

# Milab

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## **Milab LSR-3000 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 LSR-3000 condenser microphone
- Milab 3127 stand holder
- Milab 3402 windscreen
- Individual frequency chart
- Quick guide manual

## **The Milab LSR-3000 Condenser Microphone**

The LSR-3000 represents the top of the line of Milab's long heritage of condenser microphones for stage use.

It is an extraordinary microphone for demanding live applications that will capture every subtle detail of the vocal performance.

Built around the capsule from the VM-44 system in a body made for a hard life on the road, the LSR-3000 is insensitive to hand noise, has excellent feedback rejection and can handle a staggering 150 dB without audible distortion.

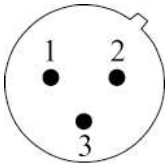
The LSR-3000 is available in black or nickel.

## Connection

The LSR-3000 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.

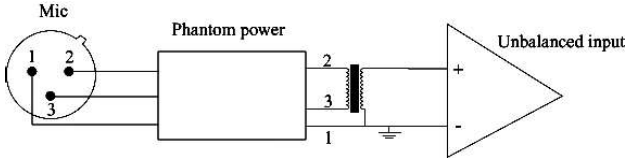
Microphone XLR pinout:

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

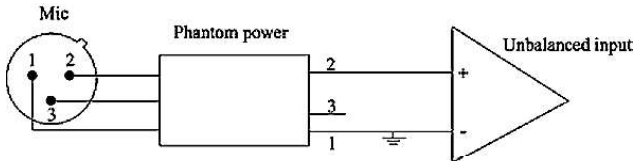


If the input device does not support phantom power, an external power supply has to be connected between the microphone and the input. Make sure that the extra phantom power has a DC-free output against the mixer, otherwise an RC network has to be incorporated to block the 48 VDC.

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 LSR-3000 should be aimed with the top grill towards the sound source. See polar diagram.
- The LSR-3000 can be used as a handheld device or together with a stand adapter (enclosed). When holding the microphone, do not cover any part of the grill with your hand since this may distort the sound.
- When using the LSR-3000 for close-up vocals, we recommend that you apply the 80 Hz high-pass filter to reduce the proximity effect. The proximity effect is an acoustic phenomenon in directional microphone which leads to an increase in low frequency response when a sound source is close to the microphone. The system may need a few minutes (2-5) to stabilize.
- The LSR-3000 is equipped with a switchable pre-attenuation pad. In situations where sound levels may exceed 138 dB SPL, set the switch to the -12 dB position. The system may need a few minutes (2-5) to stabilize.
- For outdoor recordings, use the enclosed windscreen to minimize wind noise.
- 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](http://www.milabmic.com/warranty) for more information.

## **Contact Information**

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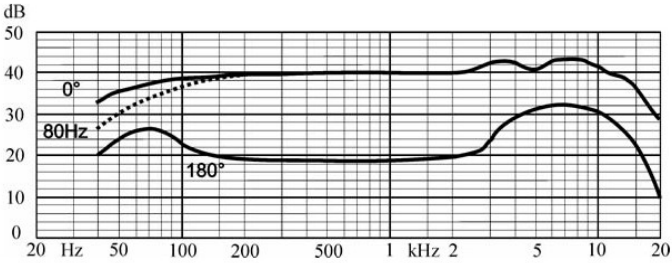
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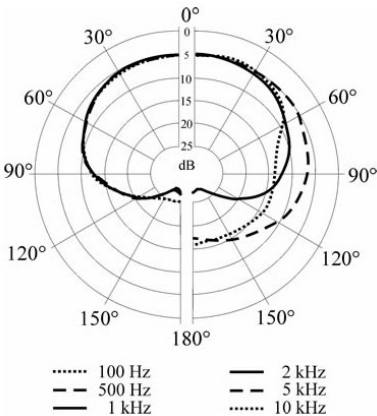
# Specifications

Product name:	Milab LSR-3000
Type:	Condenser
Article number:	1131 (black); 1132 (nickel)
Frequency response:	20 to 20,000 Hz
Filter:	80 Hz HPF (switchable)
Pre-attenuation pad:	-12 dB (switchable)
Max SPL (1% THD at 1 kHz):	138 dB
Max SPL with pad:	150 dB
Sensitivity at 1 kHz:	13 mV/Pa ( $\pm 1$ dB)
Noise level (IEC 179-A):	17 dBA (typical); 19 dBA (max)
Power supply:	48 $\pm$ 4 V Phantom (DIN/IEC)
Current consumption:	4 mA
Output impedance:	<200 $\Omega$
Min. load impedance:	1 k $\Omega$
Connection:	3-pin XLR
Length:	185 mm
Diameter:	24/47 mm
Net weight:	295 g

## Frequency chart:



## Polar diagram:



For more information,  
please visit:  
[www.milabmic.com](http://www.milabmic.com)

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