



# HSP 4

Model: HSP 4  
HSP 4-3  
HSP 4-ew  
HSP 4-ew-3

Instruction manual



**SENNHEISER**

## Important safety instructions

1. Read these safety instructions and the instruction manual of the product.
2. Keep these safety instructions and the instruction manual of the product. Always include all instructions when passing the product on to third parties.
3. Only use attachments, accessories and spare parts specified by the manufacturer.
4. Caution: The protective basket and pop shield must be completely dry when you mount them on the microphone. Moisture can cause malfunctions or damage to the capsule.
5. Do not attempt to open the product housing on your own. The warranty is voided for products opened by the customer.
6. Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, liquid has been spilled or objects have fallen into the product, when the product has been exposed to rain or moisture, does not operate normally, or has been dropped.
7. Use the product only under the conditions of use listed in the specifications.
8. Let the product come to ambient temperature before switching it on.
9. Do not operate the product if it was damaged during transportation.
10. Always run cables so that no one can trip over them.
11. Keep the product and its connections away from liquids and electrically conductive objects that are not necessary for operating the product.
12. Do not use any solvents or aggressive cleaning agents to clean the product.
13. Caution: Very high signal levels can damage your hearing and your loudspeakers. Reduce the volume on the connected audio devices before switching on the product; this will also help prevent acoustic feedback.

## **Intended use**

The product is designed for indoor and outdoor use.

The product can be used for commercial purposes.

It is considered improper use when the product is used for any application not named in the corresponding instruction manual.

Sennheiser does not accept liability for damage arising from improper use or misuse of this product and its attachments/accessories.

Before putting the products into operation, please observe the respective country-specific regulations!

## **Delivery includes**

- boom microphone
- neckband
- 5 clips
- silicone tube
- connection cable
- plastic transport case, foam-lined with cut-outs
- windshield
- instruction manual

## Putting into operation

The HSP 4 is ready for operation on delivery. The microphone can be worn on the left or right side of the mouth.

### Attaching the microphone to the left or right side

The neckband has a clip which is designed so that the microphone boom can be worn on either side of the mouth.



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## NOTICE

### Damage to the microphone boom!

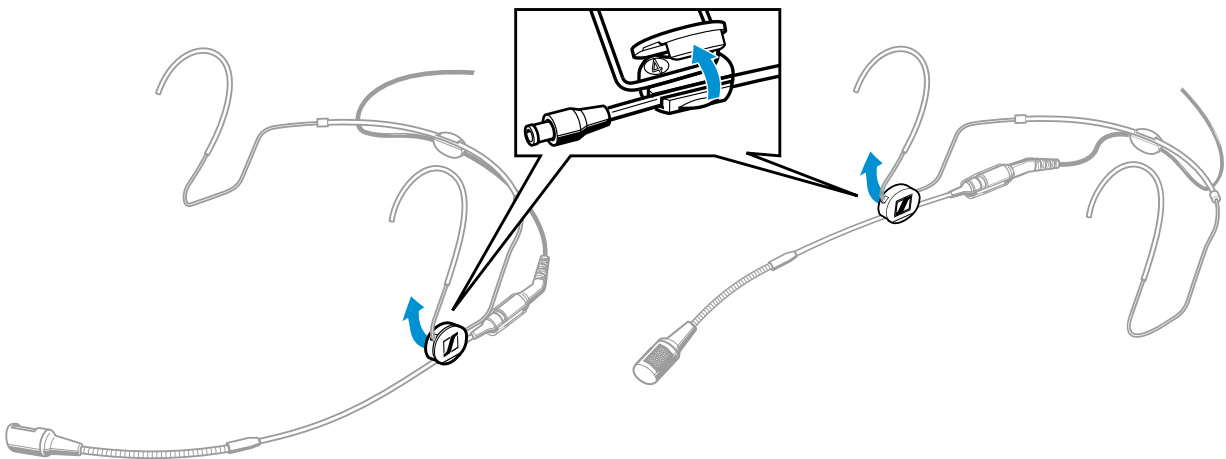
The microphone boom can break or be impaired in its function when you bend or turn it.

- ▷ Only adjust the microphone boom as described in this chapter.

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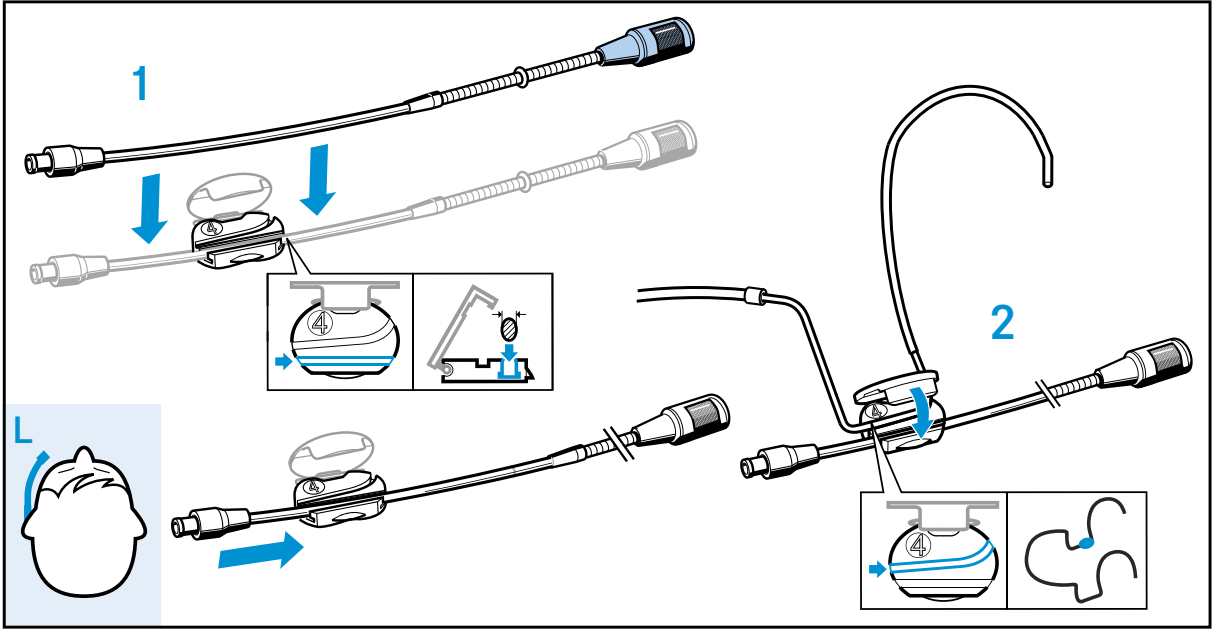
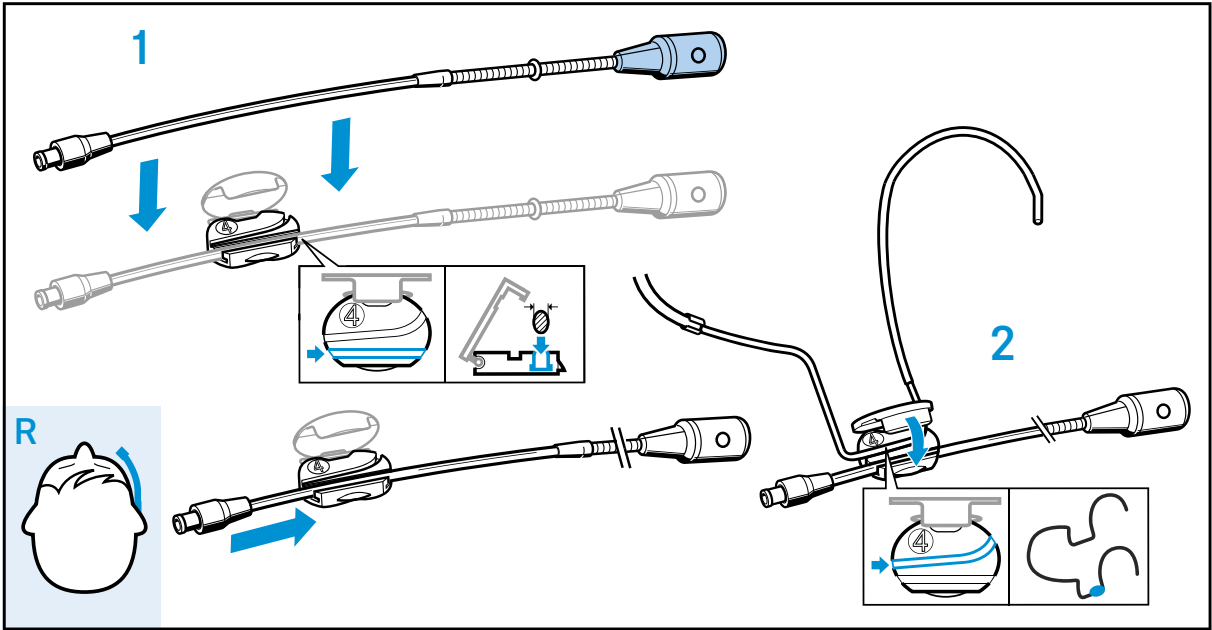
To remove the microphone boom:

- ▷ Open the clip on the neckband.
- ▷ Carefully remove the microphone boom and the neckband from the clip.



To reattach the microphone boom:

- ▷ 1 First press the microphone boom and then the neckband into the clip as shown.
- ▷ 2 Close the clip.



## Adjusting the microphone boom and the neckband

For best possible comfort and optimum fit of the headmic, the neckband and the microphone boom have to be adjusted to properly fit your head.

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### NOTICE

#### Damage to the microphone boom!

The microphone boom can break or be impaired in its function when you bend or turn it.

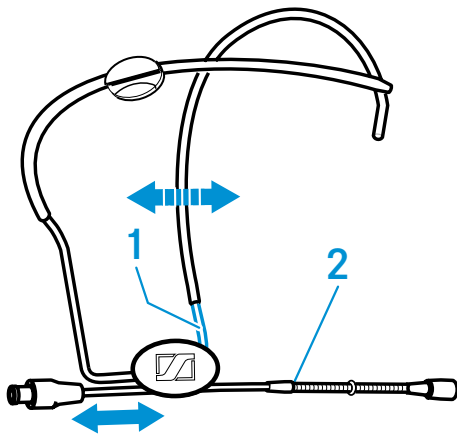
- ▶ For adjusting the microphone boom, **ONLY** bend or turn the neckband or the flexible gooseneck at the forward part of the microphone boom.

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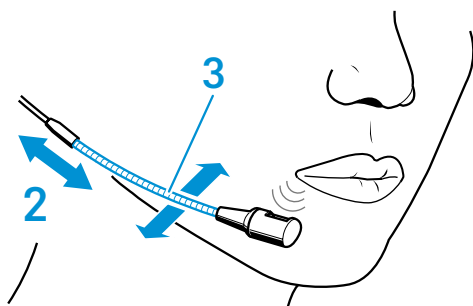
### Positioning the microphone towards the corner of the mouth

To individually position the microphone:

- ▶ Bend the neckband **1** at the clip to adjust the angle of the microphone boom **2**.
- ▶ Push the microphone boom **2** backwards or forwards in the clip so that the microphone is positioned directly at the corner of the mouth as shown.



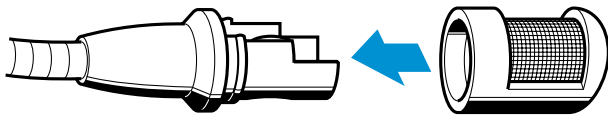
- ▶ If necessary, precisely position the microphone by using the flexible gooseneck **3**.



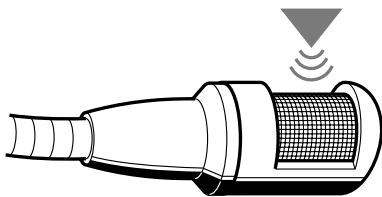
## Attaching the sound inlet basket

### Notes:

- ▷ Do not position the microphone directly in front of your mouth as it will pick up your breathing and plosive noises from your mouth. In addition, moisture can adversely affect the sound and performance of your microphone.
- ▷ When attaching the sound inlet basket, make sure that it locks into place with an audible click.



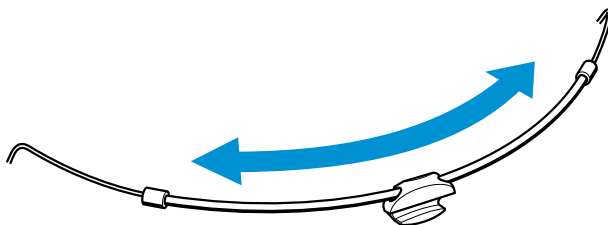
- ▷ Make sure not to cover the sound inlet.



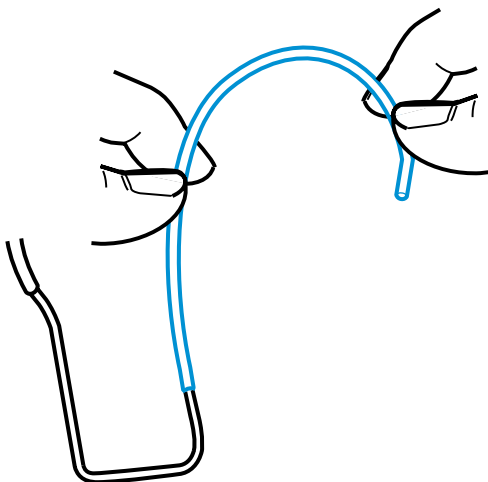
## Adjusting the neckband

The neckband is flexible and ensures an optimum fit.

- ▷ Change the length of the neckband until a snug but comfortable fit is achieved.



- ▷ If necessary, adjust the neckband at the earhooks.

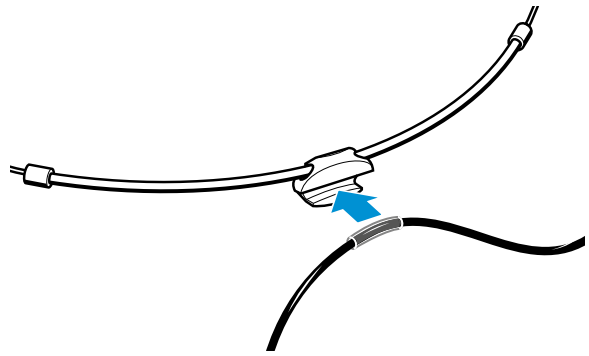


## Attaching the cable to the cable grip

- ▷ Attach the microphone cable to the cable grip in the centre of the neckband.

### Note:

When attaching the thin cable, make sure you also press the small cable sleeve into the cable grip or the cable will fall out.



## Care and maintenance

### NOTICE

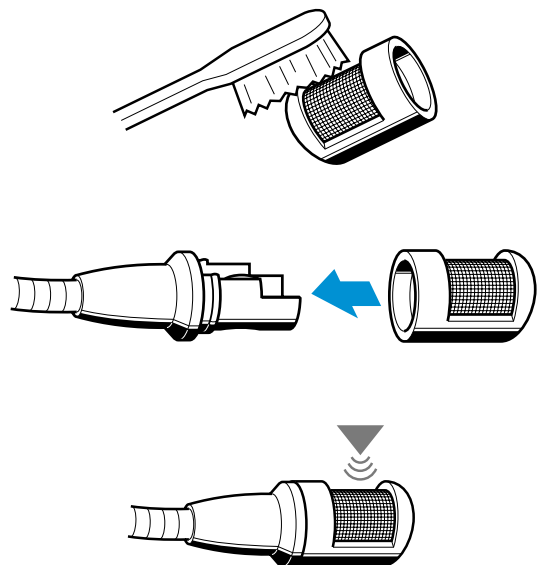
**Liquids can damage the electronics of the device!**

Liquids entering the housing of the device can cause a short-circuit and damage the electronics.

- ▷ Only use a soft, slightly damp cloth to clean the device.

### Cleaning the sound inlet basket

- ▷ To clean or replace the sound inlet basket, carefully pull it from the capsule.
- ▷ Moisten a small brush (bristle brush or toothbrush) with isopropyl alcohol.
- ▷ Carefully brush off the sound inlet basket.
- ▷ Allow the sound inlet basket to air dry for approx. 1 hour so that the remaining isopropyl alcohol can evaporate.
- ▷ Reattach the sound inlet basket to the capsule so that it locks into place with an audible click. When attaching the sound inlet basket, make sure not to cover the sound inlet.



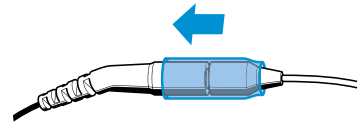


## Cleaning the contacts of the connection cable

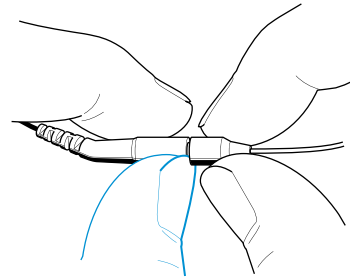
Over time, salt deposits from sweat can build up on the connector and the socket. Clean the connector and the socket using standard isopropyl alcohol.

To loosen the connection:

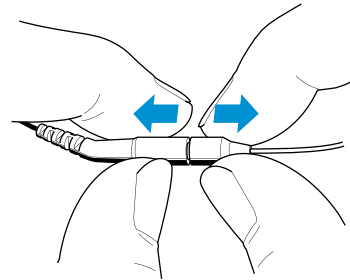
- ▷ Slide the silicone tube aside.



- ▷ Insert your fingernail into the join.

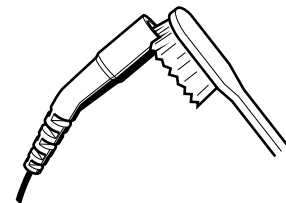


- ▷ Pull the connector and the socket apart as shown.



- ▷ Moisten a small brush (bristle brush or toothbrush) with isopropyl alcohol.

- ▷ Carefully brush off the connector and the socket and remove the salt deposits.



- ▷ Rinse the connector and the socket with isopropyl alcohol to remove the remaining salt deposits.



- ▷ Dry the connector and the socket using a soft cloth or a small piece of cotton wool and carefully tap them off.

- ▷ Allow the connector and the socket to air dry for approx. 1 hour so that the remaining isopropyl alcohol can evaporate.

- ▷ Slide the silicone tube onto the connector.

- ▷ Connect the connector to the socket.

## Specifications

Frequency range	40 – 20,000 Hz ± 3 dB
Pick-up pattern	Cardioid
Rated impedance (at 1 kHz)	1 kΩ
Min. terminating impedance	4.7 kΩ
Sensitivity	4 mV/Pa ±3 dB
Diameter of mic capsule	8.4 mm
Sound pressure level limit	150 dB
Equivalent noise level	37 dB(A)
Power consumption	approx. 250 μA
Supply voltage	4.5 – 15 V
Operating temperature	-10 °C – +50 °C
Cable length	1.6 m
Diameter of boom arm	2 mm
Weight	4.8 g
Connector	3.5 mm mini-jack or 3-pin
Neckband	
Width	110 mm
Weight	4.4 g

DE

EN

FR

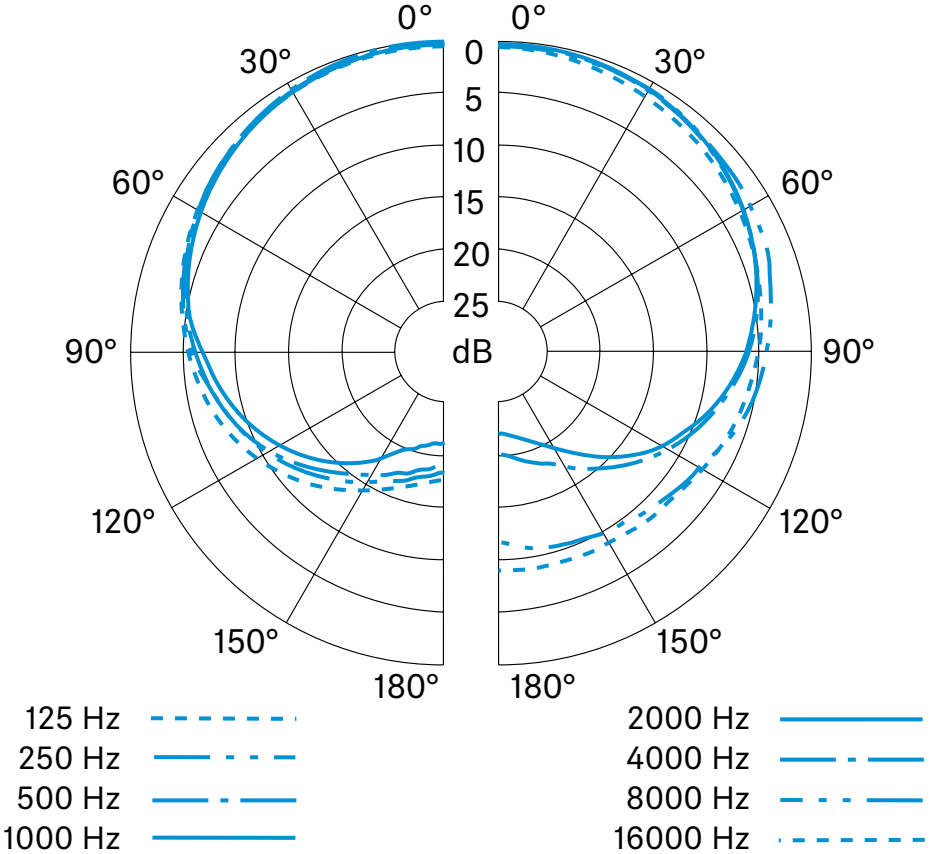
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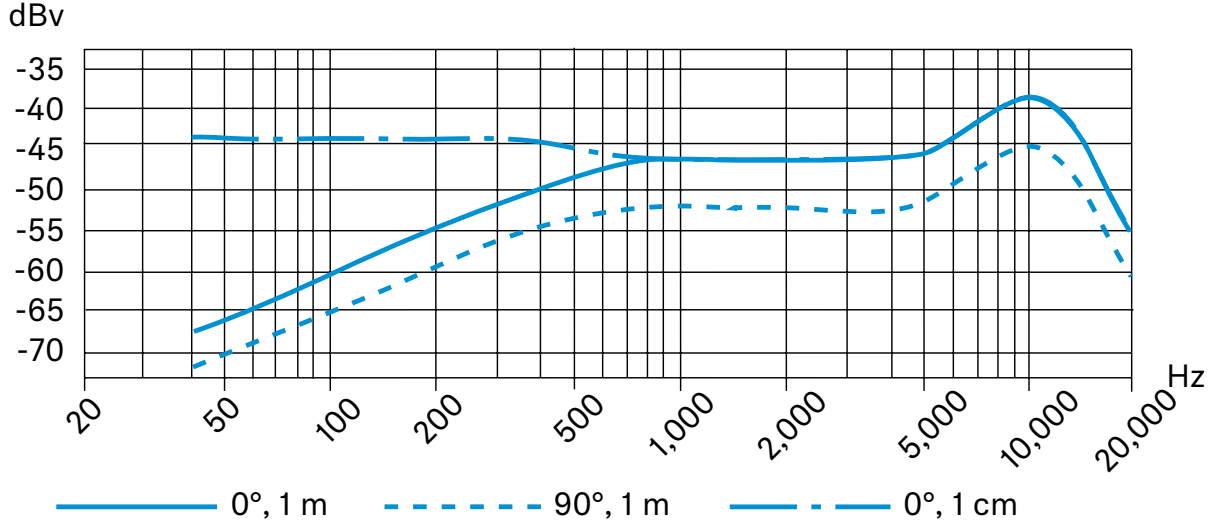
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COMPLIANCE

### Polar pattern



### Frequency response



# Manufacturer declarations

## Warranty

Sennheiser electronic GmbH & Co. KG gives a warranty of 24 months on these products.

For the current warranty conditions, please visit our website at [www.sennheiser.com](http://www.sennheiser.com) or contact your Sennheiser partner.

### In the US please contact:

Sennheiser Electronic Corporation  
1 Enterprise Drive, Old Lyme, CT 06371  
[www.sennheiser.com](http://www.sennheiser.com)

### Warranty FOR AUSTRALIA and NEW ZEALAND ONLY:

Sennheiser Australia Pty Ltd provides a warranty of 24 months on these products.

For the current warranty conditions, visit Sennheiser website:

Australia: <https://en-au.sennheiser.com/>

New Zealand: <https://en-nz.sennheiser.com/>

Sennheiser goods come with guarantees that cannot be excluded under Australian and New Zealand Consumer law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty is in addition to other rights or remedies under law. Nothing in this warranty excludes, limits or modifies any remedy available to be consumer which is granted by law.

To make a claim under this contract, raise a case via Sennheiser website

Australia:

<https://en-au.sennheiser.com/service-support-contact>

New Zealand:

<https://en-nz.sennheiser.com/service-support-contact>

All expenses of claiming the warranty will be borne by the person making the claim.

Sennheiser international warranty is provided by: Sennheiser Australia Pty Ltd (ABN 68 165 388 312) Level 14, Tower A Zenith Building, 821 Pacific Highway, Chatswood NSW 2067, Australia

## In compliance with the following requirements

EU: • WEEE Directive (2012/19/EU)

UK: • WEEE Regulations (2013)



### Notes on disposal

The symbol of the crossed-out wheeled bin on the product, the battery/rechargeable battery (if applicable) and/or the packaging indicates that these products must not be disposed of with normal household waste, but must be disposed of separately at the end of their operational lifetime. For packaging disposal, please observe the legal regulations on waste segregation applicable in your country.

Further information on the recycling of these products can be obtained from your municipal administration, from the municipal collection points, or from your Sennheiser partner.

The separate collection of waste electrical and electronic equipment, batteries/rechargeable batteries (if applicable) and packagings is used to promote the reuse and recycling and to prevent negative effects caused by e.g. potentially hazardous substances contained in these products. Herewith you make an important contribution to the protection of the environment and public health.

### UK Declaration of conformity

- RoHS Regulations (2012)
- EMC Regulations (2016)

### EU Declaration of conformity

- RoHS Directive (2011/65/EU)
- EMC Directive (2014/30/EU)

The full text of the EU declaration of conformity is available at the following internet address:

[www.sennheiser.com/download](http://www.sennheiser.com/download).



**Sennheiser electronic GmbH & Co. KG**

Am Labor 1, 30900 Wedemark, Germany  
[www.sennheiser.com](http://www.sennheiser.com)

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