

DEVINE

BM-1000

Professional studio recording microphone



User manual

Any information and illustrations shown in this user manual are subject to change without further notice.

User manual version: 2.0 Creation date + author initials: 27-01-2014 RV Revision date + author initials: 17-05-2017 RV

Introduction

Thank you for purchasing this Devine BM-1000 broadcasting and recording microphone. Before you unpack all the received items, carefully read this manual to become familiar with the functions of the microphone. Also check the contents of the box to make sure all necessary parts are included. If the microphone fails to operate properly, or if you have any problems while using it, disconnect it and contact your local dealer for more information and help.



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Box contents

Box contents:

- 1x Devine BM-1000 microphone
- 1x metal popshield
- 1x shockmount
- 1x XLR – 3.5 mm jack cable for direct computer recording

Unit and accessory inspection

- If the unit is not going to be used for a longer period of time, disconnect it and store it in a dust-free environment.
- Always check the unit for possible damage before use. If you suspect that something is wrong with the unit, do not connect it! When you suspect that your unit is broken or damaged, contact your local dealer or a certified technician to inspect the unit.

Note: Illustrations shown in this manual may vary from the actual product.



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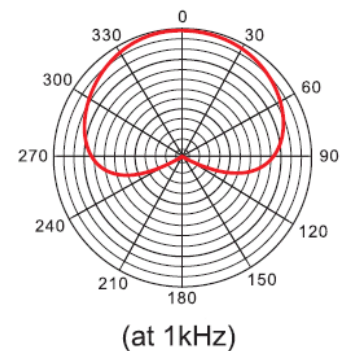
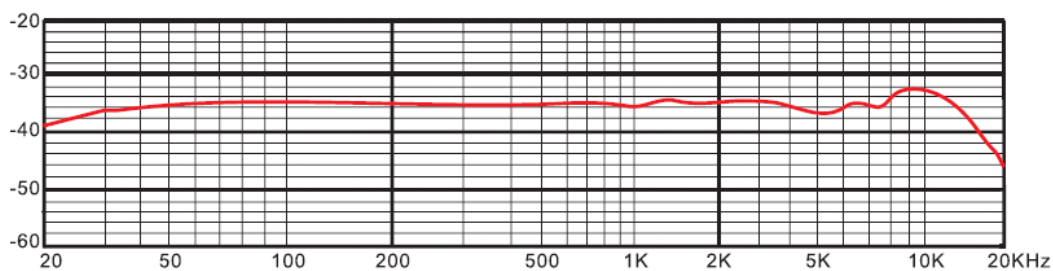
Use of the microphone

The Devine BM-1000 studio microphone is suitable for most recording applications in your studio.

The Devine BM-1000 has an unidirectional (cardioid) polar pattern. This is the most used polar pattern for most vocal and instrument recording applications. Most of the sound is captured at the front of the microphone, while reducing pickup of sound at the sides and especially the rear. This is the best choice when you use (studio)monitors directly behind the microphone, to avoid feedback problems when using live monitoring.

The BM-1000 microphone is equipped with a special capsule with pure aluminum plating (patented), to improve the sound to a warm, pleasant character.

The polar pattern and frequency response of the microphone are visible in the figures below:



The BM-1000 microphone has a slight boost in the higher frequencies (around 10 kHz) for clear vocal recording.

IMPORTANT: Phantom power and dynamic mode use

The BM-1000 microphone is equipped with a dual working system, as described below:

1. Dynamic mode (5V mode). This mode is for use with computers and laptops equipped with 3.5 mm microphone input and which do not have the ability to supply phantom power. Use the included cable. The microphone can not be used as dynamic microphone on powered speakers, mixers, audio interfaces and so on.

- + No separate phantom power needed
- Less dynamic capturing of sound, quality loss

2. Condenser mode (48V mode). This mode is for use with mixers and audio interfaces which are able to supply phantom power, or for use with external phantom power supplies.

- + Better sound quality and more dynamic sound
- requires +48V phantom power to work.

To change the status of the microphone, an internal switch is provided to change settings.

Pressed in = Phantom power mode

Pressed out = Dynamic mode

Do not change the status during use, as this might damage your microphone and speaker system (as the switch creates a short circuit during switching). This may permanently damage your speaker system and doing so will void any warranty. Always unplug the microphone when switching modes.

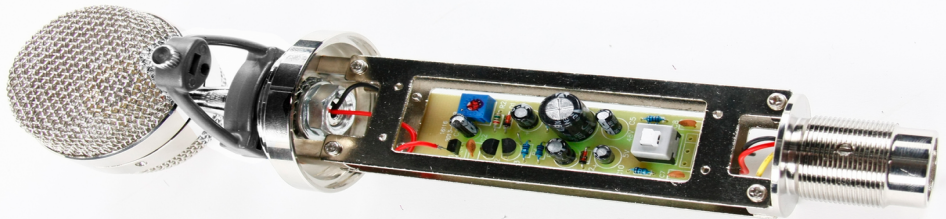
To switch to a different mode, loosen the bottom cap of the microphone (bottom chrome piece, surrounding the XLR connector).

After this, detach the black body housing while holding the head of the microphone firmly. You will see all internal components of the microphone and the white switch which is used to change the setting. Press the

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switch gently and select the desired working mode. After this, re-assemble the microphone in reverse order.



Close-up of the mode switch, to change from dynamic mode condenser mode and vice versa.

Protect your microphone:

This Devine microphone is equipped with very sensitive electronics to provide optimal audio performance. Make sure the microphone is not exposed to severe shocks, collision, drops from high altitude or any situations that may cause permanent damage. Improper use of the microphone is not covered by warranty. Always transport the microphone in the original package, or in a flightcase with proper foam inlay. Transporting the microphone without proper protection may cause permanent damage and will not be covered by warranty.

Positioning and using the included accessories:

The BM-1000 includes a shock mount and metal pop filter for optimal audio performance. Devine recommends to always use the included shock mount, to prevent audio distortion and background or handling noise. The metal pop screen is optional and is mostly used when recording vocals. The windscreens breaks up airflow caused by vocal expressions, which prevents distortion.

Connect your microphone to a mixer or audio interface:

This microphone comes with a XLR – 3.5mm TRS jack cable for direct connection with a computer microphone input. It is also possible to use a 3-pin XLR cable for connection with your mixer or audio-interface (XLR-XLR cable not included) if it can provide +48V phantom power in the 48V mode of the microphone. It is recommended to check the settings on your audio equipment before connecting the microphone, regardless of the selected working mode. Check your equipment for the following settings:

Mixer/Audio interface:

- Gain set to the 0-point (in the most final counter-clockwise position)
- Compression/lowcut settings positioned in the off or most neutral position
- EQ settings on the most neutral position
- Pan/Balance settings on the most neutral position
- Volume fader or potentiometer set to the lowest possible position
- Phantom power in the 'on' position when used in this mode (mostly a button per channel, or a group of channels)

Microphone:

- Steady positioning on a microphone stand (sold separately), with the included shock mount
- Make sure the audio source (vocalist or instrument) is positioned as close as possible to the microphone

After you checked the settings above, you may start recording the audio source. Placing the audio source as near to the microphone as possible, provides the best audio quality and grants you the ability to reduce overall gain settings, which prevents audio feedback and noise.

Turn the volume parameter (potentiometer or fader) on the '0 dB' position for the best audio performance and slowly increase the gain, until slight clipping (mostly indicated with a (LED) VU meter or LED) or distortion is noticed.

Placement on a microphone stand or boom arm

The shockmount of the BM-500 microphone is equipped with a 5/8" thread, suitable for most microphone stands. If your microphone stand has 3/8" thread, adapters can be purchased separately. For easy positioning, mount the shockmount with the thread mount before mounting the microphone.

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Troubleshooting

Problem	Possible Cause	Solution
No sound, or very low sound signal	No phantom power Volume set too low	Connect or activate phantom power supply Increase incoming volume and gain on your mixer, interface or other sound processing device
Rattling and cracking sounds	Microphone positioned too far away Moist inside the microphone	Place the microphone closer to the sound source Let the microphone dry on room temperature and avoid use of the microphone in humid or moist environments. Do not let the microphone come in contact with water or liquids.
Loud high frequencies coming from the speakers	Microphone positioned too close to the speakers, which causes feedback	Move the microphone further away from the speakers, or change the position to prevent the microphone to be aimed directly at the speakers.
Interruption of the microphone signal	Loose cable or broken cable	Check if the cable is plugged into the microphone correctly. If that does not solve the problem, try to change the cable.
Distortion and/or noise in the captured sound	Too much airflow caused by vocal airflows Too much airflow caused by wind (outdoor use)	Use the pop screen (included) Use a windscreen (sold separately)

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Technical specifications

- small diaphragm condenser recording microphone
- cardioid polar pattern
- high sensitivity for clear and detailed recordings
- low self noise
- wide dynamic range
- patented pure aluminum-plating diaphragm
- solid construction, modern appeal

- reflective nickel plated parts for a stylish appearance in every setup

Details:

- frequency response: 20 Hz - 20 kHz
- sensitivity: -37 dB (+/- 2 dB) at 0dB = 1V/Pa on 1 kHz
- output impedance: 200 Ohms (+/- 30%) on 1 kHz
- load impedance: \geq 1000 Ohms
- self noise level: 16 dBA
- max. SPL: 136 dB (at 1 kHz, 1% T.H.D.)
- S/N ratio: 78 dB
- power requirements: 5V or 48V phantom power (switch)

Physical:

- dimensions: 50 x 50 x 230 mm (microphone without shock mount)
- weight: 0.455 kg

Included accessories:

- nickel plated shock mount
- metal pop filter with mounting hardware
- XLR to 3.5 mm jack cable (2.5 m)



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