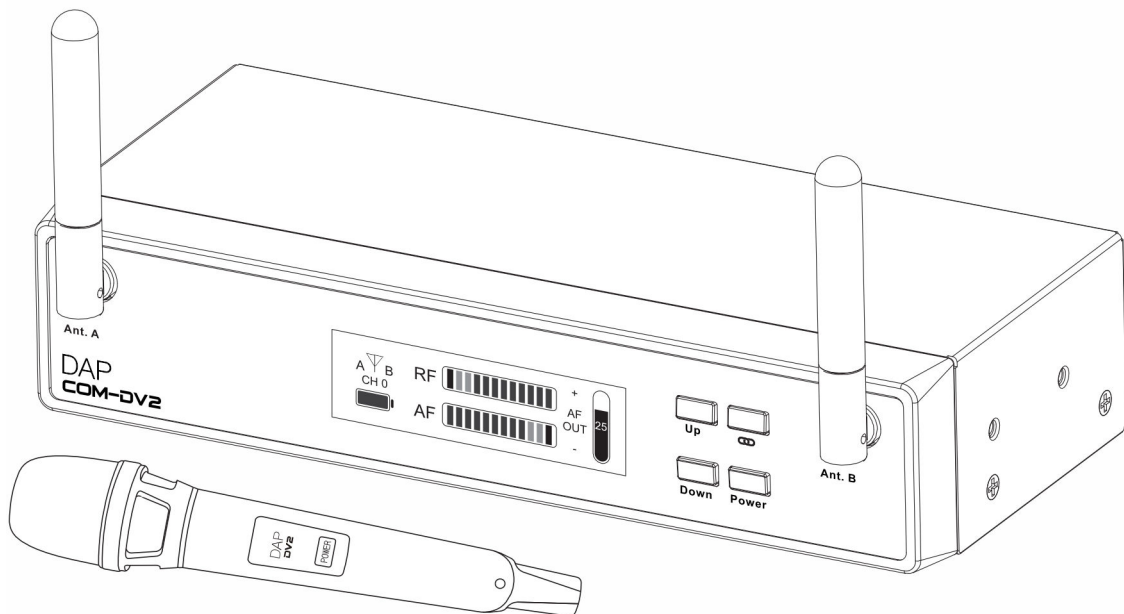


DAP

USER MANUAL

ENGLISH

V1.0



COM DV-2

Product code: D1402

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
- Intended and non-intended use of the device
- Installation and operation 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.

©2025 DAP. All rights reserved.

No part of this document may be copied, published or otherwise reproduced without the prior written consent of Highlite International.

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

For the latest version of this document or other language versions, please visit our website www.highlite.com or contact us at service@highlite.com.

Highlite International and its authorized service providers are not liable for any injury, damage, direct or indirect loss, consequential or economic loss or any other loss arising from the use of, or inability to use or reliance on the information contained in this document.

Highlite International B.V. – Vestastraat 2 – 6468 EX Kerkrade – the Netherlands

Table of contents

1. Introduction.....	3
1.1. Before Using the Product.....	3
1.2. Intended Use.....	3
1.3. Text Conventions.....	3
1.4. Symbols and Signal Words.....	4
1.5. Symbols on the Information Label.....	4
2. Safety.....	5
2.1. Warnings and Safety Instructions.....	5
2.2. Requirements for the User.....	6
3. Description of the Device.....	7
3.1. Front View.....	7
3.2. Back View.....	7
3.3. Microphone Front View.....	8
3.4. Microphone Back View.....	8
3.5. Product Specifications.....	9
3.6. Dimensions.....	11
4. Installation.....	12
4.1. Installation Site Requirements.....	12
4.2. Aligning the RF Antennas.....	12
4.3. Connecting Audio Devices.....	12
4.4. Connecting to Power Supply.....	12
4.5. Installation of the Batteries.....	13
5. Setup.....	14
5.1. Warnings and Precautions.....	14
5.2. Setup Examples.....	14
5.3. Turning On/Off.....	15
6. Operation.....	16
6.1. Safety Instructions for Operation.....	16
6.2. Switching ON/OFF.....	16
6.3. Control Panel.....	16
6.4. Switching On/Off Microphone.....	17
6.4.1. Microphone Status Indicator Ring.....	17
6.4.2. Microphone Buttons.....	18
6.5. Pairing.....	19
7. Troubleshooting.....	20
8. Maintenance.....	21
8.1. Safety Instructions for Maintenance.....	21
8.2. Preventive Maintenance.....	21
8.2.1. Basic Cleaning Instructions.....	21
8.2.2. Cleaning the Microphone.....	22
8.3. Corrective Maintenance.....	23
9. Deinstallation, Transportation and Storage.....	24
10. Disposal.....	24
11. Approval.....	24

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.

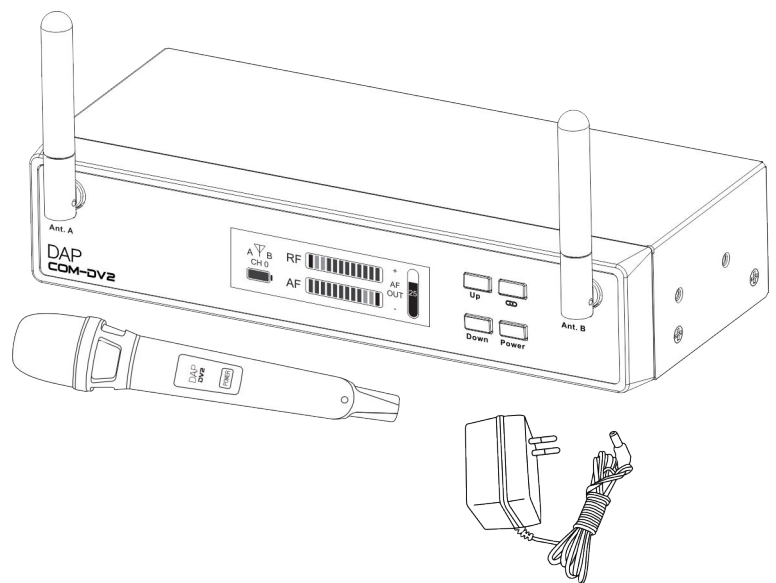
The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

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

Your shipment includes:

- DAP COM DV-2
- Power adapter 12 V DC with cable (1,5 m)
- User manual

Figure 1



1.2. Intended Use

This device is intended for professional use as a wireless handheld microphone set. It can be used only indoors. This device is not suitable for households.

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

1.3. 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 parts of the device are in bold lettering, for example: "turn the **adjustment handle (05)**". References to chapters are hyperlinked
- 0–255: Defines a range of values
- Notes: **Note:** (in bold lettering) is followed by useful information or tips

1.4. 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 a potentially 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.

1.5. 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 is designed for indoor use.



This device shall not be treated as household waste.



This device falls under IEC protection class III.

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 any parts of the packaging (plastic bags, polystyrene foam, nails, etc.) within the reach of children. Packaging material is a potential source of danger for children.

**Attention**

Power supply

Before connecting the AC power adapter 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 AC power adapter.

**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 properly, discontinue use immediately.

**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**

For professional use only

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

This device is designed to be used as a wireless handheld microphone set. Any incorrect use may lead to hazardous situations and result in injuries and material damage.

- This device is not suitable for households.

- 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****Before each 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 corroded.
- There are no deformations on housings, fixings and installation points.
- The power cables are not damaged and do not show any material fatigue.

**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 may be carried out by ordinary persons. Installation and 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 installation, service and maintenance 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 avoid hazards associated with the installation, service and maintenance of this product.

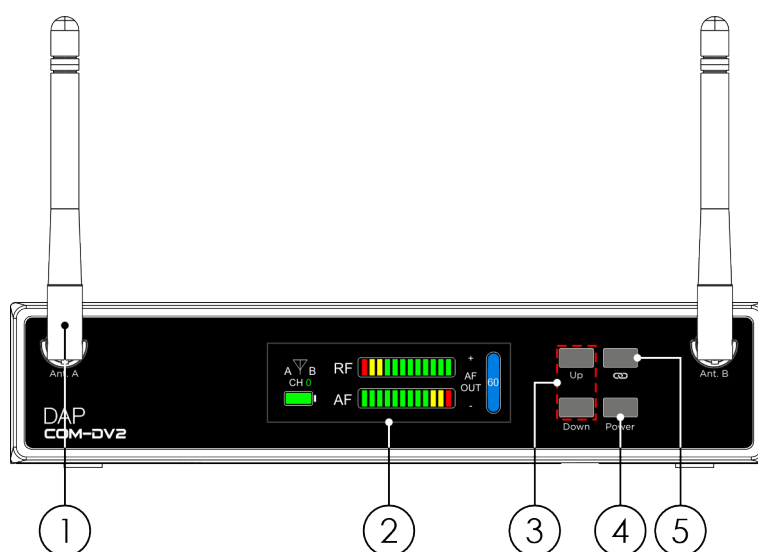
Ordinary persons are all persons other than instructed persons and skilled persons. Ordinary persons include not only users of the product but also any other persons that may have access to the device or who may be in the vicinity of the device.

3. Description of the Device

The DAP COM DV-2 is a wireless handheld microphone set operating in the licence-free 2.4-GHz band. The microphone features a dynamic head with 8 gain settings. An internal 24-bit/48-kHz converter prepares the audio signal for low-latency wireless transmission. The handheld microphone has an LED status indication ring that conveniently shows its current operating status. It can last up to 12 hours on a pair of AA batteries. The receiver offers diversity with its two front antennas. It automatically searches for an interference-free RF band, and the handheld microphone can be synchronized with the receiver at the push of a button. The full-colour LCD display provides instant information on the status, showing which of the two antennas is in use, the operating channel, the battery level of the handheld microphone, the transmission signal power, the audio signal level and the output volume setting. Up to four systems can be used simultaneously.

3.1. Front View

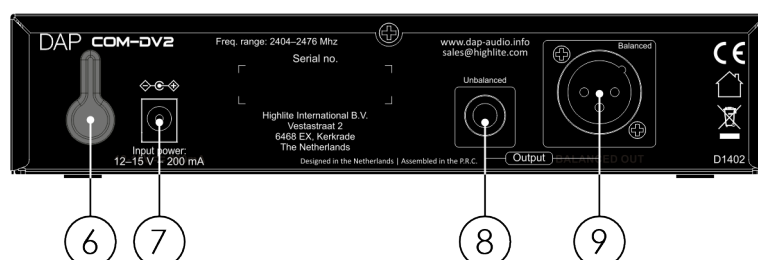
Figure 2



- 01) 2 x RF antenna
- 02) LCD display (1,9")
- 03) Up/Down output gain level buttons
- 04) Power button
- 05) Pairing button

3.2. Back View

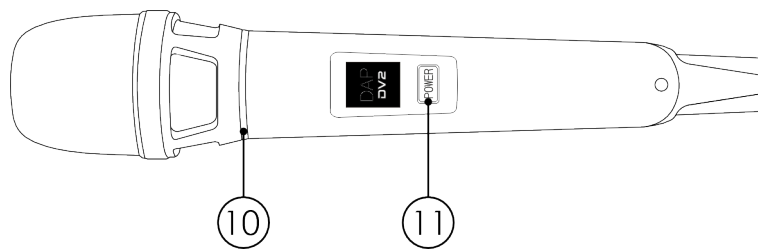
Figure 3



- 06) Strain relief for the connection cable of the power supply unit
- 07) 12-15 V DC input connector 200 mA
- 08) 6,3 mm jack unbalanced AF connector OUT
- 09) 3-pin XLR balanced AF connector OUT

3.3. Microphone Front View

Figure 4

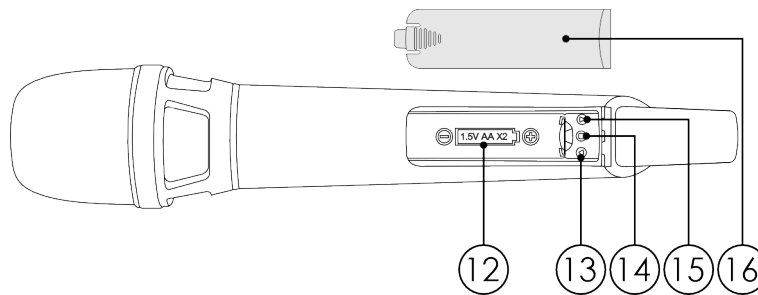


10) Status indicator ring

11) Pairing / Power On/Off button

3.4. Microphone Back View

Figure 5



12) Battery compartment for 2 x AA batteries

13) Gain + button

14) Operating channel button

15) Gain - button

16) Battery cover

3.5. Product Specifications

Model:	COM DV-2
--------	----------

Outputs:	
Main outputs	1
Main output connector	3-pin XLR / TS unbalanced 6.3 mm

Audio Specifications:	
Signal-to-noise ratio	> 90 dB
Audio latency	3,6 ms
Microphone type	Dynamic
Frequency response minimum	20 Hz
Frequency response maximum	20000 Hz
Microphone ON/OFF switch	Yes

Wireless Specifications:	
Wireless microphone frequency start	2404 MHz
Wireless microphone frequency end	2476 MHz
RF power	10 mW

Battery:	
Battery type	AA
Battery voltage	1.5 V
Runtime @Full	12 h
Runtime average	12 h

Internal Storage:	
Channels	6

Control and Programming:	
Display	LCD
Display size	1,9 "

Electrical Specifications and Connections:	
Power supply	100–240 V AC 50/60 Hz
Output voltage	12 V DC
Power consumption	6 W
Power connector IN	Low voltage DC plug

Mechanical Specifications:	
Height	42 mm
Width	197 mm
Length	106,1 mm
Transmitter height	255 mm
Transmitter width	51,3 mm
Transmitter length	50 mm
Diameter	36,3 mm

Installation depth (excl. connector)	123 mm
Housing	Metal
Weight	0,49 kg
Transmitter weight	0,33 kg
Color	Black

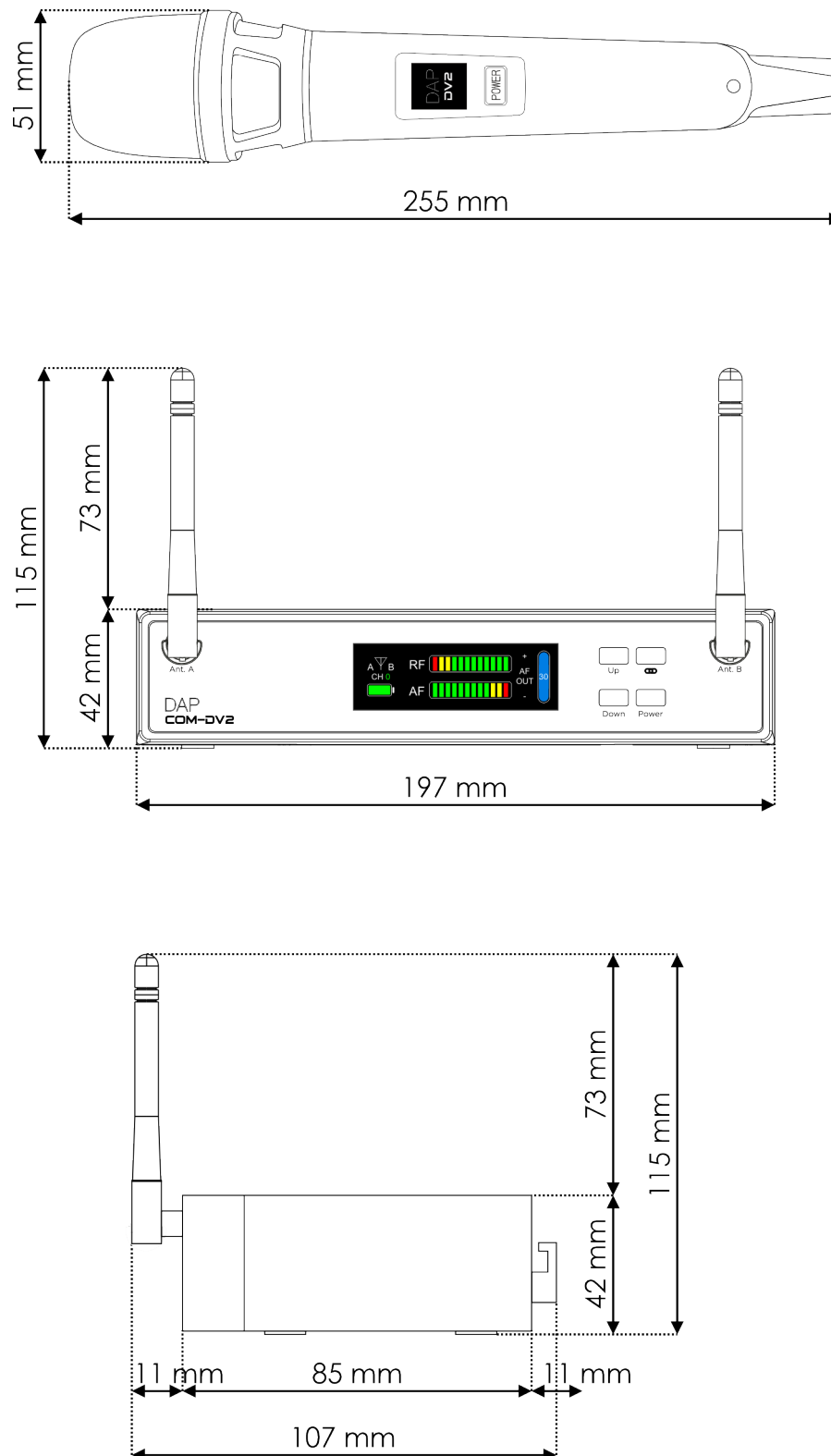
Product Properties:

Transmitter type	Handheld
Receiver type	Single receiver
LED indicators	Operation mode

Power Adapter:

Adapter type	AC-DC adapter
Output voltage DC	12 V DC
Output current DC (A)	0,5 A
Output current DC (mA)	500 mA

3.6. Dimensions

Figure 6

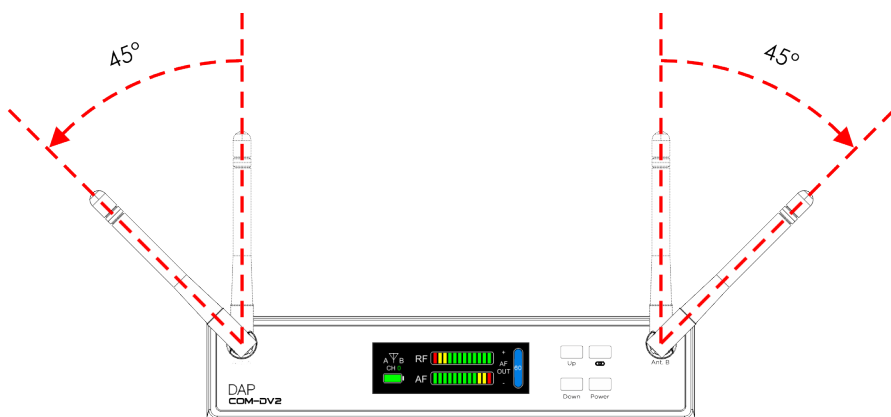
4. Installation

4.1. Installation Site Requirements

- 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.

4.2. Aligning the RF Antennas

The device is delivered with 2 RF antennas. To get the optimal reception point the antennas away from each other at an angle of 45°.



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. Connecting Audio Devices

The device has 1 unbalanced 6,3 mm jack AF connector OUT and 1 balanced XLR output.

Turn off the COM DV-2 when connecting audio devices in order to avoid interference.

- Use a suitable cable to connect an audio output device (an active speaker, an amplifier, etc.) to the **6,3 mm jack AF connector OUT/ (08)** or the **3-pin XLR balanced connector output (09)**.

4.4. 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.

- Make sure that the current, voltage and frequency match the input voltage, current and frequency specified on the information label on the AC power adapter.
- Connect the device 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.

4.5. Installation of the Batteries

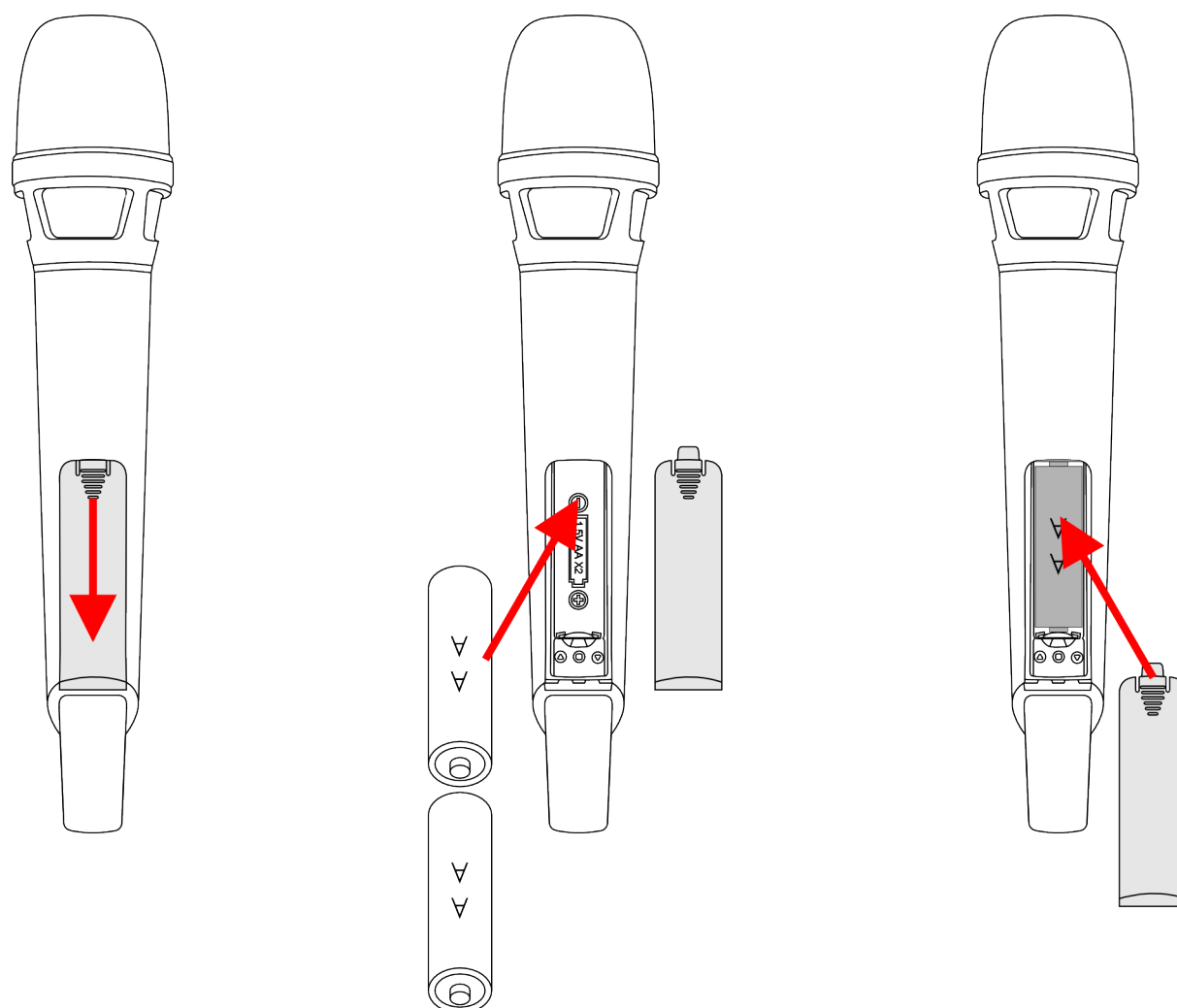
The device is used in combination with an external microphone. The microphone is included in the delivery.

The microphone is delivered without batteries. It accepts 2 x AA 1,5 V (alkaline) batteries.

To install the batteries:

- 01) Press on the battery compartment cover and slide it downwards to open the battery compartment.
- 02) Insert 2 x AA 1,5 V batteries into the battery housing. Make sure that you install the batteries with correct polarity orientation.
- 03) Close the battery compartment cover.

Figure 7



Note:

When using rechargeable batteries the **battery level indicator (B)** may show a lower battery level due to a lower voltage of the batteries. Instead of regular 1,5 V alkaline batteries, rechargeable batteries are usually 1,2 V.

5. Setup

5.1. Warnings and Precautions



Attention

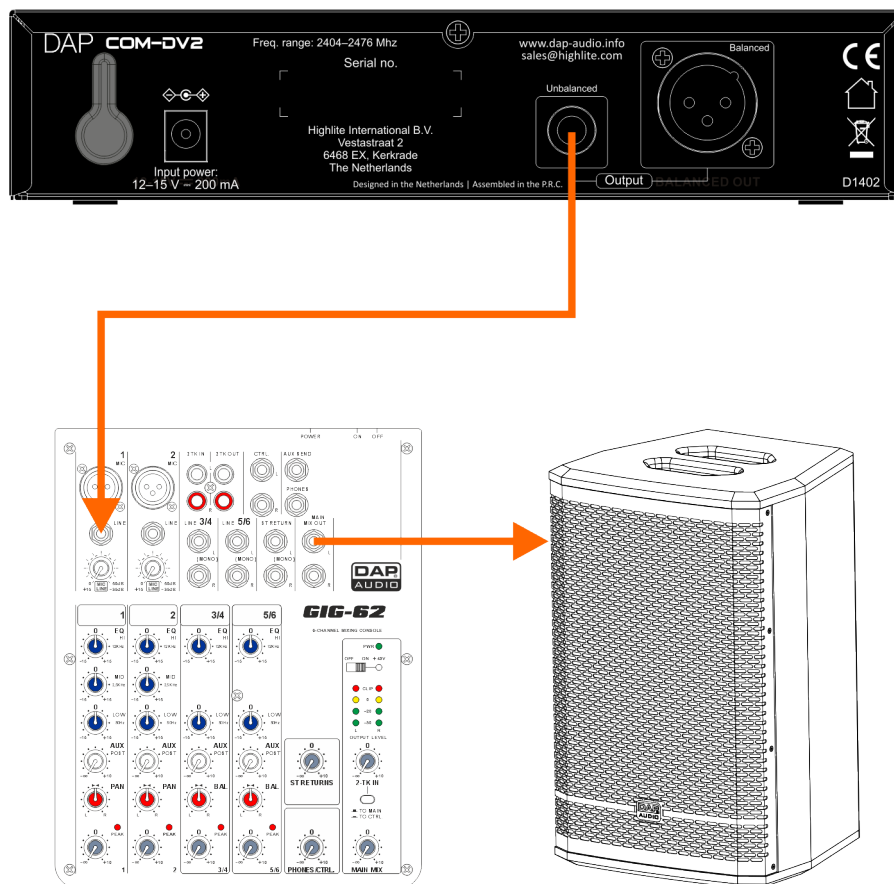
Connect all data cables before supplying power.

Disconnect power supply before connecting or disconnecting data cables.

5.2. Setup Examples

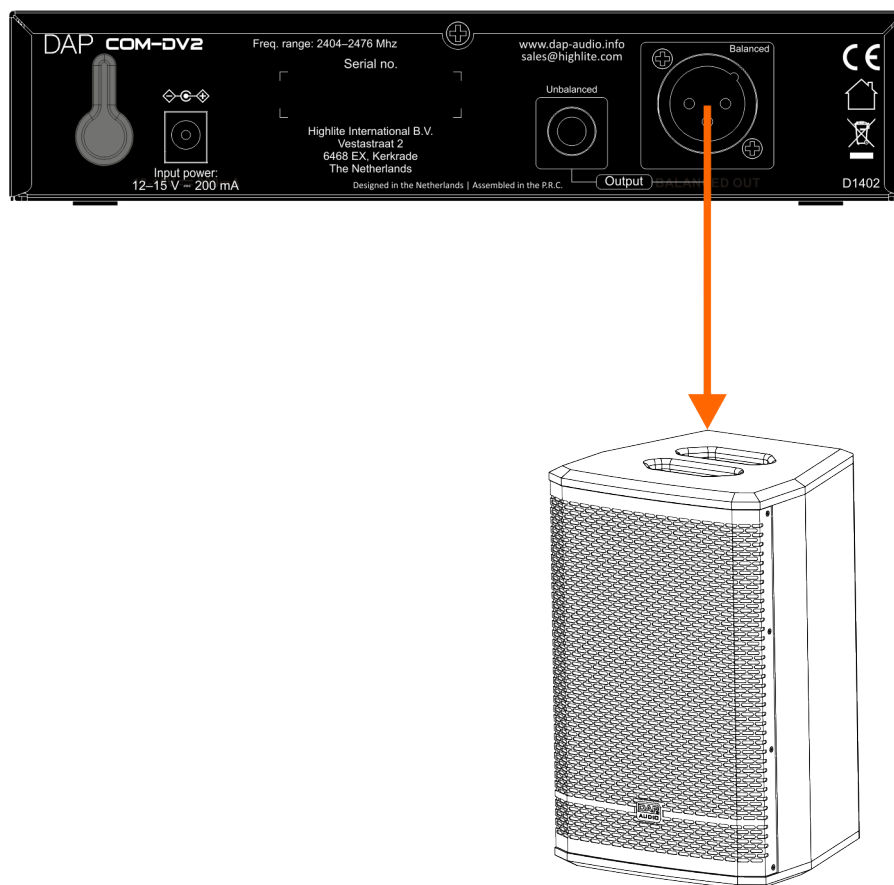
The figure below shows a typical setup with the device connected to a mixer and a speaker.

Figure 8



The figure below shows a typical setup with the device connected to a speaker.

Figure 9



5.3. Turning On/Off

The device has a power switch.

- To switch the device on, press and hold the **power button (04)**, the LCD display lights up.
- To switch the device off, press and hold down the **power button (04)** again, the LCD display shows:

POWER OFF

Make sure that the device is turned off with the **power button (04)** when not in use.

6. Operation

6.1. Safety Instructions for Operation



Attention

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

This device is intended for professional use as a wireless handheld microphone set. It can be used only indoors. This device 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.

6.2. Switching ON/OFF

The device has a power switch.

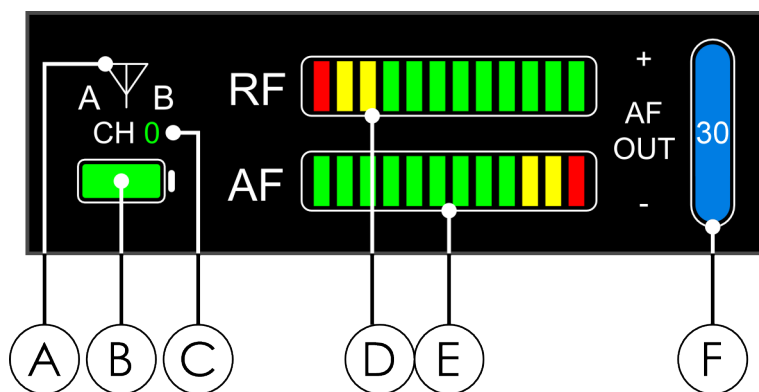
- To switch the device on, press and hold the **power button (04)**, the LCD display lights up.
- To switch the device off, press and hold down the **power button (04)** again, the LCD display shows:

POWER OFF

Make sure that the device is turned off with the **power button (04)** when not in use.

6.3. Control Panel

Figure 10



- A) Antenna A/B indicator: Shows the true diversity of the antenna's.
- B) Battery level indicator: Green battery symbol = normal battery level; Red flashing battery symbol = low battery level.
- C) Operating channel indicator: Shows the current operating channel.
- D) RF Indicator: Shows the strength of the input RF signal
- E) AF indicator: Shows the strength of the AF audio signal
- F) Microphone volume +/-

- Use the **Up/Down buttons (03)** on the device to adjust current volume of the microphone. There are 30 steps of volume setting available.

6.4. Switching On/Off Microphone

The microphone has a power switch.

- To switch the device on, press and hold the **power button (11)**, the **status indicator ring (10)** turns green.
- To switch the device off, press and hold the **power button (11)** again. When the **status indicator ring (10)** turns yellow, release the button immediately.

Note:

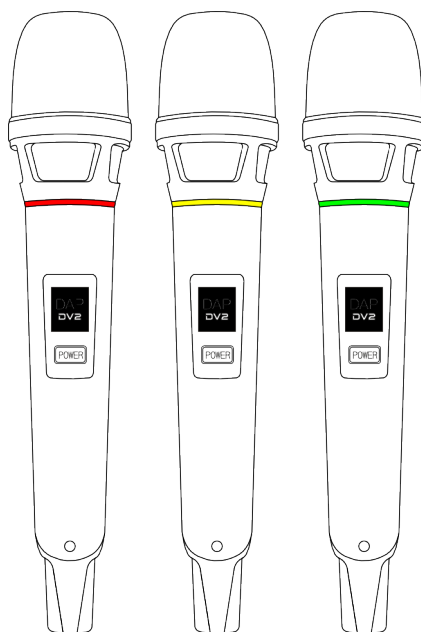
For more information about the **microphone status indicator ring (11)** (see [6.4.1. Microphone Status Indicator Ring](#)).

6.4.1. Microphone Status Indicator Ring

The device has a **status indicator ring (10)** that shows the state of the microphone:

LED color	Color	Status
	Red	Mute
	Red flashing	Low battery
	Yellow	Power off
	Yellow flashing	Pairing
	Green	Normal status

Figure 11

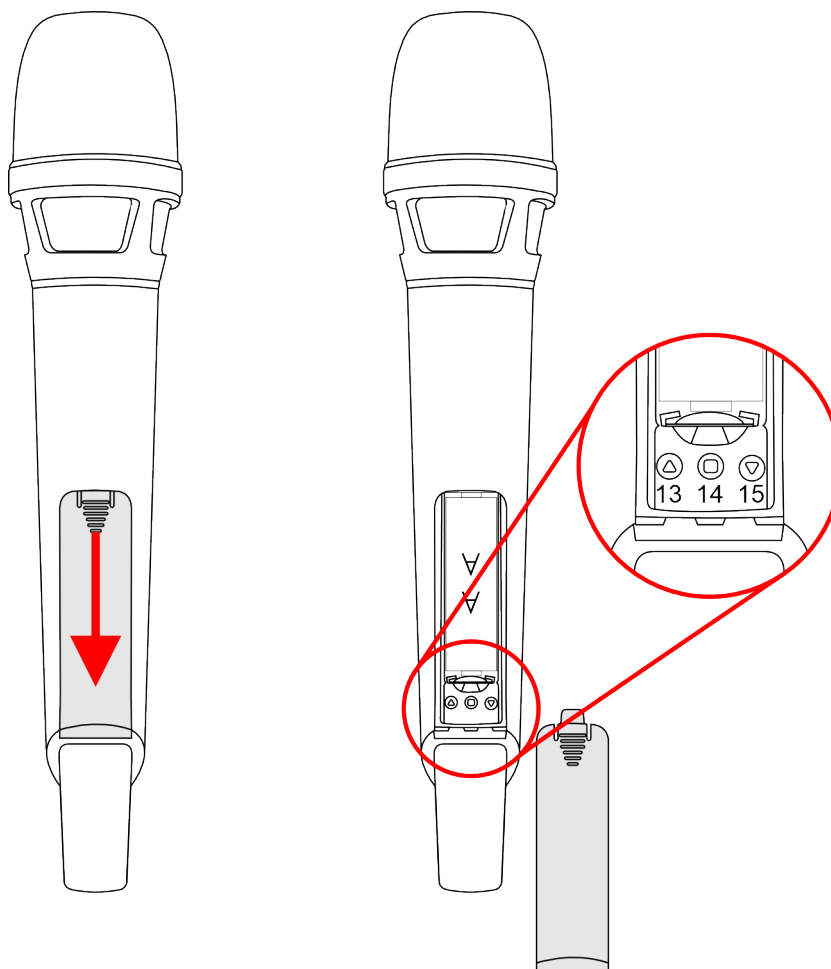


6.4.2. Microphone Buttons

To set the microphone channel (0–5) or the gain (+/-):

- 01) Press on the battery compartment cover and slide it downwards to open the battery compartment.
- 02) Press the **operating channel button (14)** on the microphone to switch the operating channel (0–5) of the microphone. Every time when switching to another operating channel, the **status indicator ring (10)** flashes green once.
- 03) Press and hold the **Gain + button (13)** on the microphone for 3 s to enter the gain adjustment mode. The **status indicator ring (10)** slowly starts flashing yellow. Press the **Gain + button (13)** to gradually increase the volume gain, until the maximum gain is reached and the ring is quickly flashing. There are 8 gain steps in total. The microphone will automatically exit the gain mode if no button is pressed after 10 seconds.
- 04) Press and hold the **Gain - button (15)** on the microphone for 3 s to enter the gain adjustment mode. The **status indicator ring (10)** slowly starts flashing yellow. Press the **Gain - button (15)** to gradually decrease the volume gain, until the minimum gain is reached and the ring is quickly flashing. There are 8 gain steps in total. The microphone will automatically exit the gain mode if no button is pressed after 10 seconds.
- 05) Close the battery compartment cover.

Figure 12



6.5. Pairing

- 01) Press and hold the **Pairing button (11)** on the microphone for 6 s, until the ring starts flashing yellow to enter pairing mode. For more information about the microphone status indicator ring (see [6.4.1. Microphone Status Indicator Ring](#) on page 17).
- 02) Press and hold the **Pairing button (05)** on the device for 2 s to enter pairing status. The display shows:



PAIRING.....

- 03) There is a 10 s time window to make a connection. When pairing is successful, the display shows:



PAIRING SUCCESSFUL

- 04) If no pairing connection is made, the display shows:



PAIR FAILED

- 05) Reduce the distance between the microphone and the device and restart the linking process.

Note:

Use the **Up/Down buttons (03)** to adjust current volume of the device. There are 30 steps of volume setting available. The display shows the **Volume Level (F)**.

7. 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	No power to the device	- Make sure that the power is switched on and the cables are plugged in - Make sure that the device is not in standby mode
	Internal fuse is blown	Contact your Highlite International dealer
No sound	The volume is set to minimum	Increase the gain volume on the device and/or increase the gain volume on the microphone
The device cannot connect to the microphone	Antenna is not correctly positioned	Make sure that the antenna is correctly positioned (see 4.2. Aligning the RF Antennas on page 12)
The device does not respond to the microphone	The microphone is outside of the range of the device	Make sure that there is a clear line of sight between the microphone and the device
	The batteries in the microphone are depleted	Change the batteries in the microphone control

8. Maintenance

8.1. Safety Instructions for Maintenance

**DANGER**

Electric shock caused by dangerous voltage inside

Disconnect power supply before servicing or cleaning.

8.2. Preventive Maintenance

**Attention**

Before use, examine the device visually for any defects.

Make sure that:

- The housing is not damaged.
- The power cable is not damaged and does not show any material fatigue.

8.2.1. 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 at least 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.

8.2.2. Cleaning the Microphone

To clean the microphone, follow the steps below:

- 01) Press the **power button (11)** again, the **status indicator ring (10)** turns yellow and the microphone switches off, as shown in Fig. 13.
- 02) Do not unscrew the entire head of the microphone, but unscrew the top part of the metal grid from the microphone by turning it counterclockwise, as shown in Fig. 14.

Figure 13

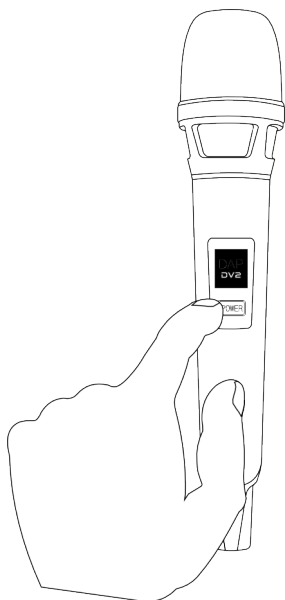
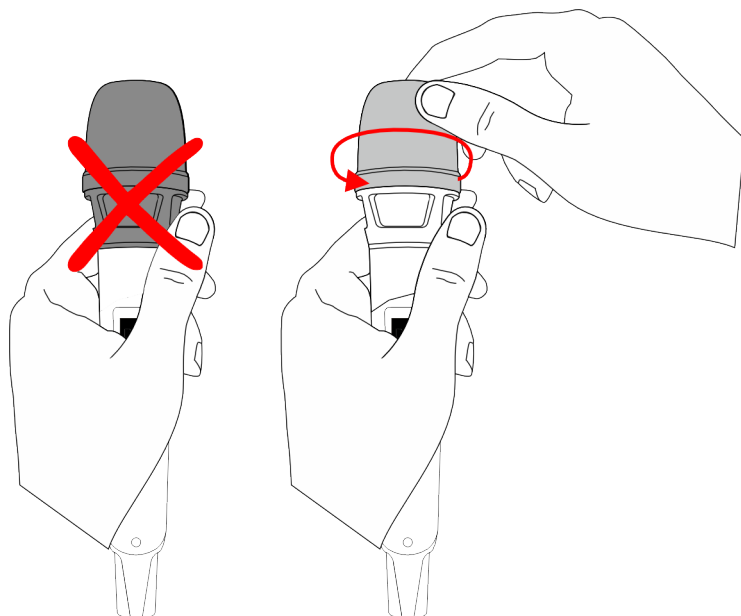


Figure 14



- 03) Remove the top part of the metal grid with the foam insert from the microphone, as shown in Fig. 15.
- 04) Remove the foam insert, as shown in Fig. 16.

Figure 15

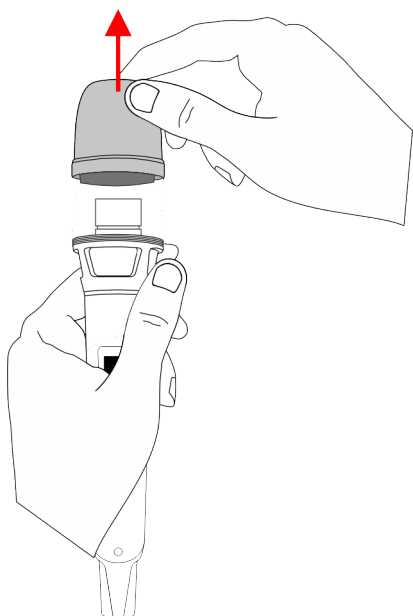
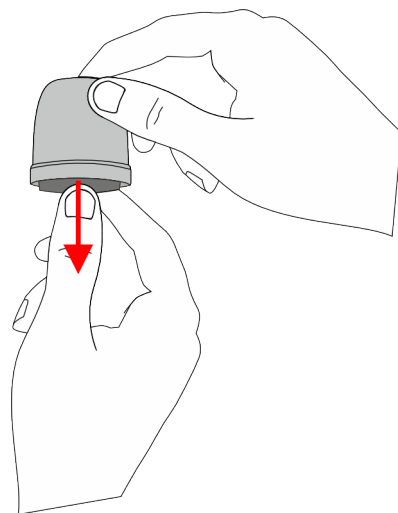
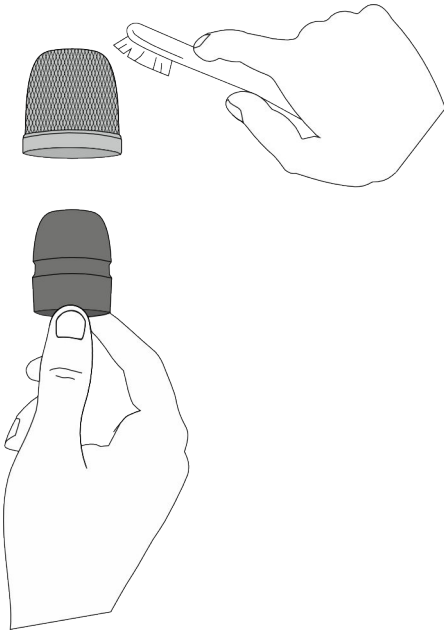


Figure 16



- 05) Clean the inside and outside of the metal grid with a nylon brush and a slightly damp cloth and rinse with clean water. Clean the foam insert with a mild detergent or replace the foam insert, as shown in Fig. 17.
- 06) Dry the top sound inlet basket and foam insert thoroughly.
- 07) Reinsert the foam insert into the sound inlet basket.
- 08) Screw the sound inlet basket back with foam insert onto the microphone.

Figure 17



8.3. Corrective Maintenance

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

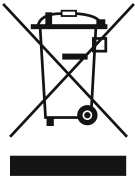
Refer repairs and servicing to instructed or skilled persons. Contact your Highlite International dealer for more information.

9. Deinstallation, Transportation and Storage

- Use the original packaging to transport the device, if possible.
- Clean the device before storing.
- Store the device in the original packaging, if possible.

10. 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.

11. Approval



Hereby, Highlite International declares that the device COM DV-2, product code D1402, is in compliance with Directive 2014/53/EU (RED – Radio Equipment Directive).

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

DAP