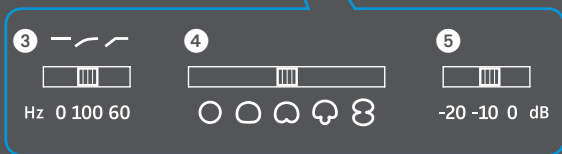
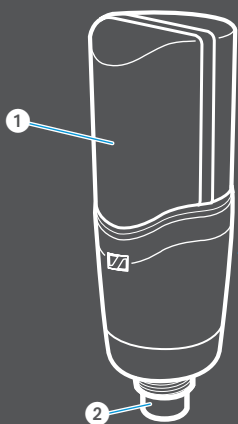


# MK 8

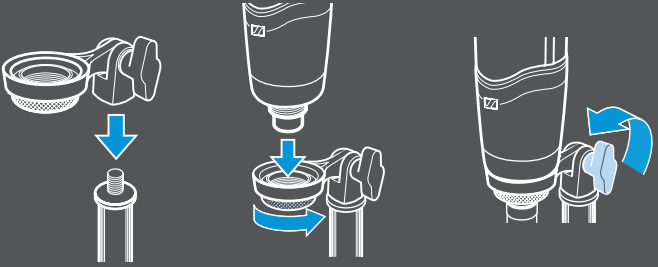


Instruction manual

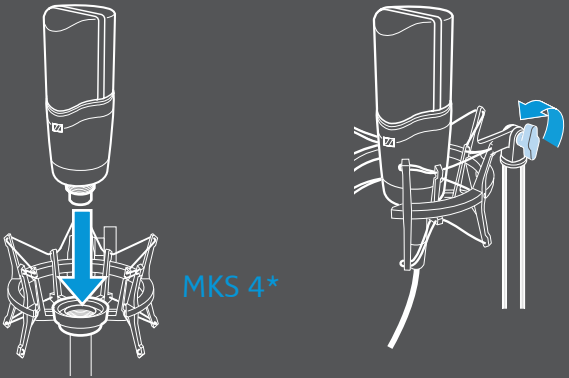
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B



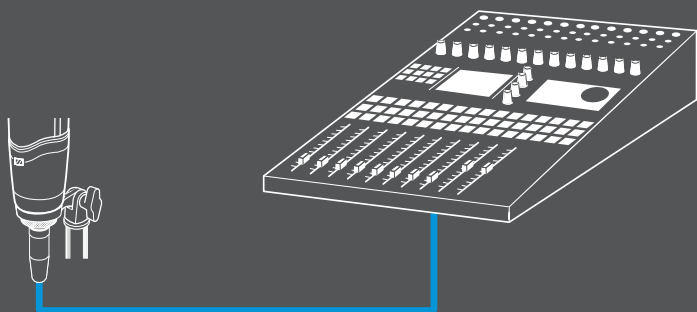
C



# D

MK 8

P48 IEC 61938

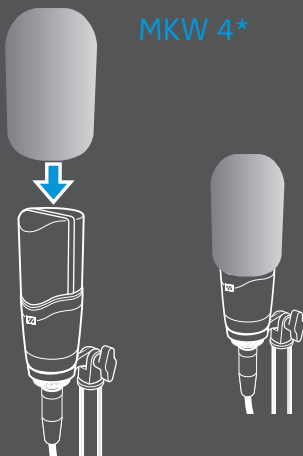


# E

MZP 40\*

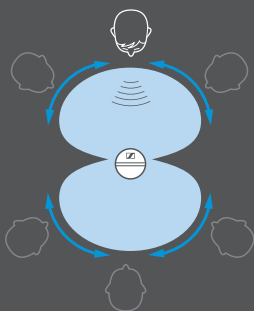
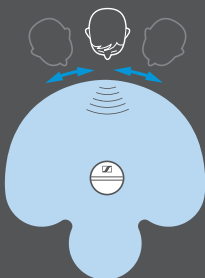
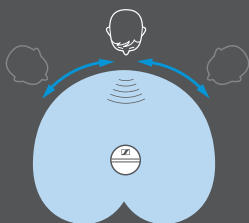
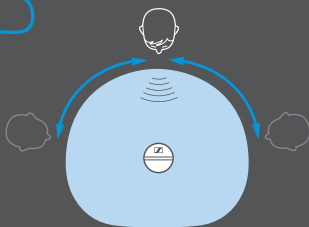
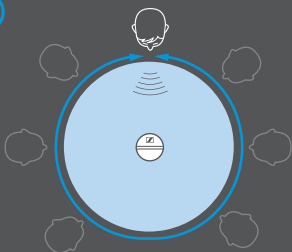


MKW 4\*



\* optional accessory

F



## Important safety information

- Please read this instruction manual carefully and completely before using the product.
- Make this instruction manual easily accessible to all users at all times.
- Always include this instruction manual when passing the product on to third parties.

### Before operation

- Only connect the product to microphone inputs or power supply units which provide 48 V phantom powering as per IEC 61938 ( $48 \pm 4$  V, at least 3.5 mA per channel).
- Never open the housing of the product. If products are opened by customers in breach of this instruction, the warranty becomes null and void.

### During operation

- Liquids entering the product can short-circuit the electronics or damage the mechanics. Keep all liquids away from the product.
- Solvents or cleansing agents can damage the surface of the product. Only use a soft, slightly damp cloth to clean the product.
- Do not expose the product to extreme temperatures.

### After operation

- Handle the product with care and store it in a clean, dust-free environment.

### Intended use

Intended use includes:

- having read this instruction manual, especially the chapter "Important safety information",
- using the product within the operating conditions and limitations described in this instruction manual.

"Improper use" means using the product other than as described in this instruction manual, or under operating conditions which differ from those described herein.

## The MK 8 microphone

The MK 8 is a large diaphragm true condenser studio microphone for very detailed, professional studio recordings. The switchable pick-up pattern provides excellent flexibility. The microphone offers outstanding sound quality, easy handling and an excellent value-for-money ratio.

### Features

- Professional large diaphragm capsule (1") in true condenser design, internally shock-mounted for low handling noise
- 24-carat gold-plated diaphragm
- Rugged metal housing
- Low inherent self-noise and high maximum sound pressure level
- Five switchable pick-up patterns due to dual diaphragm transducer
- 3-position switchable low-cut/roll-off filter
- 3-position pad switch
- Made in Germany

### Areas of application

- Speech/vocals
- Acoustic guitars
- Guitar amplifiers
- Grand piano
- Strings
- Wind instruments
- Drums and percussion

### Package contents



MK 8 microphone



MZQ 4 microphone clamp





Pouch




Instruction manual

## Product overview A\*

- 1 Sound inlet basket
- 2 XLR-3 socket
- 3 Low-cut/roll-off switch 
- 4 Directivity switch 
- 5 Pad switch **-20 dB -10 dB 0 dB**

## Putting the MK 8 into operation

Information on mounting, connecting and orienting the MK 8 can be found on the cover page.

 To suppress structure-borne noise, you can use the MKS 4 shock mount (see diagram C on the cover page).

## Using the MK 8






**Caution** Danger of damage to the device!


The switches on the MK 8 can be damaged if you try to operate them using tools.

- ▶ Only operate the switches on the MK 8 using your fingers.

## Adjusting the pick-up pattern

▶ Set the directivity switch **2** to the desired position:

Pos.	Pick-up pattern
	Omni-directional
	Wide cardioid
	Cardioid
	Super-cardioid
	Figure-of-eight

 Information on the sound inlet areas of the different pick-up patterns can be found in diagram F on the cover page.

\* Diagrams can be found on the cover pages.






## Adjusting the attenuation

- ▶ Set the pad switch **5** to the desired position:

Pos.	Attenuation
0 dB	No attenuation
-10 dB	Reduces the sensitivity of the microphone capsule, increases the maximum sound pressure level.
-20 dB	Reduces the sensitivity of the microphone capsule, increases the maximum sound pressure level. Additionally reduces the output gain, avoids overloading the microphone amplifiers.

## Adjusting the low-cut/roll-off filter

- ▶ Set the low-cut/roll-off switch **3** to the desired position:

Pos.	Low-cut/roll-off filter
	Off, linear frequency response
	Roll-off, -6 dB/oct., cut-off frequency: 100 Hz, compensates for the bass boost due to proximity effect
	Low-cut, -18 dB/oct, cut-off frequency: 60 Hz, eliminates low-frequency noise such as impact sound

## Instructions for use

- ▶ Make sure that there is no disturbing noise source (e.g. PC fan, loud-speaker) in the sound inlet area of the microphone.

If sibilance occurs:

- ▶ Position the MK 8 slightly to the side and not directly in front of the mouth or sound source.

To suppress pop noise:

- ▶ Use a pop shield, e.g. the Sennheiser MZP 40 (see diagram E on the cover page).

To reduce wind noise:

- ▶ Use a windshield, e.g. the Sennheiser MKW 4 (see diagram E on the cover page). The windshield changes the sound only slightly, but attenuates wind noise by approx. 10 dB.

## Cleaning and maintaining the MK 8

---

**Caution**    **Damage to the product due to liquids!**

Liquids entering the product can short-circuit the electronics or damage the mechanics. Solvents or cleansing agents can damage the surface of the product.

- ▶ Keep all liquids away from the product.
  - ▶ Do not use any solvents or cleansing agents.
- 

- ▶ Only use a soft, slightly damp cloth to clean the product.

When not using the microphone for extended periods of time:

- ▶ Store the microphone in a dry, clean and dust-free place at room temperature.
- ▶ For this, use the supplied pouch or a lint-free, air-permeable packing material.

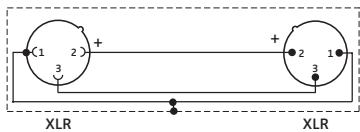
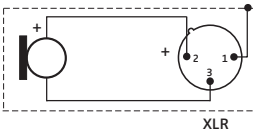
## If a problem occurs ...

Problem	Possible cause	Possible solution
No function	Phantom power is not switched on	Switch the phantom power on.
	Phantom power device is not connected to the mains or no battery is inserted	Check the mains connection or the battery of the phantom power device.
No signal transmission	Microphone is connected to the wrong input or input is not activated	Check the signal path. Activate the input.
	Max. SPL is clipped due to a very loud sound source	Set the pad switch on the microphone to -10 dB.
Sound distorted	Subsequent device is overloaded in spite of minimum sensitivity	Set the pad switch on the microphone to -10 or -20 dB.
	Wind influence	Use a suitable windshield.
	Plosives	Use a suitable pop shield.
	Structure-borne noise transmission	Use a suitable shock mount.
	Pick-up pattern has been ignored	Check if the microphone is spoken into from the correct side. Make sure that the Sennheiser logo or the slanted front of the sound inlet basket faces your body.

# Specifications

Transducer principle	externally polarized dual diaphragm condenser microphone
Diameter of diaphragm	25.4 mm / 1"
Acoustic operating principle	pressure gradient transducer
Pick-up pattern, switchable	omni-directional, wide cardioid, cardioid, super-cardioid, figure-of-eight
Frequency response	20 Hz to 20,000 Hz
Sensitivity	14.1 mV/Pa (-37 dBV)
Max. SPL	142 dB SPL (attenuation: 0 dB)
Equivalent noise level as per IEC 60268-1	10 dB-A as per IEC 61672-1 16 dB CCIR as per CCIR 468-3
Dynamic range	132 dB
Nominal impedance	50 Ω
Min. terminating impedance	1 kΩ
Power supply	phantom powering (P48) as per IEC 61938 (48 ±4 V)
Low cut/roll-off filter, switchable	linear roll-off: -6 dB/oct., cut-off frequency: 100 Hz low-cut: -18 dB/oct., cut-off frequency: 60 Hz
Attenuation, switchable	0 dB, -10 dB, -20 dB
Current consumption	4.1 mA
Diameter	approx. 57 mm
Length	approx. 160 mm
Weight	approx. 485 g
Operating temperature	0°C to +40°C
Storage temperature	-10°C to +60°C

## Connector assignment



## Manufacturer Declarations

### Warranty

Sennheiser electronic GmbH & Co. KG gives a warranty of 24 months on this product.

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

#### FOR AUSTRALIA ONLY

Sennheiser goods come with guarantees that cannot be excluded under the Australian 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 liability of Sennheiser which is imposed by law, or limits or modifies any remedy available to the consumer which is granted by law.

To make a claim under this warranty, contact

Sennheiser Australia Pty Ltd, Unit 3, 31 Gibbes Street Chatswood NSW 2067, AUSTRALIA.

Phone: (02) 9910 6700, email: [service@sennheiser.com.au](mailto:service@sennheiser.com.au).

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

The Sennheiser International Warranty is provided by Sennheiser Australia Pty Ltd (ABN 68 165 388 312), Unit 3, 31 Gibbes Street Chatswood NSW 2067 Australia.

### In compliance with the following requirements

- WEEE Directive (2012/19/EU)






- Please dispose of this product at the end of its operational lifetime by taking it to your local collection point or recycling center for such equipment.

### CE Declaration of Conformity

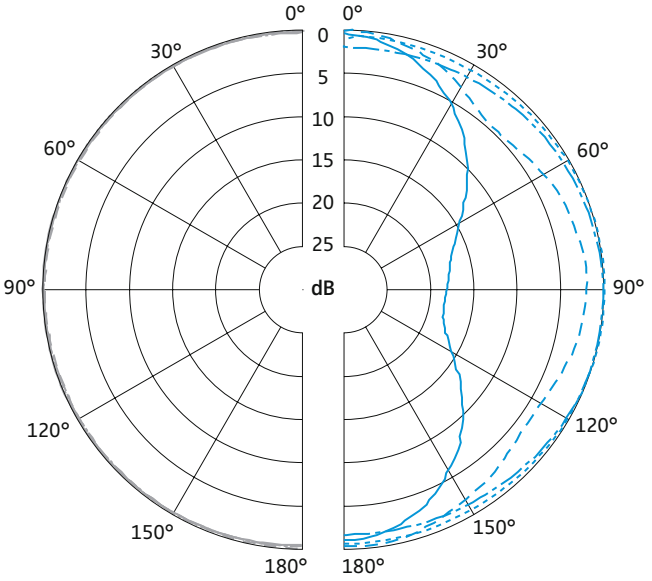
- RoHS Directive (2011/65/EU)
- EMC Directive (2014/30/EU)

The declaration is available at [www.sennheiser.com](http://www.sennheiser.com).

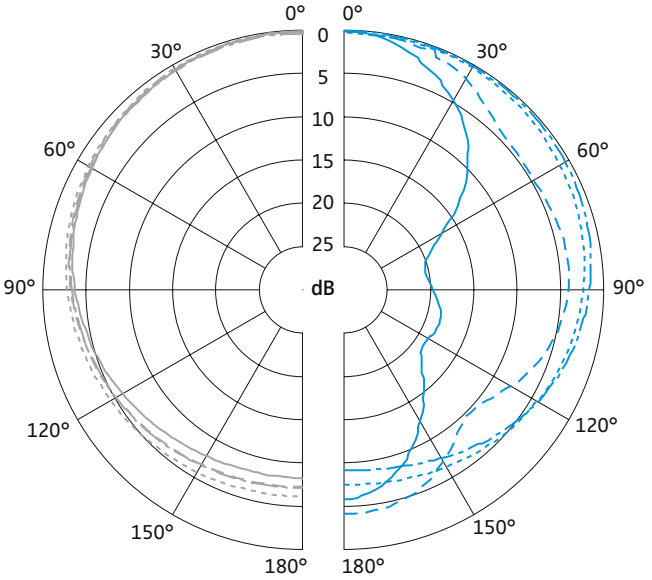
## In compliance with

Europe	 EMC EN 55103-1/-2
USA	FCC 47 CFR 15 subpart B
Canada	Industry Canada ICES-003
China	
Australia/New Zealand	

# Omni-directional

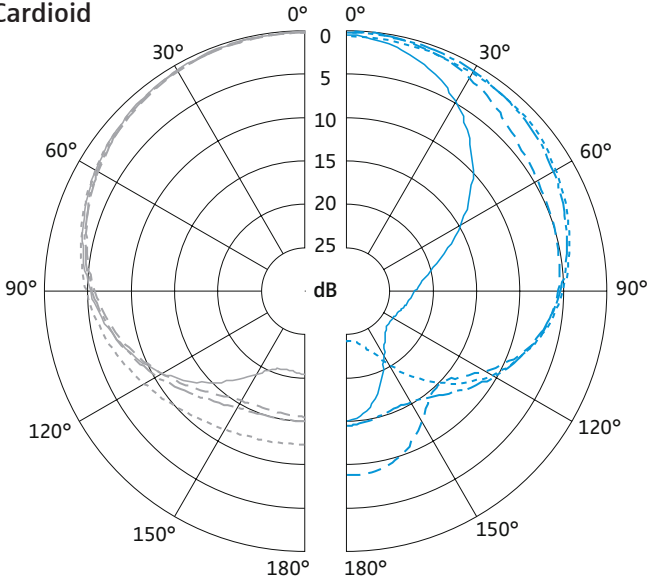


# Wide cardioid

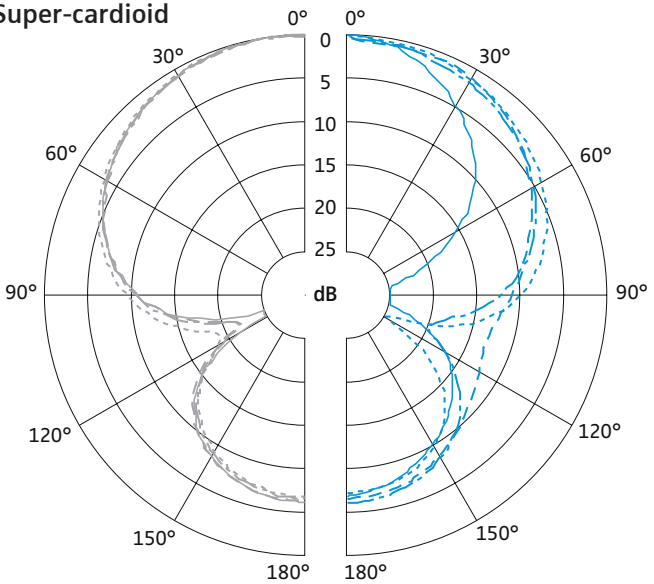


- |                   |                    |
|-------------------|--------------------|
| 125 Hz - - - - -  | 2000 Hz - - - - -  |
| 250 Hz - - - - -  | 4000 Hz - - - - -  |
| 500 Hz - - - - -  | 8000 Hz - - - - -  |
| 1000 Hz - - - - - | 16000 Hz - - - - - |

# Cardioid



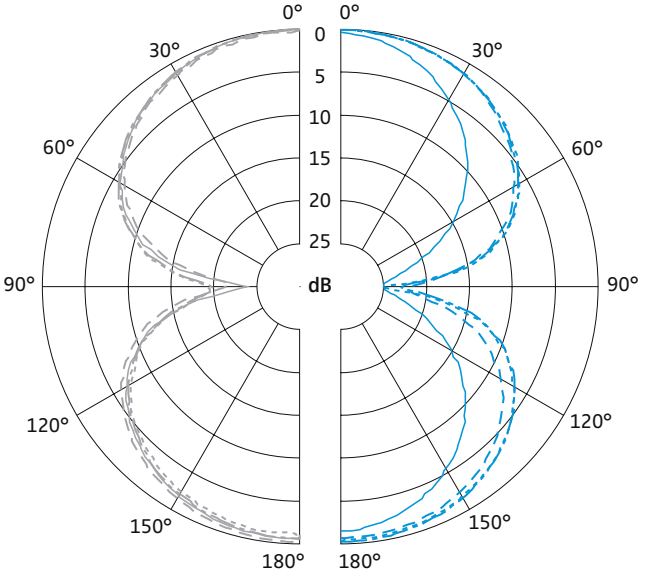
# Super-cardioid



- |         |           |          |           |
|---------|-----------|----------|-----------|
| 125 Hz  | .....     | 2000 Hz  | .....     |
| 250 Hz  | -----     | 4000 Hz  | -----     |
| 500 Hz  | - - - - - | 8000 Hz  | - - - - - |
| 1000 Hz | —————     | 16000 Hz | —————     |

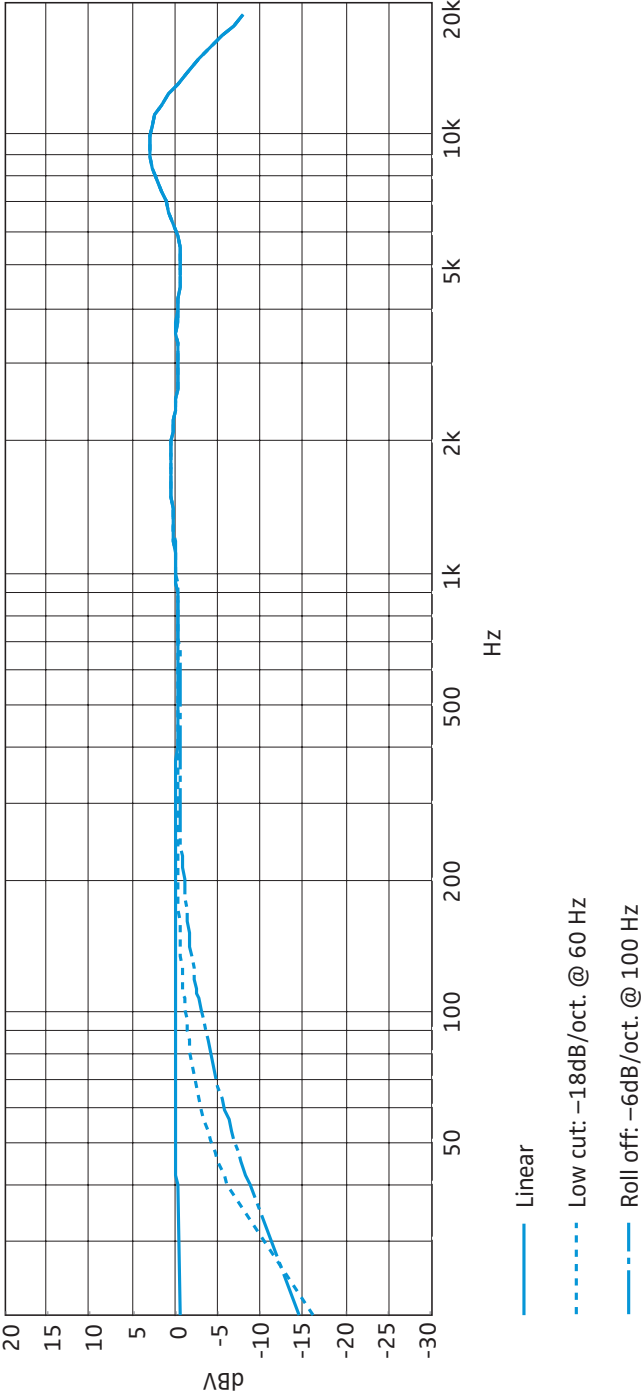


# Figure-of-eight

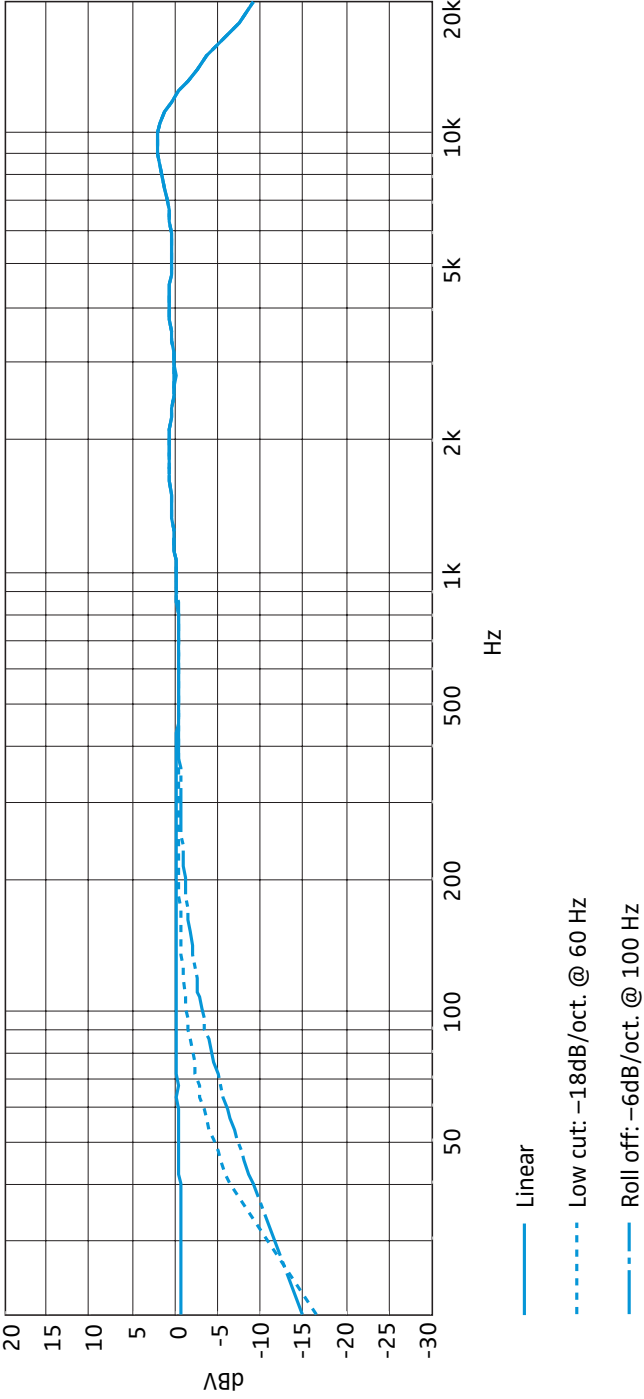


- |         |       |          |       |
|---------|-------|----------|-------|
| 125 Hz  | ----- | 2000 Hz  | ----- |
| 250 Hz  | ----- | 4000 Hz  | ----- |
| 500 Hz  | ----- | 8000 Hz  | ----- |
| 1000 Hz | ----- | 16000 Hz | ----- |

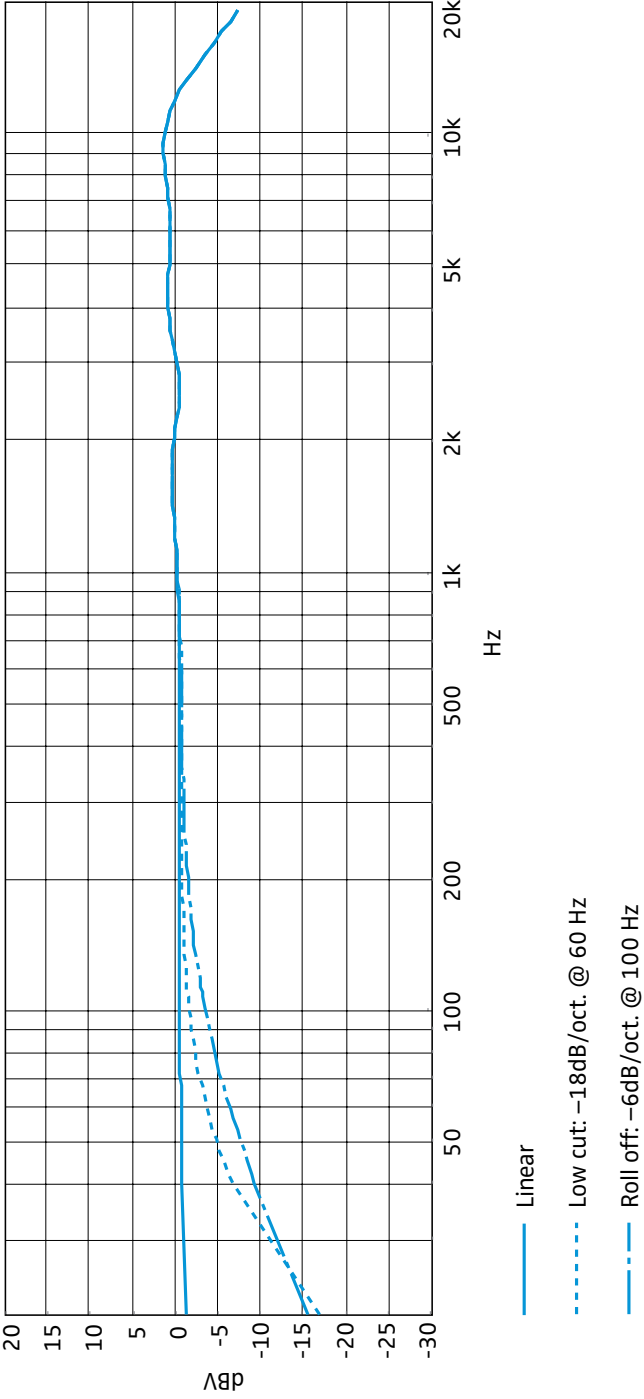
# Omnidirectional



# Wide cardioid



# Cardioid



# Super-cardioid

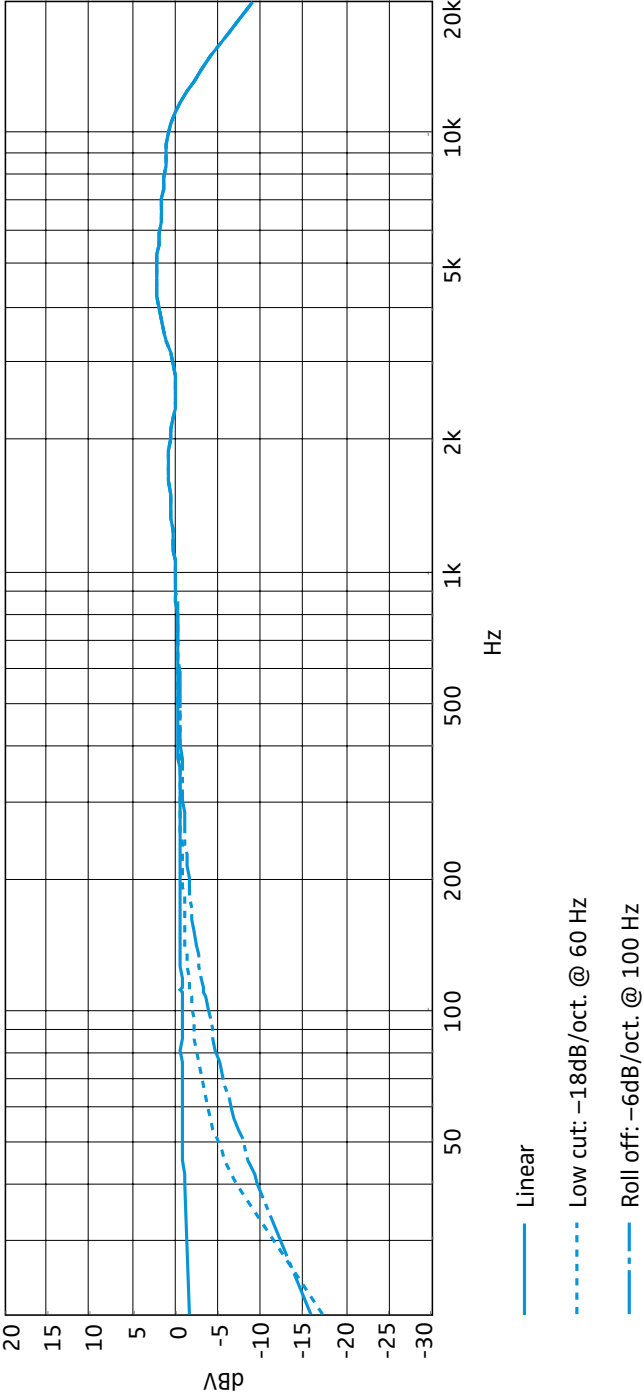
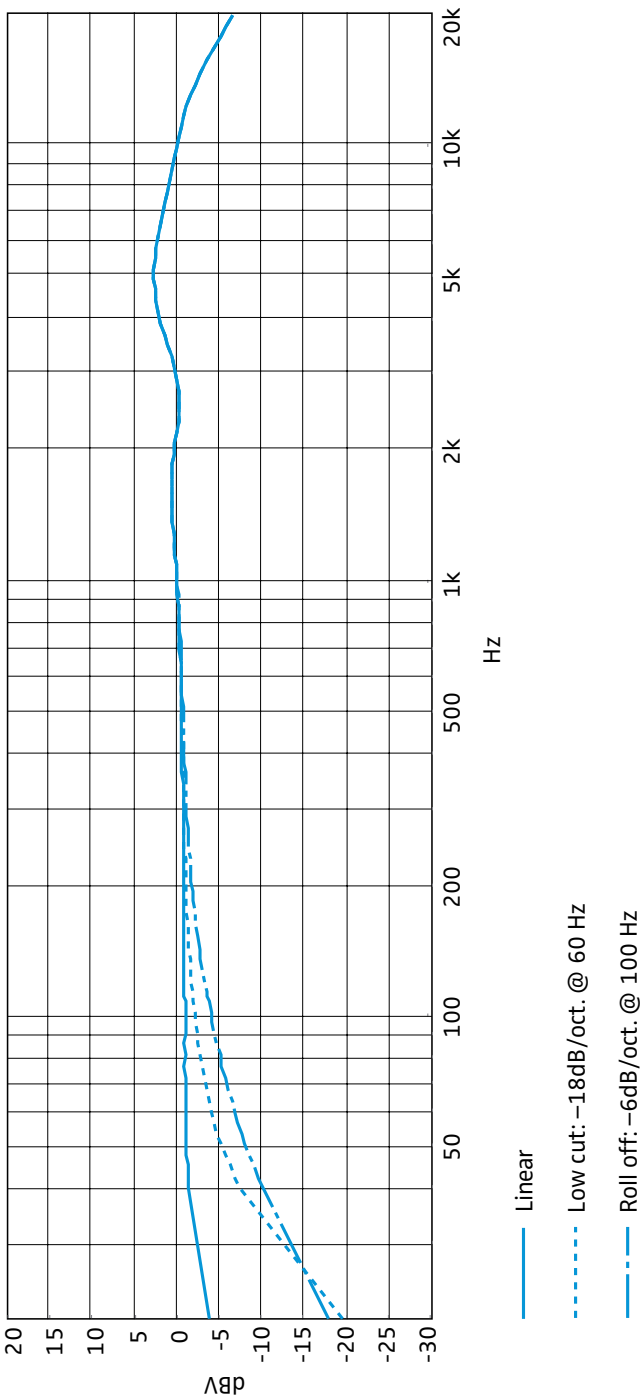


Figure-of-eight





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