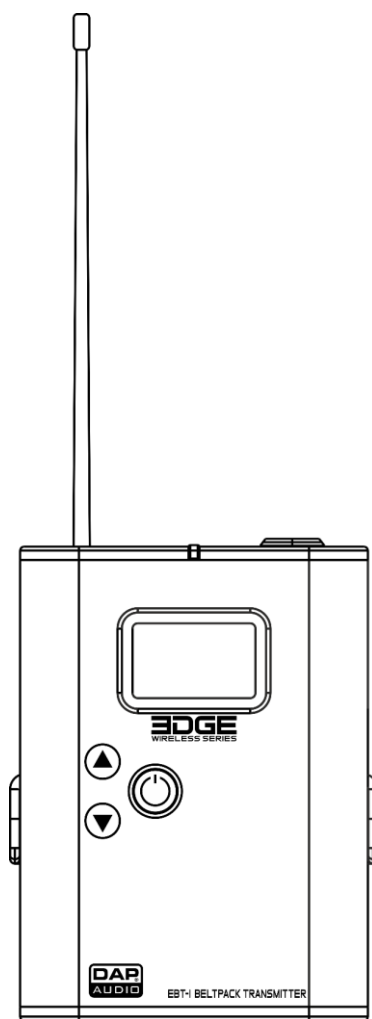




USER MANUAL



ENGLISH

EDGE EBT-1

V2

Product code: D1478B

Preface

Thank you for purchasing this DAP product.

The purpose of this user manual is to provide instructions for the correct and safe use of this product.

Keep the user manual for future reference as it is an integral part of the product. The user manual shall be stored at an easily accessible location.

This user manual contains information concerning:

- Safety instructions
- Installation and operation of the device
- Intended and non-intended use of the device
- Maintenance procedures
- Troubleshooting
- Transport, storage and disposal of the device

Non-observance of the instructions in this user manual may result in serious injuries and damage of property.

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1. Introduction

1.1. Before Using the Product

**Important**

Read and follow the instructions in this user manual before installing, operating or servicing this product.

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

After unpacking, check the contents of the box. If any parts are missing or damaged, contact your Highlite International dealer.

Your shipment includes:

- DAP EDGE EBT-1
- User manual

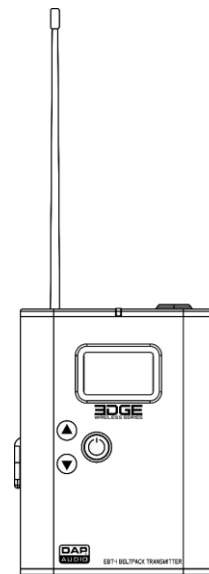


Fig. 01

1.2. Intended Use

This device is intended for use as a bodypack wireless transmitter. It is suitable for indoor use.

Any other use, not mentioned under intended use, is regarded as non-intended and incorrect use.

1.3. Product Lifespan

This device is not designed for permanent operation. Turn the device off when the device is not in operation. This will reduce the wear and will improve the device's lifespan.

1.4. Text Conventions

Throughout the user manual the following text conventions are used:

- Buttons: All buttons are in bold lettering, for example "Press the **UP/DOWN** buttons"
- References: References to chapters and parts of the device are in bold lettering, for example: "Refer to **2. Safety**", "press the **power switch (03)**"
- 0–255: Defines a range of values
- Notes: **Note:** (in bold lettering) is followed by useful information or tips

1.5. Symbols and Signal Words

Safety notes and warnings are indicated throughout the user manual by safety signs.

Always follow the instructions provided in this user manual.



DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

Indicates an imminently hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.



Attention

Indicates important information for the correct operation and use of the product.



Important

Read and observe the instructions in this document.



Provides important information about the disposal of this product.

1.6. Symbols on the Information Label

This product is provided with an information label. The information label is located on the bottom plate of the device.

The information label contains the following symbols:



This device shall not be treated as household waste.

2. Safety

**Important**

Read and follow the instructions in this user manual before installing, operating or servicing this product.

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

2.1. Warnings and Safety Instructions

**DANGER**

Danger for children

For adult use only. The device must be installed beyond the reach of children.

- Do not leave various parts of the packaging (plastic bags, polystyrene foam, nails, etc.) within children's reach. Packaging material is a potential source of danger for children.

**Attention**

General safety

- Do not shake the device. Avoid brute force when installing or operating the device.
- If the device is exposed to extreme temperature variations (e.g. after transportation), do not switch it on immediately. Let the device reach room temperature before switching it on, otherwise it may be damaged by the formed condensation.

**Attention**

This device shall be used only for the purposes it is designed for.

This device is intended for use as a bodypack wireless transmitter. Any incorrect use may lead to hazardous situations and result in injuries and material damage.

- This device is not designed for permanent operation.
- This device does not contain user-serviceable parts. Unauthorized modifications to the device will render the warranty void. Such modifications may result in injuries and material damage.

**Attention**

Do not expose the device to conditions that exceed the rated IP class conditions.

This device is IP20 rated. IP (Ingress Protection) 20 class provides protection against solid objects greater than 12 mm, such as fingers, and no protection against harmful ingress of water.

2.2. Requirements for the User

This product may be used by ordinary persons. Maintenance and installation may be carried by ordinary persons. Service shall be carried out only by instructed or skilled persons. Contact your Highlite International dealer for more information.

Instructed persons have been instructed and trained by a skilled person, or are supervised by a skilled person, for specific tasks and work activities associated with the service of this product, so that they can identify risks and take precautions to avoid them.

Skilled persons have training or experience, which enables them to recognize risks and to avoid hazards associated with the service of this product.

Ordinary persons are all persons other than instructed persons and skilled persons. Ordinary persons include not only users of the product but also any other persons that may have access to the device or who may be in the vicinity of the device.

3. Description of the Device

The DAP EDGE EBT-1 is a bodypack wireless transmitter that can be used with the EDGE receiver, condenser microphones and musical instruments. The device is powered by 2 x AA LR6 (alkaline) batteries (not included).

3.1. Front View

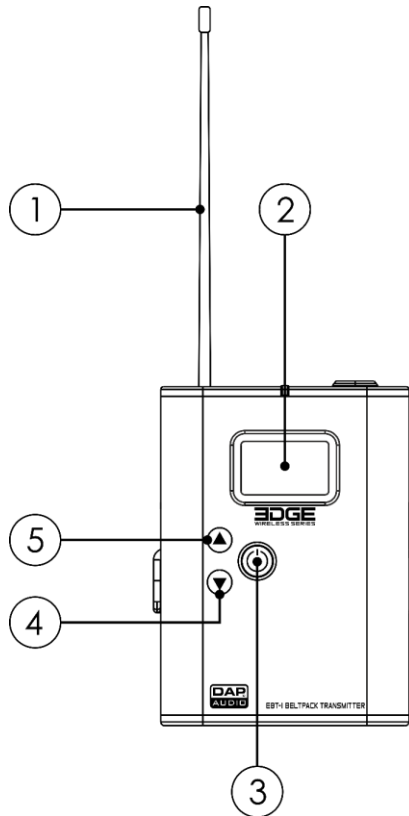


Fig. 02

- 01) Antenna
- 02) OLED display
- 03) Power button (on/off)

3.2. Back View

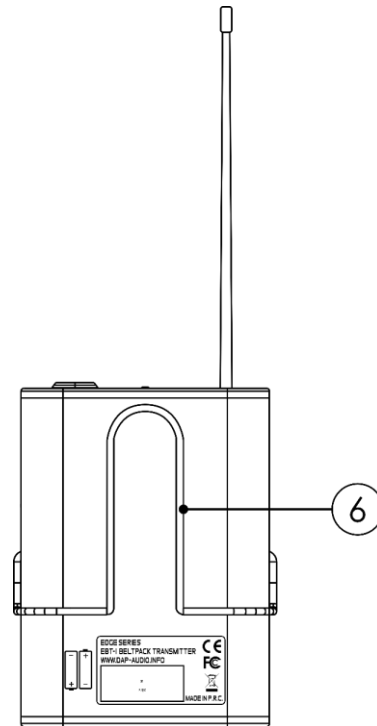


Fig. 03

- 04) DOWN button
- 05) UP button
- 06) Belt clip

3.3. Top View

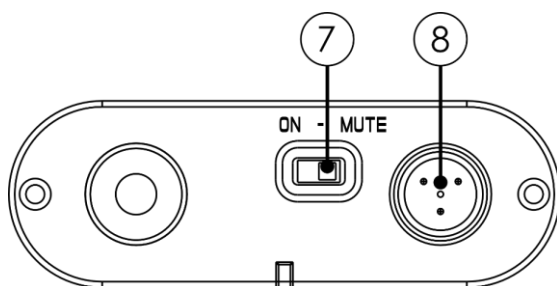


Fig. 04

- 07) Mute switch
- 08) 4-pin mini XLR connector IN
- 09) IR sensor

3.4. Bottom View

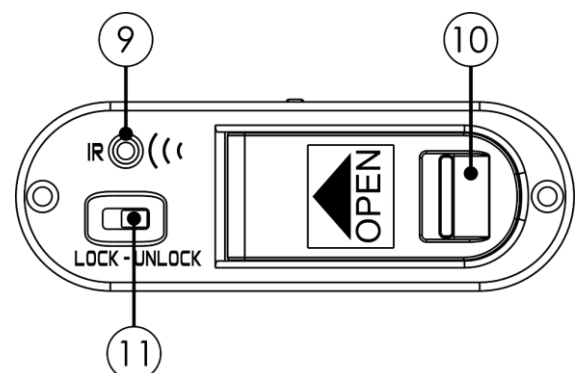


Fig. 05

- 10) Battery housing (2 x AA LR6)
- 11) Lock switch

3.5. Product Specifications

Model:	EDGE EBT-1
Transmitter	
Physical:	
Dimensions:	90 x 65 x 22 mm (L x W x H)
Weight:	0,11 kg
Audio specifications:	
Wireless audio frequency:	610–670 MHz
Wireless stability:	0,0015 %
Frequency deviation:	± 75 kHz
Spurious rejection:	≤ 50 dBC
RF power:	30 mW
RF bandwidth:	60 MHz
Maximum SPL:	133 dB
Frequency response:	50–19000 Hz
Phantom power:	5 V
Signal-to-noise ratio:	> 100 dB
Gain range:	30 dB
Microphone sensitivity:	1,9 mV
Connections:	
Mono input connector:	1 x 4-pin mini XLR
Operation and control:	
Display:	OLED
Construction:	
Housing:	Aluminum
Color:	Black
IP rating:	IP20
Batteries:	
Batteries:	2 x AA LR6 (alkaline) 1,5 V (not included)
Average runtime:	10 h
Thermal:	
Maximum ambient temperature t_a :	40 °C
Minimum ambient temperature:	0 °C

3.6. Accessories

The device is delivered without the receiver. The receiver is available in each of the following 4 sets:

- [D1475B](#) (EDGE EHS-1, 1-channel wireless handheld system)
- [D1476B](#) (EDGE EBS-1, 1-channel wireless bodypack system)
- [D1479B](#) (EDGE EHS-2, 2-channel wireless handheld system)
- [D1480B](#) (EDGE EBS-2, 2-channel wireless bodypack system)

The device is delivered without the headset. You need to purchase the headset separately:

- [D1433](#) (EDGE EH-4, condenser headset microphone with detachable cable)

You can additionally purchase the following accessory:

- [D1417](#) (GC-1, guitar cable, male jack to 4-pin mini XLR)

3.7. Dimensions

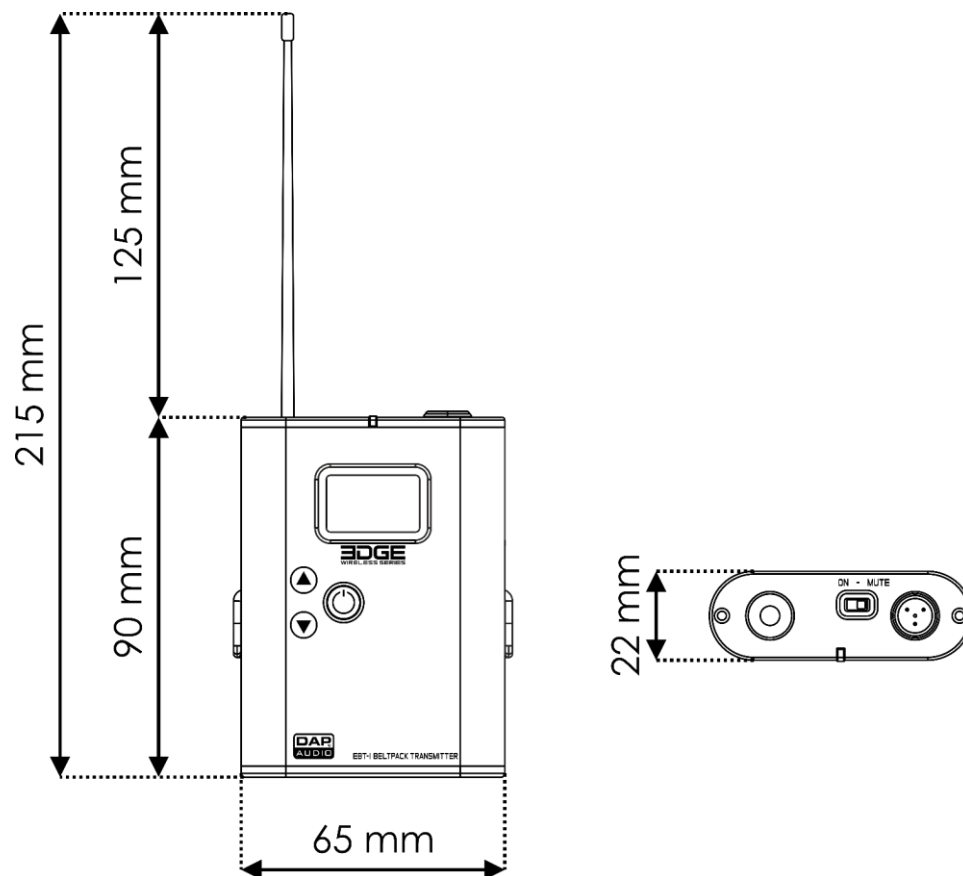


Fig. 06

4. Setup and Operation

4.1. Safety Instructions for Operation



Attention

This device must be used only for the purposes it is designed for.

This device is intended for use as a bodypack wireless transmitter. It is suitable for indoor use. It is not suitable for households.

Any other use, not mentioned under intended use, is regarded as non-intended and incorrect use.

4.2. Ambient Conditions

- The device can be used only indoors.
- The maximum ambient temperature $t_a = 40\text{ °C}$ must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 40 °C .

4.3. Setup



Attention

Connect all data cables before supplying power.

Disconnect power supply before connecting or disconnecting data cables.

To set up the wireless bodypack system, follow the steps below:

- 01) Install the batteries in the device. See **4.3.1. Installation of the Batteries** on page 10.
- 02) Install the headset, microphone or an instrument in the device. See **4.3.2. Connecting Headset/Microphone/Instrument** on page 11.
- 03) Switch on the device. See **4.3.3. Switching ON/OFF** on page 11.
- 04) Pair the device with the receiver. See **4.3.4. Pairing** on page 11.
- 05) Fasten the device to your clothes. See **4.3.5. Installation of the Bodypack** on page 11.
- 06) Switch on the connected mixer/amplifier.

4.3.1. Installation of the Batteries

The device is delivered without batteries. It accepts 2 x AA LR6 (alkaline) batteries.

To install the batteries:

- 01) Open the **battery housing (10)**.
- 02) Insert 2 x AA LR6 (alkaline) batteries into the **battery housing (10)**.
- 03) Close the **battery housing (10)**.

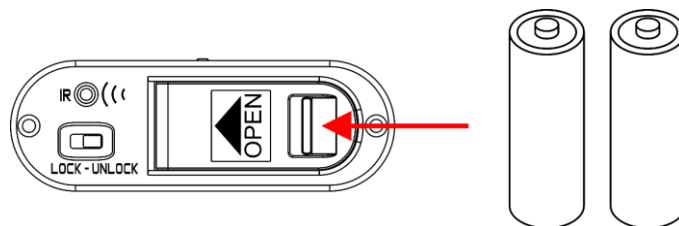


Fig. 07

Note:

Make sure that you install the batteries with correct polarity orientation.

4.3.2. Connecting Headset/Microphone/Instrument

The device has a 4-pin connector, to connect a headset, microphone or an instrument.

Plug the device of your choice into the **4-pin mini XLR connector IN (08)**.

4.3.3. Switching ON/OFF

The device has a power button.

Press and hold down the **power button (03)** for 2 seconds to switch the device on/off.

4.3.4. Pairing

You can pair the device with the receiver.

Before pairing, scan for unused frequencies to avoid interference. Refer to the user manual of the receiver.

To automatically pair the receiver with the device, follow the steps below:

- 01) Put the device near the receiver, so that the **IR sensor (09)** is as close as possible to the IR sensor of the receiver.
- 02) Pair the receiver with the device. Refer to the user manual of the receiver.

To manually set the device and the receiver to the same channel and frequency, follow the steps below:

- 01) Select a group, channel and frequency on the receiver. Refer to the user manual of the receiver.
- 02) Follow the steps in **5.1. Control Panel** on page 12.

4.3.5. Installation of the Bodypack

Use the **belt clip (06)** on the device to fasten it to your clothes. Flip the **belt clip (06)** for best comfort. The **antenna (01)** shall always point upwards.

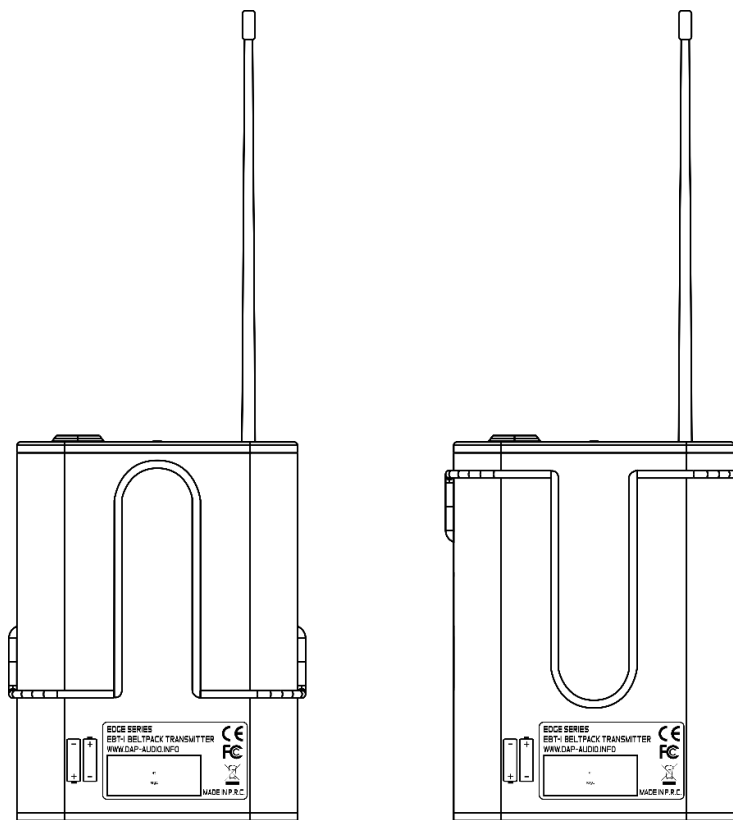


Fig. 08

5. Operation

To operate, talk or sing into the headset, microphone or play the instrument connected to the device. The AF signal strength indicator on the receiver increases or decreases during talking/singing.

After use:

- 01) Mute the transmitter to prevent the occurrence of a popping sound. See **5.2.2. Mute** on page 13.
- 02) Switch off the receiver and the device. Refer to the user manual of the receiver and see **4.3.3. Switching ON/OFF** on page 11.

5.1. Control Panel

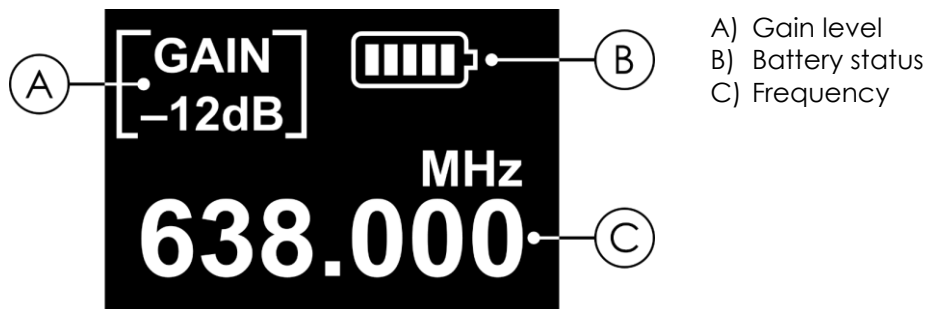
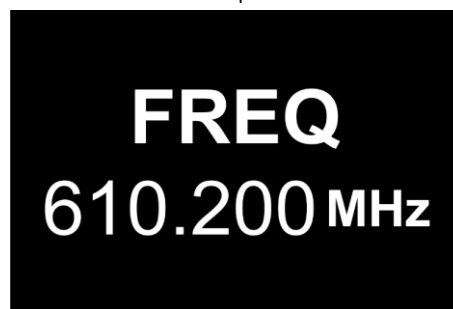
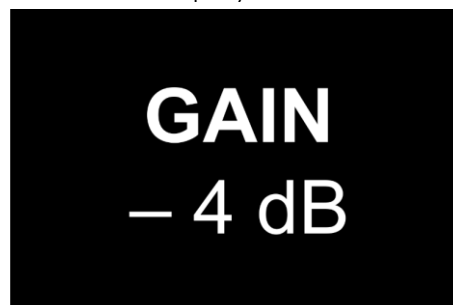


Fig. 09

- 01) Press the **power button (03)** of the transmitter to open the main menu. The display shows:



- 02) Press the **UP/DOWN buttons (05/04)** to set the frequency. The adjustment range is 610–670 MHz.
- 03) Press the **power button (03)** to confirm. The display shows:



- 04) Press the **UP/DOWN buttons (05/04)** to set the gain. The adjustment range is from -32 dB to +4 dB.

05) Press the **power button (03)** to confirm. The display shows:



**RF POWER
HIGH**

06) Press the **UP/DOWN buttons (05/04)** to set the RF output power. Select one of the 3 options:

- LOW (10 mW)
- MID (20 mW)
- HIGH (30 mW)

07) Press the **power button (03)** to confirm. The display will show the splash screen.

Note:

The maximum allowed RF output power differs per country and region. Consult the respective national and/or regional authority as licensing or specific restrictions may apply for the use of the device. We do not take any responsibility in case the device cannot operate or cannot be used in your country/region or if it requires additional licensing. Before using the device, check the maximum allowed RF output power in your country or region.

5.2. Functions

5.2.1. Lock

During operation you can lock the display of the device.

- Move the **lock switch (11)** to LOCK, to lock the device.
- Move the **lock switch (11)** to UNLOCK, to deactivate lock.

5.2.2. Mute

During operation you can mute the device with the **mute switch (07)**.

- Move the **mute switch (07)** to ON, to mute the device.
- Move the **mute switch (07)** to MUTE, to deactivate mute.

6. Troubleshooting

This troubleshooting guide contains solutions to problems which can be carried out by an ordinary person. The device does not contain user-serviceable parts.

Unauthorized modifications to the device will render the warranty void. Such modifications may result in injuries and material damage.

Refer servicing to instructed or skilled persons. Contact your Highlite International dealer in case the solution is not described in the table.

Problem	Probable cause(s)	Solution
The device does not function at all	No power to the device	<ul style="list-style-type: none"> Make sure that the batteries are inserted correctly
	The batteries are depleted	<ul style="list-style-type: none"> Change the batteries. See 4.3.1. Installation of the Batteries on page 10
No sound	The device is switched off or does not function correctly	<ul style="list-style-type: none"> Make sure that the device is switched on and the batteries are not depleted
	The device is muted	<ul style="list-style-type: none"> Make sure that the device is not muted
	The volume is too low	<ul style="list-style-type: none"> Turn up the volume on the receiver Make sure that the volume on the connected devices is turned up
	Channel selection	<ul style="list-style-type: none"> Make sure that the receiver and the device are paired. See 4.3.4. Pairing on page 11
	The device is out of range	<ul style="list-style-type: none"> Move the device closer to the receiver
	Connections are defective	<ul style="list-style-type: none"> Examine connections and cables. Correct defective connections. Repair or replace damaged cables
Bursts of noise or other audible signals present	Sources of interference are present	<ul style="list-style-type: none"> Adjust the squelch threshold of the receiver Change the channel frequency Identify potential sources of interference (other RF-sources) and turn them off

7. Maintenance

7.1. Preventive Maintenance

**Attention**

Before use, examine the device visually for any defects.

7.1.1. Basic Cleaning Instructions

To clean the device, follow the steps below:

- 01) Switch the device off.
- 02) Clean the device with a soft, lint-free cloth.

**Attention**

- Do not immerse the device in liquid.
- Do not use alcohol or solvents.

7.2. Corrective Maintenance

The device does not contain user-serviceable parts. Do not open the device and do not modify the device.

Refer repairs and servicing to instructed or skilled persons. Contact your Highlite International dealer for more information.

8. Deinstallation, Transportation and Storage

- Use the original packaging to transport the device, if possible.
- Clean the device before storing. Follow the cleaning instructions in chapter **7.1.1. Basic Cleaning Instructions** on page 15.
- Store the device in the original packaging, if possible.

9. Disposal

Correct disposal of this product



Waste Electrical and Electronic Equipment

This symbol on the product, its packaging or documents indicates that the product shall not be treated as household waste. Dispose of this product by handing it to the respective collection point for recycling of electrical and electronic equipment. This is to avoid environmental damage or personal injury due to uncontrolled waste disposal. For more detailed information about recycling of this product contact the local authorities or the authorized dealer.

10. Approval



Hereby, Highlite International declares that the device EDGE EBT-1, product code D1478B, is in compliance with Directive 2014/53/EU (RED – Radio Equipment Directive).

The full text of the EU declaration of conformity is available at the respective product page on the website of Highlite International (www.highlite.com).

The DAP EDGE EBT-1 is a Class 2 wireless audio device (Commission Decision 2000/299/EC).

Frequency: 610–670 MHz

	BE	DK	DE	FR	HR	LV	LT	MT
	NL	AT	PL	RO	SK	ES	SE	

Exclusion of liability

The frequency ranges available for radio transmitters differ per country and region. Consult the respective national and/or regional authority as licensing or specific restrictions may apply for the use of the device. We do not take any responsibility in case the device cannot operate or cannot be used in your country/region or if it requires additional licensing. Before using the device, check the allowed frequencies in your country or region.



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