



# MANUAL



**ENGLISH**

**EB-16 Wireless PLL 614-638 MHz / 740-764MHz / 822-846 V3**

**Ordercode: D143261 / D143273 / D143282**

**Table of contents**

---

**Warning** .....2  
    Unpacking Instructions.....2  
    Safety Instructions .....2  
    Operating Determinations .....3  
    Return Procedure.....4  
    Claims.....4

**Description of the device**.....5  
    Features .....5  
    Overview .....5

**Installation**.....5

**Set Up and Operation** .....6  
    Names and Functions .....6  
    Altering the settings .....6  
    Tips for achieving maximum performance.....7

**Approval** .....7  
    Exclusion of liability .....7

**CE Certificate** .....8

**Maintenance** .....11

**Troubleshooting** .....11

**Product Specifications**.....12

**Dimensions**.....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 EB-16 Wireless PLL
- Pouch
- Screwdriver
- 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 the 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 leave any cables lying around.
- 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 indoors, avoid contact with water or other liquids.
- Avoid flames and do not put close to flammable liquids or gases.
- 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 you use DI boxes to balance unbalanced signals; All incoming signals should be clear.
- Please turn off the power switch, when changing the microphone or select another channel.
- 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 device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.
- The relative humidity must not exceed 50 % with an ambient temperature of 40° C.
- If this device 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, crash etc.

You endanger your own safety and the safety of others!





### 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:**

- 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

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The EB-16 is a wireless PLL belt-pack-transmitter with 16 fixed frequencies. There are two types ranges available:

D143261, frequency range 614 – 638MHz

D143273, frequency range 740 – 764MHz

D143182, frequency range 822 – 846MHz

### Features

- 16 switchable frequencies
- Compatible with lavalier and headset microphones
- Powered by AA batteries
- Equipped with 4P mini XLR connector
- Pouch included

### Overview



Fig. 01

### Installation

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Remove all packing materials from the EB-16. Check that all foam and plastic padding is removed.

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

## Set Up and Operation

Before turning the EB-16 on, always make sure that the frequency range is allowed in your country.

### Names and Functions



01



02



03

- 01) Open the battery compartment.
- 02) Put 2 batteries (2x Battery UM3, AA1.5V) in the holder. Pay attention to the polarity of the batteries and put the batteries correctly in the battery compartment. Close the battery compartment again.
- 03) Set the switch on top in the ON position. The LED will light green if the unit is working correctly. If the LED lights up red, you need to change the batteries.

### Altering the settings



- 01) To alter the channel setting, please rotate the channel switch, using the supplied screwdriver.



- 02) To alter the Gain adjustment, please turn the trimmer using the supplied screwdriver.

### Tips for achieving maximum performance.

- Make sure you can always see a receiver antenna from the transmitter position.
- Keep the distance from transmitter to receiver antenna as short as possible.
- Point the receiver antennas away from each other at 45 degrees angle from vertical position.
- Avoid placing the receiver antennas near metal surfaces and obstructions.
- Replace battery as soon as low battery LED lights.
- If stacking or rack mounting receivers in a multiple system setup. Do not allow antennas to cross.
- 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 D143261, D143273 and the D143282 are Class II wireless devices.

D143261: 614-638MHz for use in:	Austria, Belgium, Denmark, France, Germany, Italy, Luxemburg, Netherlands, Poland, Sweden, Switzerland, Turkey.
D143273: 740-764MHz for use in:	Austria, Belgium, Denmark, France, Luxemburg, Netherlands, Poland, Sweden, Switzerland, Turkey.
D143282: 822-846 MHz for use in:	France, Luxemburg, Poland, Turkey.

### 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 or use the frequency range of the device as a secondary user. If your country is not listed above it is still possible that there are exceptions. Therefore, we strongly advise you to consult your local authority as listed below:**

#### Telecoms & Postal Regulatory Authorities in Europe

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





# DECLARATION OF CONFORMITY

## Supplier Details

### Name

Highlite International BV

### Address

Vestastraat 2  
6468EX Kerkrade  
The Netherlands

## Product Details

### Product Name

EB-16B Wireless PLL 614-638MHz

### Ordercode

D143261B

### Trade Name

DAP AUDIO

## Applicable Standards Details

### R&TTE Directive : 1999/5/EC

Radio Spectrum Matter: EN 300 422-2 V1.2.2 (2008-03)

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

### Low voltage Directive : 2006/95/EC

EN 60065:2002+A1:2006+A11: 2008

# CE 1856 !

## Supplementary Information

The conformity to above standards is verified by TÜV Rheinland EPS B.V.

## Declaration

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

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

Name

H. De la Haye / Director

Issued Date

Oct. 13, 2010

Signature of representative



# DECLARATION OF CONFORMITY

## Supplier Details

### Name

Highlite International BV

### Address

Vestastraat 2  
6468EX Kerkrade  
The Netherlands

## Product Details

### Product Name

EB-16 Wireless PLL 740-764MHz

### Order code

D143273

### Trade Name

DAP AUDIO

## Applicable Standards Details

### R&TTE Directive : 1999/5/EC

Radio Spectrum Matter: EN 300 422-2 V1.2.2 (2008-03)

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

### Low voltage Directive : 2006/95/EC

EN 60065:2002+A1:2006+A11: 2008

**CE 1856**

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Signature of representative



# DECLARATION OF CONFORMITY

## Supplier Details

### Name

Highlite International BV

### Address

Vestastraat 2  
6468EX Kerkrade  
The Netherlands

## Product Details

### Product Name

EB-16 Wireless PLL 822-846

### Ordercode

D143282

### Trade Name

DAP AUDIO

## Applicable Standards Details

### R&TTE Directive : 1999/5/EC

Radio Spectrum Matter: EN 300 422-2 V1.2.2 (2008-03)

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

### Low voltage Directive : 2006/95/EC

EN 60065:2002+A1:2006+A11: 2008

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### Maintenance

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The DAP Audio EB-16 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 EB-16

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) If all of the above appears to be O.K., plug the unit in again.
- 04) If nothing happens after 30 seconds, unplug the device.
- 05) Return the device to your DAP Audio dealer.

## Product Specifications

Model	DAP Audio EB-16
Frequency Preparation	Crystal
Carrier Frequency Range	502-960 MHz
RF Output	10 mW
Stability	±0.005%
Frequency Deviation	±48 kHz
Controls	Power On/Off, AF gain
Spurious Rejection	< -60 dBC
Audio Freq. Response	50Hz – 16kHz
Phantom Power	5Vdc (pin 2)
	16 switchable frequencies
	Compatible with lavalier and headset microphones
	Equipped with 4P mini XLR connector
	Pouch included
Battery	2x UM3, AA 1.5V
Dimensions	114 x 68 x 25 mm (LxWxH)
Weight	1,08 Kg

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



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

Email: [service@highlite.nl](mailto:service@highlite.nl)

## Dimensions







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