



AVX

PDF export of the original HTML instructions



Contents

1. Preface.....	5
2. Product information.....	6
Country variants.....	6
EKP AVX receiver.....	8
SKM AVX handheld transmitter.....	9
SK AVX bodypack transmitter.....	11
Available sets.....	12
AVX-ME2 SET.....	12
AVX-MKE2 SET.....	13
AVX-835 SET.....	14
AVX-Combo SET.....	15
Accessories.....	16
Accupack.....	16
Microphones and microphone heads.....	18
Other accessories.....	24
3. Instruction manual.....	26
EKP AVX receiver.....	26
Product overview.....	26
LED display.....	28
Putting the receiver into operation.....	30
Mounting the receiver to a video camera.....	31
Mounting the receiver to a digital single-lens reflex camera.....	32
Attaching the receiver using the belt clip.....	34
Switching the EKP AVX on or off.....	35
Checking the charge status of the accupacks.....	36
SKM AVX handheld transmitter.....	37
Product overview.....	37
Displays of the transmitter.....	39
LED display.....	40
Removing/inserting the accupack BA 10.....	42
Changing the microphone head.....	43
Holding the handheld transmitter.....	44
Attaching the handheld transmitter to the microphone stand clamp.....	45
Switching the SKM AVX on or off.....	46
Muting the SKM-S AVX handheld transmitter.....	47



Checking the charge status of the accupacks.....	49
Checking the RF signal level.....	50
SK AVX bodypack transmitter.....	51
Product overview.....	51
Displays of the transmitter.....	53
LED display.....	54
Removing/inserting the accupack BA 30.....	56
Connecting a clip-on microphone to the bodypack transmitter.....	58
Attaching the bodypack transmitter to clothing.....	59
Switching the SK AVX on or off.....	60
Muting the SK AVX bodypack transmitter.....	61
Checking the charge status of the accupacks.....	63
Checking the RF signal level.....	64
Establishing a radio link Synchronizing the receiver and transmitter.....	65
Putting the products into operation.....	65
Pairing a receiver with a transmitter.....	66
Identifying paired devices.....	68
Displaying or adjusting the receiver's audio output level.....	69
ME 2 clip-on microphone.....	71
Product overview.....	71
Attaching the clip-on microphone to clothing.....	72
MKE 2 clip-on microphone.....	75
Product overview.....	75
Using the frequency response caps.....	77
Using the windshield.....	78
Attaching the clip-on microphone to clothing.....	80
Accupacks.....	83
BA 10.....	83
BA 20.....	84
BA 30.....	85
Recharging the accupack.....	86
Cleaning and maintenance.....	88
4. Specifications.....	90
System.....	90
EKP AVX.....	92
SKM AVX.....	94
SK AVX.....	95



ME 2 MKE 2.....	96
BA 10 BA 20 BA 30.....	97
5. Contact.....	98



1. Preface

PDF export of the original HTML instructions

This PDF document is an automated export of an interactive set of HTML instructions. It may be the case that not all contents and interactive elements are contained in the PDF as they cannot be presented in this format. Furthermore, automatically generated page breaks may cause coherent contents to be moved slightly. We can therefore only guarantee the completeness of the information in the HTML instructions, and recommend that you use these. You can find this in the documentation portal at www.sennheiser.com/documentation.



2. Product information

All information about the product and available accessories at a glance.



For information about the available **accessories**, see [Accessories](#).

For information about the available **sets**, see [Available sets](#).

You can find technical **specifications** for the series and the individual products under [Specifications](#).

You can find information about **starting up** and **operating** the products under [Instruction manual](#).

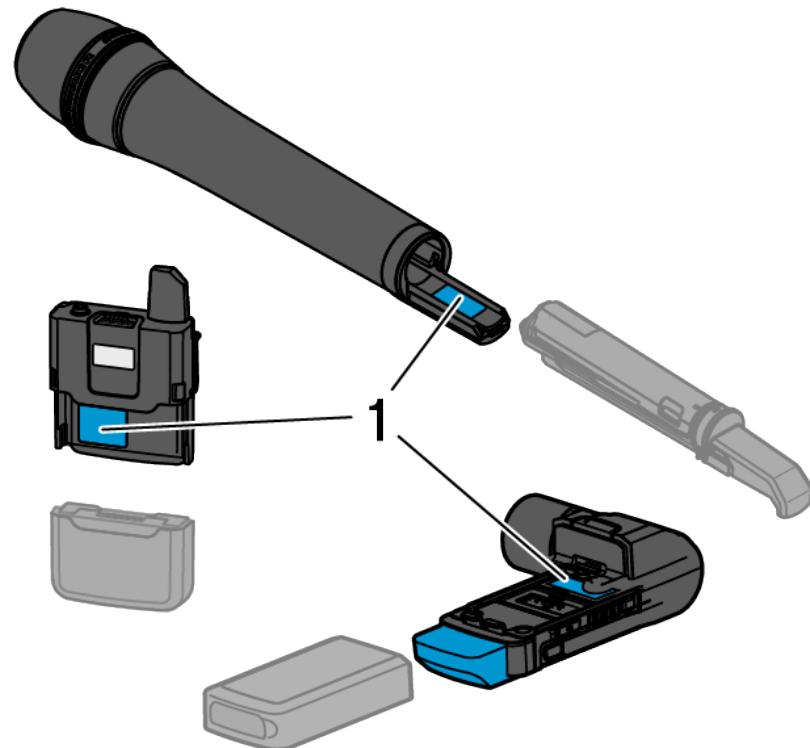
Country variants

The transmitters and the receiver are available in different country variants:

- Country variant -3 for Europe, the Mid East and Australia
- Country variant -4 for North, Central and South America (except Brazil)
- Country variant -5 for Japan
- Country variant -6 for Taiwan
- Country variant -7 for Brazil



The country variant can be found on the packaging and on the type plate 1 as shown on the left.



- ▶ Only use the country variant permitted for use at the venue.
- ▶ Do not combine devices of different country variants.



EKP AVX receiver



The EKP AVX receiver is available in the following versions:

EKP AVX-3-EU | 1880 - 1900 MHz | Art. no. 505854

EKP AVX-4-US | 1920 - 1930 MHz | Art. no. 505864

EKP AVX-5-US | 1893 - 1906 MHz | Art. no. 505870

Delivery includes

- Receiver EKP AVX
- Accupack BA 20
- EKP AVX adapter
- 2x USB charging cable
- XLR to mini jack cable

i You can find more detailed information about the EKP AVX in the following sections:

- **Startup and operation:** [EKP AVX receiver](#)
- **Specifications:** [EKP AVX](#)



SKM AVX handheld transmitter



The SKM AVX handheld transmitter is available in the following versions:

SKM AVX-835-3 | 1880 - 1930 MHz | Art. no. 506157

SKM AVX-835S-3 | 1880 - 1900 MHz | Art. no. 505860

SKM AVX-835S-4 | 1920 - 1930 MHz | Art. no. 505866

SKM AVX-835S-5 | 1893 - 1906 MHz | Art. no. 505872

Delivery includes

- Handheld transmitter without mute switch SKM AVX
- Accupack BA 10

or

- Handheld transmitter with mute switch SKM AVX-S
- Accupack BA 10



i You can find more detailed information about the SKM AVX in the following sections:

- **Startup and operation:** [SKM AVX handheld transmitter](#)
- **Specifications:** [SKM AVX](#)



SK AVX bodypack transmitter



The SK AVX is available in the following versions:

SK AVX-3 | 1880 - 1900 MHz | Art. no. 505859

SK AVX-4 | 1920 - 1930 MHz | Art. no. 505865

SK AVX-5 | 1880 - 1895 MHz | Art. no. 505871

Delivery includes

- Bodypack transmitter SK AVX
- Accupack BA 30

i You can find more detailed information about the SK AVX in the following sections:

- **Startup and operation:** [SK AVX bodypack transmitter](#)
- **Specifications:** [SK AVX](#)



Available sets

AVX-ME2 SET



The set consists of the following components:

- EKP AVX
- Accupack BA 20
- 2x USB charging cable
- SK AVX
- Accupack BA 30
- ME 2-II lavalier microphone
- Microphone clip
- EKP AVX adapter
- XLR to mini jack cable
- Pouch



AVX-MKE2 SET



The set consists of the following components:

- EKP AVX
- Accupack BA 20
- 2x USB charging cable
- SK AVX
- Accupack BA 30
- MKE 2 lavalier microphone
- Microphone clip
- EKP AVX adapter
- XLR to mini jack cable
- Pouch



AVX-835 SET



The set consists of the following components:

- EKP AVX
- Accupack BA 20
- 2x USB charging cable
- SKM AVX
- Accupack BA 10
- MMD 835 microphone head
- Microphone clamp
- EKP AVX adapter
- XLR to mini jack cable
- Pouch



AXV-Combo SET



The set consists of the following components:

- EKP AVX
- Accupack BA 20
- 2x USB charging cable
- SKM AVX
- Accupack BA 10
- MMD 835 microphone head
- Microphone clamp
- EKP AVX adapter
- XLR to mini jack cable
- Pouch
- SK AVX
- Accupack BA 30
- ME 2-II lavalier microphone
- Microphone clip



Accessories

Accupack

Accupack BA 10



BA 10 | Accupack for SKM AVX handheld transmitter | Art. no. 505972

i You can find more information in the following sections:

- **Startup and operation:** [BA 10 | Recharging the accupack](#)
- **Specifications:** [BA 10 | BA 20 | BA 30](#)

Accupack BA 20



BA 20 | Accupack for EKP AVX receiver | Art. no. 505973



i You can find more information in the following sections:

- **Startup and operation:** [BA 20 | Recharging the accupack](#)
- **Specifications:** [BA 10 | BA 20 | BA 30](#)

Accupack BA 30



BA 30 | Accupack for SK AVX bodypack transmitter | Art. no. 505974

i You can find more information in the following sections:

- **Startup and operation:** [BA 30 | Recharging the accupack](#)
- **Specifications:** [BA 10 | BA 20 | BA 30](#)



Microphones and microphone heads

Microphone head for SKM AVX handheld transmitter



MMD 835 | Dynamic, cardioid | Art. no. 502575



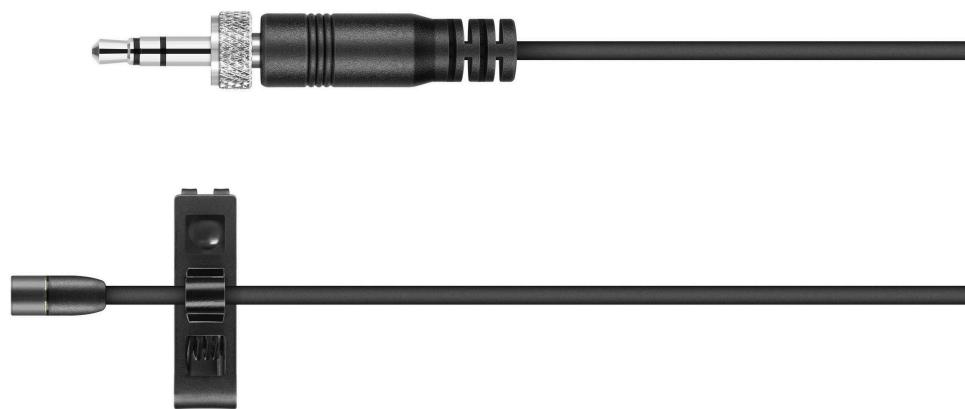
Microphones for SK AVX bodypack transmitter



ME 2 | Lavalier microphone, omni-directional | Art. no. 508935

i You can find more information in the following sections:

- **Startup and operation:** [ME 2 clip-on microphone | Connecting a clip-on microphone to the bodypack transmitter](#)
- **Specifications:** [ME 2 | MKE 2](#)



MKE 2 | Lavalier microphone, omni-directional | Art. no. 004736

i You can find more information in the following sections:

- **Startup and operation:** [MKE 2 clip-on microphone | Connecting a clip-on microphone to the bodypack transmitter](#)
- **Specifications:** [ME 2 | MKE 2](#)



MKE 1 | Clip-on microphone, omni-directional



Headmic 1 | Headworn microphone, omni-directional

Windshield



MZW 1 | Windshield for SKM AVX handheld transmitter | Art. no. 004839



Microphone stand clamp



Microphone clamp | Microphone stand clamp for SKM AVX handheld transmitter | Art. no. 538959



Other accessories

Adapter cable



CL 400 | Adapter cable for EKP AVX receiver | Art. no. 563661

EKP AVX adapter



Hot shoe adapter | With belt clip for EKP AVX receiver | Art. no. 564595

The EKP AVX adapter consists of a hot shoe adapter and a belt clip.

The belt clip allows the attachment of the receiver to a belt or a pocket (see [Attaching the receiver using the belt clip](#)).



The hot shoe adapter allows the attachment of the receiver to the hot shoe of a DSLR camera. The receiver can then be connected to the DSLR camera using the CI 400 adapter cable (see [Mounting the receiver to a digital single-lens reflex camera](#)).

Pouch



Pouch | Bag for SKM AVX handheld or SK AVX bodypack transmitter | Art. no. 564556

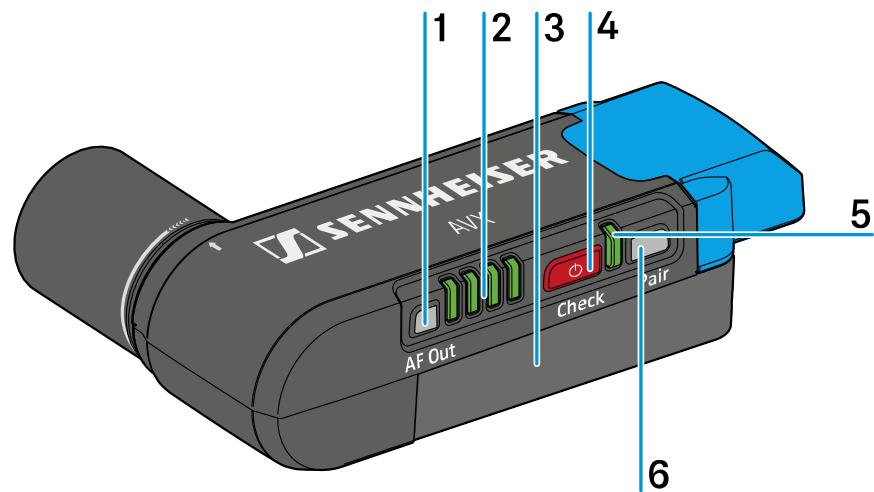


3. Instruction manual

Starting up and operating devices of the AVX series.

EKP AVX receiver

Product overview



1 AF Out button

- see [Displaying or adjusting the receiver's audio output level](#)

2 4-step LED display

- see [4-step LED display](#)

3 Accupack BA 20

- see [BA 20](#)

4 On/Off/Check button

- see [Switching the EKP AVX on or off](#)
- see [Checking the charge status of the accupacks](#)

5 Status LED

- see [Status LED](#)



6 Pair button

- see [Pairing a receiver with a transmitter](#)
- see [Identifying paired devices](#)

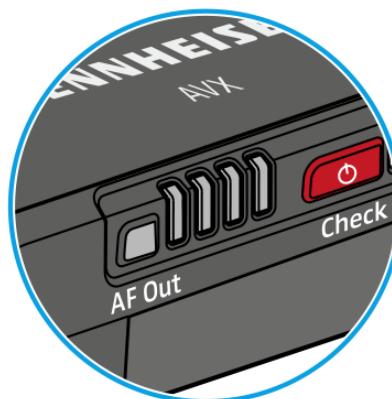


LED display

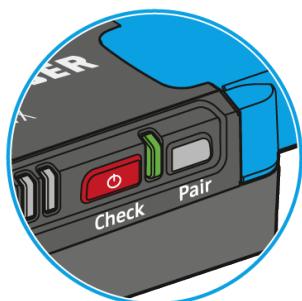
4-step LED display

When the **On/Off/Check** button has been pressed, the LED display lights up green to indicate the remaining battery life of the receiver's BA 20 accupack (see [Checking the charge status of the accupacks](#)); when the **AF Out** button has been pressed, the LED display lights up red to indicate the audio output level (see [Displaying or adjusting the receiver's audio output level](#)).

When the right LED flashes red, the capacity of the receiver's BA 20 accupack is only sufficient for a maximum of 15 minutes of operation.



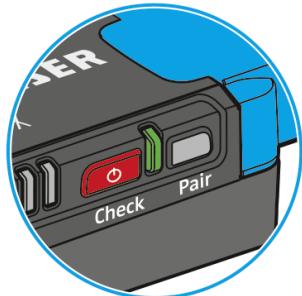
Status LED



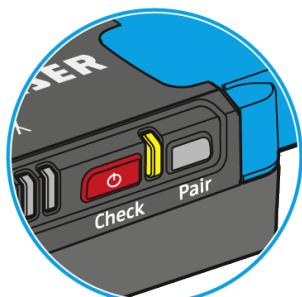
The LED is green: A radio link to the transmitter is established. The accupack of the received transmitter is sufficiently charged.



The LED is flashing green: The **Pair** button has been short-pressed. The paired transmitter is being identified.



The LED is flashing alternately green and red: The **Pair** button has been long-pressed. The receiver establishes a radio link to a transmitter whose **Pair** button has also been long-pressed.



The LED is yellow: The received transmitter has been muted with its **MUTE** switch.



The LED is flashing red: The accupack capacity of the received transmitter is only sufficient for approx. 15 minutes of operation.

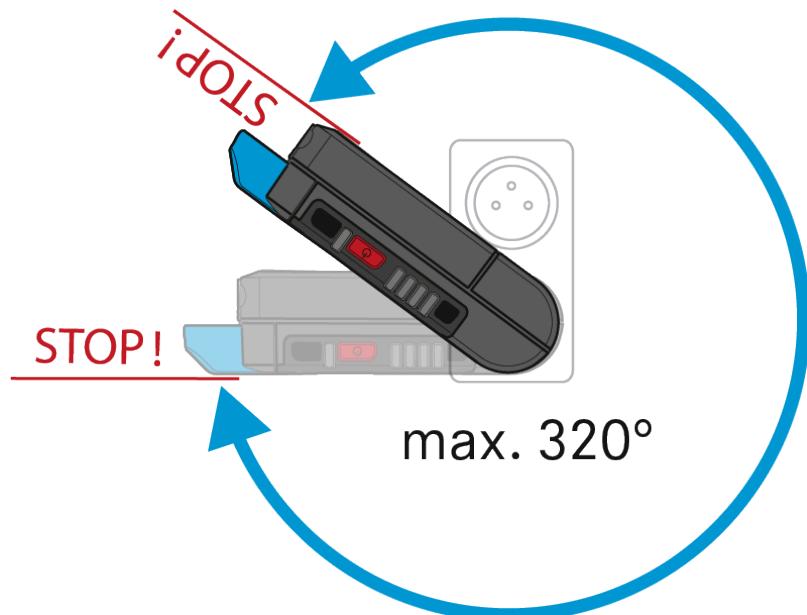


The LED is red: No radio link to a transmitter.



Putting the receiver into operation

The receiver can be rotated by a maximum angle of 320° around its XLR-3 connector.

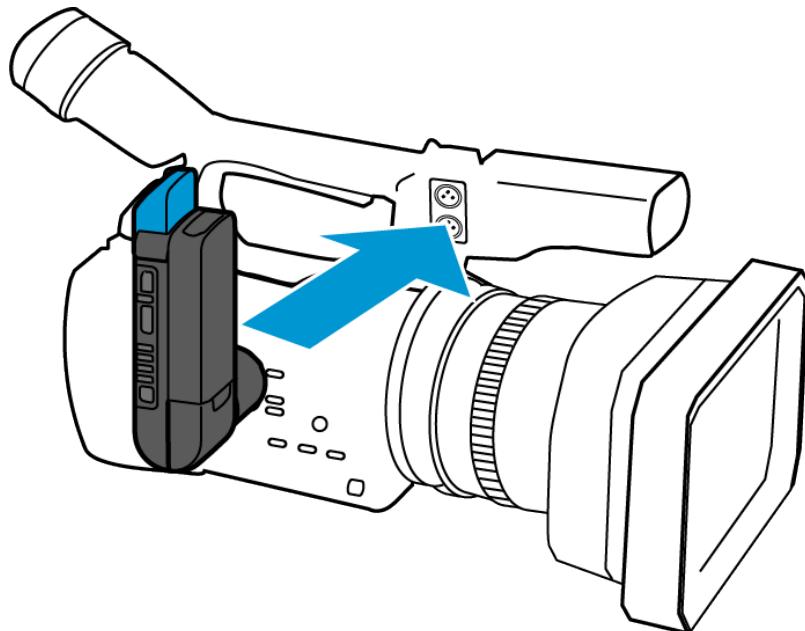




Mounting the receiver to a video camera

To mount the receiver to a video camera, proceed as follows:

- ▶ Plug the receiver's rotatable XLR connector into the camera's XLR-3 audio input. If the video camera has an XLR-3 audio input with P48 phantom power, the receiver is automatically switched on and off together with the video camera – provided that the phantom power is automatically switched on and off together with the camera.
- ▶ Rotate the receiver into position, making sure that it does not disturb during filming and that there is – preferably – a direct line of sight to the transmitter.

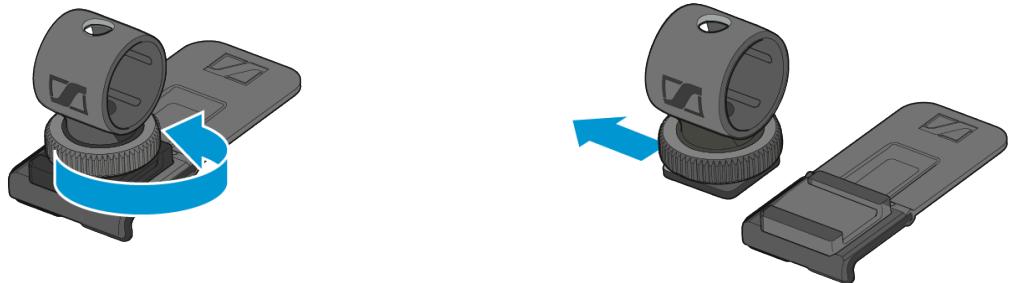




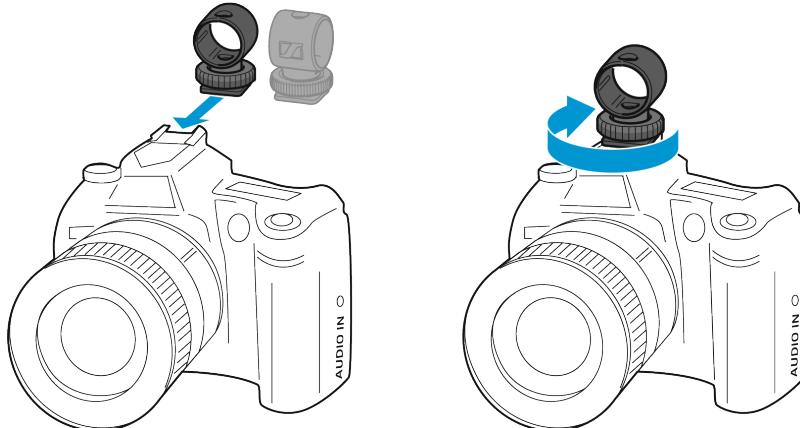
Mounting the receiver to a digital single-lens reflex camera

To mount the receiver to a DSLR camera, use the supplied EKP AVX adapter. The adapter consists of a hot shoe adapter and a belt clip.

- ▶ Loosen the locking screw.
- ▶ Remove the hot shoe adapter from the belt clip.



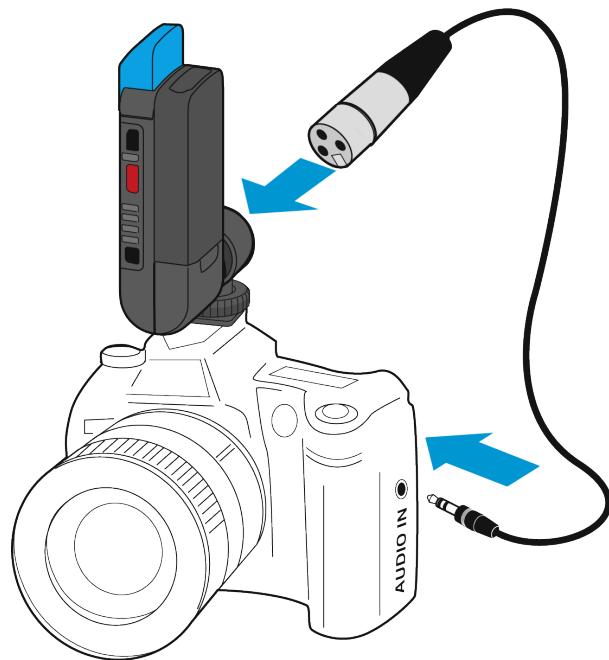
- ▶ Slide the hot shoe adapter onto the hot shoe of the DSLR camera as shown on the left.
- ▶ Fasten the hot shoe adapter using the locking screw.



- ▶ Plug the receiver's rotatable XLR connector into the hot shoe adapter.
- ▶ Connect the XLR-3 socket of the supplied CI 400 adapter cable to the XLR-3 connector of the receiver.



- ▶ Connect the 3.5 mm jack plug of the CI 400 adapter cable to the 3.5 mm audio output of the DSLR camera.



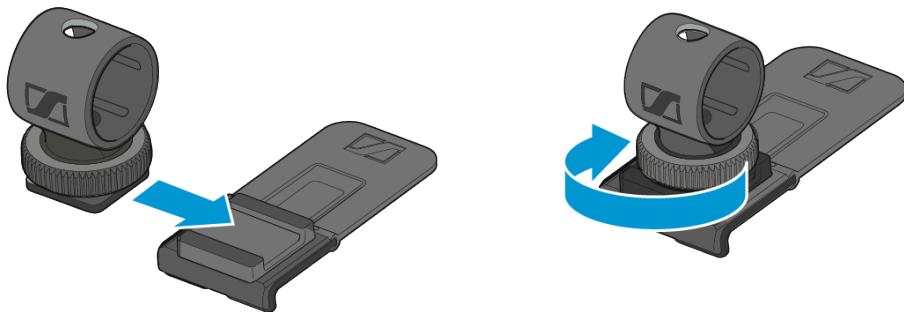


Attaching the receiver using the belt clip

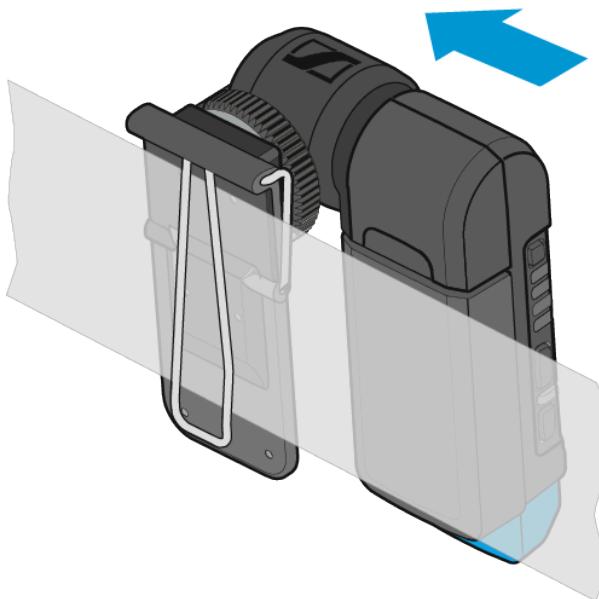
You can use the belt clip to attach the receiver to e.g. a belt or to the camera bag.

Proceed as follows:

- ▶ Slide the hot shoe adapter onto the belt clip.
- ▶ Fasten the hot shoe adapter to the belt clip using the locking screw.



- ▶ Plug the receiver's rotatable XLR-3 connector into the hot shoe adapter.
- ▶ Use the belt clip to attach the receiver to a camera bag or a belt.





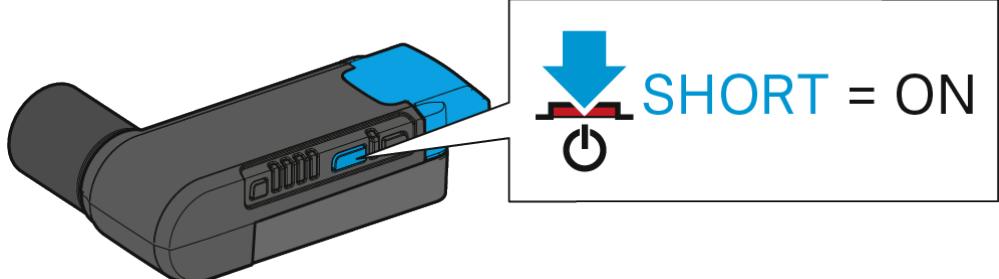
Switching the EKP AVX on or off

To manually switch the receiver on:

i If the receiver is connected to an XLR-3 audio input with P48 phantom power, the receiver is automatically switched on together with the video camera – provided that the phantom power is automatically switched on together with the camera.

► Short-press the **On/Off/Check** button.

✓ The status LED indicates the current status of the receiver (see [Status LED](#)). The radio link to the last paired transmitter is established automatically as soon as the paired transmitter is switched on.

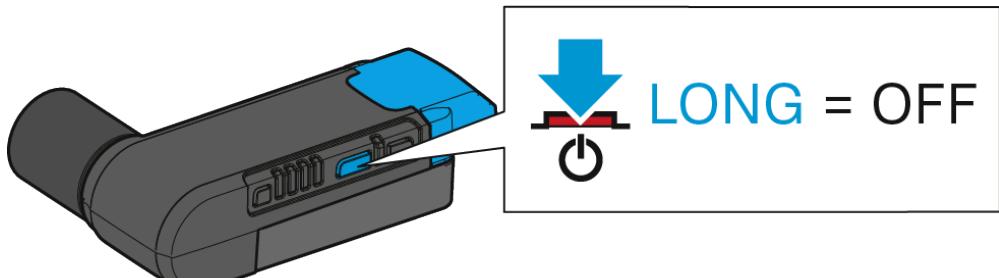


To manually switch the receiver off:

i If the receiver is connected to an XLR-3 audio input with P48 phantom power, the receiver is automatically switched off together with the video camera – provided that the phantom power is automatically switched off together with the camera. If, after switch-off of the video camera, the phantom power drops only slowly, the receiver can take up to one minute to switch off.

► Long-press the **On/Off/Check** button.

✓ The status LED goes off.

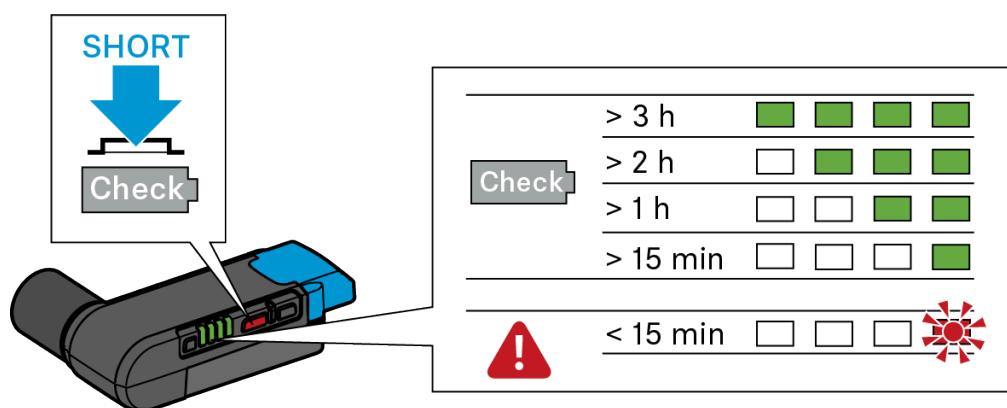




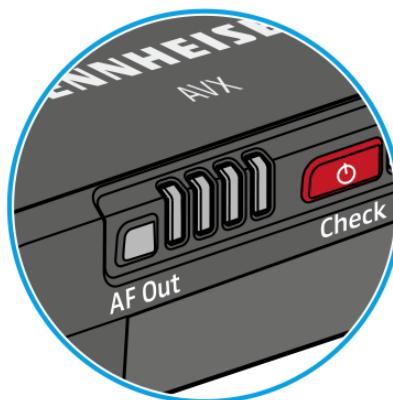
Checking the charge status of the accupacks

To display the expected remaining battery life of the BA 20 accupack in the receiver:

- ▶ Short-press the **On/Off/Check** button.
- ✓ The 4-step LED display lights up green to indicate the expected remaining battery life.



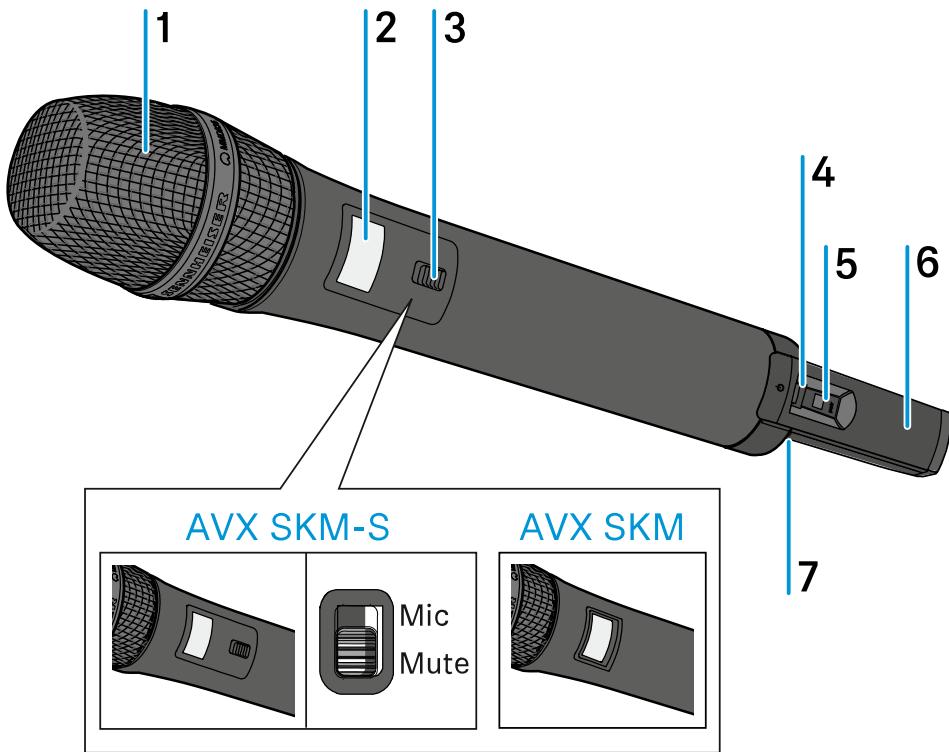
When the right LED of the 4-step LED display flashes red – regardless of whether the **On/Off/Check** button has been pressed –, the capacity of the BA 20 accupack is only sufficient for less than 15 minutes of operation.





SKM AVX handheld transmitter

Product overview



1 Unscrewable microphone head

- see [Changing the microphone head](#)

2 Display panel

- see [Displays of the transmitter](#)

3 Mute switch

- see [Muting the SKM-S AVX handheld transmitter](#)

4 On/Off button with Status LED

- see [Switching the SKM AVX on or off](#)
- see [LED display](#)



5 Pair button

- see [Pairing a receiver with a transmitter](#)
- see [Identifying paired devices](#)

6 Antenna

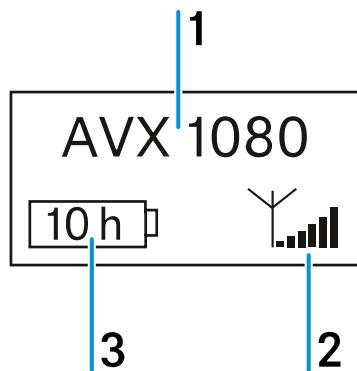
- Do not cover the antenna during transmission to avoid a reduction in the transmission range.

7 Accupack BA 10

- see [BA 10](#)
- see [Removing/inserting the accupack BA 10](#)



Displays of the transmitter



1 Name of the radio link

- The name of the radio link always consists of “AVX” and the last four digits of the serial number of the paired receiver. The receiver’s serial number can be found on the type plate under the accupack (see [Country variants](#)).
- You cannot change this name.

2 6-segment RF signal level display

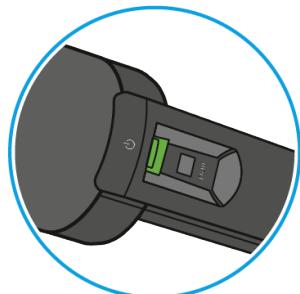
- Displays the field strength of the transmitted signal at the receiver.

3 Expected battery life of the accupack

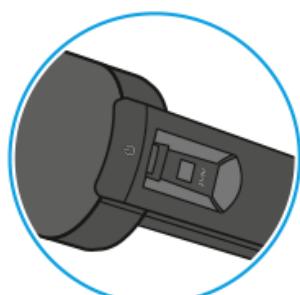
- See [Checking the charge status of the accupacks](#)



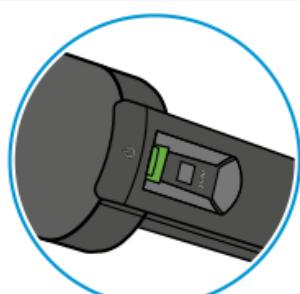
LED display



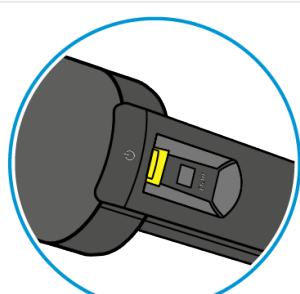
The LED is green: A radio link to the receiver is established. The accupack of the handheld transmitter is sufficiently charged.



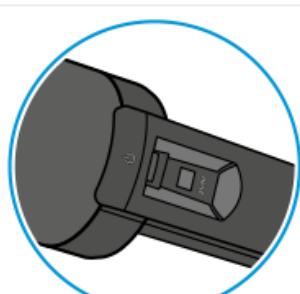
The LED is flashing green: The **Pair** button has been short-pressed. Paired devices are being identified.



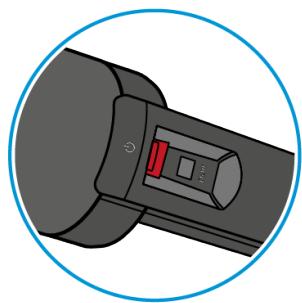
The LED is flashing alternately green and red: The **Pair** button has been long-pressed. The handheld transmitter establishes a radio link to a receiver whose **Pair** button has also been long-pressed.



The LED is yellow: The SKM-S AVX handheld transmitter has been muted with the MUTE switch. In addition, Muted  is displayed on the display panel.



The LED is flashing red: The accupack capacity of the received transmitter is only sufficient for approx. 15 minutes of operation.



The LED is red: No radio link to a receiver. In addition, No link  is displayed on the display panel.

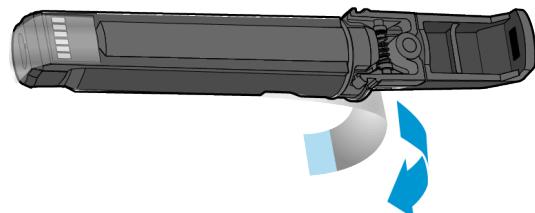
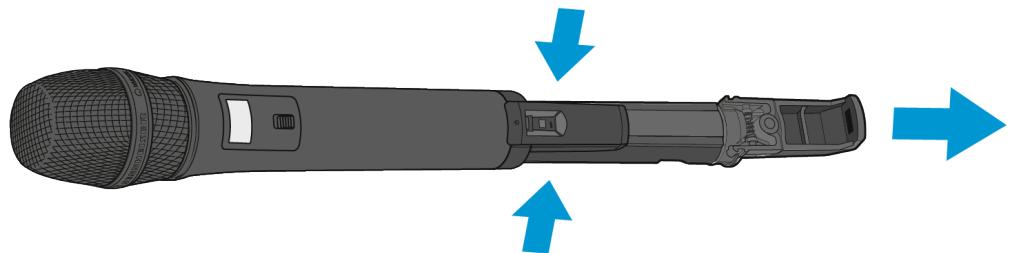


Removing/inserting the accupack BA 10

i Before using the handheld transmitter for the first time, remove the protective foil from its accupack.

To remove the accupack:

- ▶ Simultaneously press the two catches and pull the accupack away from the handheld transmitter.
- ▶ Remove the protective foil.



To insert the accupack:

- ▶ Slide the accupack onto the handheld transmitter as shown.
- ✓ The accupack locks into place with an audible click.



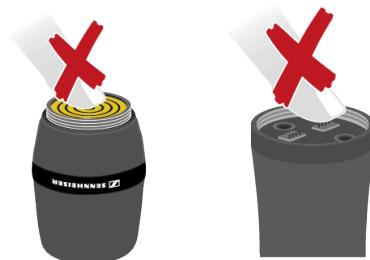


Changing the microphone head

The handheld transmitter comes in different sets, including the MMD 835-1 microphone head. You can unscrew the microphone head and replace it by another one, e.g. one with a different pick-up pattern.

To replace the microphone module:

- ▶ Unscrew the microphone module.
- ▶ Screw the desired microphone module on.
- ▶ Do not touch the wireless microphone contacts or the microphone module contacts. If you touch the contacts, they may become dirty or bent.

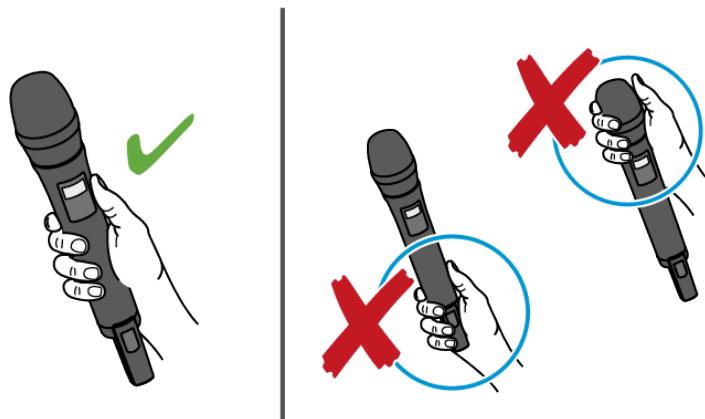




Holding the handheld transmitter

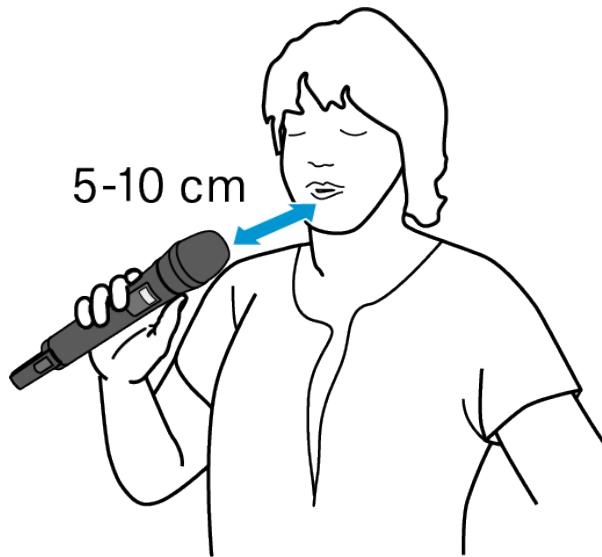
If you cover the antenna of the handheld transmitter during transmission, the transmission range will be considerably reduced. If you cover the microphone head during transmission, this will change the pick-up pattern of the microphone and consequently the sound.

- ▶ Only hold the handheld transmitter by its body.
- ▶ Hold the handheld transmitter approx. 5 to 10 cm in front of your mouth.



The MMD 835-1 microphone head has a cardioid pick-up pattern:

- ▶ You can speak into the sound inlet basket from directly above or from slightly off-axis.





Attaching the handheld transmitter to the microphone stand clamp

- ▶ Screw the thread to the stand and tighten the screw.
- ▶ Place the handheld transmitter into the microphone clamp.
- ▶ Tilt the handheld transmitter so that it is oriented towards the mouth.

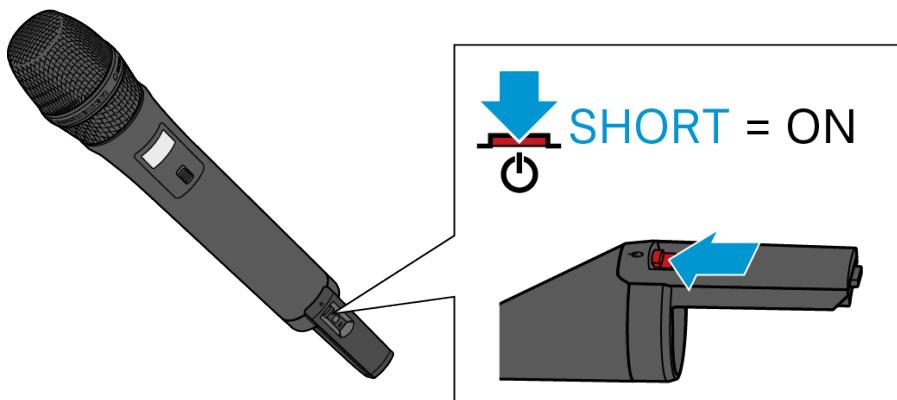




Switching the SKM AVX on or off

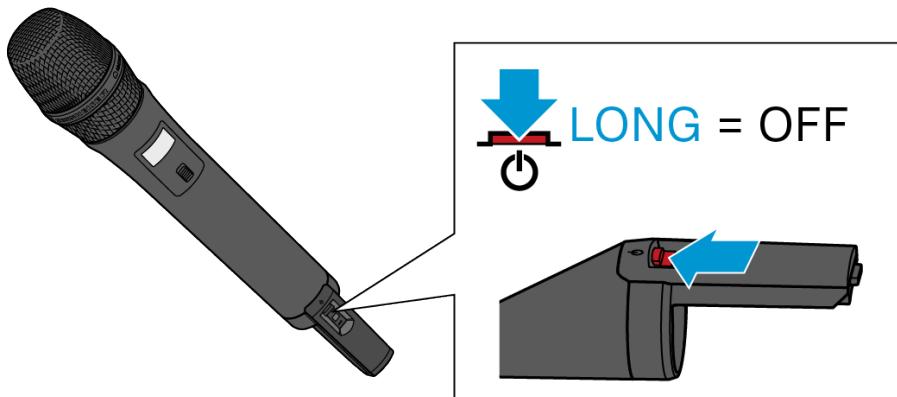
Switching the handheld transmitter on

- ▶ Briefly slide the **On/Off** button in the direction of the transmitter body.
- ✓ The display panel and the status LED indicate the current status of the handheld transmitter (see [Displays of the transmitter](#) and [LED display](#)). The radio link to the last paired receiver is automatically established as soon as the paired receiver is switched on.



Switching the handheld transmitter off

- ▶ Slide and hold the **On/Off** button in the direction of the transmitter body.
- ✓ The display panel and the status LED go off.



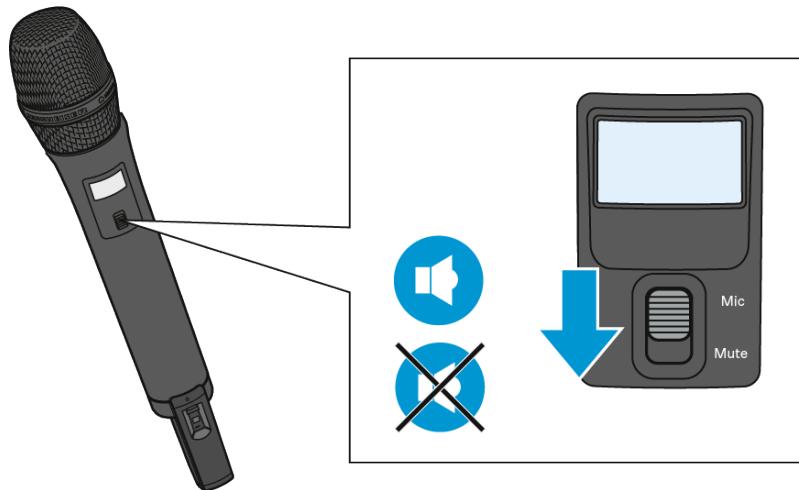


Muting the SKM-S AVX handheld transmitter

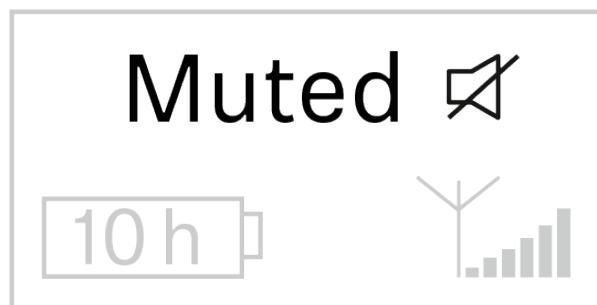
Both the bodypack transmitter and the SKM-S AVX handheld transmitter have a Mute switch that mutes the audio signal without switching the transmitter off.

i The SKM AVX handheld transmitter has no **Mute** switch and can therefore not be muted.

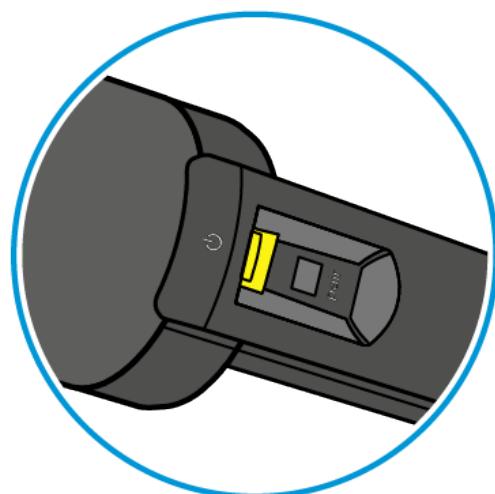
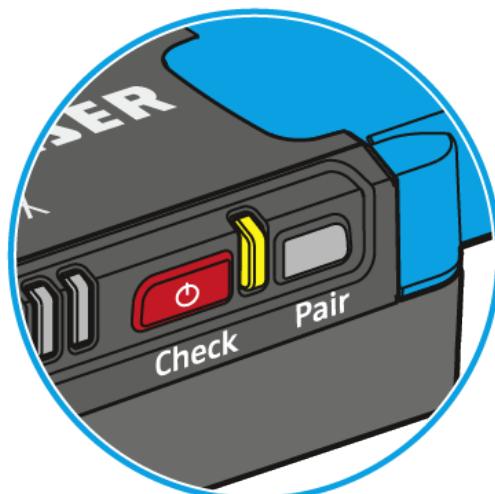
► Slide the **Mute** switch to the position **Mute**.



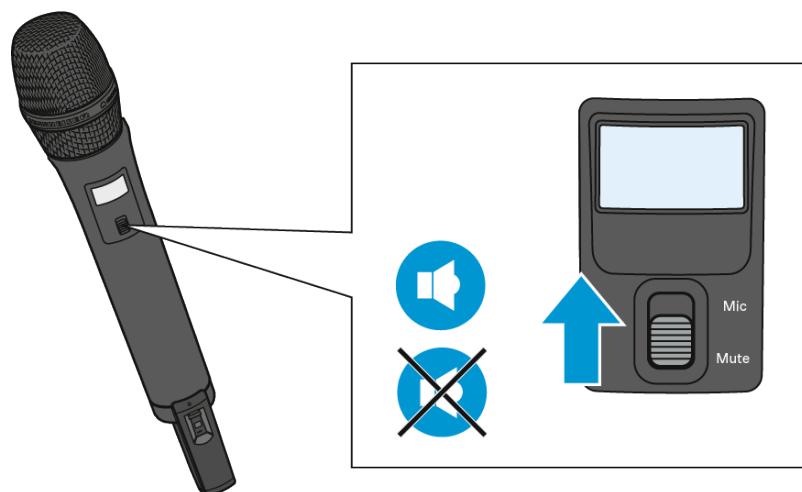
Muted appears on the display panel of the transmitter.



The status LED on both the transmitter and the paired receiver lights up yellow.



- ▶ Slide the **Mute** switch to the position **Mic** to unmute the audio signal.





Checking the charge status of the accupacks

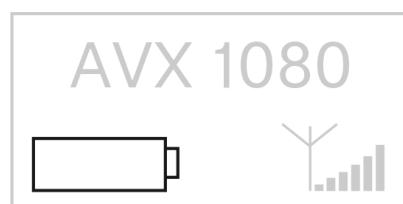
The expected remaining battery life of the accupack is indicated by a battery icon on the transmitter display panel.



When the capacity of the accupack is so low that the remaining battery life is less than 30 minutes, the status LED on both the transmitter and the receiver flashes red.



In addition, the empty battery icon flashes on the display panel of the transmitter.





Checking the RF signal level

The quality of the RF signal is shown on the display panel of the transmitter.



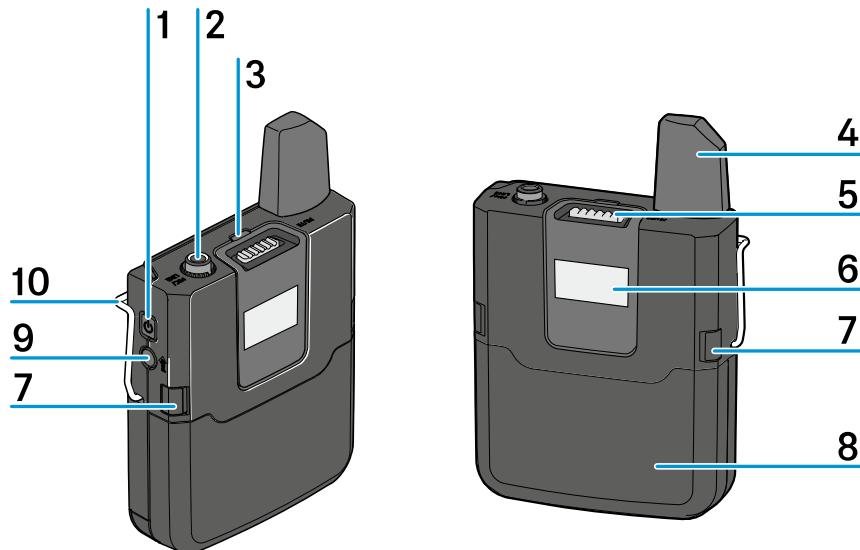
If no RF signal is being transmitted, e.g. because the receiver is switched off or out of range, all segments of the RF signal level display are grayed out. In addition, No Link  is displayed on the display panel.





SK AVX bodypack transmitter

Product overview



1 On/Off button

- See [Switching the SK AVX on or off](#)

2 Mic/Line 3.5 mm jack socket

- See [Connecting a clip-on microphone to the bodypack transmitter](#)

3 Status LED

- See [LED display](#)

4 Antenna

- Do not cover the antenna during transmission to avoid a reduction in the transmission range.

5 Mute button

- See [Muting the SK AVX bodypack transmitter](#)

6 Display panel

- See [Displays of the transmitter](#)



7 Catches

- Press simultaneously to release the accupack from the bodypack transmitter.

8 Accupack BA 30

- See [BA 30](#)
- See [Removing/inserting the accupack BA 30](#)

9 Pair button

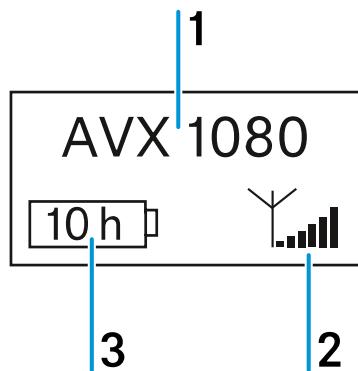
- See [Pairing a receiver with a transmitter](#)
- See [Identifying paired devices](#)

10 Belt clip

- See [Attaching the bodypack transmitter to clothing](#)



Displays of the transmitter



1 Name of the radio link

- The name of the radio link always consists of “AVX” and the last four digits of the serial number of the paired receiver. The receiver’s serial number can be found on the type plate under the accupack (see [Country variants](#)).
- You cannot change this name.

2 6-segment RF signal level display

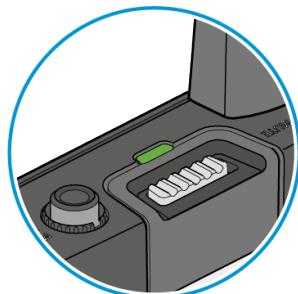
- Displays the field strength of the transmitted signal at the receiver.

3 Expected battery life of the accupack

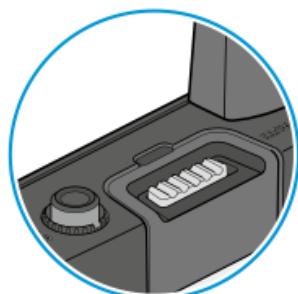
- See [Checking the charge status of the accupacks](#)



LED display



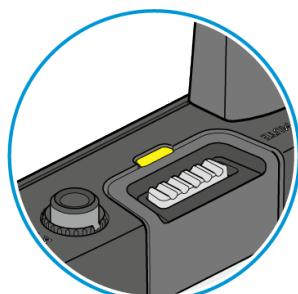
The LED is green: A radio link to the receiver is established. The accupack of the bodypack transmitter is sufficiently charged.



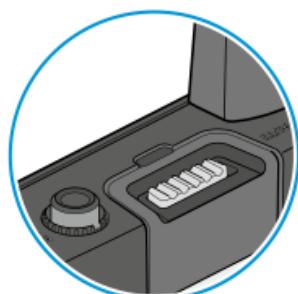
The LED is flashing green: The **Pair** button has been short-pressed. Paired devices are being identified.



The LED is flashing alternately green and red: The **Pair** button has been long-pressed. The bodypack transmitter establishes a radio link to a receiver whose **Pair** button has also been long-pressed.



The LED is yellow: The bodypack transmitter has been muted with its **MUTE** switch. In addition  is displayed on the display panel.



The LED is flashing red: The accupack capacity of the bodypack transmitter is only sufficient for approx. 15 minutes of operation.



The LED is red: No radio link to a receiver. In addition, No Link  is displayed on the display panel.



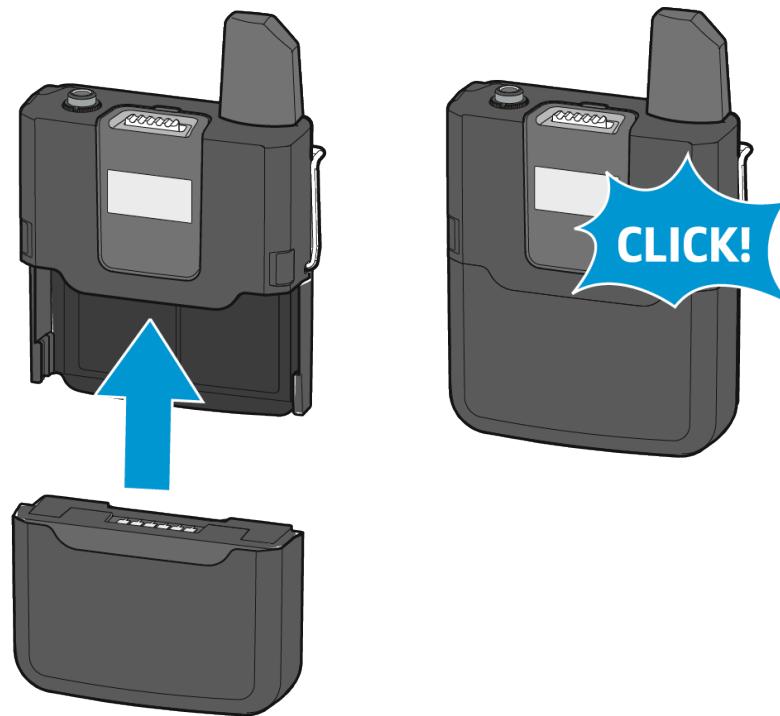
Removing/inserting the accupack BA 30

You can power the bodypack transmitter with the supplied BA 30 accupack. The accupack must be charged before first time use. The accupack can remain in the bodypack transmitter for charging.

- Before using the bodypack transmitter for the first time, remove the protective foil from its accupack.

To remove the accupack from the bodypack transmitter:

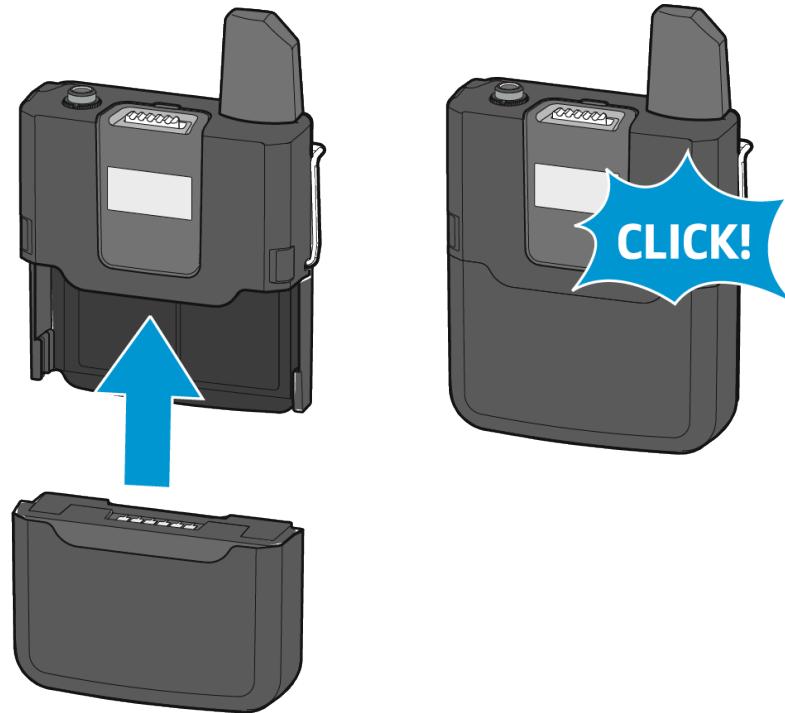
- ▶ Simultaneously press the two catches and pull the accupack away from the bodypack transmitter.
- ▶ Remove the protective foil.





To insert the accupack into the bodypack transmitter:

- ▶ Slide the accupack onto the bodypack transmitter as shown.
- ✓ The accupack locks into place with an audible click.

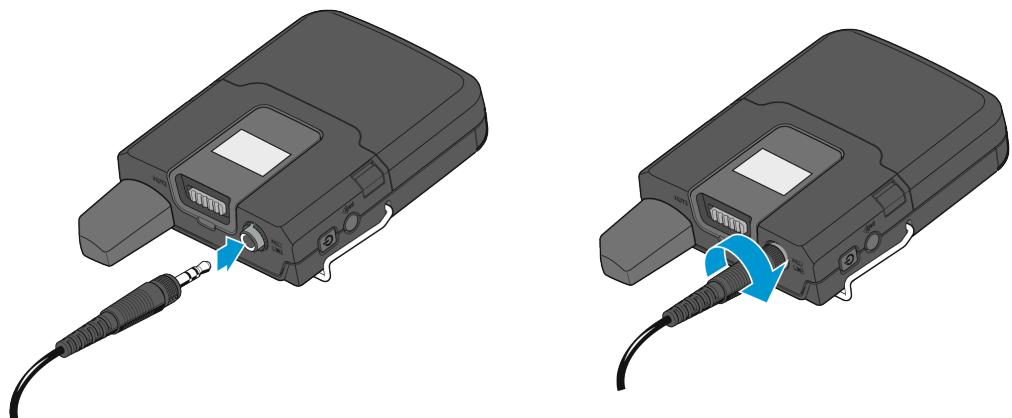




Connecting a clip-on microphone to the bodypack transmitter

Only connect one of the clip-on microphones recommended by Sennheiser. These microphones are optimized for the bodypack transmitter.

- ▶ Connect the jack plug of the clip-on microphone to the 3.5 mm jack socket **Mic/Line** of the bodypack transmitter.
- ▶ Lock the jack plug by screwing down the coupling ring.

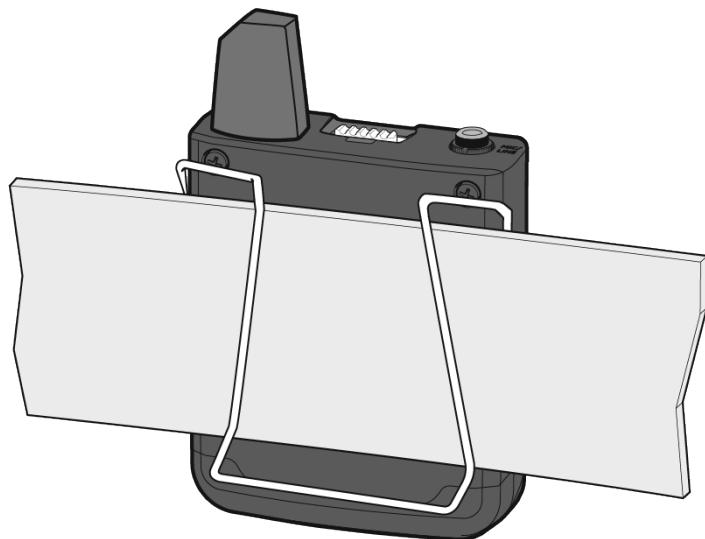




Attaching the bodypack transmitter to clothing

- The antenna of the bodypack transmitter should not be touched or covered during transmission as this would reduce the transmission range.
- There should be a free line of sight between the antenna of the bodypack transmitter and the receiving antenna.

► Use the belt clip to attach the bodypack transmitter to clothing.

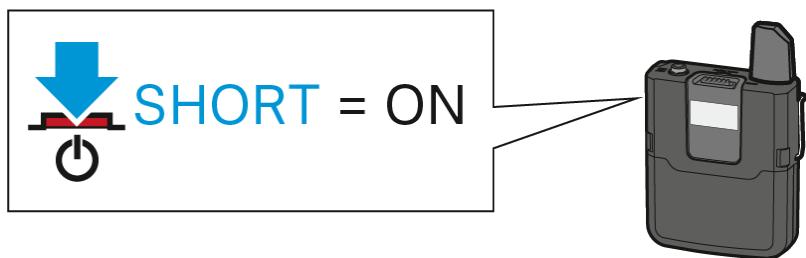




Switching the SK AVX on or off

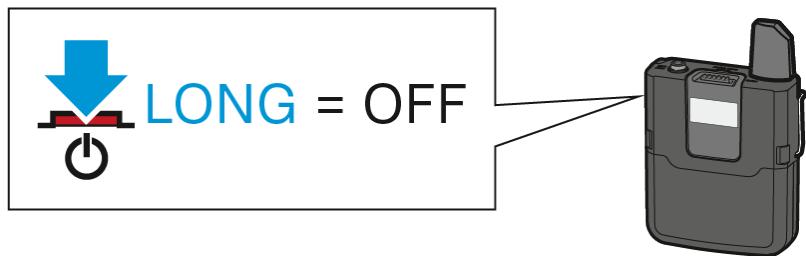
Switching the bodypack transmitter on

- ▶ Short-press the **On/Off** button.
 - ✓ The display panel and the status LED indicate the current status of the bodypack transmitter (see [Displays of the transmitter](#) and [LED display](#)). The radio link to the last paired receiver is automatically established as soon as the paired receiver is switched on.



Switching the bodypack transmitter off

- ▶ Long-press the **On/Off** button.
 - ✓ The display panel and the status LED go off.

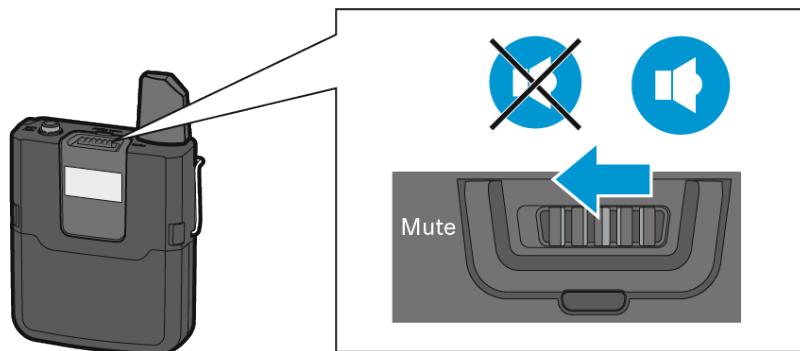




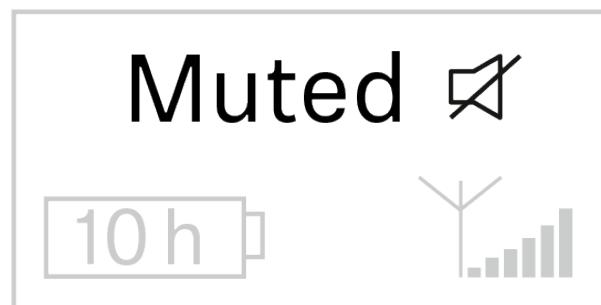
Muting the SK AVX bodypack transmitter

Both the bodypack transmitter and the SKM-S AVX handheld transmitter have a **Mute** switch that mutes the audio signal without switching the transmitter off.

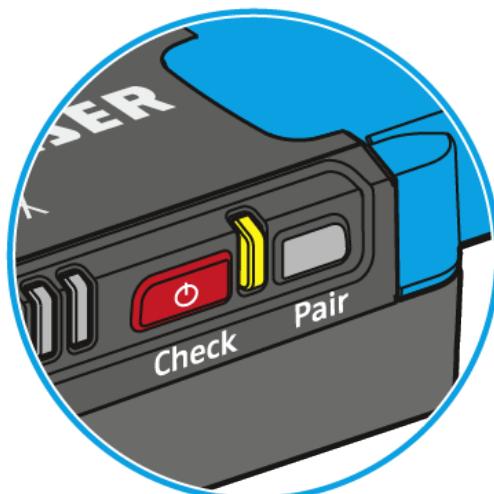
- ▶ Slide the **Mute** switch to the position **Mute**



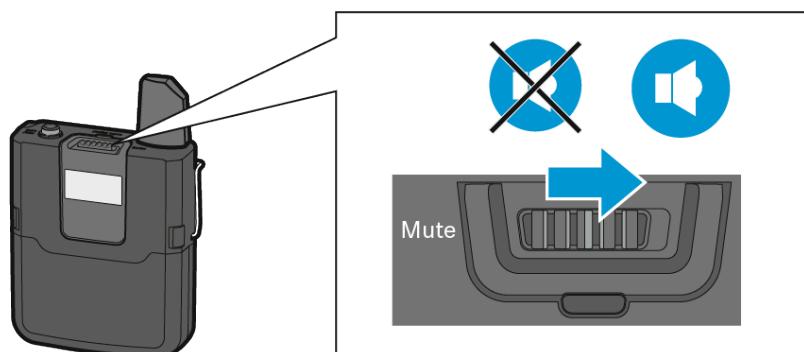
- ✓ **Muted**  appears on the display panel of the transmitter.



The status LED on both the transmitter and the paired receiver lights up yellow.



- ▶ Slide the **Mute** switch to the position **Mic** to unmute the audio signal.



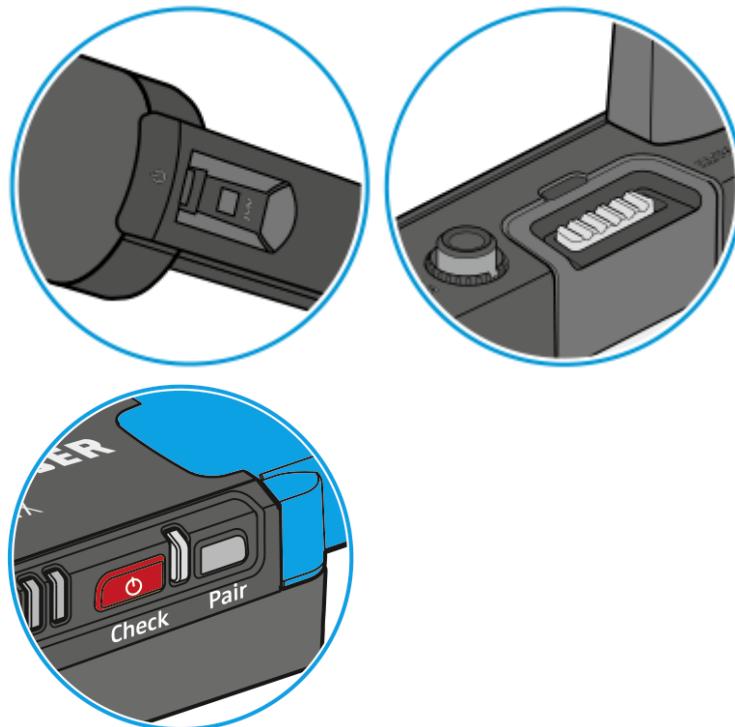


Checking the charge status of the accupacks

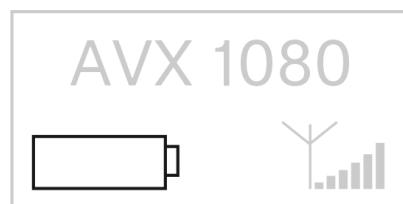
The expected remaining battery life of the accupack is indicated by a battery icon on the transmitter display panel.



When the capacity of the accupack is so low that the remaining battery life is less than 30 minutes, the status LED on both the transmitter and the receiver flashes red.



In addition, the empty battery icon flashes on the display panel of the transmitter.





Checking the RF signal level

The quality of the RF signal is shown on the display panel of the transmitter.



If no RF signal is being transmitted, e.g. because the receiver is switched off or out of range, all segments of the RF signal level display are grayed out. In addition, No Link  is displayed on the display panel.





Establishing a radio link | Synchronizing the receiver and transmitter

Putting the products into operation

Using the products

AVX offers true ease of use:

- The devices of a set are factory pre-paired and ready for immediate use.
- The system features automatic frequency management and automatically searches for free transmission frequencies.
- AVX also features automatic interference management and inaudibly shifts to a new frequency if interference occurs.
- The system also sets the correct microphone sensitivity automatically.

i After switch-on, the receiver and the transmitter will take approx. 10 seconds to establish the radio link. The more sources of interference there are and the more AVX devices you switch on, the longer it takes to establish the radio links.

Avoiding sources of interference

Featuring automatic interference management, the devices are capable of avoiding interfering signals at any time by automatically moving together to unused frequencies in the 1.9 GHz frequency band, without any audio interruption. However, the number of usable radio links is reduced if there are active sources of interference in the vicinity of the devices.

- Maintain a distance to sources of interference in the 1.9 GHz frequency band.

Possible sources of interference are e.g. base stations of DECT telephones.

WiFi, Bluetooth, Sennheiser ew D1, infrared remote controls and headphones as well as UHF radio links such as Sennheiser evolution wireless G3 do not represent sources of interference. You do not have to maintain a distance to such equipment.

Direct line of sight

Walls and other obstacles will reduce the range. Therefore, there should always be a direct line of sight between the transmitting antenna and the receiving antenna of a radio link.

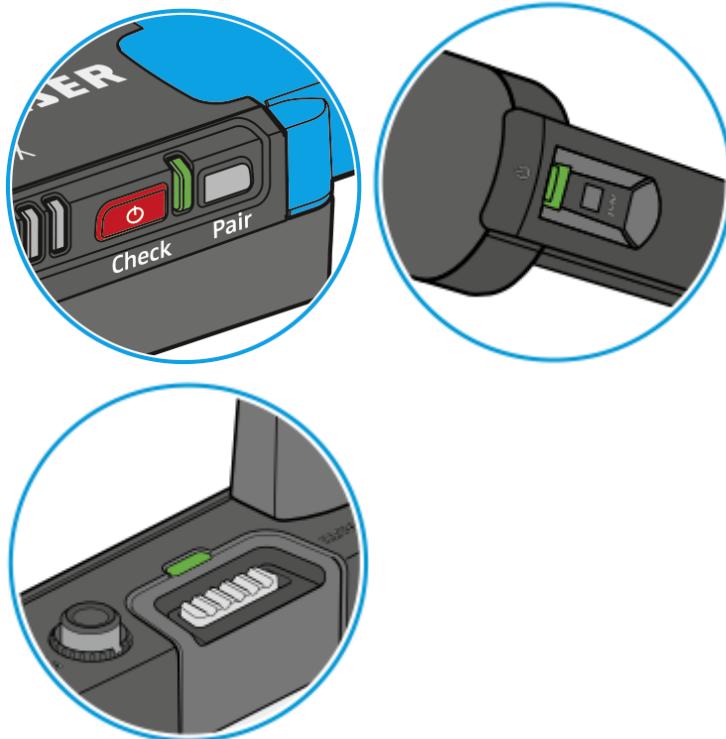


Pairing a receiver with a transmitter

i The receiver and the transmitter of a set are factory pre-paired and therefore ready for immediate use. The radio link is automatically established as soon as both devices are switched on. You can disconnect the existing radio link and establish new radio links to two other devices.

To establish a new radio link between a receiver and a transmitter, proceed as follows:

- ▶ Switch on the receiver and the transmitter that you want to pair (see EKP [Switching the EKP AVX on or off](#), SKM [Switching the SKM AVX on or off](#) and SK [Switching the SK AVX on or off](#)).
- ✓ The status LED on both the receiver and the transmitter indicates the current device status (see [LED display](#), [LED display](#) and [LED display](#)).
- ▶ Long-press, one after the other, the **Pair** buttons of the receiver and the transmitter to be paired until their status LEDs flash alternately green and red. You have 120 seconds between pressing the first button and the second button.



- ✓ **Press pair on receiver** appears on the transmitter display panel.



Existing radio links to other devices are now disconnected.

- ▶ Wait for approx. 10 seconds until the radio link is established.
- Once the radio link is successfully established, **Paired** appears on the transmitter display panel and the status LED on both the transmitter and the receiver lights up green.
- If no radio link can be established, **Pairing failed** briefly appears on the transmitter display panel, followed by the message **No Link** . The status LED of the transmitter and/or the receiver lights up red.



Identifying paired devices

You can perform a pairing identification to see which transmitter is paired with which receiver.

- ▶ Switch on all devices whose pairing you want to identify (see [Switching the EKP AVX on or off](#), [Switching the SKM AVX on or off](#) and [Switching the SK AVX on or off](#)).
- ▶ Short-press the **Pair** button of the receiver or of the transmitter.
 - ✓ The transmitter display panel displays the message **This is AVX** and the last four digits of the serial number of the paired receiver. The status LEDs of the paired devices flash green for 10 seconds.

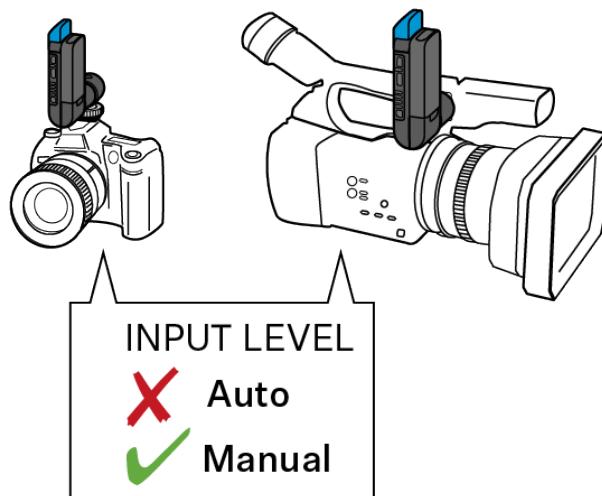
If the receiver or the transmitter is not paired or if the paired device is not switched on or out of range, the status LED does not flash green.



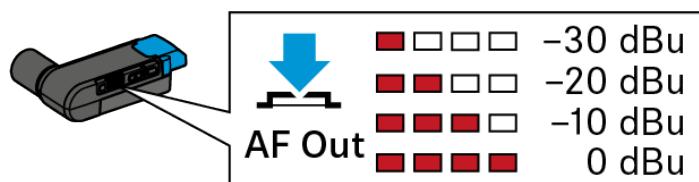
Displaying or adjusting the receiver's audio output level

To display and correctly adjust the receiver's output level:

- ▶ Make sure that the radio link is established.
- ▶ If your video or DSLR camera has an automatic level control, the automatic level control must be deactivated.
 - ✓ The receiver also has an automatic level control which cannot be deactivated. If both the automatic level control of the video camera and the automatic level control of the receiver are active, they will interfere with one another.



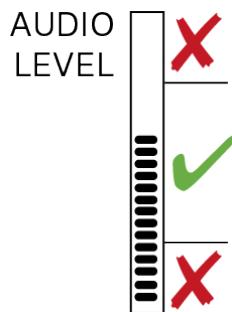
- ▶ Short-press the **AF Out** button on the receiver.
- ✓ The 4-step LED display indicates the current output level. This display automatically goes off after a while.



- ▶ Check the output level display on the video or DSLR camera while using the microphone as usual.



✓ The output level is adjusted correctly when the output level display shows full deflection only during the loudest passages. If your video or DSLR camera has a clipping display, this must never light up.



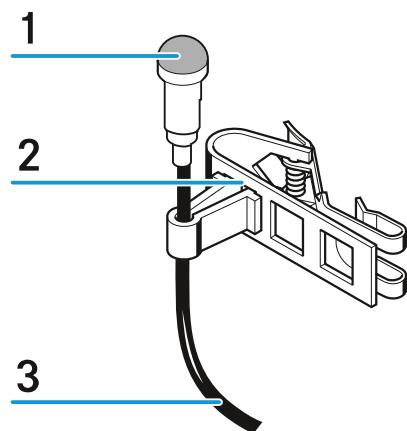
If the output level is adjusted to low or too high:

- ▶ Short-press the **AF Out** button on the receiver while the 4-step LED display is active.
- ✓ The audio output level is reduced by one step each time the **AF Out** button is pressed. When the lowest output level has been reached, you can press the **AF Out** button again to reset the receiver to the highest output level.
- ▶ Alternatively, you can also adjust the input sensitivity of the video camera.



ME 2 clip-on microphone

Product overview



1 Microphone capsule

- with omni-directional pick-up pattern

2 Microphone clip

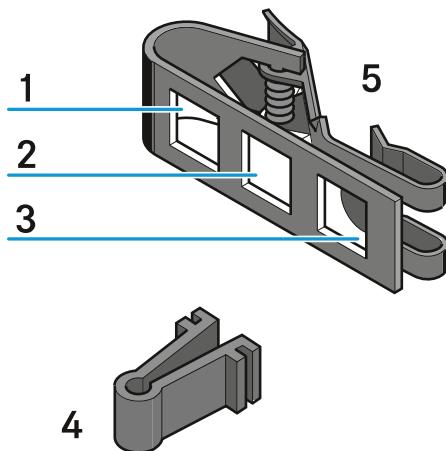
- see [Attaching the clip-on microphone to clothing](#)

3 Connection cable (1.6 m) with lockable 3.5 mm jack plug

- see [Connecting a clip-on microphone to the bodypack transmitter](#)



Attaching the clip-on microphone to clothing



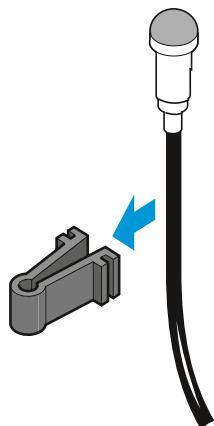
The ME 2 is supplied with a microphone clip that consists of two parts:

- **4** a microphone holder
- **5** a clip for attaching the microphone to clothing

The clip has three holes. Inserting the microphone holder into one of the holes influences the clip's contact pressure and thus ensures secure attachment of the clip to clothing made of different materials:

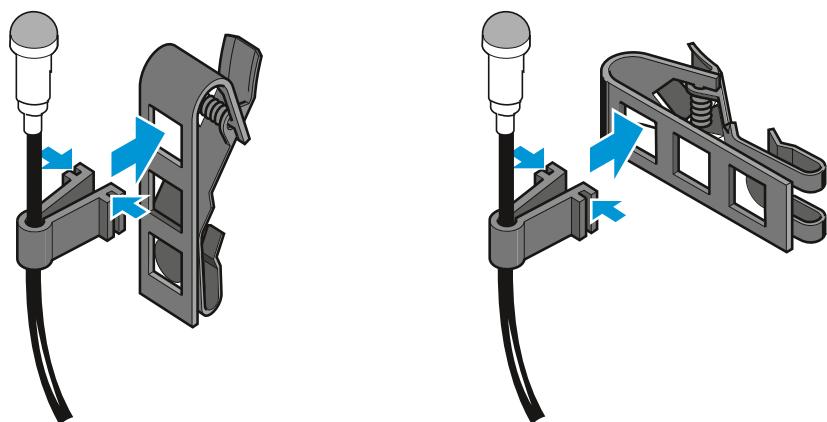
- Hole 1: for attaching the microphone clip to clothing made of very heavy and tightly-woven materials
- Hole 2: for attaching the microphone clip to clothing made of medium heavy materials
- Hole 3: for attaching the microphone clip to clothing made of very thin materials

► Snap the connection cable of the ME 2 into the microphone holder.



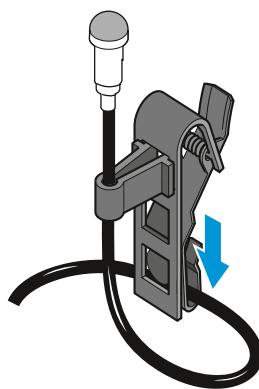


- ▶ Insert the microphone holder into the desired hole of the microphone clip. To do so, press the two ends of the microphone holder together and hook it into the hole.
- ✓ The microphone clip can be attached to clothing either vertically or horizontally. Make sure to insert the microphone holder into the hole according to the desired orientation of the microphone clip.



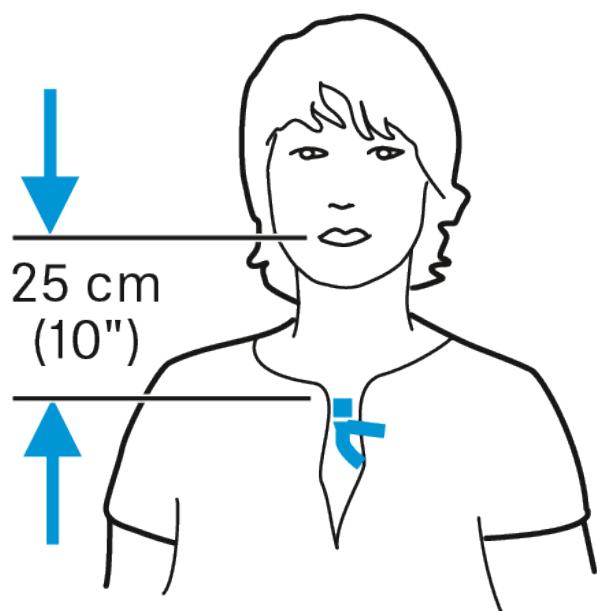
To vertically attach the microphone clip to clothing:

- ▶ Guide the connection cable through the cable grip of the clip.



- ▶ Use the microphone clip to attach the clip-on microphone to clothing (e.g. lapel, collar, tie).
- ▶ Conduct the connection cable so that noise due to friction is avoided and that the connection cable and the antenna do not cross.
- ▶ Attach the microphone at a distance of approx. 25 cm to the mouth.

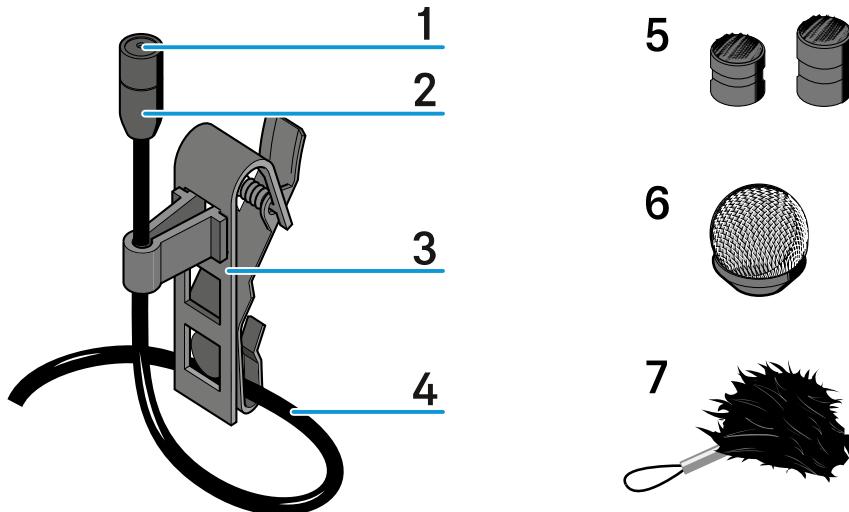
The ME 2 clip-on microphone has an omni-directional pick-up pattern. It is therefore not necessary to position it precisely.





MKE 2 clip-on microphone

Product overview



1 Microphone capsule

- with omni-directional pick-up pattern

2 Anti-kink protection

- to prevent cable damage

3 Microphone clip

- see [Attaching the clip-on microphone to clothing](#)

4 Connection cable (1.6 m) with lockable 3.5 mm jack plug

- see [Connecting a clip-on microphone to the bodypack transmitter](#)

5 Frequency response caps for sound optimization

- see [Using the frequency response caps](#)

6 Metal windshield

- see [Use the metal windshield](#)



7 Fur windshield

- see [Use the fur windshield](#)

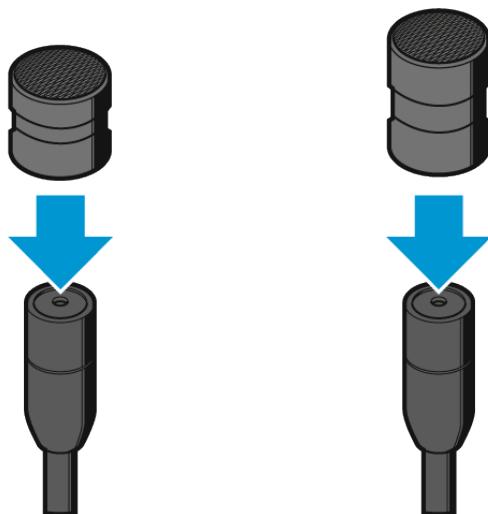


Using the frequency response caps

You can use the supplied frequency response caps to boost the frequency response of the MKE 2 (e.g. if the sound is too muffled) and to optimize your recordings by improving the speech intelligibility.

- ▶ Slip the frequency response cap of your choice onto the microphone capsule until it locks into place.
 - ✓ The (small) MZC 2-1 frequency response cap slightly increases the treble response of the microphone.

The (large) MZC 2-2 frequency response cap allows you to increase the treble frequencies to a greater extent.





Using the windshield

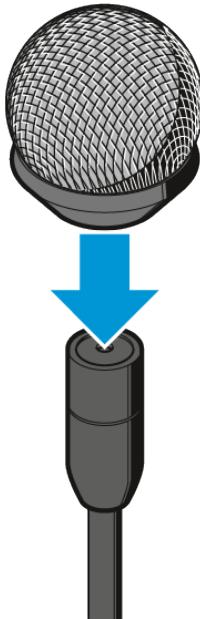
In order to avoid annoying wind noise during recording, we recommend using a suitable windshield.

The MKE 2 is supplied with a metal windshield and a fur windshield. To begin with, use the metal windshield which reduces wind noise by up to 20 dB. With the additional fur windshield, you can reduce wind noise by a further 10 dB.

The fur windshield can only be used together with the metal windshield.

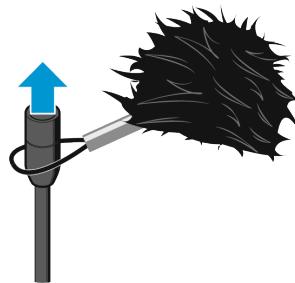
To use the metal windshield:

- ▶ Slip the metal windshield onto the microphone capsule of the MKE 2.
- ✓ The microphone is ready for operation and can be attached to clothing by means of the supplied microphone clip (see [Attaching the clip-on microphone to clothing](#)).



To use the fur windshield:

- ▶ If you are already using the metal windshield or one of the frequency response caps, remove them from the microphone capsule.
- ▶ Stretch open the retaining loop of the fur windshield by moving the sleeve towards the fur.
- ▶ Make sure you do not accidentally remove the sleeve from the retaining loop.
- ▶ Pass the microphone through the retaining loop of the fur windshield.
- ✓ The retaining loop now fits loosely around the connection cable of the MKE 2.
- ▶ Slip the metal windshield onto the microphone capsule.

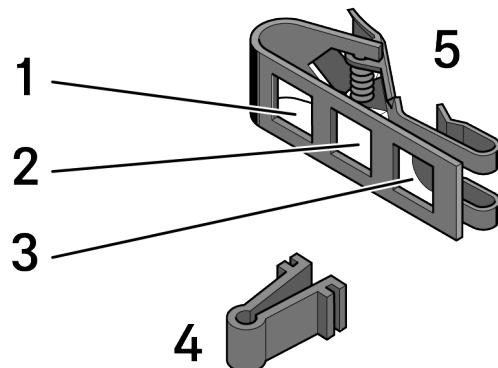


- ▶ Carefully stretch the opening of the fur windshield and slide it over the metal windshield.
- ▶ Make sure that the fur windshield completely covers the metal windshield.
- ▶ Use the sleeve to tighten the retaining loop around the connection cable.
 - ✓ The retaining loop ensures that the fur windshield is securely attached to the clip-on microphones.





Attaching the clip-on microphone to clothing



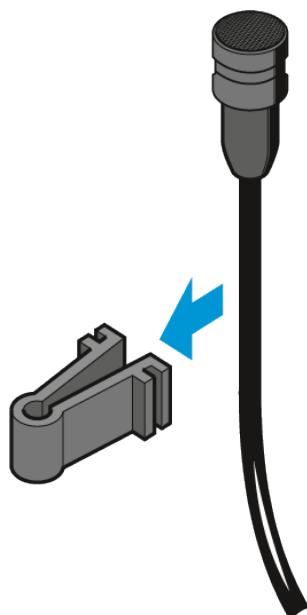
The MKE 2 is supplied with a microphone clip that consists of two parts:

- **4** a microphone holder
- **5** a clip for attaching the microphone to clothing

The clip has three holes. Inserting the microphone holder into one of the holes influences the clip's contact pressure and thus ensures secure attachment of the clip to clothing made of different materials:

- Hole 1: for attaching the microphone clip to clothing made of very heavy and tightly-woven materials
- Hole 2: for attaching the microphone clip to clothing made of medium heavy materials
- Hole 3: for attaching the microphone clip to clothing made of very thin materials

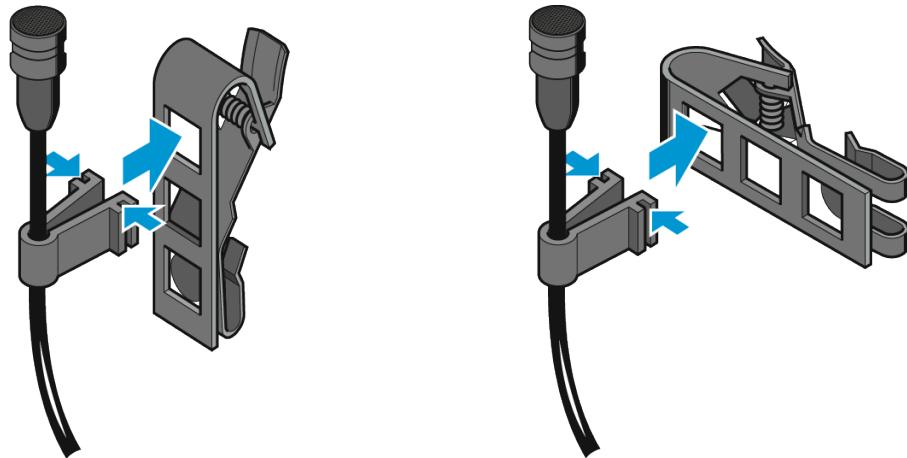
► Snap the connection cable of the MKE 2 into the microphone holder.





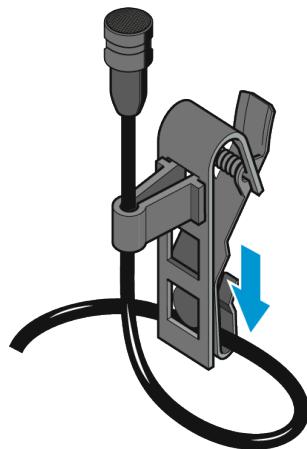
- ▶ Insert the microphone holder into the desired hole of the microphone clip. To do so, press the two ends of the microphone holder together and hook it into the hole.

The microphone clip can be attached to clothing either vertically or horizontally. Make sure to insert the microphone holder into the hole according to the desired orientation of the microphone clip.



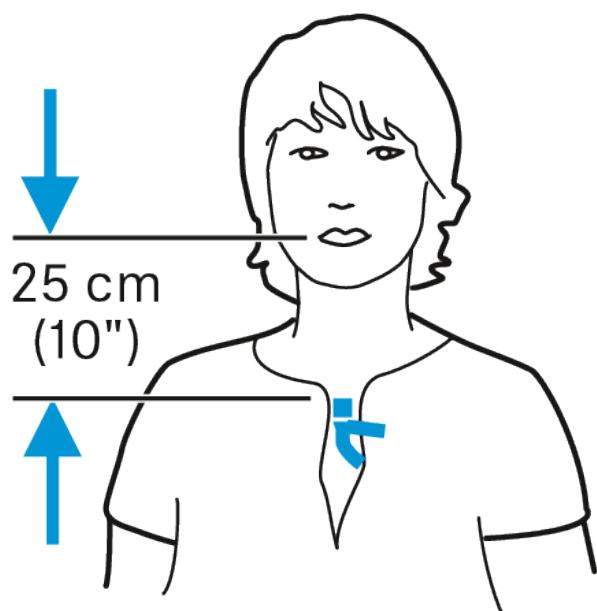
To vertically attach the microphone clip to clothing:

- ▶ Guide the connection cable through the cable grip of the clip.



- ▶ Use the microphone clip to attach the clip-on microphone to clothing (e.g. lapel, collar, tie).
- ▶ Conduct the connection cable so that noise due to friction is avoided and that the connection cable and the antenna do not cross.
- ▶ Attach the microphone at a distance of approx. 25 cm to the mouth.

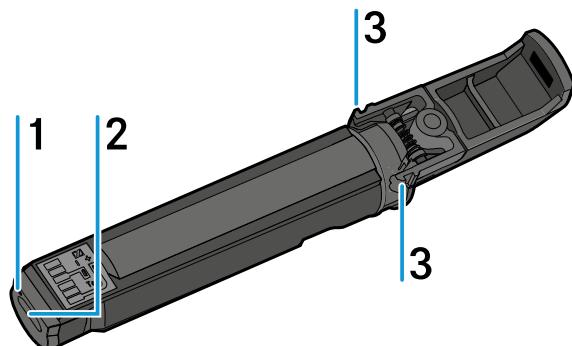
The MKE 2 clip-on microphone has an omni-directional pick-up pattern. It is therefore not necessary to position it precisely.





Accupacks

BA 10



1 Charge status LED



The accupack is fully charged.



The accupack is being charged.

2 Micro USB socket

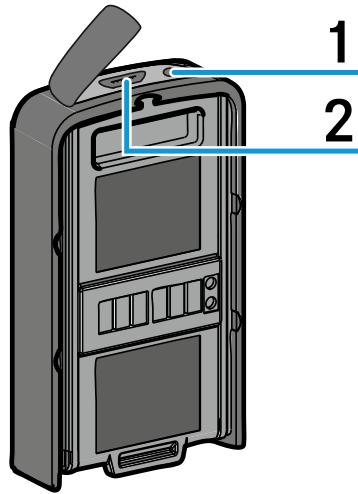
- For charging the accupack.
- See [Recharging the accupack](#)

3 Catches

- Press simultaneously to release the accupack from the handheld transmitter.



BA 20



1 Charge status LED



The accupack is fully charged.



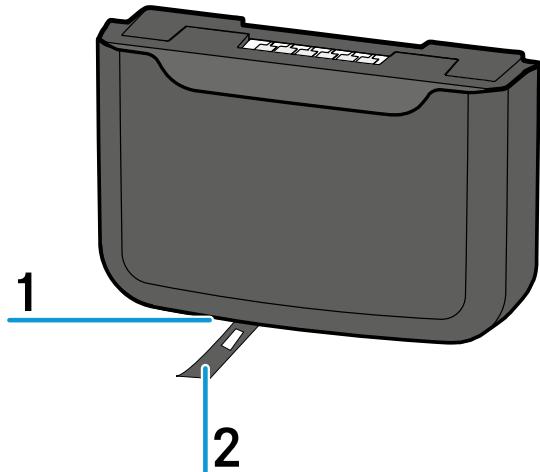
The accupack is being charged.

2 Micro USB socket

- For charging the accupack.
- See [Recharging the accupack](#)



BA 30



1 Charge status LED



The accupack is fully charged.



The accupack is being charged.

2 USB cover flap

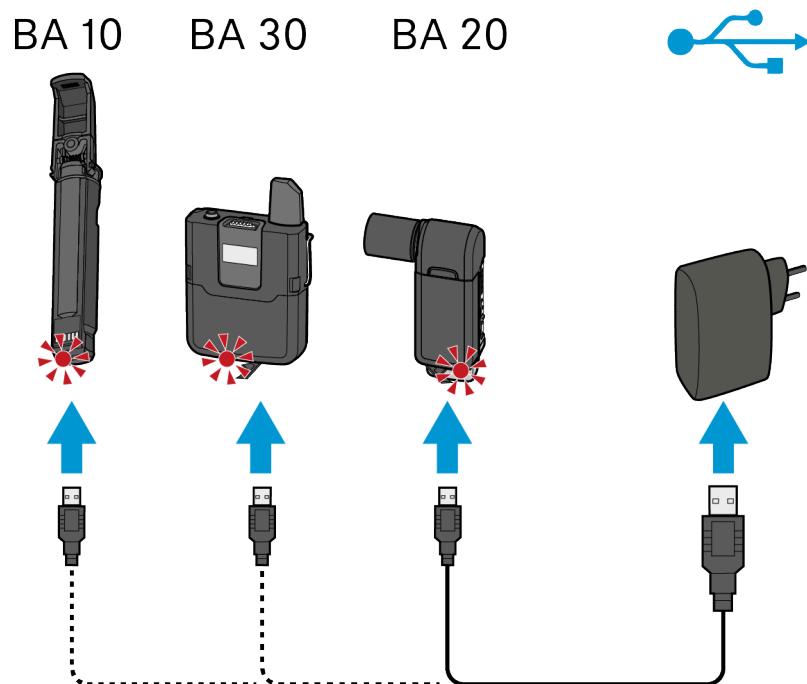
- Covers the micro USB socket for charging the accupack.
- See [Recharging the accupack](#)



Recharging the accupack

You can recharge the supplied BA 10, BA 20 and BA 30 accupacks as follows:

- using a standard USB power supply/charger
- via the USB port of a computer
- via a USB hub with its own power supply
- via a mobile USB power supply (power bank)



Charging the accupacks using a standard USB power supply/charger

i The BA 20 accupack of the receiver and the BA 30 accupack of the bodypack transmitter can remain in their respective devices for charging.

- ▶ **BA 10:** Remove the accupack from the handheld transmitter (see [Removing/inserting the accupack BA 10](#)).
- ▶ If the accupack's micro USB socket has a cover flap: Open the cover flap of the micro USB socket of the accupack.
- ▶ Connect the micro USB connector of the USB cable to the micro USB socket of the accupack.



To charge the accupack via the USB port of a computer or a mobile USB power supply (power bank):

- ▶ Connect the USB connector of the USB cable to a USB socket of the computer or the mobile USB power supply.
- ▶ Switch the computer or the mobile USB power supply on.

To charge the accupack using any USB power supply/charger or a USB hub with external power supply:

- ▶ Connect the USB connector of the USB cable to the USB socket of the USB power supply/charger or to the USB hub.
- ▶ Plug the USB power supply/charger or the power supply unit of the USB hub into the wall socket.
- ▶ The charge status LED of the accupack lights up red when the accupack is being charged. The charge status LED of the accupack lights up green when the accupack is fully charged.

Charging time

Charging time required for a capacity of	BA 10	BA 20	BA 30
30 %	1:00 h	0:15 h	1:00 h
60 %	2:00 h	0:30 h	2:00 h
75 %	3:00 h	0:40 h	3:00 h
100 %	4:30 h	1:15 h	4:30 h



Cleaning and maintenance

Note the following information when cleaning and maintaining products of the AVX series.

NOTICE



Liquids can damage the electronics of the product

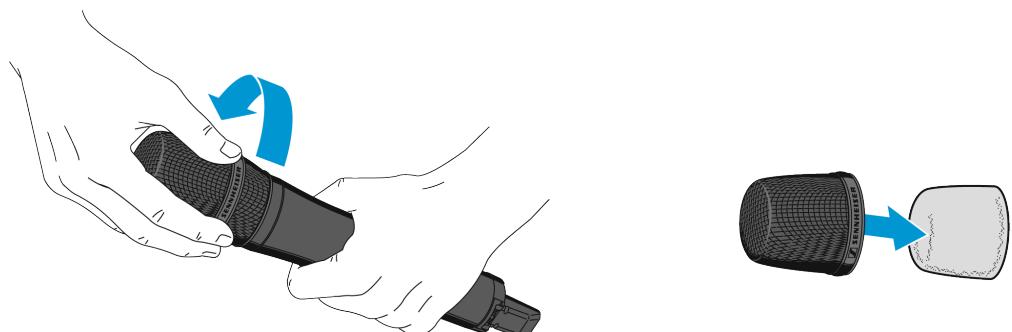
Liquids entering the product housing can cause a short-circuit and damage the electronics.

- ▶ Keep all liquids away from the products.
- ▶ Do not use any solvents or cleansing agents.
- ▶ Disconnect the mains-operated products from the power supply system and remove rechargeable batteries and batteries (if present) before you begin cleaning.
- ▶ Clean all products only with a soft, dry cloth.

- ▶ Note the special cleaning instructions below for the following products.

Cleaning the sound inlet basket of the microphone module

- ▶ Unscrew the top sound inlet basket from the microphone module by turning it counterclockwise.
- ▶ Remove the foam insert.



You can clean the sound inlet basket in two ways:

- Use a slightly damp cloth to clean the top sound inlet basket from the inside and outside.
- Use a brush and rinse with clean water.

- ▶ If necessary, clean the foam insert with a mild detergent or replace the foam insert.
- ▶ Dry the top sound inlet basket and foam insert.
- ▶ Reinsert the foam insert.
- ▶ Screw the sound inlet basket back onto the microphone module.



i From time to time, you should also clean the microphone module contacts:

- ▶ Wipe the contacts of the microphone module with a soft, dry cloth.

Cleaning the bodypack transmitter contacts

- ▶ Wipe the contacts with a dry cloth.



4. Specifications

All specifications at a glance.

System

AF frequency response

- 20 to 20,000 Hz

Dynamic range

- > 120 dB (A)

THD (1 kHz)

- Typ. 0.1 %

Audio Sampling

- 24 bit/48 kHz

Signal-to-noise ratio

- > 90 dB (A)

RF frequency ranges

- 1880 to 1930 MHz (country-specific)

Modulation

- GFSK with back channel

Transmission method

- TDMA fast switching antenna diversity

Latency

- 19 ms

Relative air humidity

- Max. 95 %

Operating temperature range

- -10 °C to +55 °C



Storage temperature range

- -20 °C to +70 °C



EKP AVX

RF sensitivity

- < -90 dBm

RF output power of back channel

- Typ. 15 dBm e.i.r.p.

Audio output: XLR, balanced

- Adjustable: -30 dBu to 0 dBu in 4 steps

Power supply

- BA 20 (Li-Ion 3.7 V DC)

Operating time

- > 4 h

AF connection socket

- XLR, male

Dimensions

- 81 x 51 mm

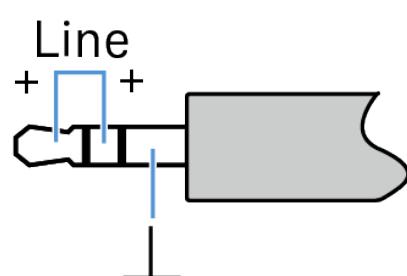
Weight (incl. accupack)

- approx. 87 g

CL 400

AF connector

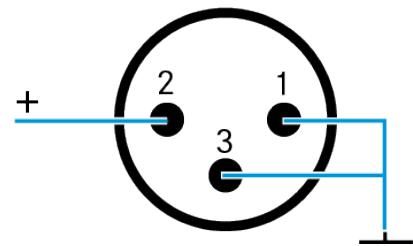
- 3.5 mm jack plug, unbalanced
- Connector assignment:





AF connection socket

- XLR, female
- Pin assignment:





SKM AVX

RF output power

- Adaptive, up to 250 mW (country-specific)

AF frequency response

- 50 to 20,000 Hz

Input sensitivity

- Automatic Sensitivity Adjustment

Power supply

- Accupack BA 10 (Li-Ion, 3.6 V)

Operating time with accupack

- Typ. 15 h

Display

- LCD

Dimensions

- Approx. 275 x 40 mm

Weight (without accupack)

- Approx. 282 g incl. microphone head



SK AVX

RF output power

- Adaptive, up to 250 mW (country-specific)

AF frequency response

- Mic: 50 to 20.000 Hz
- Line: 20 to 20,000 Hz

Max. input level

- Mic: 1.5 V RMS
- Line: 3.1 V RMS

Line input impedance

- 1 MΩ

Input sensitivity

- Automatic Sensitivity Adjustment

Power supply

- Accupack BA 30 (Li-Ion, 3.7 V)

Operating time with accupack

- Typ. 15 h

Dimensions

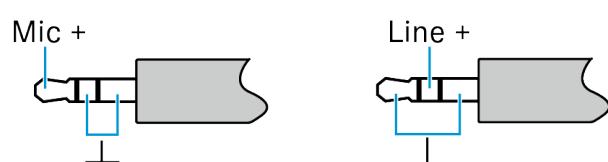
- 100 x 65 x 24 mm

Weight (without accupack)

- Approx. 87 g

AF connection socket

- 3.5 mm jack socket, lockable
- Connector assignment:





ME 2 | MKE 2

Microphone type

- Pre-polarized condenser microphone

Sensitivity

- ME 2: 17 mV/Pa
- MKE 2: 5 mV/Pa

Pick-up pattern

- Omni-directional

Max. SPL

- ME 2: 130 dB
- MKE 2: 142 dB SPL



BA 10 | BA 20 | BA 30

Charging capacity

- BA 10: 2200 mAh
- BA 20: 430 mAh
- BA 30: 2030 mAh

Output voltage

- BA 10: 3.6 V
- BA 20: 3.7 V
- BA 30: 3.7 V



5. Contact

Contact information in case of questions about our products and/or services.





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