

SR40/HC

Multi-Purpose Hypercardioid
High Definition Microphone™

User's Guide

Product Registration

To help you get the most out of your Earthworks purchase, please take a moment and register your product with us online at earthworksaudio.com/register.

Service & Repair

If you have any problems with your Earthworks products, please contact our Service & Repair Department.

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 **Earthworks®**
HIGH DEFINITION MICROPHONES™

Description

Earthworks SR40/HC is a directional pre-polarized condenser microphone with a first-order hypercardioid pickup pattern directly coupled to a dedicated wideband, low output impedance transformerless preamplifier. The SR40/HC requires a standard 24-48V Phantom Power supply. It features a flat frequency response from 100Hz to 40kHz, fast impulse response, very low handling noise, uniform polar pattern, and high SPL handling. The SR40/HC provides excellent uncolored rejection of sounds arriving off-axis.

Each SR40/HC microphone is delivered with its own calibration chart providing its individually measured frequency response curve. A mounting clip is included with the microphone.

Applications

Earthworks SR40/HC is easy to operate. Connect the microphone to a microphone preamplifier supplying 24-48V phantom power using a standard XLR microphone cable. Please allow up to one minute for the microphone to settle. Plugging in the microphone “hot” (phantom power already present at the input) will not damage the microphone, and is actually preferred for faster settling. It is normal for any phantom powered mic to cause a “pop” in the audio or recording system when plugged in or powered up. Make sure to mute the signal to speakers or headphones when phantom power is first applied to the microphone.

The excellent performance characteristics of the SR40/HC allow it to be utilized for a very wide range of applications. In the studio or on stage the SR40/HC is an ideal choice for a variety of instruments including sax, flute, trumpet, guitar, piano, and percussion. It is superior for vocals or choir because it doesn’t spotlight; rather, it uniformly picks up an entire section. The SR40/HC is popular among concert tapers because of its open uncolored sound and among jazz enthusiasts for its ability to capture explosive performances while retaining the subtle nuances of artistic expression.

This microphone has no removable parts.

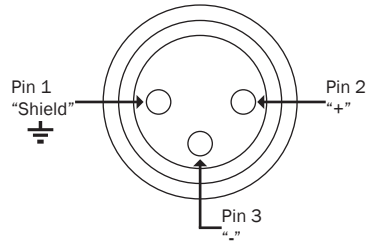
Care of Microphone

The Earthworks SR40/HC microphone is a precision instrument designed and built to provide years of top performance. Follow these simple rules to help to protect your investment in the SR40/HC:

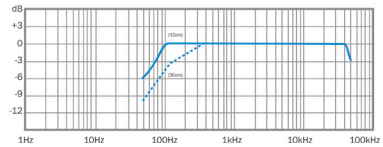
- Avoid touching the front protective screen.
- Never attempt to disassemble the microphone – it cannot be opened.
- Avoid extreme heat and condensing humidity. Allow the microphone to warm up in the case when bringing it in from the cold weather.
- Rough handling may damage the microphone even if no visible marks are left.
- When not in use keep the SR40/HC in its case.

Specifications

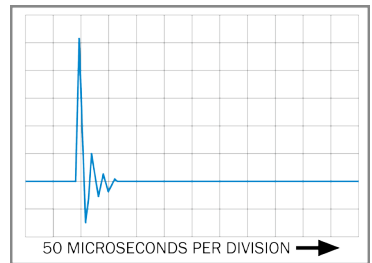
- Frequency response: 100Hz to 40kHz
 - Polar Pattern: Hypercardioid
 - Sensitivity: 20mV/Pa (-34dBV/Pa)
 - Power Requirements: 24-48V Phantom, 10mA
 - Peak Acoustic Input: 139dB SPL
 - Output: XLR-3
 - Output Impedance: 65Ω, balanced between pins 2 & 3
 - Minimum Load: 600Ω btw. pins 2 & 3
 - Noise: 16dB, A equivalent
 - Dimensions L x D: 229 x 22 mm (9 x .860 in.)
 - Weight: 225g (.5lb)
- Specifications are subject to change without notice.



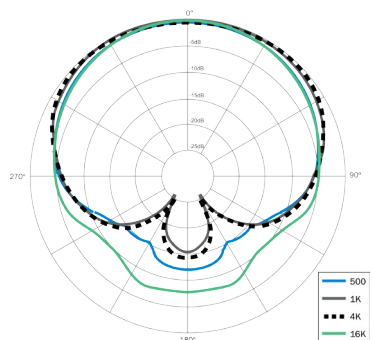
XLR Output Connector Assignment of SR40/HC



Frequency Response of SR40/HC (typical)



Impulse Response of SR40/HC (typical)



Polar Response of SR40/HC (typical)