



DEVINE

BM-400 Professional broadcasting and recording microphone



User manual

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

User manual version: 1.0 Creation date + author initials: 27-01-2014 RV Revision date + author initials: 27-01-2014 RV

Introduction

Thank you for purchasing this Devine BM-400 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.



DEVINE

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

User manual version: 1.0 Creation date + author initials: 27-01-2014 RV Revision date + author initials: 27-01-2014 RV

Box contents

Box contents:

- 1x Devine BM-400 microphone
- 1x black windscreen
- 1x desktop microphone stand
- 1x XLR – XLR cable (3 meter)
- 1x protective transport/storage case

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.



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

User manual version: 1.0 Creation date + author initials: 27-01-2014 RV Revision date + author initials: 27-01-2014 RV

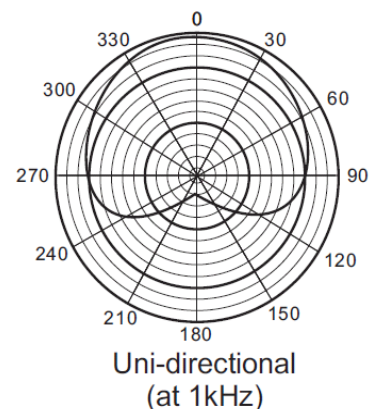
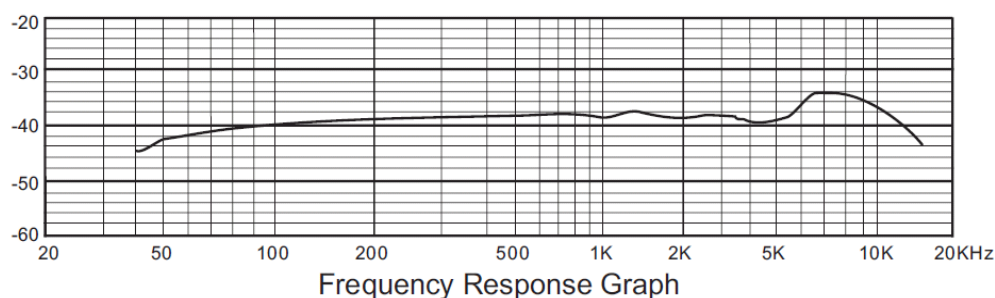
Use of the microphones

The Devine BM-400 studio microphone is suitable for most recording applications in your studio. Thanks to the cardioid pattern, the microphone is very suitable for recording of music instruments and vocals.

The Devine BM-400 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-400 microphone is equipped with a high quality condenser capsule, to record a pleasant sound.

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



The BM-400 microphone has a slight boost in the higher frequencies (around 5 to 10 kHz) for clear vocal recording.

IMPORTANT: Phantom power

This large-diaphragm studio condenser microphone requires +48V phantom power from a PA-mixer, studio-mixer, audio-interface or phantom power supply. Consult the manual of your equipment or contact your local dealer when in doubt if your equipment is capable of providing a +48V voltage.

This microphone will not work properly when there is no proper +48V voltage activated. Always check this if you suspect that your microphone might be damaged or broken.

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-400 includes a stand and windscreen for optimal audio performance. The included stand is ideal for desktop applications. It is possible to loosen the top of the microphone clip to mount the microphone on larger microphone stands. The stand is equipped with 3/8" thread, the microphone clip is equipped with 5/8" thread. The stand comes pre-mounted and a thread adapter is included, for optimal compatibility with your microphone accessories.

The included windscreen is optional and is mostly used when recording outdoor. The windscreen breaks up airflow, which prevents distortion.

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

User manual version: 1.0 Creation date + author initials: 27-01-2014 RV Revision date + author initials: 27-01-2014 RV

Connect your microphone to a mixer or audio interface:

This microphone uses a 3-pin XLR connector for connection with your mixer or audio-interface (cable included). It is recommended to check the settings on your audio equipment before connecting the microphone. Check your equipment for the following settings:

Mixer/Audio interface:

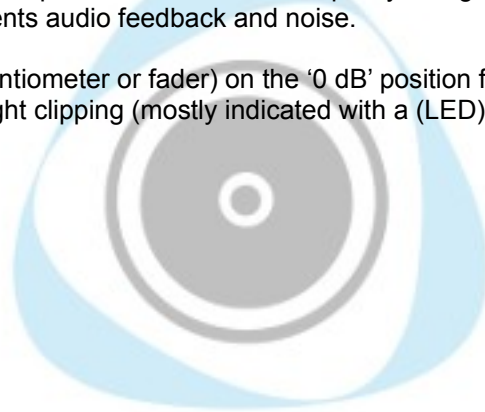
- Gain set to the 0-point (in the most final counter-clockwise position)
- Compression/lowcut settings positioned in the off or most neutral position
- EQ settings on the most neutral position
- Pan/Balance settings on the most neutral position
- Volume fader or potentiometer set to the lowest possible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

Microphone:

- Steady positioning on a microphone stand, with the included microphone clip
- 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.



DEVINE

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 a pop filter (sold separately) Use the windscreen (included)

DEVINE

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

User manual version: 1.0 Creation date + author initials: 27-01-2014 RV Revision date + author initials: 27-01-2014 RV

Technical specifications

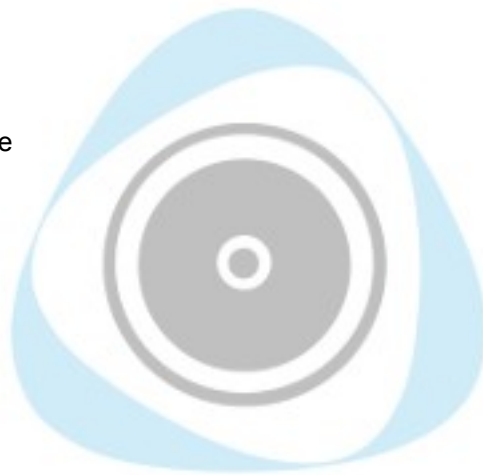
- large diaphragm condenser recording microphone
- cardioid (uni-directional) polar pattern
- high sensitivity for clear and detailed recordings
- low self noise
- wide dynamic range

Details:

- frequency response: 30 Hz - 18 kHz
- sensitivity: -38 dB (+/- 3 dB) at 0dB = 1V/Pa on 1 kHz
- output impedance: 100 Ohms (+/- 30%) on 1 kHz
- max. SPL: 135 dB (at 1 kHz, 1% T.H.D.)
- self noise level: 20 dBA
- S/N ratio: 74 dB
- working voltage: 9 - 52V phantom power
- electrical current: 3 mA

Included accessories:

- desktop microphone stand
- black windscreen
- protective transport/storage case



DEVINE

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

User manual version: 1.0 Creation date + author initials: 27-01-2014 RV Revision date + author initials: 27-01-2014 RV