

Condenser Microphone CM24/CMPA

The condenser microphone consists of two pieces. The cylindrical preamplifier module with the 5-pole XLR connector (1 - CMPA) is connected to the microphone capsule (2 - CM24) via a 17 mm thread. This allows to replace the capsule easily.



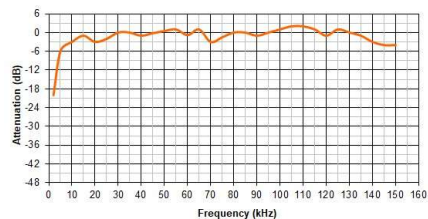
The integrated pre-amplifier has an internal compensation circuit that slightly boosts frequencies above 50 kHz.

Due to the principle of the amplifier, the actual gain depends on the capacitance of the microphone capsule. Therefore, smaller diaphragms (e.g. the CM16 capsule) will provide lower output voltages than the large CM24 capsule.

Condenser Microphone Capsule CM24

The microphone capsule consists of a thin metalized polyester film and a metal back plate. Do not touch the diaphragm because its metalization could be destroyed. It is recommended to use the capsule always with the protective grid.

Due to its thin metalization, the diaphragm may deteriorate especially under humid conditions. Therefore, it is recommended to store the microphone in a dry place. Spare capsules are available on request and deteriorated diaphragms can be replaced by Avisoft Bioacoustics at a small fee. With some skill, it would also be possible to replace the membrane foil on your own (by releasing the screws on the back of the capsule).

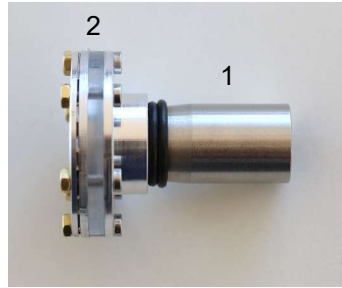


Replacing the CM24 microphone capsule

Hold the preamplifier module (1) and turn the CM24 capsule (2) anticlockwise to remove it from the preamplifier module. The protective grid can be removed by releasing the six M3 nuts. The new CM24 capsule can then be mounted in reverse order. To prevent electrostatic discharges that could potentially damage the preamplifier, one should first briefly connect the tip of the 2.5 mm screw of the new capsule to its aluminum housing by using a piece of metal, such as tweezers. Then briefly connect the aluminum housing of the capsule to the housing of the preamplifier module.

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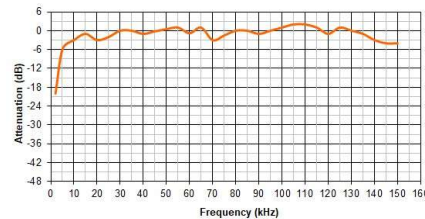
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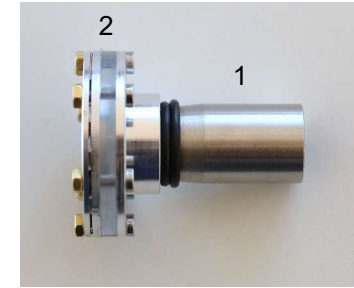


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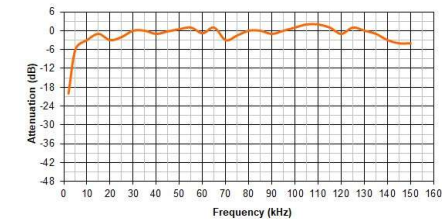
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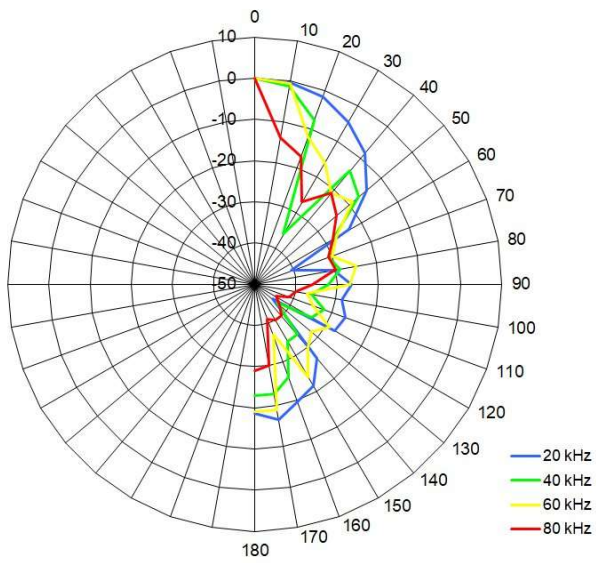
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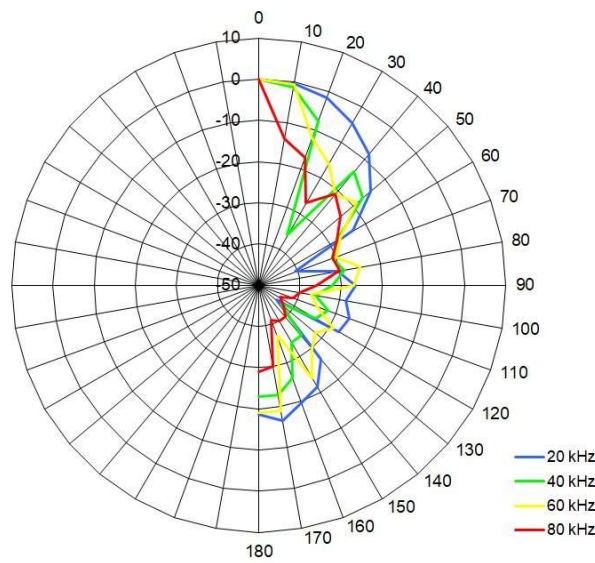


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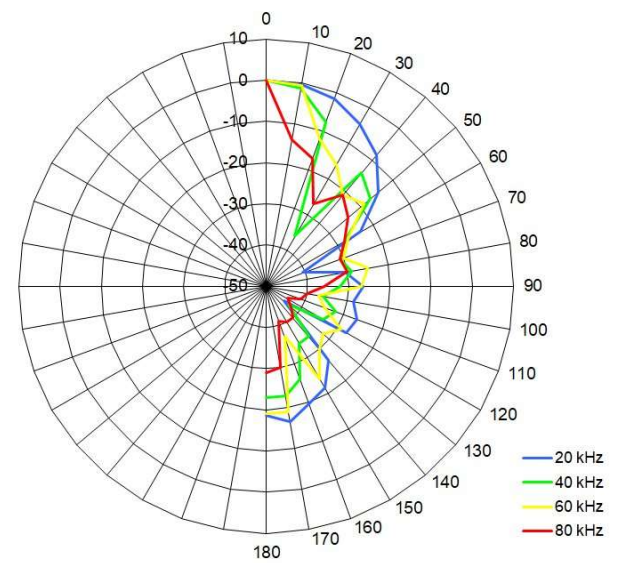
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Polar Diagram



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