Milab

Milab DC-196
Quick Guide Manual

Thank You for Choosing a Milab Microphone!

With a history that goes back to the 1930s, Milab is one of the oldest, continuously operating microphone manufacturers in the world.

Every one of our microphones is handcrafted in our plant in southern Sweden. Our quality control is meticulous and all microphones have to pass several stages of testing, including rigorous audio tests in our anechoic chamber.

We believe in our products, which is why every microphone is delivered with its own individual frequency chart and our industry-leading lifetime warranty.

Congratulations on your purchase and welcome to the Milab family!

Thomas Nöjdh, President

Package Includes

- Milab DC-196 condenser microphone
- Milab 3227 shock mount
- Milab 3403 windscreen
- Individual frequency chart
- Quick guide manual

The Milab DC-196 Condenser Microphone

The DC-196 is a versatile multi-pattern condenser microphone built around the Milab 2900 model rectangular capsule. It offers low noise, three selectable patterns (cardioid, omni, bidirectional), excellent SPL handling and an extremely smooth off-axis response – all in a very compact format. In fact, the DC-196 is one of the smallest large-diaphragm microphones ever produced.

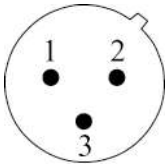
The DC-196 shines on transient-rich sources like acoustic instruments and, thanks to the unique properties of the rectangular capsule, it excels in recording situations where a smooth off-axis response is crucial, such as string ensembles and choirs, but also coincident stereo setups where large-diaphragm microphones are usually avoided.

Connection

The DC-196 can be connected to any mic input, mixer/amplifier, or mic preamp using a standard microphone cable (XLR). The microphone is designed for phantom powering at 48 V (P48, IEC 1938) with positive voltage on the audio lines versus the cable shield.

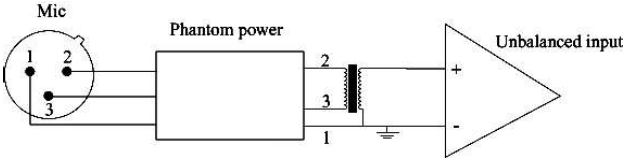
Microphone XLR pinout:

1: Ground (shield)
2: Hot (+ phase)
3: Cold (- phase)

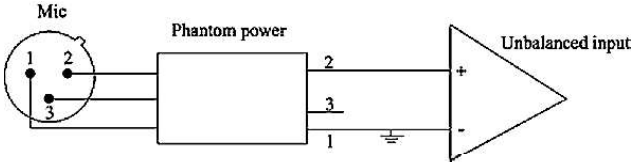


If the input device does not support phantom power, an external power supply has to be connected between the microphone and the input. Make sure that the extra phantom power has a DC-free output against the mixer, otherwise an RC network has to be incorporated to block the 48 VDC.

Connecting the microphone to an unbalanced input:



Connecting the microphone to an unbalanced input without a transformer. Pin 2 is the “hot phase“ and should be connected to the input. Pin 3 should be left open:



Guidelines for Use

• The DC-196 should be aimed with the Milab logo towards the sound source (in cardioid mode).

• The DC-196 is a multi-pattern microphone and offers three different polar patterns. Firmly turn the knob to set the microphone polar pattern in cardioid, omni or bidirectional mode. Please note that the system may need a few minutes to stabilize.

• The DC-196 is equipped with a pre-attenuation pad switch. In situations where sound levels may exceed 132 dB SPL, set the switch to the -12 dB position. The system may need a few minutes (2-5) to stabilize.

• The DC-196 must be placed in a stand holder or in a shockmount. It is not intended to be used as a handheld device.

• For outdoor recordings, use the enclosed windscreen to minimize wind noise.

• Use the enclosed windscreen or an external pop filter to reduce popping sounds when recording close-up vocals.

• Protect the microphone from dust and dirt which may damage the membrane.

• The microphone should not be exposed to water, extreme temperatures or humidity.

Service & Cleaning

All service and repair of the microphone should be performed by authorized personnel. All metal surfaces may be safely cleaned from time to time with alcohol or methylated spirits.

CAUTION! Protect the membrane when cleaning.

Declaration of Conformity CE

Milab Microphones AB declares that this device conforms to all applicable EU directives/regulations. The aforementioned product may only be used for audio purposes and in configurations approved by the manufacturer.

Lifetime Warranty

Your microphone is covered by our lifetime warranty. If you experience any problems, please contact the place where you purchased it for further instructions.

The warranty is intended to protect the customer from manufacturing and/or material defects. It does not cover careless or improper handling (intentional or unintentional), such as physical negligence, electrical overload etc.

Terms and conditions apply and are available on request. Please visit **www.milabmic.com/warranty** for more information.

Contact Information

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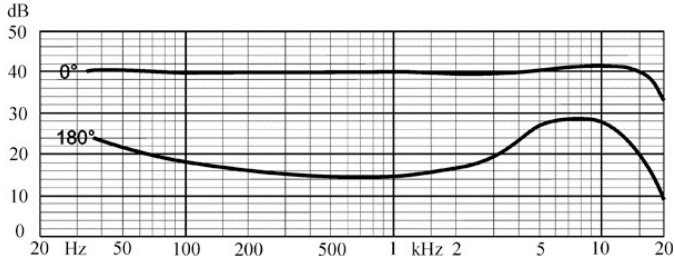
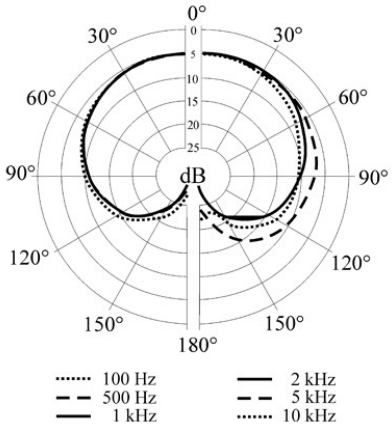
Specifications

Product name:	Milab DC-196
Type:	Condenser
Article number:	1133
Frequency response:	20 to 20,000 Hz
Polar pattern:	Cardioid, Omni, Bidirectional
Pre-attenuation pad:	-12 dB (switchable)
Max SPL (1 % THD at 1 kHz):	132 dB
Max SPL with pad:	144 dB
Sensitivity at 1 kHz:	21.5 mV/Pa (± 1 dB)
Noise level (IEC 179-A):	11 dBA (typical); 12 dBA (max)
Power supply:	48 ± 4 V Phantom (DIN/IEC)
Current consumption:	4.2 mA
Output impedance:	<200 Ω
Min. load impedance:	1 kΩ
Connection:	3-pin XLR
Length:	145 mm
Diameter:	27 mm
Net weight:	230 g

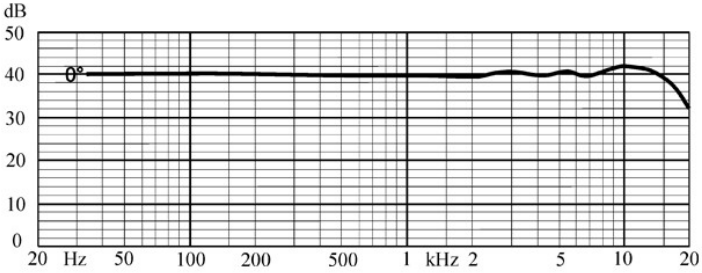
Frequency chart (cardioid):



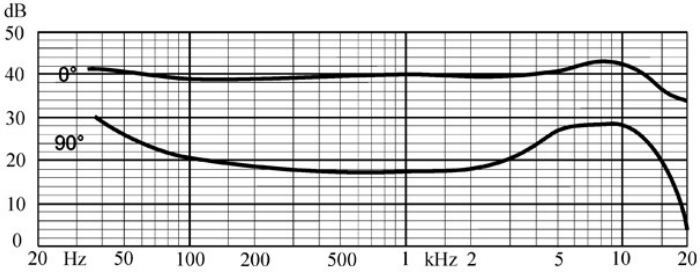
Polar diagram (cardioid):



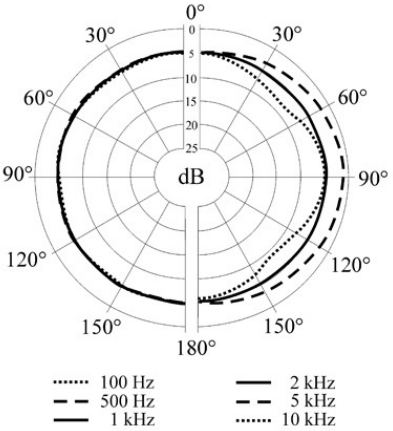
Frequency chart (omni):



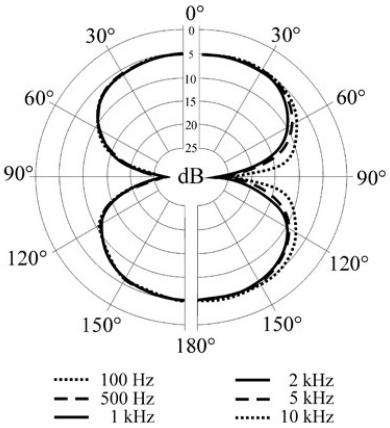
Frequency chart (bidirectional):



Polar diagram (omni):



Polar diagram (bidirectional):



For more information, please visit: www.milabmic.com

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