



sE Electronics X1 Large-Diaphragm Condenser Microphone User Manual

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sE Electronics X1 Large-Diaphragm Condenser Microphone



Introduction

Thank you

We would like to thank you cordially for choosing this sE microphone! This manual contains some important instructions for setting up and operating your new equipment. Please take a few minutes to read the instructions below carefully. We hope you will enjoy working with it as much as we enjoyed designing and building it for you.

Most Sincerely,
Your sE Team

Brief Description

The X1 A is high quality condenser microphone intended for a wide range of studio applications, from vocals to drums to acoustic instruments and beyond. Thanks to its custom design and carefully-selected capsule, it delivers pristine sound quality and an even, well-balanced frequency response. The electronics and the switchable attenuation pad ensure a high dynamic range, with high sound pressure level (SPL) handling capability and extremely low-noise components. The switchable low cut filter eliminates rumble or footfall noise, and can also compensate for an excess of bass frequencies caused by the proximity effect. This enables the X1 A to close-mic many instruments including electric guitar speaker cabinets, brass instruments and drums. Reliable operation even in demanding on-stage applications in difficult environments is ensured by the roadworthy all-metal design, robust construction, and high quality manufacturing standards.

What's in the box

Your packaging should contain the follow items. If anything is missing, please contact your sE Electronics dealer and let them know.

- X1 A microphone
- microphone stand clip
- thread adapter

Controls

The X1 A features a switch for the attenuation pad and a switch for the low-cut filter.

Attenuation Switch

The Attenuation Switch is located on the front-left side of the microphone. When switched on, the incoming signal is reduced by 20 dB for capturing of loud instruments and/or close-miking without distortion. Using the switch also helps prevent overloading the input stage of recording interfaces, mixing desks and microphone preamps.



Low-Cut Switch

The Low-Cut Switch is located on the front-right side of the microphone. Wind noise, plosives, footfall noise or rumble might affect the recorded signal, so enabling the switchable low cut filter reduces such unwanted noise and prevents distortion. Additionally, the low cut filter also minimizes the proximity effect when recording sound sources at a very short distance.



Powering

In order to ensure proper operation, the microphone requires a phantom power source providing 48 Volts according to IEC 61938.

Risk of damage

Do not connect the microphone to any power supply other than a phantom power source (input with phantom power or external IEC standard phantom power supply) with a floating connector, using a balanced cable with studio grade connectors to IEC 268-12 only. This is the only way to ensure safe and reliable operation

Safety and maintenance

Risk of damage

Please make sure that the piece of equipment to which your microphone will be connected fulfils the safety regulations enforced in your country and is fitted with a ground lead.

Cleaning the microphone

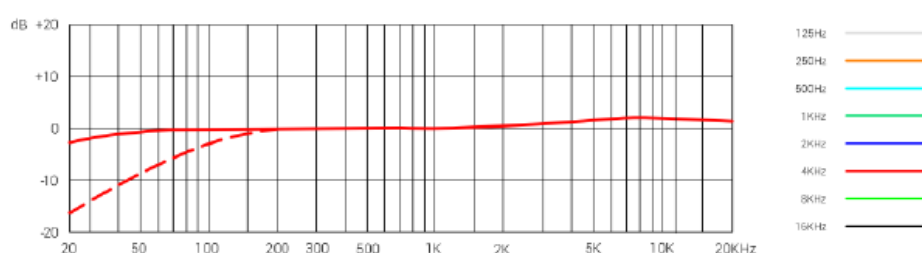
After every use, clean the microphone with a dry, soft cloth tissue and store it in a solid case or a zipper pouch.

Technical Specifications

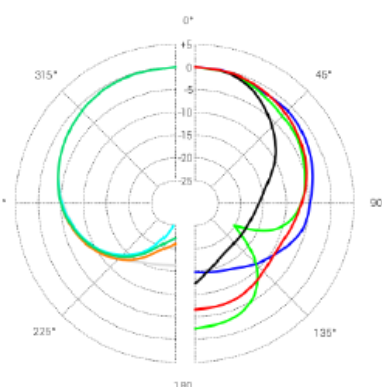
Capsule	2/3" condenser capsule
Polar patterns	Cardioid
Frequency range	20 – 20,000 Hz
Sensitivity	20 mV/Pa -34 dBV
Max. SPL (0.5% THD)	130 / 150 dBSPL (0/20 dB Attenuation pad)
Equivalent noise level	16 dB(A)
Dynamic range	114 / 134 dB (0/20 dB Attenuation pad)
Signal-to-noise ratio	78 dB(A)
Low cut filter	100 Hz, 6 dB/Oct, switchable

Attenuation pad	20 dB, switchable
Powering	48 Volts according to IEC 61938
Electrical Impedance	<50 Ohms
Recommended load impedance	>1k Ohms
Current consumption	4.0 mA
Connectivity	3-pin male XLR connector
Dimensions	Diameter: 58 mm (2.28 in.) Length 169 mm (6.65 in.)
Weight	390 g (13.8 oz.)

Frequency response



Polar Pattern



Support

- In case you are experiencing any problems or have any questions regarding your sE product, please contact your dealer first for the fastest and more direct service.
- If an authorized service is required, it will be arranged by that dealer: <http://www.seelectronics.com/dealers>
- If you still have difficulties with support or assistance, please do not hesitate to contact us directly: <http://www.seelectronics.com/contact-us>
- Lastly, remember to register your new gear to extend your warranty to a full three years: <http://www.seelectronics.com/registration>

Contact

Feel free to contact us: www.seelectronics.com / contact@seelectronics.com

- sE Electronics International,
- PO Box 1049
- 6 Beach Road
- Tiburon
- CA 94920

USA

Our international distributors and sales representatives: <http://www.seelectronics.com/contact-us> This product conforms to the standards listed in the Declaration of Conformity. Please contact us if you want to order a free copy of the Declaration of Conformity. Technical data subject to change without notice.

FAQs

What is the SE Electronics X1 microphone?

The SE Electronics X1 is a large-diaphragm condenser microphone known for its high-quality audio recording capabilities.

What type of microphone is the X1?

The X1 is a condenser microphone, which is ideal for capturing detailed and sensitive sound sources.

What applications is the X1 microphone suitable for?

The X1 is versatile and suitable for a wide range of applications, including studio recording, vocals, instruments, and broadcasting.

Does the X1 microphone require phantom power?

Yes, the X1 requires +48V phantom power to operate, which is a common feature on audio interfaces and mixers.

What is the frequency response of the X1 microphone?

The X1 has a frequency response of 20Hz-20kHz, making it suitable for capturing a wide range of audio frequencies.

Is the X1 microphone suitable for live performances?

While it's primarily designed for studio use, some musicians use the X1 for live performances, especially in

controlled sound environments.

Does the X1 microphone come with any accessories?

Yes, the X1 often comes with a shock mount and a protective pouch to ensure proper storage and usage.

Can I connect the X1 microphone to my computer?

Yes, you can connect the X1 to your computer using an audio interface or an XLR to USB adapter.

Is the X1 microphone suitable for recording vocals?

Yes, the X1 is well-regarded for its ability to capture vocals with clarity and warmth.

What is the polar pattern of the X1 microphone?

The X1 typically features a cardioid polar pattern, which focuses on sound sources in front of the microphone while minimizing background noise.

Does the X1 microphone require any special maintenance?

To ensure optimal performance, it's recommended to keep the microphone clean and protected from dust and moisture. Regularly check and clean the diaphragm.

Is the X1 microphone compatible with standard microphone stands?

Yes, the X1 microphone has a standard microphone mount, making it compatible with most microphone stands and boom arms.

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