

## Description

Earthworks SR40 is a directional prepolarized condenser microphone with a first-order cardioid pickup pattern directly coupled to a dedicated wideband, low output impedance transformerless preamplifier. The SR40 requires a standard 48V Phantom Power supply. It features a flat frequency response from 30Hz to 40kHz (Fig. 2), fast impulse response (Fig. 3), very low handling noise, uniform polar pattern (Fig. 4), and high SPL handling. The SR40 provides excellent uncolored rejection of sounds arriving off-axis.

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

The SR40 is protected by US Patent No. 6,091,829.

## Applications

Earthworks SR40 is easy to operate. Connect the microphone to a microphone preamplifier supplying 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 allow it to be utilized for a very wide range of applications. In the studio or on the stage the SR40 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 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 Microphones

The Earthworks SR40 microphone is a precision instrument designed and built to provide years of excellent performance. Following these simple rules will help to protect your investment in the SR40:

- 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 to room temperature when bringing it inside from the cold weather. Rough handling may also damage the microphone even if no visible marks are left.
- When not in use keep the SR40 in its case.

## Specifications

Frequency response:	30Hz to 40kHz $\pm 1.5\text{dB}$ at 6 inches (15cm)
Polar Pattern:	Cardioid (Fig. 4)
Sensitivity:	10mV/Pa (-40dBV/Pa)
Power Requirements:	48V Phantom, 10mA
Peak Acoustic Input:	145dB SPL
Output:	XLR (Fig. 1)
Output Impedance:	$100\Omega$ , balanced ( $50\Omega$ ea. pin 2 & 3)
Minimum Load:	$600\Omega$ btw. pins 2 & 3
Noise:	22dBA equivalent
Dimensions L x D:	9 x .860 in. (229 x 22 mm)
Weight:	.5lb (225g)

CE Compliant

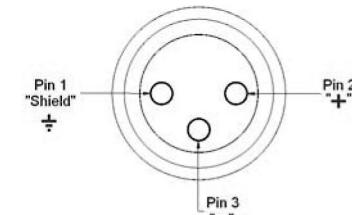


Fig. 1. XLR Output Connector Assignment of SR40

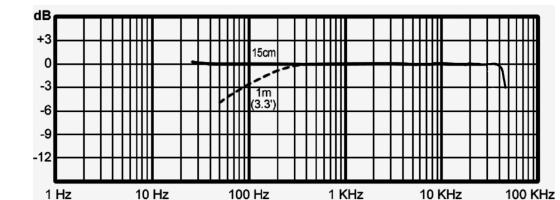


Fig. 2. Frequency Response (Typical) of S40

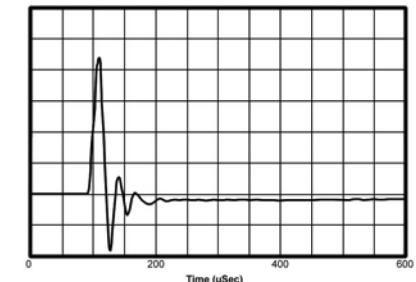


Fig. 3. Impulse Response (Typical) of SR40

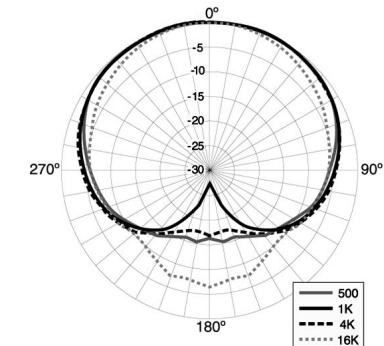


Fig. 4. Polar Response (Typical) of SR40

Specifications are subject to change without notice.

## **Technical Support**

Should you have any questions regarding your SR40 microphone please contact us:

e-mail: [Support@EarthworksAudio.com](mailto:Support@EarthworksAudio.com)  
phone: 1-603-654-6427, ext. 20 (9a.m. – 5p.m. ET)

For warranty and product return/exchange information please refer to the back of the enclosed Calibration Chart.

Warranty registration for the SR40 can be done online at: [www.EarthworksAudio.com](http://www.EarthworksAudio.com)



Earthworks, Inc.

37 Wilton Rd.

Milford, NH 03055 USA

Phone: 1-603-654-6427

Fax: 1-603-654-6107

<http://www.EarthworksAudio.com>



# SR40

## User's Manual



Made in U.S.A.

**HDM** HIGH DEFINITION MICROPHONES™