



DEVINE

USB 50
USB condenser studio microphone



User manual

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User manual version: 1.0 Creation date + author initials: 10-12-2015 RV Revision date + author initials: -

Introduction

Thank you for purchasing the Devine USB 50 studio microphone. This studio microphone can be connected directly to a computer thanks to the built-in USB audio interface and the supplied USB cable.

The Devine USB 50 is a versatile USB studio microphone, ideal for vocal and instrument recording.




For optimal performance, connect the USB 50 to a computer. After the correct drivers are automatically installed, the USB 50 will be ready for use. It can be used as a microphone for Skype, for example, as well as for podcasting, broadcasting and vocal recording. If you wish to use the USB 50 for recording applications, audio editing software is required. Devine recommends installing the free software Audacity.

The USB 50 performs best when placed on a microphone stand. A small desktop stand is included with the USB 50 for immediate use. If you prefer to place the USB 50 on a normal microphone stand or a broadcasting arm, you can attach the shock mount onto a stand with a 5/8" thread. If a 3/8" connection is required, remove the 3/8" inner thread to 5/8" outer thread adapter from the desktop stand (tools may be required to loosen the adapter).

The included shock mount ensures that vibrations and unwanted handling noises are kept to a minimum. It is always recommended to use the USB 50 with the included shock mount. This microphone is not designed to be used as a hand held microphone. The super-cardioid polar pattern of the USB 50 picks up most of the sound directly from the front of the microphone. For optimal sound quality, position the vocalist or musician as closely to the microphone as possible (approx. 2-3 centimetres), and ensure they sing/speak/play directly into the front of the microphone.

Please note that the USB 50 microphone is a sensitive microphone and should be handled with care when transported or installed. Impacts and/or severe vibrations may have a negative impact on the lifespan and performance of the microphone. This microphone is not designed for on-the-road use.

Before unpacking all the received items, carefully read this manual to familiarise yourself with the functions of the microphone. Also, check the contents of the box to make sure all the necessary parts are included (see the section **Box contents** in this manual). If the microphone fails to operate properly, or if you encounter any problems while using it, disconnect it immediately and contact your local dealer for more information and help.

	<p>WEEE: Dispose of this product properly. This product is part of the WEEE directive – the Waste Electrical and Electronic Equipment directive. The requirements stated in this directive apply to all manufacturers and producers of electronic equipment in the EU.</p> <p>Do not dispose of this product together with regular household rubbish. Contact your local government representative for more information about proper disposal and recycling of electronic products in your region. By recycling this product properly after use, we can work together to enjoy these products and protect our environment from pollution.</p>
	<p>CE: The CE mark indicates that the product complies with applicable European directives and regulations.</p>
	<p>Indoor use only: This device is designed to only be used indoors. The maximum ambient temperature should not exceed 40 degrees Celsius (104 degrees Fahrenheit)</p>

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Box contents

Box contents:

- 1x Devine USB 50 studio microphone
- 1x shock mount with 5/8" thread
- 1x desktop stand with thread adapter from 5/8" outer to 3/8" inner thread
- 1x USB A – USB B cable, +/- 1.6 metres long

Please note: the USB cable is included in this box!
Beneath the microphone, you will find a piece of protective foam. When removed, you will find the USB cable underneath.

Unit and accessory inspection:

- If you do not plan to use the unit for an extended 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! If you suspect that your unit is broken or damaged, contact your local dealer or a certified technician to inspect the unit.



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Contact:

Devine pro audio and studio products
Verrijn Stuartweg 18
4462 GE Goes
The Netherlands

Please do not send any products directly to this address. If you wish to return a product for a refund or repair, please contact your local dealer for an RMA (Return Material Authorisation)

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Using the microphone

The Devine USB 50 studio microphone is suitable for various studio recording applications. It is designed for vocal recording, but can be used for instrument recording as well. It has a super-cardioid polar pattern, which means it captures most sound directly from the front of the microphone and a little from the rear.

Setting up the microphone

Please make sure that the USB 50 is placed on a suitable stand. This can be a small desktop stand (like the one included), as well as a large vertical or boom arm microphone stand. A thread adapter is included to ensure that the Devine USB 50 can be attached to nearly any microphone stand with ease.

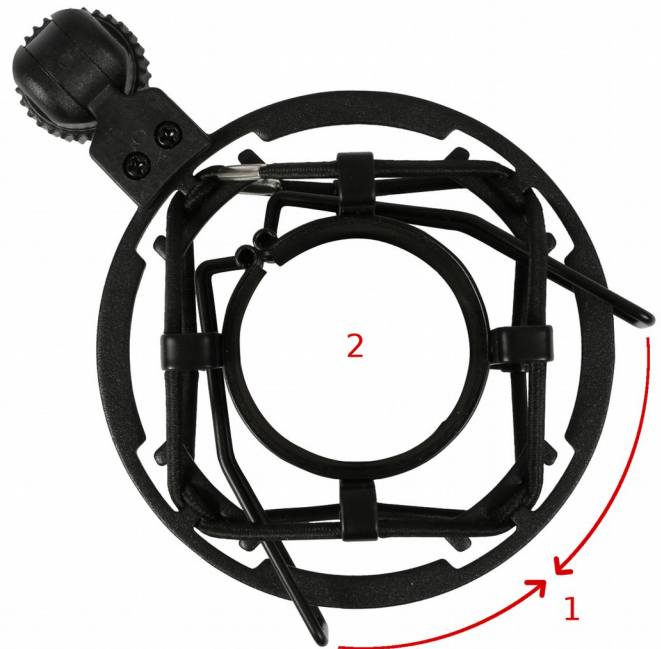
Make sure that the microphone is positioned as closely to the sound source as possible. To ensure optimal sound quality, make sure the vocalist or musician speaks/sings/plays directly into the front of the microphone. This ensures that the recording or live streaming of any sound takes place at an optimal volume level without the addition of extra boost or gain (which can cause unwanted noise).

To use the included desktop stand, attach the shock mount by tightening it onto the collapsed desktop stand. Once the shock mount is attached, unfold the desktop stand legs. For optimal stability, turn the shock mount so it lines up with one of the desktop feet.

To insert the USB 50 microphone, use your middle finger and thumb to press the metal brackets towards each other (1), making the inner section of the shock mount slightly larger (2). Hold the shock mount with one hand and slide the microphone into the metal brackets that are attached to the inner section.

The inner section is lined with foam padding to prevent scratches and damage to your microphone.

The microphone should be inserted with the logo facing towards you and the shock mount angle adjustment knob facing away from you. For the most optimal position, insert the microphone so that the brand and type number is still visible.



Connecting to your computer

The USB 50 can be connected to any Windows or Apple computer, desktop model or laptop. A software CD is not required to install the software on your computer.

Always use the included cable to connect the microphone to your computer. The square connector on one end fits perfectly into the base of the microphone, and the other end fits into a free USB port on your computer.

Once your computer is turned on and has finished its start-up procedure, connect the USB 50. When connected, a bright blue LED will turn on, indicating that there is USB power.

The computer should now recognize the USB 50 as a USB microphone and can use it for various applications. If your computer does not recognize the microphone, the required drivers may not be installed. If this is the case:

- ensure that your computer is connected to the internet to automatically download the required drivers.
- (for Windows) try a different driver, for example ASIO4ALL www.asio4all.com (free download).
- (for Mac) Mac computers are usually equipped with Core Audio API handling for audio which will take care of the installation process.

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Using the microphone for live broadcasting or recording

As stated earlier in this user manual, the sound source needs to be placed as close to the microphone as possible to ensure optimal audio quality. Placing the microphone further away from the source causes low-volume recording or sound, which would need to be artificially boosted, but this will also boost the self-noise of the microphone itself (which is present on all microphones). If you ensure that the source volume is good, unwanted noise as a result of artificial boost will not be necessary.

Most live broadcasting and/or podcasting software can only influence volume. Ensure that peaks in sound are not present in order to prevent distortion. When using recording software, start recording a track and test it to make sure the signal is not too low or too high. Reduce the microphone volume and/or gain if needed.

Protecting the microphone:

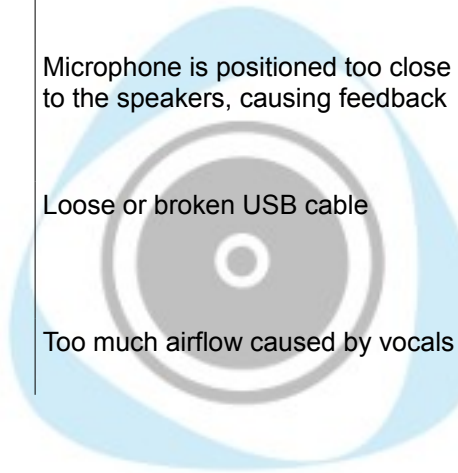
This Devine microphone is equipped with very sensitive electronics which provide optimal audio performance. Make sure the microphone is not exposed to situations that may cause permanent damage as a result of severe shocks, collisions, or falls from high altitudes. Improper use of the microphone is not covered by warranty. Always transport the microphone in the original packaging, or in a flight case with proper fitted foam inlay. This microphone is not intended for on-the-road use.



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Troubleshooting

Problem	Possible Cause	Solution
No sound, or very low sound signal	USB cable not connected (properly)	Connect the USB cable to your computer / make sure the cable is connected properly
	Volume set too low	Increase input volume and gain on your mixer, interface or other sound processing device
	Microphone positioned too far away	Place the microphone closer to the sound source
Rattling and cracking sounds	Moisture inside the microphone	Allow the microphone to dry in room temperature. 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 is positioned too close to the speakers, causing feedback	Move the microphone further away from the speakers, or change the position so the microphone is not aimed directly at the speakers.
Microphone signal is interrupted	Loose or broken USB cable	Check if the USB cable is plugged into the microphone correctly. If that does not solve the problem, try replacing the cable.
Distortion and/or noise in the captured sound	Too much airflow caused by vocals	Use a pop filter or windshield (sold separately)



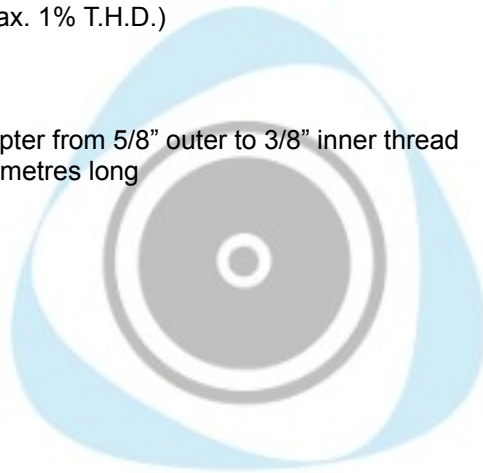
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Technical specifications

- works with all types of recording software or DAW (e.g. Audacity)
- compatible with Windows 2000/XP/Vista or later and Mac OS X
- studio USB microphone
- ideal for recording individual instruments, vocals and speech
- works on Windows and Mac computers
- installs drivers automatically
- utilises a high-quality condenser capsule
- 14 mm back electret condenser capsule
- polar pattern: super-cardioid (uni-directional)
- connection: USB Plug-and-Play (USB A - USB B)
- sampling and bitrate: 16 bits / 48 kHz
- frequency response: 20 Hz - 17 kHz
- sensitivity: -34 dB (+/- 3 dB) (0 dB = 1 V/Pa @ 1kHz)
- output impedance: 1000 ohms +/- 30% (@ 1 kHz)
- noise level: 16 dBA
- max. SPL: 132 dB (@ 1 kHz, max. 1% T.H.D.)
- S/N ratio: 78 dB

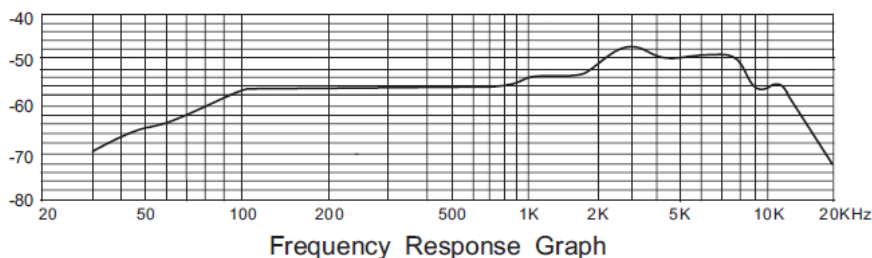
Included accessories:

- 1x desktop stand with thread adapter from 5/8" outer to 3/8" inner thread
- 1x USB A – USB B cable, +/- 1.6 metres long
- 1x shock mount with 5/8" thread

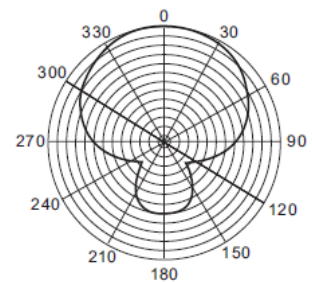


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Frequency response and polar pattern graph:



Frequency Response Graph



Super-directional
(at 1kHz)

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