



beyerdynamic MC 950 True Condenser Microphone User Manual

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You have chosen the MC 950 true condenser microphone from beyerdynamic.
Thank you for your confidence in our M series. In this user manual you will find important information on the use of your product.
Please take sufficient time to read them.



ENJOY THE SOUND!

Your beyerdynamic Microphone Team


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SAFETY INSTRUCTIONS

-  Read this user manual and the safety instructions carefully before using the product.
- Do not use the product if it is damaged.
- Lay cables in such a way that no one can trip over the cables and that the device cannot be damaged.
- Repairs may only be carried out by authorised specialists. Never open the microphone yourself. For devices that have been opened by the customer the warranty will invalidate.
- Do not expose the product to rain, snow, liquids or moisture.
- Use the device only under the conditions specified in the technical specifications.
- Only use accessories and spare parts approved by the manufacturer.
-  Reduce the volume on the connected playback devices to prevent hearing damage, acoustic feedback and damage to the loudspeakers.

Intended use

-  Do not use the product in any way other than as described in this product manual. beyerdynamic accepts no liability for improper use of the product or its accessories.

Liability

-  beyerdynamic GmbH & Co. KG accepts no liability for damage to the product or injury to persons due to careless, improper or incorrect use, that is not in accordance with the purpose stated by the manufacturer.

BOX CONTENTS

- 1 x MC 950 microphone

- 1 x MA-CL 21 microphone clamp
- Storage case
- Individual measurement chart
- “M Series Guide” info sheet
- Technical specifications on the M series

OPTIONAL ACCESSORIES

EA 19/25 Elastic suspension

19-25 mm, incl. MA-CL 36

microphone clamp Order # 407.194

WS 101 Wind shield,

Colour: charcoal-grey Order # 111.244

WS 53 Wind shield, small

Colour: charcoal-grey Order # 436.607

FEATURES

- Flexible true condenser microphone
- Supercardioid polar pattern
- Outstanding clear and detailed sound
- Switchable pre-attenuation (-15dB) and low-cut filter
- High sensitivity
- High impulse fidelity and good transient response
- Handcrafted in Germany

APPLICATION

The MC 950 is a flexible true condenser microphone with switchable -15 dB attenuation and low-cut filter. If you appreciate a clear sound and high impulse fidelity of small-diaphragm condenser microphones, our MC 950 is the right choice.

Due to its largely linear frequency response with gentle treble boost, the MC 950 microphone is suitable for use with a variety of signal sources such as piano, choir, orchestra or solo instruments of any kind. Due to its supercardioid polar pattern, the MC 950 can be used where sound from the rear is to be reliably attenuated, as it provides the most effective sound suppression at 140° and 220°.

The microphone also delivers excellent results for speech and vocal recordings – we recommend the optionally available WS 101 wind shield for speech and vocal recordings from a short distance as well as for outdoor recordings.

TECHNICAL SPECIFICATIONS

Transducer type . . . True condenser

Operating principle . . . Pressure gradient

Frequency response . . . 40 – 20,000 Hz

Polar pattern . . . Supercardioid

Sensitivity (0 dB = 1 V/Pa) . . . 35 mV/Pa (= -29 dBV)

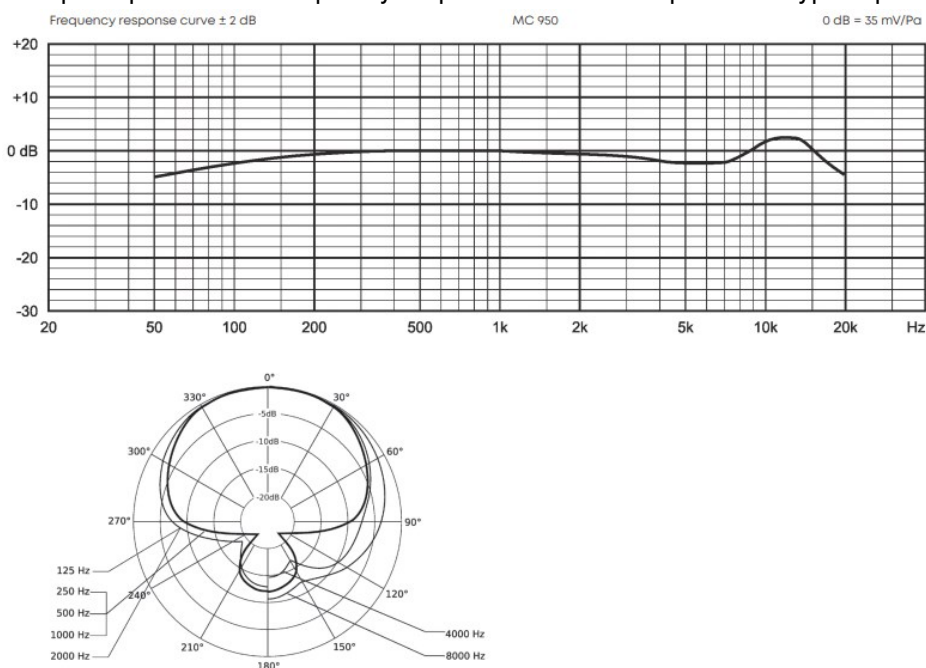
Nominal impedance . . . 180 Ω

Load impedance . . . 1000 Ω Max. SPL

at 1 kHz . . . 124 dB
 with pre-attenuation . . . 139 dB
Signal-to-noise ratio rel. to 1 Pa . . . 72 dB
A-weighted equivalent SPL . . . 15 dB
Low-cut filter . . . switchable, 6 dB/octave at 250 Hz
Power supply . . . 11 – 52 V phantom power
Current consumption . . . 4.6 mA
Connector . . . 3-pin XLR, male
Dimensions:
Length . . . 128 mm
Diameter . . . 21 mm
Weight . . . 106 g

FREQUENCY RESPONSE & POLAR PATTERN

This polar pattern and frequency response curve correspond to a typical production sample for this microphone.



INSTALLATION AND OPERATION

Connection

- The MC 950 is equipped with a 3-pin XLR connector.
You can connect it to any microphone input with phantom power (11 – 52 V) with a suitable microphone cable.
Activate phantom power for this purpose.
- Caution:** Carelessly laid cables are a trip hazard. People can be injured and the microphone can be damaged.

Operation

- In contrast to the MC 930, the MC 950 has a supercardioid polar pattern. In order to avoid feedback and noise as much as possible, you should position the microphone so that monitor speakers and other sources of interference radiate onto the microphone from behind (angle 140°). This is where the MC 950 provides the best possible attenuation.
- Adjusting the pre-attenuation For higher sound pressure levels, you can use the right slide switch on the front

of the microphone to switch on a pre-attenuation of 15 dB (imprint -15 dB).


- Adjusting the low-cut filter If a directional microphone (pressure gradient receiver) is used for short-range recordings, a physically induced increase in the low-frequency sound components occurs, which is referred to as a proximity effect. In order to compensate this effect, the MC 930 has a switchable low-cut filter below 250 Hz on the front (left) with 6 dB per octave.
- The MC 930 is supplied with the MA-CL 21 microphone clamp for tripods with 3/8" thread. For tripods with a 5/8" thread, you can unscrew the threaded insert.
- **Caution:** A tripod with an insecure stand can fall over and damage a microphone mounted on it. Make sure the tripod stands stable.

MAINTENANCE

- Use a soft cloth moistened with water to clean the microphone shaft.
- Make sure that no water enters the microphone.
- **Do not** use cleaning agents containing solvents.

DISPOSAL



-  This symbol on the product, in the operating instructions or on the packaging means that electrical and electronic devices must be disposed of separately from household waste at the end of their life cycle.
- Always dispose of used equipment in accordance with applicable regulations.
- Dealers for electronic equipment are generally obliged to take back waste electrical/electronic equipment free of charge. This obligation also applies to sales via remote communication.
- For further information, please contact the local authorities or the dealer from whom the product was purchased.

TROUBLESHOOTING AND SERVICE

- Should you have technical problems when using the microphone or should you need more instructions, please visit our FAQ website at <https://support.beyerdynamic.com>
- In case of service, please contact authorised service personnel. Never open the microphone yourself, as this could invalidate all warranty claims. Please visit our website <https://www.beyerdynamic.com> for service and replacement parts.

FURTHER INFORMATION

- If you need further information, please visit our website. On our product detail page www.beyerdynamic.com/mc-950.html you will also find sound samples.
- If you would like to learn more about beyerdynamic microphones for various applications, please visit <https://www.beyerdynamic.com/microphones-made-in-germany>

WARRANTY

beyerdynamic offers a limited warranty of 2 years on the purchased beyerdynamic product. The exact warranty conditions can be found on our website at <https://www.beyerdynamic.com/service/warranty>

CONFORMITY

Information on the conformity of the product can be found on our website at <https://www.beyerdynamic.com/downloads>

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Symbols





Documents / Resources

	beyerdynamic MC 950 True Condenser Microphone [pdf] User Manual MC 950 True Condenser Microphone, MC 950, True Condenser Microphone, Condenser Microphone, Microphone
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References

- [MC 950: True Condenser Microphone \(supercardioid\) | beyerdynamic](#)
- [MC 950: Echkondensatormikrofon \(Superniere\) | beyerdynamic](#)
- [Microphones Made In Germany | beyerdynamic](#)
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