1
- Power adapter 2x15Vac 350mA
- 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 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 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 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.
- 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, or select the input mode switch.
- 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 Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	FASE
N	BLUE	BLACK	SILVER	NUL
	YELLOW/GREEN	GREEN	GREEN	EARTH

Make sure that the device is always connected properly to the 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](mailto: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.

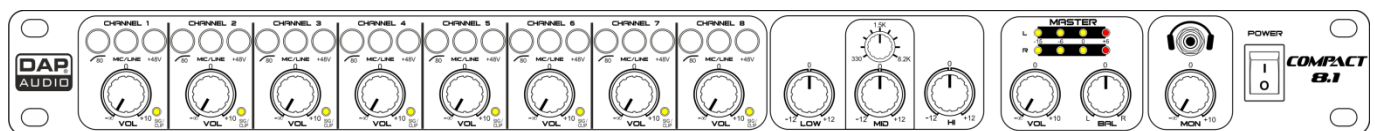
## Description of the device

### Features

8 Channel 1U Mic/Line mixer

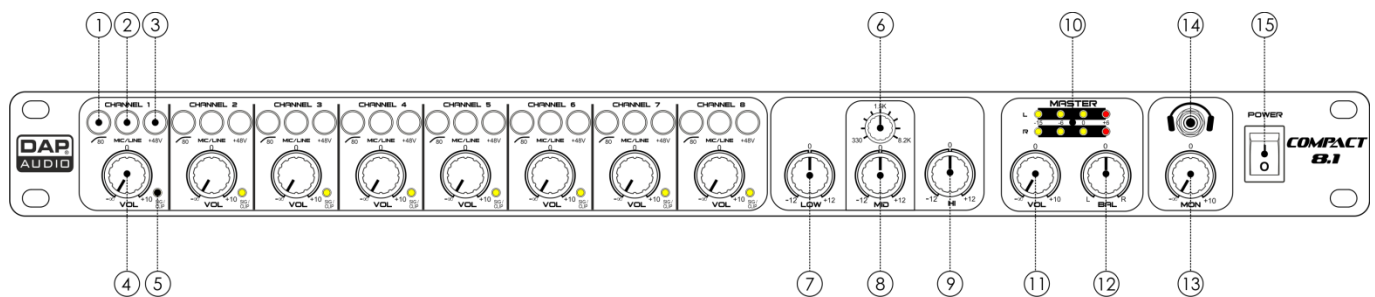
The Compact 8.1 is a high quality 19" 1U microphone line mixer. With some smart features it distinguishes itself from other compact mixers. All inputs can be used for microphone or line level inputs and have high pass filters and phantom power selections for each input separately. The Compact 8.1 has a balanced master output, a record output and a monitor output. The headphones level also influences the monitor output, which makes this an independent extra output for a second area or zone. The main EQ has a mid-frequency sweep, which helps you to eliminate the feedback frequency of your system if you use the Compact 8.1 as a microphone mixer. All channels have signal / clip indicators, which give you a direct overview of your input signals even from a long distance. The Compact 8.1 combines a clear user interface with maximum inputs and smart functionalities on a 1U mixer.

- 8 Combined Mic Line inputs
- EQ with variable mid frequency
- Signal/Clip LED indicators
- Selectable Hi-pass filters



## Overview

### Front Panel



#### 1. Low Cut (Channel 1-8)

Press the LOW CUT switch to activate the high-pass filter which blends out low-frequency noise (80 Hz, 18 dB/octave).

#### 2. Mic/Line (Channel 1-8)

Select the input channel (XLR Microphone / Unbalanced stereo RCA pin jacks).

**Note: When connecting signal sources, please make sure the corresponding channel volume control and the master faders are at their minimum settings. Otherwise unpleasant plug-in noise can occur.**

#### 3. Phantom power (Channel 1-8)

Phantom power is used for operating a capacitor microphone. As a rule, dynamic microphones can still be used with phantom power, provided they are wired in a balanced configuration.

#### 4. Volume control (Channel 1-8)

As part of the main mix the volume control adjusts the level of the channel signal.

#### 5. SIG/CLIP indicator (Channel 1-8)

When a signal on the input channel is detected, the LED turns green. When the LED turns orange, decrease the input level.

#### 6. Frequency control

By using the frequency control, the mid range frequency can be adjusted between 330Hz and 8200Hz.

#### 7. EQ low control

Below 80 Hz the low-frequency range is processed with a shelving filter. You can boost or cut the band up to 12 dB. When in center position (0 dB), the equalizer has a flat response.

#### 8. EQ mid control

The HIGH MID control adjusts the mid frequency range. This is a peak filter, which boosts and cuts the frequency selected with the Frequency control control (6). You can boost or cut the band up to 12 dB. When in center position (0 dB), the equalizer has a flat response.

### 9. EQ high control

Above 12 kHz the high-frequency range is processed with a shelving filter. You can boost or cut the bands up to 12 dB. When in center position (0 dB), the equalizer has a flat response.

### 10. OUTPUT LEVEL

This stereo 4 segments LED meter will indicate the level of the overall output signal.

### 11. MAIN MIX LEVEL

Controls the output level of the main mix.

### 12. BAL CONTROL.

The BAL control determines the position of the stereo main mix.

### 13. Monitor Control

The Monitor control adjusts the volume level of all signals routed to the headphone output.

### 14. PHONES

The PHONES output lets you plug in your headphones.

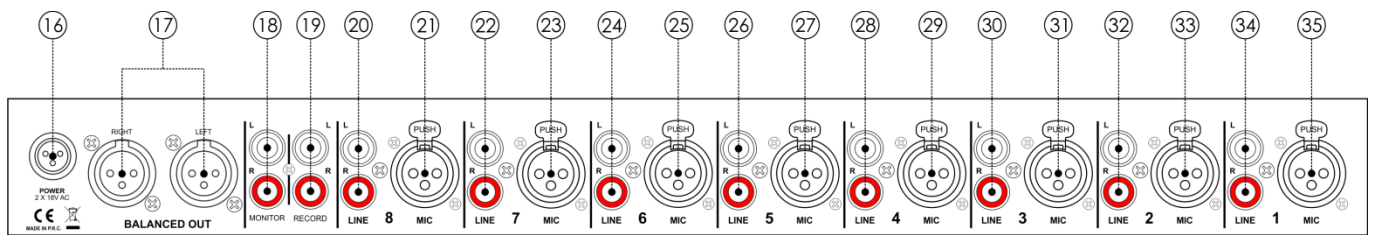
**Caution: Depending on the type of headphones connected to the Headphones jack, the Compact 8.1 is capable of producing high output levels via the phones output. Therefore, make sure to turn the volume control all the way to the left (minimum setting) before connecting the headphones. Be aware of the fact that listening to loud sound pressure levels over a longer period of time leads to hearing damage!**

### 15. POWER ON / OFF

Use the POWER switch to turn on the Compact 8.1. The POWER switch should always be in the "Off" position, when you are about to connect your unit to the mains.



## Rear Panel



### 16. Power adapter connector

This is the remote AC power supply input socket for the Compact 8.1. It is a special three-core socket. Only use the supplied DAP audio adapter.

### 17. Master XLR balanced out connector

Use these outputs to connect an amplifier with balanced inputs.

### 18. Monitor RCA unbalanced out connectors

Use these outputs to connect an amplifier with unbalanced inputs.

### 19. Record A RCA unbalanced out connector

Use these connectors to connect a recording device.

### 20. Channel 8 RCA line input connectors

Use to connect a line level device. You can select the line input with the corresponding Mic/Line input selection (2) switch on the frontpanel.

### 21. Mic 8 balanced input connector

Electronically balanced combo-type input for connecting low impedance microphones. You can select the MIC input with the corresponding Mic/Line **input selection (2)** switch on the frontpanel.

### 22. Channel 7 RCA line input connectors

Use the connectors to connect a line level device. You can select the line input with the corresponding Mic/Line input selection (2) switch on the frontpanel.

### 23. Mic 7 balanced input connector

Electronically balanced combo-type input for connecting low impedance microphones. You can select the MIC input with the corresponding Mic/Line **input selection (2)** switch on the frontpanel.

### 24. Channel 6 RCA line input connectors

Use the connectors to connect a line level device. You can select the line input with the corresponding Mic/Line input selection (2) switch on the frontpanel.

### 25. Mic 6 balanced input connector

Electronically balanced combo-type input for connecting low impedance microphones. You can select the MIC input with the corresponding Mic/Line **input selection (2)** switch on the frontpanel.

### 26. Channel 5 RCA line input connectors

Use the connectors to connect a line level device. You can select the line input with the corresponding Mic/Line input selection (2) switch on the frontpanel.

### 27. Mic 5 balanced input connector

Electronically balanced combo-type input for connecting low impedance microphones. You can select the MIC input with the corresponding Mic/Line **input selection (2)** switch on the frontpanel.

### 28. Channel 4 RCA line input connectors

Use the connectors to connect a line level device. You can select the line input with the corresponding Mic/Line input selection (2) switch on the frontpanel.

### 29. Mic 4 balanced input connector

Electronically balanced combo-type input for connecting low impedance microphones. You can select the MIC input with the corresponding Mic/Line **input selection (2)** switch on the frontpanel.

### 30. Channel 3 RCA line input connectors

Use the connectors to connect a line level device. You can select the line input with the corresponding Mic/Line input selection (2) switch on the frontpanel.

### 31. Mic 3 balanced input connector

Electronically balanced combo-type input for connecting low impedance microphones. You can select the MIC input with the corresponding Mic/Line **input selection (2)** switch on the frontpanel.

### 32. Channel 2 RCA line input connectors

Use the connectors to connect a line level device. You can select the line input with the corresponding Mic/Line input selection (2) switch on the frontpanel.

### 33. Mic 2 balanced input connector

Electronically balanced combo-type input for connecting low impedance microphones. You can select the MIC input with the corresponding Mic/Line **input selection (2)** switch on the frontpanel.

### 34. Channel 1 RCA line input connectors

Use the connectors to connect a line level device. You can select the line input with the corresponding Mic/Line input selection (2) switch on the frontpanel.

### 35. Mic 1 balanced input connector

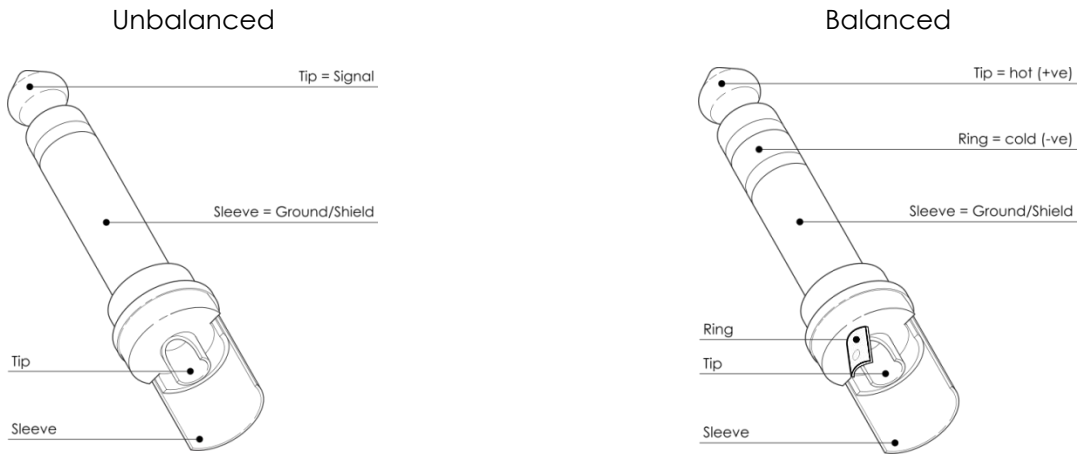
Electronically balanced combo-type input for connecting low impedance microphones. You can select the MIC input with the corresponding Mic/Line **input selection (2)** switch on the frontpanel.

## Set Up and Operation

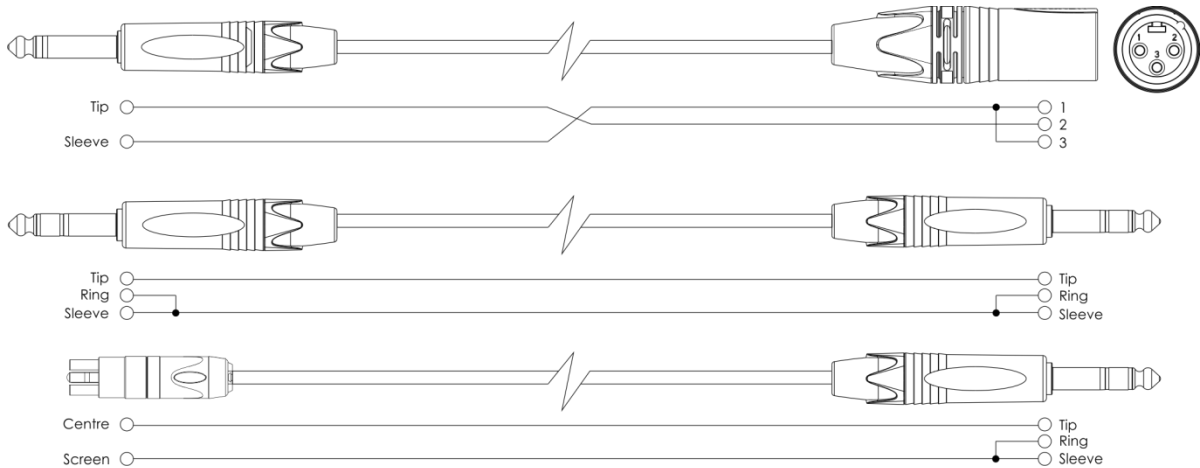
Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 115V specification product on 230V power, or vice versa.

### Connection Cables

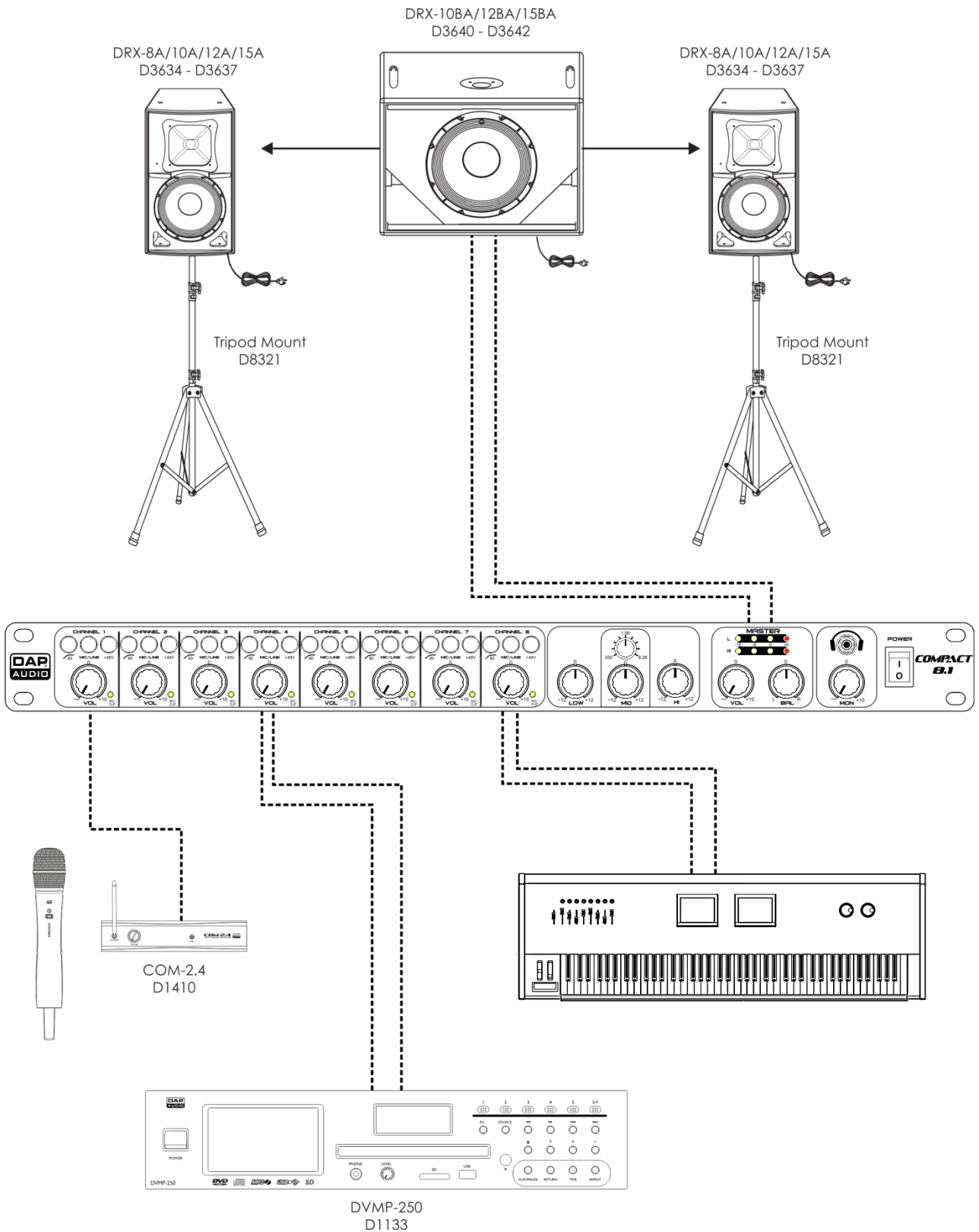
Take care of your cables, always holding them by the connectors and avoiding knots and twists when coiling them: This gives the advantage of increasing their life and reliability. Periodically check your cables. A great number of problems (faulty contacts, ground hum, discharges, etc.) are caused entirely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



Connection Example



### Maintenance

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The DAP Audio Compact 8.1 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

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DAP Audio Compact 8.1

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.

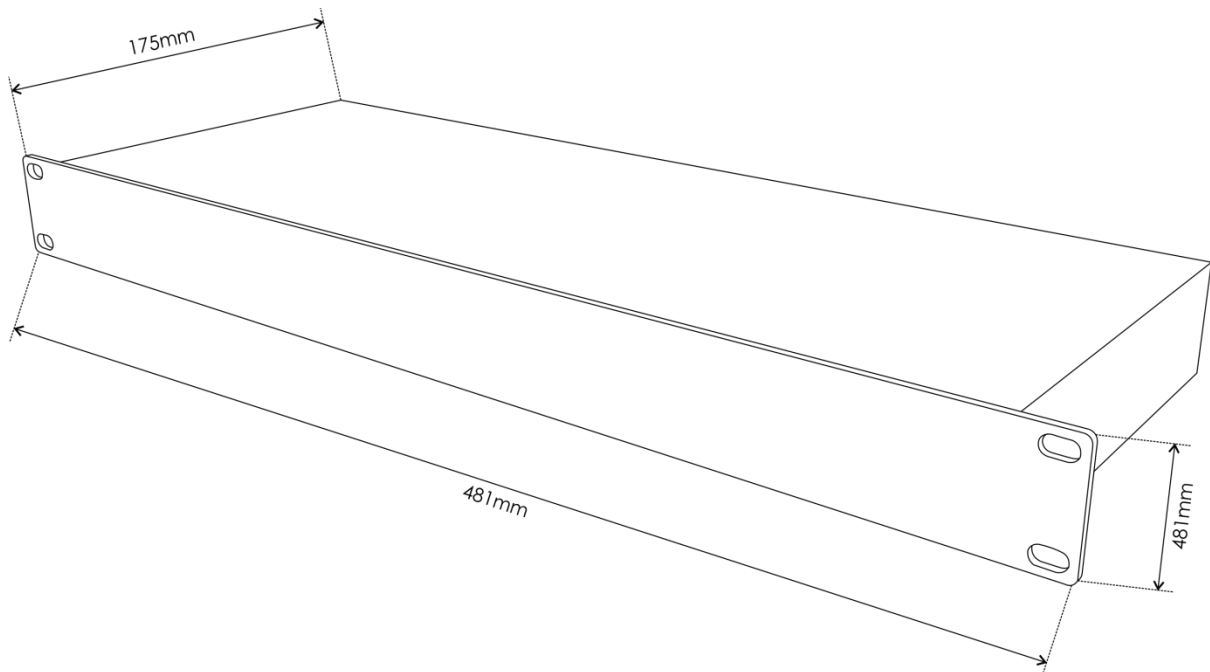
### Product Specifications

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Input channels:	8 x Microphone, combo XLR/Jack 8 x Line, RCA
Output channels:	1 x Master Balanced, XLR 1 x Headphones, 6,3mm TRS Jack
Master EQ:	80Hz, 330-8200Hz, 12KHz, -12dB / +12dB
Frequency response:	20Hz - 20Khz
T.H.D.:	<0.01%
Powersupply:	2x18V AC, 50Hz (Adapter included)
Powerconsumption:	8 Watt
Dimensions:	481x44x175mm (WxHxD)
Weight:	2,2 Kg

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

### Measurements







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