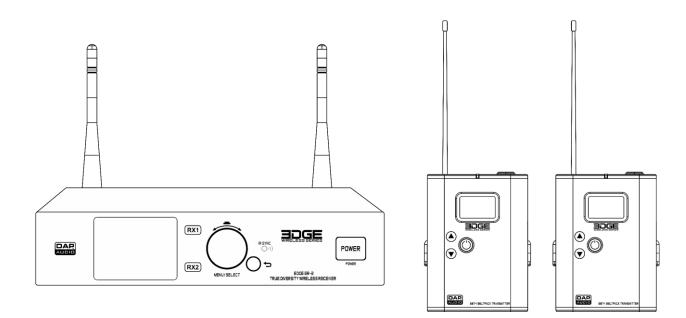


USER MANUAL



ENGLISH

EDGE EBS-2

V2

Product code: D1480B

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 EBS-2 (receiver + 2 x transmitter)
- 2 x antenna
- AC power adapter (1,4 m)
- 2 x headset
- User manual

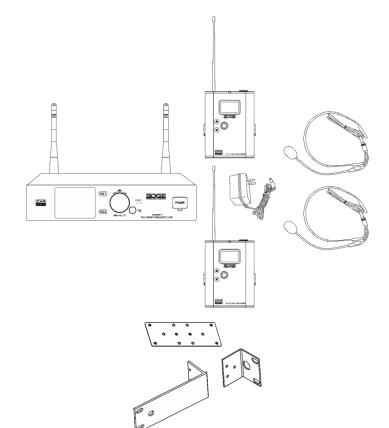


Fig. 01

Mounting kit:

- Long mounting bracket
- Short mounting bracket
- Mounting plate
- 4 x mounting screw for the device
- 4 x mounting screw for the 19-inch rack

1.2. Intended Use

This device is intended for use as a wireless bodypack system. It is suitable only for indoor installation.

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. Disconnect the device from the electrical power supply 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.



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

Incorrect handling of the AC power adapter may result in hazardous situations

This device is delivered with an AC power adapter. Incorrect handling of the AC power adapter may result in hazardous situations.

- Use only the AC power adapter delivered with the device.
- Do not wrap the power cable around the power adapter or any other object. This can damage the internal wires.
- Do not cover the power adapter with anything when it is plugged into the socket-outlet. This may cause overheating.
- Do not expose the power adapter to water or other liquids.

Do not use the power adapter:

- If it shows signs of overheating, for example the plastic is damaged
- If the AC input pins show signs of corrosion or overheating
- If the power cable is damaged or shows signs of material fatigue.



Attention General safety

- Do not shake the device. Avoid brute force when installing or operating the device.
- If the device is dropped or struck, disconnect the device from the electrical power supply immediately.
- 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.
- If the device fails to work correctly, discontinue the use immediately.







Attention

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

This device is designed to be used as a wireless bodypack system. 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 EDGE EHS-2 is a wireless bodypack system. The set consists of 2 bodypack transmitters and a receiver. The EDGE is suitable for voice transmission or for musical instruments. The transmitters are powered by 2 x AA LR6 (alkaline) batteries (not included).

3.1. Receiver - Front View

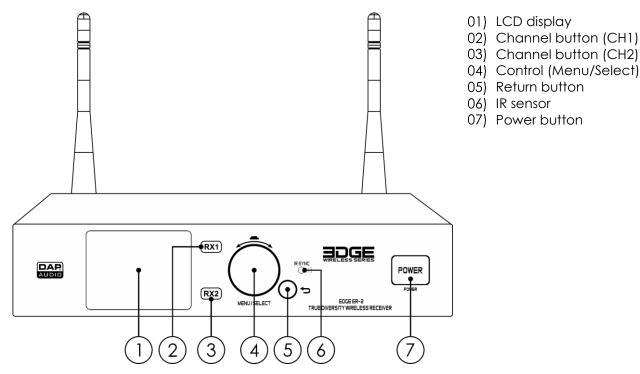


Fig. 02

3.2. Receiver – Back View

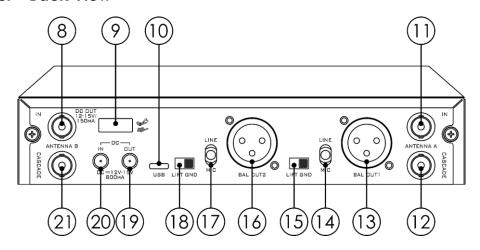


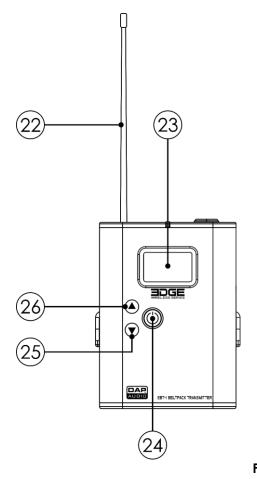
Fig. 03

- 08) 12-15 V DC BNC connector (antenna B, 150 mA)
- 09) Power cable safety eye
- 10) USB C connector (for firmware updates)
- 11) 12–15 V DC BNC connector (antenna A, 150 mA)
- 12) 12–15 V DC BNC cascade connector
- 13) 3-pin XLR AF balanced OUT (CH1)
- 14) Mic/line switch (CH1)

- 15) Ground/lift switch (CH1)
- 16) 3-pin XLR AF balanced OUT (CH2)
- 17) Mic/line switch (CH2)
- 18) Ground/lift switch (CH2)
- 19) 12-15 V DC power connector OUT (800 mA)
- 20) 12-15 V DC power connector IN (800 mA)
- 21) 12-15 V DC BNC cascade connector

Bodypack (Transmitter) 3.3.

3.3.1. Front View



3.3.2. Back View

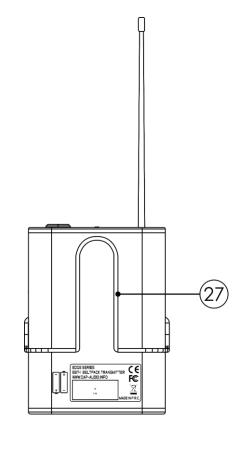
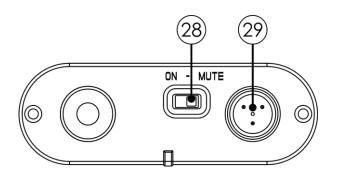


Fig. 04 Fig. 05

- 22) Antenna
- 23) OLED display
- 24) Power button (on/off)

3.3.3. Top View



- 25) DOWN button
- 26) UP button
- 27) Belt clip

3.3.4. Bottom View

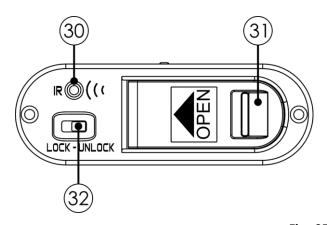


Fig. 06 Fig. 07

- 28) Mute switch
- 29) 4-pin mini XLR connector IN
- 30) IR sensor

- 31) Battery housing (2 x AA LR6)
- 32) Lock switch





3.4. Product Specifications

| Model: | EDGE EBS-2 |
|--------|------------|
| | |

Receiver

| Electrical: | |
|--------------------|------------------------|
| Input voltage: | 100-240 V AC, 50/60 Hz |
| Output voltage: | 12–15 V DC |
| Power consumption: | 7,8 W |

| AC power adapter: | |
|-------------------|------------------------|
| Input voltage: | 100–240 V AC, 50/60 Hz |
| Output voltage: | 15 V DC |

| Physical: | | |
|-----------|---------------------|-------------------------------------|
| | Dimensions: | 205 x 225 x 44,5 mm (L x W x H), 1U |
| | Installation depth: | 220 mm |
| | Weight: | 1,25 kg |

| Audio specifications: | | |
|-------------------------------------|-------------|--|
| Frequency range: | 610–670 MHz | |
| Wireless stability: | 0,0015 % | |
| RF bandwidth: | 60 MHz | |
| THD level: | < 1,0 % | |
| Signal-to-noise ratio: | > 100 dB | |
| RF antenna input impedance: | 50 Ω | |
| Max. balanced audio output: | 48 dBu | |
| Receiver output impedance: | 50 Ω | |
| RF receiver antenna output voltage: | 15 V | |
| RF receiver antenna output current: | 150 mA | |

| Connections: | |
|-----------------------|---------------------------------------|
| Power connection: | DC connectors IN/OUT |
| Output connections: | 2 x 3-pin XLR connector OUT, balanced |
| Input RF connections: | 2 x BNC connector (RF antenna input) |
| | 2 x BNC connector (cascade) |

| | Operation and control: | | |
|---|------------------------|----------------|--|
| ĺ | Receiver type: | True diversity | |
| | Display: | OLED | |

| Construction: | |
|---------------|----------------|
| Housing: | Aluminum/metal |
| Color: | Black |
| IP rating: | IP20 |

Transmitter

| Physical: | |
|-------------|-----------------------------|
| Dimensions: | 90 x 65 x 22 mm (L x W x H) |
| Weight: | 0,11 kg |

| Audio specifications: | Audio specifications: | |
|---------------------------|-----------------------|--|
| Wireless audio frequency: | 610–670 MHz | |
| Wireless stability: | 0,0015 % | |
| Frequency deviation: | ± 75 kHz | |





EDGE EBS-2

| 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 ta: | 50 °C | |
| Minimum ambient temperature: | 0°C | |

3.5. Optional Accessories

You can additionally purchase the following accessories:

- <u>D1475B</u> (EDGE EHS-1, 1-channel wireless handheld system)
- D1476B (EDGE EBS-1, 1-channel wireless bodypack system)
- <u>D1477B</u> (EDGE EHM-1, handheld condenser microphone)
- <u>D1478B</u> (EDGE EBT-1, bodypack)
- <u>D1479B</u> (EDGE EHS-2, 2-channel wireless handheld system)
- D1486 (EDGE EUA-1, set of 2 unidirectional antennas)
- <u>D1487</u> (EDGE EOA-1, set of 2 omnidirectional antennas)



3.6. Dimensions

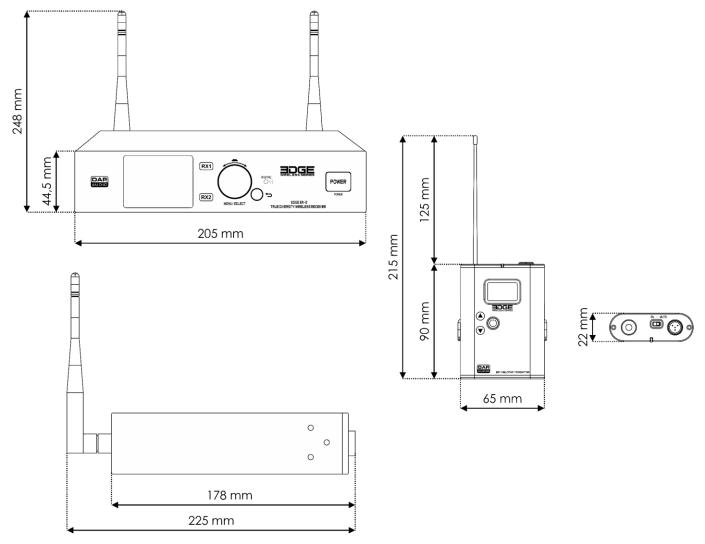


Fig. 08

4. Installation and Setup

4.1. Ambient Conditions

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

4.2. Installation

The receiver can be put on a stable, flat surface, or can be mounted in a standard 19-inch rack. The receiver requires 1 rack unit (U) of space, which is 44,45 mm high. Make sure that the rack is sufficiently secured to prevent it from becoming unstable or falling over.

The device is supplied with 2 mounting brackets and mounting screws. It is possible to mount a single or two receivers in a 19-inch rack.

To mount the receiver, you need a Phillips screwdriver.

To mount the receiver in a two-post rack, follow the steps below:

- 01) Attach the mounting brackets and/or the mounting plate to the receiver(s). See **4.2.1. Single Receiver** or **4.2.2. Two Receivers** on pages 13–14 for more information.
- 02) Insert 4 cage nuts in the openings on the rack posts where you want to mount the receiver(s).
- 03) Position the receiver(s) in front of the rack posts so that the 4 x mounting openings on the mounting brackets face the openings on the rack posts with cage nuts.
- 04) Use a screwdriver to mount the receiver(s) to the rack posts with 4 screws.
- 05) Install the bodypack. See **4.2.3. Installation of the Bodypack** on page 15 for more information.

4.2.1. Single Receiver

Attach the supplied long and short mounting brackets with the mounting screws to the receiver.

Use a Philips screwdriver to tighten the mounting screws.

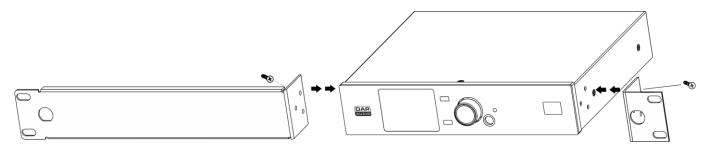


Fig. 09



4.2.2. Two Receivers

01) Attach the supplied short mounting brackets with the mounting screws to the receivers. Use a Phillips screwdriver to tighten the mounting screws.

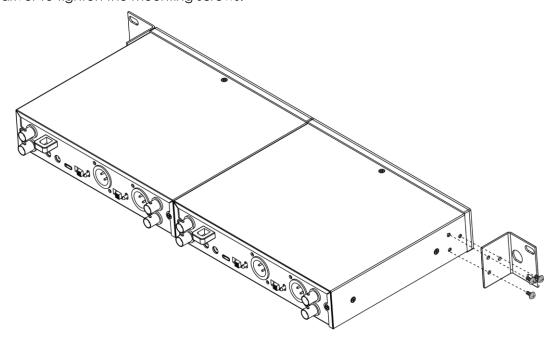


Fig. 10

02) Attach the supplied mounting plate with the mounting screws to the bottom of both receivers. Use a Phillips screwdriver to tighten the mounting screws.

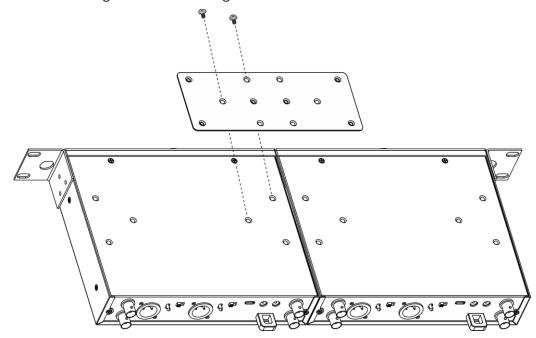


Fig. 11

4.2.3. Installation of the Bodypack

Use the **belt clip (27)** on the device to fasten it to your clothes. Flip the **belt clip (27)** for best comfort. The **antenna (22)** shall always point upwards.

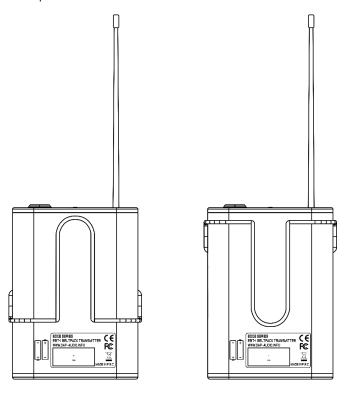


Fig. 12

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 antennas. See **4.3.1. Installation of the Antennas** on page 16.
- 02) Connect the receiver to power supply. See **4.3.2. Connecting to Power Supply** and **4.3.2.1. Power Linking of Multiple Devices** on pages 16–17.
- 03) Connect other EDGE devices to the receiver(s). See 4.3.3. Setup Example on page 17.
- 04) Connect a mixer/amplifier to the receiver(s). See **4.3.4.** Connecting the Receiver to Mixer/Amplifier on page 18.
- 05) Switch on the receiver. See **4.3.5. Switching ON/OFF Receiver** on page 18.
- 06) Install the batteries in the transmitter. See **4.3.6. Installation of the Batteries** on page 18.
- 07) Connect the headset, microphone or an instrument to the transmitter. See **4.3.7. Connecting Headset/Microphone/Instrument** on page 18.
- 08) Switch on the transmitter. See **4.3.8. Switching ON/OFF Transmitter** on page 19.
- 09) Pair the transmitter with the receiver. See **4.3.9**. **Pairing** on page 19.
- 10) Switch on the connected mixer/amplifier.



4.3.1. Installation of the Antennas

The device is delivered with 2 antennas. The antennas are not connected. To install the antennas:

- 01) Insert the 1st antenna into the 12-15 V DC BNC connector (08).
- 02) Insert the 2nd antenna into **12–15 V DC BNC connector (11)**.
- 03) Point the antennas away from each other at an angle of 45° (Fig. 13).

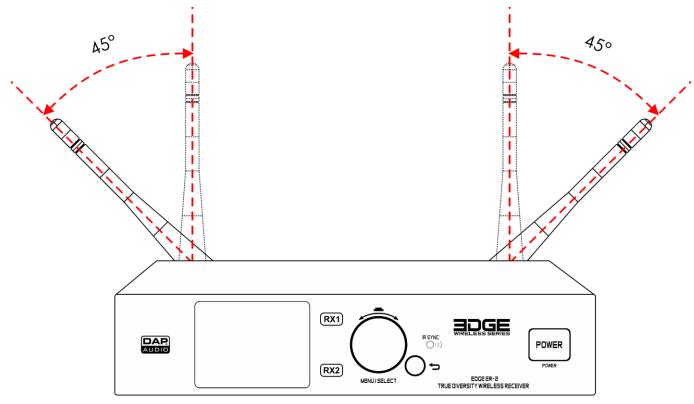


Fig. 13

Note:

- Do not use the antennas near metal surfaces or other obstructions.
- Make sure that the antennas do not cross when multiple wireless systems are used.

4.3.2. Connecting to Power Supply



Attention

Incorrect handling of the AC power adapter may result in hazardous situations

This device is delivered with an AC power adapter. Incorrect handling of the AC power adapter may result in hazardous situations.

- Connect the receiver to the socket-outlet with the delivered AC power adapter. Use only the AC power adapter delivered with the device.
- Make sure that the socket-outlet is easily accessible.
- Disconnect the AC power adapter from the socket-outlet when the device is not in use.



4.3.2.1. Power Linking of Multiple Devices

This receiver supports power linking. Power can be relayed to another receiver via the 12–15 V DC power connector OUT (19).

Power linking of multiple devices must be carried out only by instructed or skilled persons.

To prevent overload of the electrical circuit, when power linking multiple devices:

- Use cables with sufficient current-carrying capacity. The power adapter supplied with the device is not suitable for power linking of multiple devices.
- Make sure that the total current draw of the device and all connected devices does not exceed the rated capacity of the power adapter, power cables and the circuit breaker.
- Do not link more devices on one power link than the maximum recommended number.

4.3.3. Setup Example

It is possible to connect up to 8 receivers and 16 transmitters and to install accessories. See **3.5. Optional Accessories** on page 11 for more information.

The unidirectional/omnidirectional antennas receive the signal from the transmitter(s) and send it to the first receiver. The first receiver sends the signal to the other connected receivers.

Connect the 12–15 V DC BNC cascade connectors (12/21) of the first receiver to the 12–15 V DC BNC connectors (08/11) of the second receiver. Repeat this step to connect multiple receivers as shown in Fig. 14.

The unidirectional/omnidirectional antennas are not supplied with the device. See **3.5. Optional Accessories** on page 11.

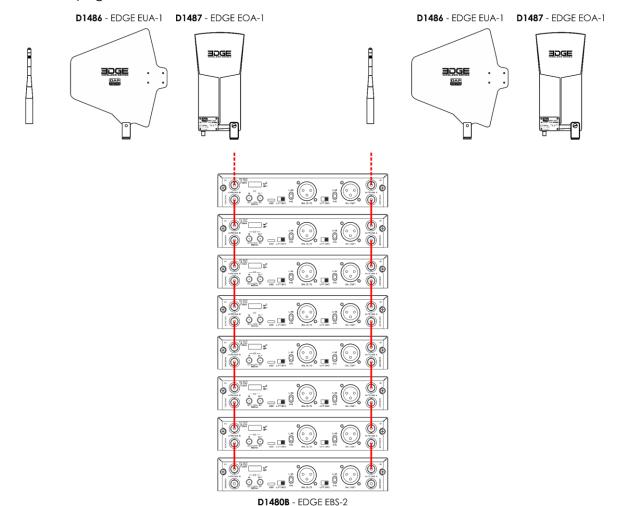


Fig. 14

4.3.4. Connecting the Receiver to Mixer/Amplifier



Attention

Connect all data cables before supplying power.

Disconnect power supply before connecting or disconnecting data cables.

The receiver has 2 balanced 3-pin XLR output connectors.

To connect the receiver to a mixer or an amplifier:

- 01) Make sure that the receiver is not connected to power supply and the volume is turned down.
- 02) Make sure that the mixer or the amplifier are switched off and the volume is turned down.
- 03) Use a 3-pin XLR audio cable to connect the 3-pin XLR AF balanced OUT (13/16) of the receiver to the XLR input connector of the mixer/amplifier.

4.3.5. Switching ON/OFF – Receiver

The receiver has a power button.

- Press and hold down the power button (07) for 2 seconds to switch on the receiver. The LCD display
- Press and hold down the power button (07) for 2 seconds to switch off the receiver. The receiver remains energized.

Note:

The mains plug is used as a disconnect device. Disconnect the AC power adapter from the socket-outlet to disconnect the receiver from the power supply.

4.3.6. 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 (31)**.
- 02) Insert 2 x AA LR6 (alkaline) batteries into the **battery housing (31)**.
- 03) Close the **battery housing (31)**.

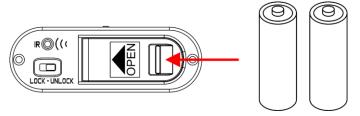


Fig. 15

Note:

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

4.3.7. Connecting Headset/Microphone/Instrument

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

Plug the device of your choice into the 4-pin mini XLR connector IN (29).





4.3.8. Switching ON/OFF - Transmitter

The transmitter has a power button.

Press and hold down the **power button (24)** for 2 seconds to switch the transmitter on/off.

4.3.9. Pairing

You can pair the transmitter with the receiver.

Before pairing, scan for unused frequencies to avoid interference. See **5.3.1.4. Scan** on page 22.

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

- 01) Put the transmitter near the receiver, so that the IR sensor (30) of the transmitter is as close as possible to the IR sensor (06) of the receiver.
- 02) Follow the steps in **5.3.1.5. Synchronization** on page 23.

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

- 01) Select a group on the receiver. See **5.3.1.1. Group** on page 21.
- 02) Select a channel on the receiver. See **5.3.1.2. Channel** on page 22.
- 03) Select a frequency on the receiver. See **5.3.1.3. Frequency** on page 22.
- 04) Follow the steps in **5.4. Control Panel Transmitter** on page 27.

5. Operation

5.1. 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 wireless bodypack system. It is suitable only for indoor installation. It is not suitable for households.

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



Attention Power supply

Before connecting the device to the power supply, make sure that the current, voltage and frequency match the input voltage, current and frequency specified on the information label on the device.

5.2. Operation

To operate the device, talk or sing into the headset, microphone or play the instrument connected to the transmitter. The **AF signal strength (L)** indicator on the **LCD display (01)** increases or decreases during talking/singing. If the signal is too loud, "AF" and "P" of the **AF signal strength (L)** indicator flash red.

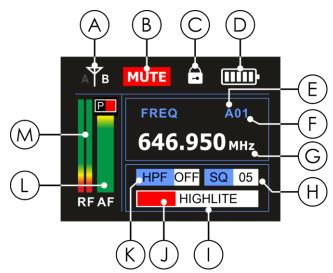
After use:

- 01) Mute the transmitter to prevent the occurrence of a popping sound. See **5.5.2. Mute** on page 28.
- 02) Switch off the receiver and the transmitter. See **4.3.5. Switching ON/OFF Receiver** on page 18 and **4.3.8. Switching ON/OFF Transmitter** on page 19.





5.3. Control Panel – Receiver



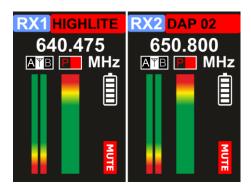
- A) Antenna signal
- B) AF signal mute
- C) Receiver lock
- D) Transmitter battery status
- E) Group
- F) Channel
- G) Receiver frequency
- H) Squelch
- I) Device name
- J) User color
- K) High-pass filter status
- L) AF signal strength
- M) Wireless signal strength

Fig. 16

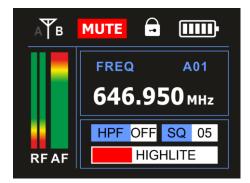
- Press the control (04) to open a menu and to confirm a selection.
- Turn the control (04) to navigate through the menus and to increase/decrease values.
- Press the **return button (05)** to cancel a selection and to return to a previous screen.

5.3.1. Main Menu Options

Upon start-up, the display shows the DAP logo. After 2 seconds, the display shows the overview of both channels.

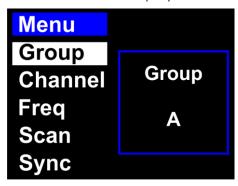


01) Press one of the **channel buttons (02/03)** to view the current status of the selected channel. The display shows:





02) Press the **control (04)** to open the main menu. The display shows:



03) Turn the control (04) to toggle through the following 13 options:

GROUP: See 5.3.1.1. Group
 CHANNEL: See 5.3.1.2. Channel
 FREQ: See 5.3.1.3. Frequency
 SCAN: See 5.3.1.4. Scan

• SYNC: See **5.3.1.5. Synchronization**

• LOCK: See **5.3.1.6. Lock**

TX GAIN: See 5.3.1.7. Transmitter Gain
RX GAIN: See 5.3.1.8. Receiver Gain
LOW CUT: See 5.3.1.9. Low Cut

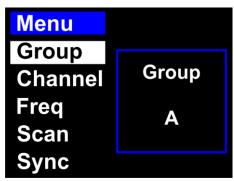
SQUELCH: See 5.3.1.10. Squelch
 TONE KEY: See 5.3.1.11. Tone Key
 COLOR: See 5.3.1.12. Color
 NAME: See 5.3.1.13. Name

04) Press the control (04) to open menus.

5.3.1.1. Group

In this menu you can select a group. Each group (A–J) has a unique set of channels with 14 fixed frequencies per channel. See **5.6. Channel and Frequency Overview** on page 29.

01) Turn the **control (04)** to select GROUP.



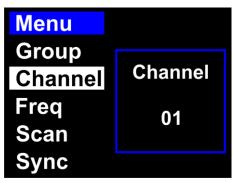
- 02) Press the control (04) to edit.
- 03) Turn the control (04) to select a group. The adjustment range is A-J.
- 04) Press the control (04) to confirm.



5.3.1.2. Channel

In this menu you can select a channel. Each channel (1–14) has a unique fixed frequency. See **5.6.** Channel and Frequency Overview on page 29.

01) Turn the control (04) to select CHANNEL.

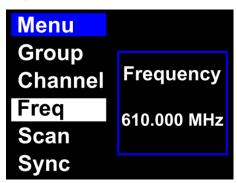


- 02) Press the control (04) to edit.
- 03) Turn the control (04) to select a channel. The adjustment range is 1-14.
- 04) Press the control (04) to confirm.

5.3.1.3. Frequency

In this menu you can set the frequency. See 5.6. Channel and Frequency Overview on page 29.

01) Turn the control (04) to select FREQ.

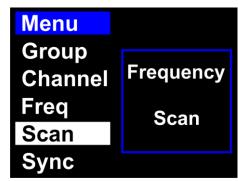


- 02) Press the control (04) to edit.
- 03) Turn the control (04) to select a frequency. The adjustment range is between 610–670 MHz.
- 04) Press the control (04) to confirm.

5.3.1.4. Scan

In this menu you can automatically scan the entire frequency range, to find the unused frequencies and avoid interference.

01) Turn the control (04) to select SCAN.





02) Press the **control (04)** to scan the entire frequency range (610–670 MHz). This process may take up to 2 minutes. Once the scan is finished, you can see which frequencies are already in use and which are not.

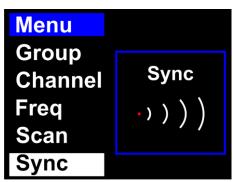


03) Press the control (04) to return to the main menu.

5.3.1.5. Synchronization

In this menu you can pair the receiver with the transmitter.

01) Turn the control (04) to select SYNC.

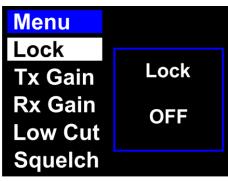


02) Press the **control (04)** to pair the devices. The LED of the **IR sensor (06)** of the receiver blinks several times. The devices are now paired and ready for use.

5.3.1.6. Lock

In this menu you can lock the display of the receiver.

01) Turn the control (04) to select LOCK.



- 02) Press the control (04) to edit.
- 03) Turn the control (04) to select one of the 2 options:
 - ON: The display is locked
 - OFF: The display is unlocked
- 04) Press the control (04) to confirm.



Note:

To unlock the display, press and hold down the **control (04)** for 4 seconds, until the **receiver lock (C)** disappears from the display.

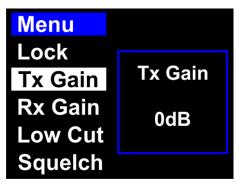
Note:

The display does not lock automatically. It can be locked only manually.

5.3.1.7. Transmitter Gain

In this menu you can set the gain of the transmitter (input sensitivity).

01) Turn the control (04) to select TX GAIN.

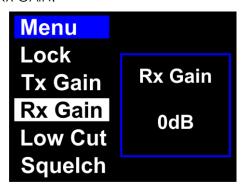


- 02) Press the control (04) to edit.
- 03) Turn the control (04) to set the gain. The adjustment range is from -32 dB to +4 dB.
- 04) Press the control (04) to confirm.

5.3.1.8. Receiver Gain

In this menu you can set the output gain of the receiver.

01) Turn the control (04) to select RX GAIN.



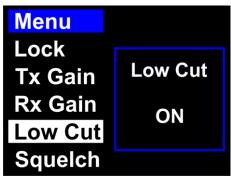
- 02) Press the control (04) to edit.
- 03) Turn the control (04) to set the output gain. The adjustment range is from -32 dB to +4 dB.
- 04) Press the **control (04)** to confirm.



5.3.1.9. Low Cut

In this menu you can set the low-cut filter. The low-cut filter removes low-frequency signals picked up by the transmitter.

01) Turn the control (04) to select LOW CUT.

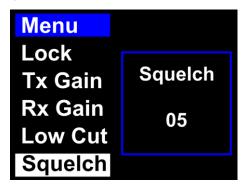


- 02) Press the control (04) to edit.
- 03) Turn the control (04) to select one of the 2 options:
 - ON: Low-cut filter onOFF: Low-cut filter off
- 04) Press the control (04) to confirm.

5.3.1.10. Squelch

In this menu you can set the squelch threshold. The squelch threshold is pre-set at the factory and normally needs no further adjustment. In case the receiver picks up other signals besides the signal of the transmitter, follow the steps bellow. To eliminate the interference, increase the squelch threshold for the respective channel.

01) Turn the control (04) to select SQUELCH.



- 02) Press the control (04) to edit.
- 03) Turn the **control (04)** to set the value. The adjustment range is 1-10.
- 04) Press the control (04) to confirm.

Note:

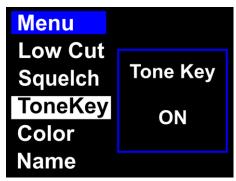
Increasing the squelch threshold decreases the transmission range, which may cause loss of signal from the transmitter. Always adjust the squelch control to the lowest possible setting.



5.3.1.11. Tone Key

In this menu you can set the tone key. The receiver uses it to identify the transmitter and its battery status.

01) Turn the control (04) to select TONEKEY.

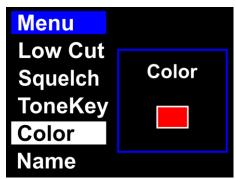


- 02) Press the control (04) to edit.
- 03) Turn the **control (04)** to select one of the 2 options:
 - ON: Tone key is onOFF: Tone key is off
- 04) Press the control (04) to confirm.

5.3.1.12. Color

In this menu you can assign a color to the transmitter. It is useful when working with multiple receivers and transmitters. Put a sticker with the correct color on your transmitter. The stickers are supplied with the device.

01) Turn the control (04) to select COLOR.



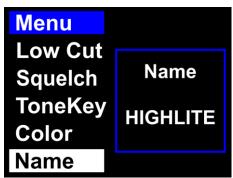
- 02) Press the control (04) to edit.
- 03) Turn the **control (04)** to select one of the 8 colors (red, yellow, green, blue, orange, brown, white, black).
- 04) Press the control (04) to confirm.



5.3.1.13. Name

In this menu you can set the name of the receiver. A name can consist of up to 8 characters.

01) Turn the control (04) to select NAME.



- 02) Press the **control (04)** to edit. The currently selected character will be highlighted.
- 03) Turn the **control (04)** to change the character. The available characters are lowercase and uppercase letters, digits, punctuation marks, and some symbols.
- 04) Press the **control (04)** to confirm.
- 05) Repeat steps 3-4 to edit the remaining characters.

5.4. Control Panel – Transmitter

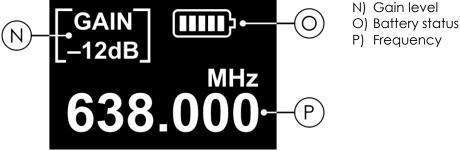
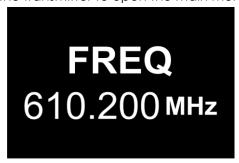


Fig. 17

01) Press the **power button (24)** of the transmitter to open the main menu. The display shows:



- 02) Press the **UP/DOWN buttons (26/25)** to set the frequency. The adjustment range is 610–670 MHz.
- 03) Press the **power button (24)** to confirm. The display shows:



04) Press the **UP/DOWN buttons (26/25)** to set the gain. The adjustment range is from -32 dB to +4 dB.

05) Press the **power button (24)** to confirm. The display shows:



- 06) Press the **UP/DOWN buttons (26/25)** 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 (24)** 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.

5.5. Transmitter Functions

5.5.1. Lock

During operation you can lock the display of the device.

- Move the lock switch (32) to LOCK, to lock the device.
- Move the lock switch (32) to UNLOCK, to deactivate lock.

5.5.2. Mute

During operation you can mute the device with the mute switch (28).

- Move the mute switch (28) to ON, to mute the device.
- Move the mute switch (28) to MUTE, to deactivate mute.



5.6. Channel and Frequency Overview

The carrier frequency is in the range 610–670 MHz.

| | A B | | | С | | D | | E | |
|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|
| CH | Frequency | СН | Frequency | СН | Frequency | СН | Frequency | СН | Frequency |
| 1 | 610.000 MHz | 1 | 610.250 MHz | 1 | 610.500 MHz | 1 | 610.750 MHz | 1 | 611.000 MHz |
| 2 | 612.025 MHz | 2 | 612.275 MHz | 2 | 612.525 MHz | 2 | 612.775 MHz | 2 | 613.025 MHz |
| 3 | 614.250 MHz | 3 | 614.500 MHz | 3 | 614.750 MHz | 3 | 615.000 MHz | 3 | 615.250 MHz |
| 4 | 616.700 MHz | 4 | 616.950 MHz | 4 | 617.200 MHz | 4 | 617.450 MHz | 4 | 617.700 MHz |
| 5 | 619.375 MHz | 5 | 619.625 MHz | 5 | 619.875 MHz | 5 | 620.125 MHz | 5 | 620.375 MHz |
| 6 | 622.250 MHz | 6 | 622.500 MHz | 6 | 622.750 MHz | 6 | 623.000 MHz | 6 | 623.250 MHz |
| 7 | 625.325 MHz | 7 | 625.575 MHz | 7 | 625.825 MHz | 7 | 626.075 MHz | 7 | 626.325 MHz |
| 8 | 629.175 MHz | 8 | 629.425 MHz | 8 | 629.675 MHz | 8 | 629.925 MHz | 8 | 630.175 MHz |
| 9 | 634.925 MHz | 9 | 635.175 MHz | 9 | 635.425 MHz | 9 | 635.675 MHz | 9 | 635.925 MHz |
| 10 | 638.225 MHz | 10 | 638.475 MHz | 10 | 638.725 MHz | 10 | 638.975 MHz | 10 | 639.225 MHz |
| 11 | 643.150 MHz | 11 | 643.400 MHz | 11 | 643.650 MHz | 11 | 643.900 MHz | 11 | 644.150 MHz |
| 12 | 649.525 MHz | 12 | 649.775 MHz | 12 | 650.025 MHz | 12 | 650.275 MHz | 12 | 650.525 MHz |
| 13 | 654.850 MHz | 13 | 655.100 MHz | 13 | 655.350 MHz | 13 | 655.600 MHz | 13 | 655.850 MHz |
| 14 | 665.700 MHz | 14 | 665.950 MHz | 14 | 666.200 MHz | 14 | 666.450 MHz | 14 | 666.700 MHz |

| | F G | | Н | | I | | J | | |
|----|-------------|----|-------------|----|-------------|----|-------------|----|-------------|
| СН | Frequency |
| 1 | 611.250 MHz | 1 | 611.500 MHz | 1 | 611.750 MHz | 1 | 612.000 MHz | 1 | 612.250 MHz |
| 2 | 613.275 MHz | 2 | 613.525 MHz | 2 | 613.775 MHz | 2 | 614.025 MHz | 2 | 614.275 MHz |
| 3 | 615.500 MHz | 3 | 615.750 MHz | 3 | 616.000 MHz | 3 | 616.250 MHz | 3 | 616.500 MHz |
| 4 | 617.950 MHz | 4 | 618.200 MHz | 4 | 618.450 MHz | 4 | 618.700 MHz | 4 | 618.950 MHz |
| 5 | 620.625 MHz | 5 | 620.875 MHz | 5 | 621.125 MHz | 5 | 621.375 MHz | 5 | 621.625 MHz |
| 6 | 623.500 MHz | 6 | 623.750 MHz | 6 | 624.000 MHz | 6 | 624.250 MHz | 6 | 624.500 MHz |
| 7 | 626.575 MHz | 7 | 626.825 MHz | 7 | 627.075 MHz | 7 | 627.325 MHz | 7 | 627.575 MHz |
| 8 | 630.425 MHz | 8 | 630.675 MHz | 8 | 630.925 MHz | 8 | 631.175 MHz | 8 | 631.425 MHz |
| 9 | 636.175 MHz | 9 | 636.425 MHz | 9 | 636.675 MHz | 9 | 636.925 MHz | 9 | 637.175 MHz |
| 10 | 639.475 MHz | 10 | 639.725 MHz | 10 | 639.975 MHz | 10 | 640.225 MHz | 10 | 640.475 MHz |
| 11 | 644.400 MHz | 11 | 644.650 MHz | 11 | 644.900 MHz | 11 | 645.150 MHz | 11 | 645.400 MHz |
| 12 | 650.775 MHz | 12 | 651.025 MHz | 12 | 651.275 MHz | 12 | 651.525 MHz | 12 | 651.775 MHz |
| 13 | 656.100 MHz | 13 | 656.350 MHz | 13 | 656.600 MHz | 13 | 656.850 MHz | 13 | 657.100 MHz |
| 14 | 666.950 MHz | 14 | 667.200 MHz | 14 | 667.450 MHz | 14 | 667.700 MHz | 14 | 667.950 MHz |



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 devices do not function at all | No power to the devices | Make sure that the receiver is switched on and connected to power supply Make sure that the batteries in the transmitter are inserted correctly |
| | The batteries in the transmitter are depleted | Change the batteries. See 4.3.6. Installation of the Batteries on page 18 |
| | The transmitter is switched off or does not function correctly | Make sure that the transmitter is switched on and the batteries are not depleted |
| | The transmitter is muted | Make sure the transmitter is not muted |
| | The volume is too low | Turn up the volume on the receiver Make sure that the volume on the connected devices is turned up |
| No sound | Channel selection | Make sure that the receiver and the transmitter are paired. See 4.3.9. Pairing on page 19 |
| | The transmitter is out of range | Move the transmitter closer to the receiver |
| | Connections are defective | Examine connections and cables. Correct defective connections. Repair or replace damaged cables |
| | The connected mixer or amplifier does not function correctly | Make sure that the connected mixer or amplifier is switched on and functions correctly |
| Bursts of noise or other | | Adjust the squelch threshold. See 5.3.1.10. Squelch on page 25 |
| audible signals | Sources of interference are present | Change the channel frequency |
| present | 3001CC3 OF IFFICITION CITE OF PRESENT | Identify potential sources of interference (other RF-sources) and turn them off |

6.1. Adjusting the Bodypack Gain

To adjust the gain of the bodypack, see **5.4. Control Panel – Transmitter** on page 27.





Maintenance 7.

7.1. **Preventive Maintenance**



Before use, examine the device visually for any defects.

Make sure that:

- All screws used for installing the device or parts of the device are tightly fastened and are not
- There are no deformations on housings, fixations and installation points.
- The power cables are not damaged and do not show any material fatigue.

7.1.1. Basic Cleaning Instructions

To clean the device, follow the steps below:

- 01) Disconnect the device from the electrical power supply.
- 02) Allow the device to cool down for 5 minutes.
- 03) 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

- Disconnect power supply before deinstallation.
- 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 31.
- Store the device in the original packaging, if possible.





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.

Approval

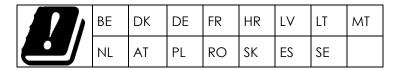


Hereby, Highlite International declares that the device EDGE EBS-2, product code D1480B, is in compliance with Directive 2014/53/EU (RED – Radio Equipment Directive).

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 EBS-2 is a Class 2 wireless audio device (Commission Decision 2000/299/EC).

Frequency: 610-670 MHz



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.









