



WCA Pack 863-865MHz

ORDERCODE D1454



Highlite International B.V.

Vestastraat 2
6468 EX Kerkrade
The Netherlands

SHOWELECTRONICS FOR PROFESSIONALS

Congratulations!

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

The DAP Audio WCA Pack 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 Audio WCA Pack™ Product Guide

Warning	3
Unpacking Instructions	3
Safety Instructions	3
Operating Determinations.....	4
Return Procedure	4
Claims	4
Description	5
Overview	5
Receiver.....	6
Transmitter.....	7
Accessories.....	8
Installation	9
Set Up and Operation	9
Power On/Off	9
Channel select	9
Mounting the transmitter to a camera.....	9
Connecting the transmitter to a camera	10
Charging the batteries.....	10
Tips for achieving maximum performance	10
Approval	11
CE Certificate	12
Connection Cables	13
Maintenance	14
Troubleshooting	14
Product Specification	15

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.

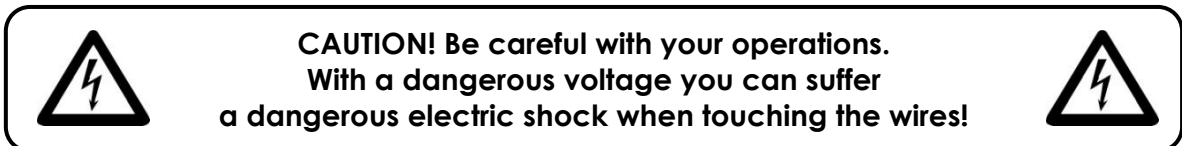
Your shipment includes:

- 1x DAP WCA Pack transmitter
- 1x DAP WCA Pack receiver
- 1x Charger
- 1x AC-adaptor DC12V/500mA
- 1x Shoe mount adapter
- 1x KAC50X camera cable
- 1x KAC150 camera cable
- 1x Omnidirectional Lavalier microphone
- 1x Screwdriver
- 1x User manual

Safety Instructions

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

- be qualified
- follow the instructions of this manual



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 remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never leave any cables lying around.
- 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.
- 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 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.
- Please turn off the power of all equipment before making connections to other devices.
- If system is dropped or struck, disconnect the power adaptor 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.

Operating Determinations

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.

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 device 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

Wireless camera audio system with 16 switchable frequencies in a frequency range of 863-865MHz. The WCA pack is a complete set which includes an audio transmitter, receiver, xlr/mini-jack and mini-jack/mini-jack cables, a shoe mount adapter, Lavalier microphone and a docking charger. The transmitter can be used to connect a microphone or line signal but also has a built-in microphone with volume control. The included Lavalier has an omni-directional pick up pattern with an excellent sound quality. Both receiver and transmitter are powered by a 3.7V lithium ion battery which can operate for 10 hours. The maximum distance between transmitter and receiver is 30 meters. It's a plug and play system. You only have to select the same frequency on both transmitter and receiver and you are ready to go. An optional wireless handheld condenser microphone is available, order code D1455.

Note: This set has 16 switchable channels, it is possible to use a maximum of 4 sets together on one stage due to the bandwidth of each channel. You have to take care while setting up the channels for each set in such a way, that each set should be separated by at least 4 channels of another set. For more info, see **Channel select** on page 9.

- Complete set including Lavalier mic
- 16 switchable frequencies
- 10 Hours operation, max distance 30m
- 863-865 Mhz can be used in many countries

Overview



Fig. 1

Receiver

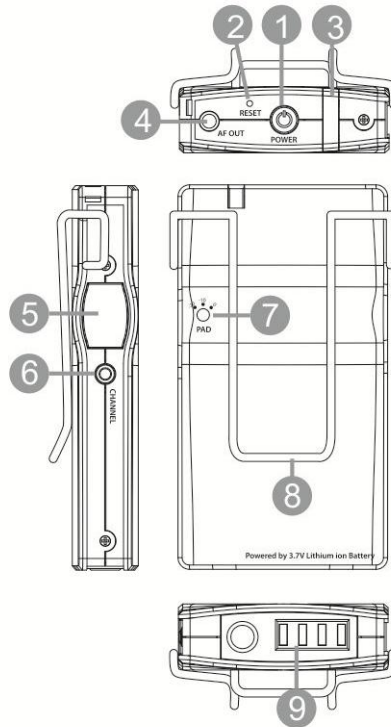


Fig. 2

1) Power switch

Pushing the button switches the transmitter on, the **power on (12)** LED lights up green. Pushing and holding the button for three seconds will turn the transmitter off, the **power on (12)** LED will dim.

2) Reset button

Pushing the reset button, using a pen or small pin, allows you to restore the default factory settings.

3) Power LED

Indicates the status of the transmitter. Lights up continuously when switched on, dims when switched off and lights up red to indicate a weak battery.

4) AF output

Unbalanced stereo 3,5mm jack. This output provides no real stereo input but splits the mono signal from the receiver so you can connect receiver to a stereo device using a stereo cable.

5) LED display

The LED displays indicates the channel number during channel setup. If there is no action for 9 seconds, the display will turn off.

6) Channel button

Push and hold the button for 3 seconds. Now the point in the display will start blinking. Tapping the button allows you to set the receiving channel. As the button is released for at least 6 seconds, the channel will be stored. Be aware that when you several WCA Pack systems at the same stage, that the channels should be separated by at least 4 channels.

7) Pad switch

Allows you to set the level of the **AF output (9)** at -20dB, -10dB or 0 dB. Use a small screwdriver (included) to adjust the output attenuation.

8) Belt clip

9) Charge connector

Transmitter

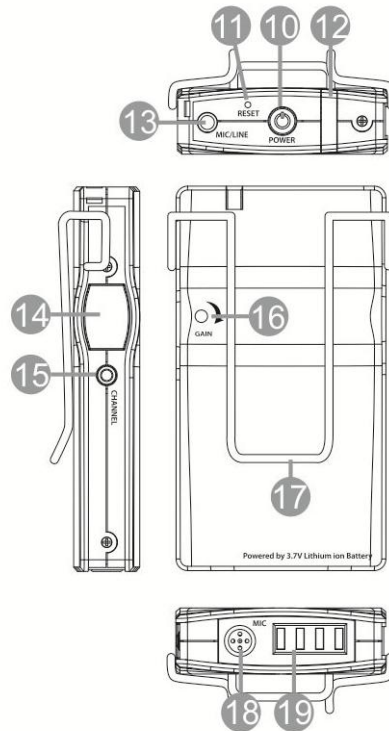


Fig. 3

10) Power On/ Mute/ Off switch

Pushing the button switches the transmitter on, the **power on (12)** LED lights up green. Pushing and holding the button for three seconds will turn the transmitter off, the **power on (12)** LED will dim.

11) Reset button

12) Power on LED

Indicates the status of the transmitter. Lights up continuously when switched on, dims when switched off and lights up red to indicate a weak battery.

13) Mic/line input

Unbalanced mono 3,5mm jack input. The input is **not** able to provide phantom power!

14) Input gain trimmer

Use a small screwdriver (included) to adjust the input level.

15) Channel button

Push and hold the button for 3 seconds. Now the point in the display will start blinking. Tapping the button allows you to set the receiving channel. As the button is released for at least 6 seconds, the channel will be stored. Be aware that when you several WCA Pack systems at the same stage, that the channels should be separated by at least 4 channels.

16) Input gain trimmer

Use a small screwdriver (included) to adjust the input level.

17) Belt clip

18) Built in microphone

19) Charge connector

Accessories

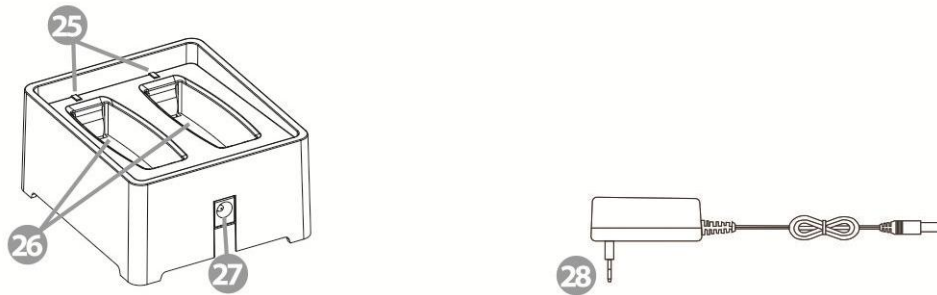


Fig. 4

25) Charging LED

Indicates the status of the battery charger.

26) Charging slot

27) DC input connector

Use the supplied **AC adapter (28)** only.

28) AC adapter

DC 12V 500mA adapter

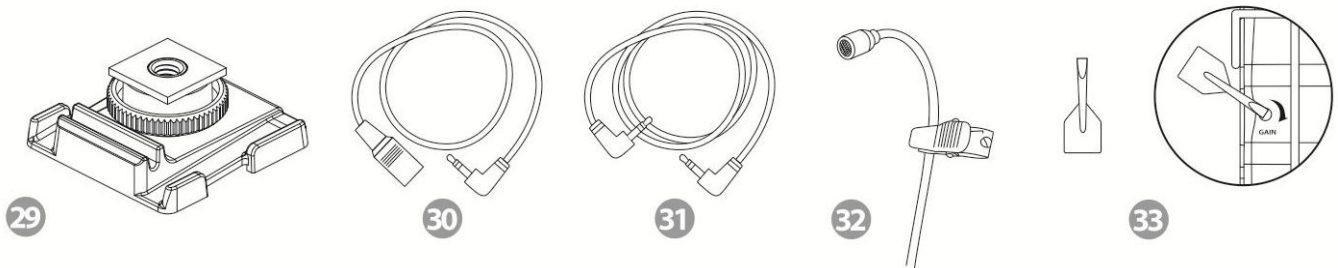


Fig. 5

29) Shoe mount adapter

30) KAC50X camera cable

31) KAC150 camera cable

32) Omnidirectional Lavalier microphone

28) Screwdriver

Installation

Remove all packing materials from the WCA Pack. 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

Power On/Off

1. Power on: Push the **power (1)** button to turn on the power. The **power indicator (3)** will light green.
2. Power off: Push and hold the **power (1)** button for 3 seconds to turn off the power.

Note: The power indicator will light green in normal operation. In case of a weak battery, the power indicator will light red.

Channel select

Push and hold the **channel (6, 15)** button for about 3 seconds. The decimal point in the **display (5, 14)** will start blinking. Now you are able to change the channel by pushing the **channel (6, 15)** button.

Be aware that when you several WCA Pack systems at the same stage, that the channels should be separated by at least 4 channels. When using 4 WCA Pack systems, you could use following settings:

WPS	Channel	WPS	Channel	WPS	Channel	WPS	Channel	WPS	Channel
1	0	1	1	1	2	1	3	1	4
2	4	2	5	2	6	2	7	2	8
3	8	3	9	3	10	3	11	3	12
4	12	4	13	4	14	4	15	4	16

Notes:

- Make sure, the channel of the transmitter matches that of the receiver.
- The display (5, 14) will stop blinking if there is no button pushed for 6 seconds. The actual channel will be stored. If there is no action for 9 seconds, the display will turn off.

Mounting the transmitter to a camera

Use the **shoe mount adapter (29)** to mount the transmitter to the camera's flash mount.

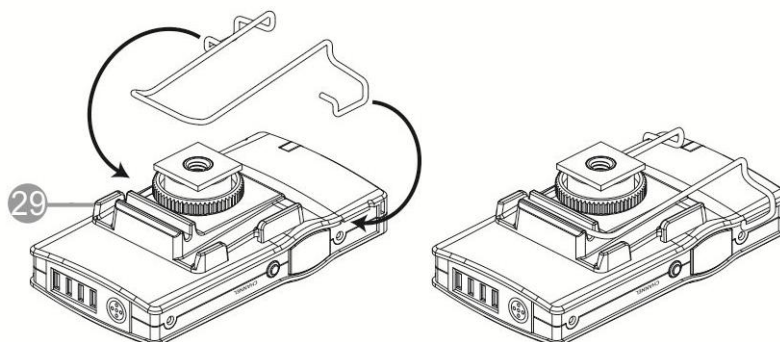


Fig. 6

Connecting the transmitter to a camera

Connect the 3,5 mm jack of the KAC50X camera cable into the **AF out (13)** and connect the XLR plug to the camera.

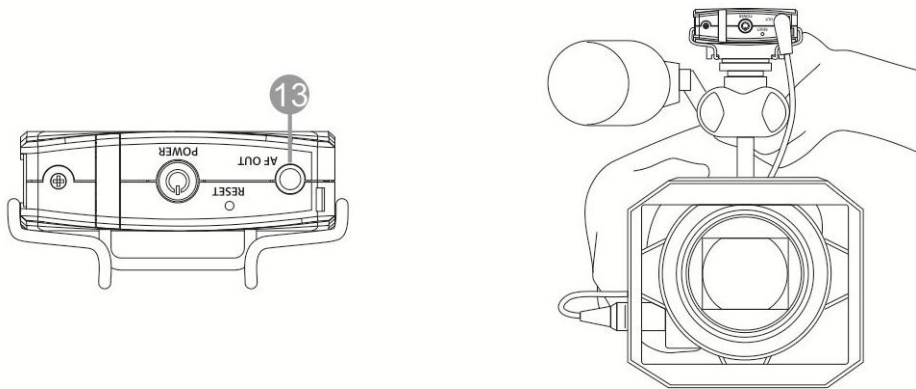


Fig. 7

Charging the batteries

Place the receiver and transmitter in a free **charging slot (25)** of the battery charger. The corresponding **charging (26) LED** will flash for a few seconds for initial testing and then light continuously while charging. The **charging (26) LED** will dim if the corresponding battery is fully charged.

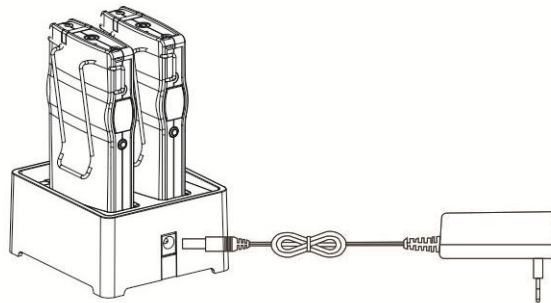


Fig. 8

Tips for achieving maximum performance

- Make sure you can always see a receiver from the transmitter position.
- Keep the distance from transmitter to receiver as short as possible.
- Avoid placing the receiver near metal surfaces and obstructions.
- Replace battery as soon as the **power indicator (3, 12) LED** of the transmitter or the receiver lights red.
- Perform a walk-through before performance or presentation. If dead spots are found, adjust the location of the receiver. If dead spots remain, mark the dead spots and avoid them.

Approval

The DAP D1454 is a Class II wireless device.

Frequency: 863 – 865MHz. For use in:

Austria, Belgium, Czech Republic, Denmark, France, Germany, Hungary, Italy, Luxemburg, Netherlands, Poland, Portugal, Romania, Slovakia, Sweden, Switzerland, Turkey, United Kingdom.

Exclusion of liability

The frequency tables in this publication are made according to national laws and regulations. The frequencies are checked on a regular basis. We don't take any responsibility for eventual discrepancies between our listed frequencies and the frequencies actually approved in a given country. We strongly suggest you to inform in your own country or region for any changes or adaptations regarding the allowed frequencies.

Be aware that in some countries, you are only allowed to partly use the frequency range of the device. Therefore, we strongly advise you to consult your authority as listed below:

Telecoms & Postal Regulatory Authorities in Europe

Austria Rundfunk und Telekom Regulierungs-GmbH	www.rtr.at
Belgium Belgian Institute of postal services and telecommunications (BIPT)	www.bipt.be
Czech Republic Czech Telecommunication Office	www.ctu.cz
Denmark National Telecom Agency	www.tst.dk
Finnland Finnish Communications Regulatory Authority (FICORA)	www.ficora.fi
France Autorité de Régulation des Télécommunications (ART)	www.art-telecom.fr
Germany Die Bundesnetzagentur B	www.bundesnetzagentur.de
Greece National Telecommunications Commission (EET)	www.eett.gr
Hungary Communication Authority (HIF)	www.hif.hu
Iceland Post and Telecom Administration (PTA)	www.pta.is
Ireland Commission for Communications Regulation (ComReg)	www.comreg.ie
Italy Italian Communications Authority (AGC)	www.agcom.it
Latvia Telecommunication State Inspection	www.vei.lv
Liechtenstein Office for Communications (AK)	www.ak.li
Lithuania Radio Administration	www.rrt.lt
Luxembourg Institut Luxembourgeois des Télécommunications (ILT)	www.etat.lu/ILT
Netherlands Onafhankelijke Post en Telecommunicatie Autoriteit (OPTA)	www.opta.nl
Agentschap Telecom	www.agentschap-telecom.nl
Ministry of Economic Affairs	www.ez.nl
Norway Norwegian Post and Telecommunications Authority (NPT)	www.npt.no
Poland Urząd Regulacji Telekomunikacji (URT)	www.urt.gov.pl
Portugal Autoridade Nacional De Comunicações (ICP-Anacom)	www.anacom.pt
Slovenia Agencija za telekomunikacije, radiodifuzijo in pošto	www.atrp.si



DECLARATION OF CONFORMITY

Supplier Details

Name

Highlite International BV

Address

Vestastraat 2
6468EX Kerkrade
The Netherlands

Product Details

Product Name

WCA Pack 863-865Mhz Wireless camera audio system

Ordercode

D1454

Trade Name

DAP AUDIO

Applicable Standards Details

R&TTE Directive : 1999/5/EC

Radio Spectrum Matter: EN 300 422-2 V1.2.2:2008-3

Emmission/Immunity: EN 301 489-1 V1.8.1:2008-04
EN 301 489-9 V1.4.1:2007-11

Safety Directive : 2001/95/EC

EN 60065:2002+A1:2006

Supplementary Information

The conformity to above standards is verified by ETC.

Declaration

I hereby declare under our sole responsibility that the product mentioned above to which this declaration relates complies with the above mentioned standards and Directives

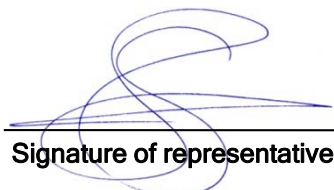
Name

S. ildiz

Issued Date

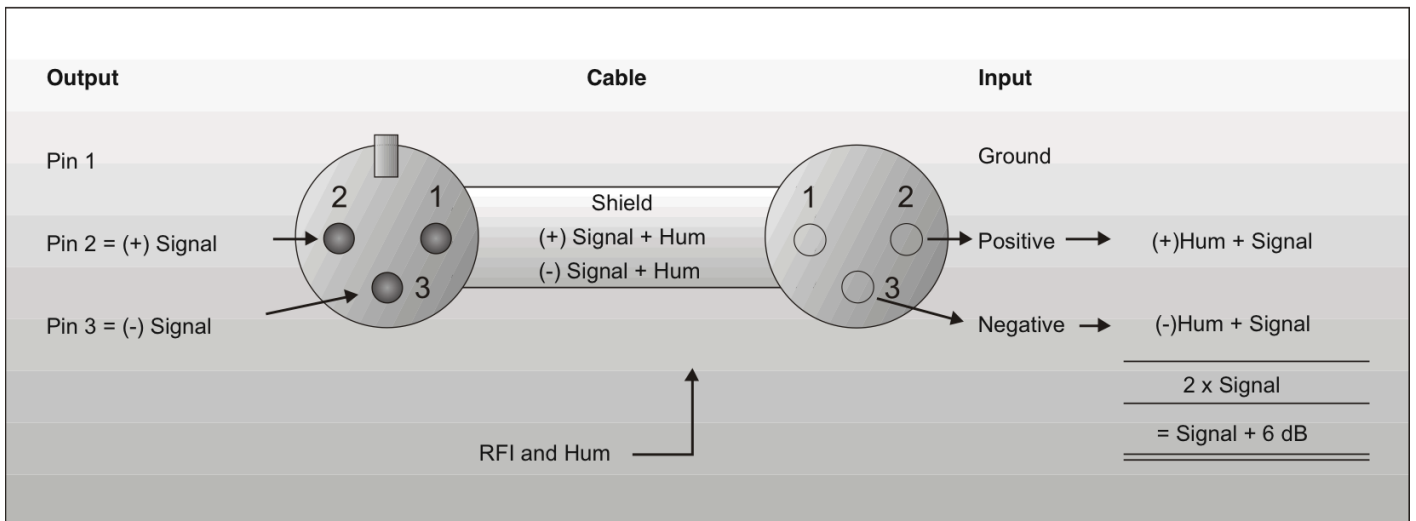
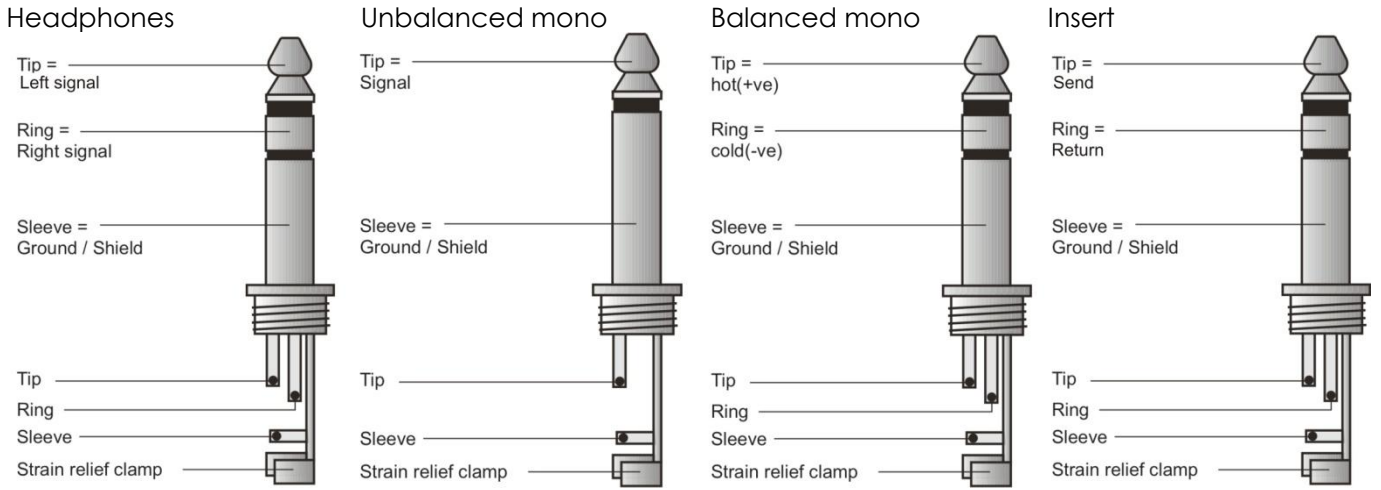
March 03, 2009

Highlite International BV.
Vestastraat 2, 6468 EX Kerkrade,
The Netherlands


Signature of representative

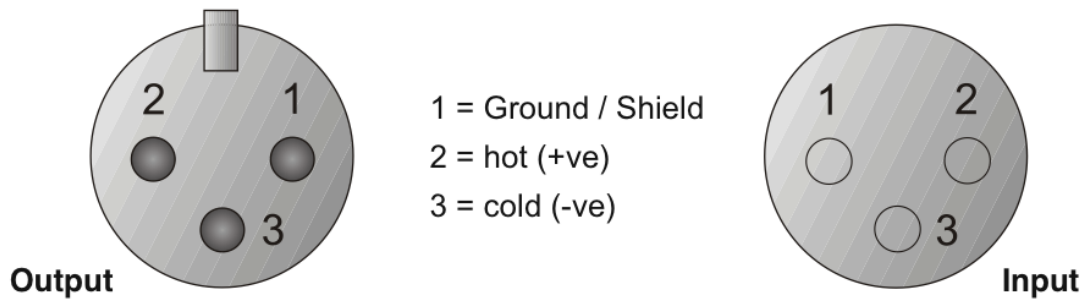
Connection Cables

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 DAP Audio WCA Pack 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 Audio WCA Pack

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 Specification

Model: DAP Audio WCA Pack

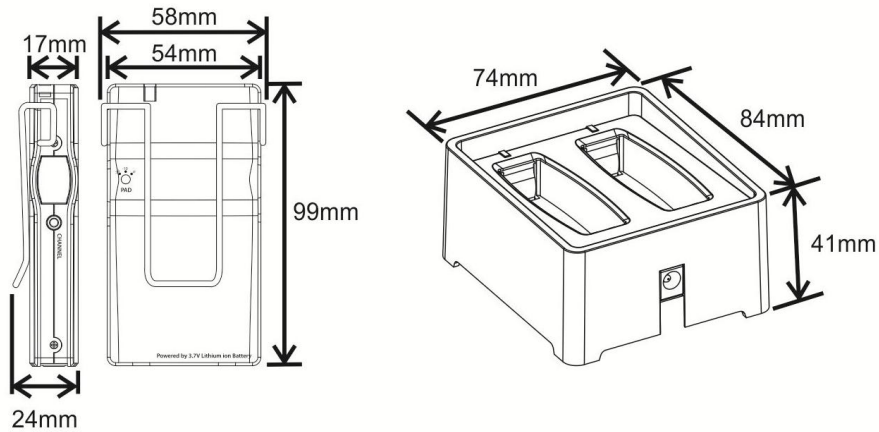
Frequency preparation: PLL Synthesized Control
Frequency range: 863-865 MHz

Transmitter
RF Output: Maximum 10mW
Display: Channel
Controls: Power On/Off, Gain, Channel select
Frequency response: 40-18.000 Hz
Internal microphone: Omni-directional condenser
Input connector: 3,5mm Jack
Battery: Lithium cell 3,7V 1300mAh
Dimensions: 99 x 17 x 54 (DxHxW)
Weight: 0,08 Kg

Receiver
Display: Channel
Controls: Power On/Off, channel select, PAD, Channel select
PAD: -20dB, -10dB, 0dB
Output connector: 3,5mm Jack
Battery: Lithium cell 3,7V 1300mAh
Dimensions: 99 x 17 x 54 (DxHxW)
Weight: 0,08 Kg

Lavalier
Frequency response: 60-15.000 Hz
Pattern: Omni directional
Type: Condenser
Impedance: 2,2 KOhm
Max spl: 130dB

Charger
Power supply: 12V, 500mA
Dimensions: 84 x 41 x 74 (DxHxW)



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



Website: www.Dap-audio.info
Email: service@highlite.nl



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